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1.9 brave-instrumentation-rpc 5.12.3

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* /opt/cola/permits/1112585893_1607115036.21/0/jaeger-thrift-0-27-0-sources-1-
jar/io/jaegertracing/thrift/reporters/protocols/ThriftUdpTransport.java
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jar/io/jaegertracing/thrift/senders/ThriftSenderBase.java

1.11 spring-context-support 4.3.19

1.12 woodstox 4.4.1
1.12.1 Available under license :
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1.13 jetty-servlets 9.4.29.v20200521
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.14 gmp 6.1.2+dfsg-4

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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# `/sys/license`

~~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

---

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left">&quot;GET&quot;</td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
$ curl
   --header "X-Vault-Token: ..."
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```
```
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UT",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUT</td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters
- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload
```
```json
{
  "text": "01ABCDEFG..."
}
```
```bash
--request PUT \n--data @payload.json \nhttp://127.0.0.1:8200/v1/sys/license
```
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- apic.go
- emitterc.go
- parserc.go
- readerc.go
- scannerc.go
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BSON library for Go

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mgo - MongoDB driver for Go

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<div class="field">
    <div class="control">
        <button type="submit" class="button is-primary" data-test-save-button>Save</button>
    </div>
</div>
</div>
</div>
</section>

{{else}}
    <section class="box is-sideless is-fullwidth">
        <span class="title is-5">Details</span>
        {{#if showForm}}
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                <div class="field">
                    <label for="license-id" class="is-label">License</label>
                    <div class="control">
                        {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
                    </div>
                </div>
                <div class="field is-grouped">
                    <div class="control">
                        <button type="submit" class="button is-primary" data-test-save-button>Save</button>
                    </div>
                    <div class="control">
                        <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
                    </div>
                </div>
            </form>
        {{else}}
            <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
                {{info-table-row label="License ID" value=licenseId}}
                {{#info-table-row label="Valid from" value=startTime}}
                    {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM DD, YYYY hh:mm:ss A'}}
                {{/info-table-row}}
            </div>
            <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
                <div class="control">
                    <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new license</button>
                </div>
            </div>
        {{/if}}
    </section>
{{/if}}
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deploy package github

import (    "context"    "fmt"
)

// LicensesService handles communication with the license related // methods of the GitHub API. // GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

type RepositoryLicense struct {    Name *string `json:"name,omitempty"`    Path *string `json:"path,omitempty"`
func (l *RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"`
    Name   *string `json:"name,omitempty"`
    URL    *string `json:"url,omitempty"`
    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    Featured *bool `json:"featured,omitempty"`
    Description *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions *[]string `json:"permissions,omitempty"`
    Conditions *[]string `json:"conditions,omitempty"`
    Limitations *[]string `json:"limitations,omitempty"`
    Body    *string `json:"body,omitempty"`
}

func (l *License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses []*License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool { return false }

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline}. 
* 
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li> { @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
Alternatively, the following adapter classes are provided for your convenience:

- {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
- {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and
- {@link ChannelDuplexHandler} to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

The context object

A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the channel pipeline it belongs to via a context object. Using the context object, the channel handler can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using attribute keys) which is specific to the handler.

State management

A channel handler often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}```
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}>&nbsp;{
    {&nbsp;@Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", &lt;b&gt;new DataServerHandler()&lt;/b&gt;);
    }
}

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message>&nbsp;{
    private final {@link AttributeKey}<{@link Boolean}> auth = {
        {&nbsp;@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
    }

    {&nbsp;@Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        {&nbsp;@link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            &lt;b&gt;attr.set(true)&lt;/b&gt;;
        } else (message instanceof GetDataMessage) {
            if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
    
    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
    
    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
}
```

<h4>The { @code @Sharable} annotation</h4>
<p>In the example above which used an { @link AttributeKey}, you might have noticed the { @code @Sharable} annotation. If a { @link ChannelHandler} is annotated with the { @code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline}s multiple times without a race condition. If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables. This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>. Additional resources worth reading</p>

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1.24 ev-store 7.0.0

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1.25 parse-asn1 5.1.6

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package pq

import {
  "context"
  "database/sql/driver"
}

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
  return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
// Note: Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
  c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.
type NoticeHandlerConnector struct {
  driver.Connector
  noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
  c, err := n.Connector.Connect(ctx)
  if err == nil {
    SetNoticeHandler(c, n.noticeHandler)
  }
  return c, err
}
// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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1.27 netty-handler-proxy 4.1.17

1.28 lz4 1.8.3-1

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* /opt/ws_local/PERMITS_SQL/1084394563_1598481158.67/0/exp4j-0-4-8-sources-1-
  jar/net/objecthunter/exp4j/ValidationResult.java
* /opt/ws_local/PERMITS_SQL/1084394563_1598481158.67/0/exp4j-0-4-8-sources-1-
  jar/net/objecthunter/exp4j/operator/Operators.java

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1.30 bcprov-ext-jdk15on 1.60

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 * Poly1305 message authentication code, designed by D. J. Bernstein.
 *<p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
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 * The polynomial calculation in this implementation is adapted from the public domain <a
 * href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
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 * SPHINCS-256 signer.
 */
This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used for message hashing and tree construction are now configurable (within limits...) and that the implementation produces detached signatures.

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file with no key entry. This happens with cacerts in Java 9+ because of the changes in JEP 229, because both JKS and PKCS12 files can now be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

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The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.47 spring-framework 3.2.13.RELEASE

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* /opt/col/a/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/io/ResourceLoader.java
* /opt/col/a/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/util/ConcurrentReferenceHashMap.java
* /opt/col/a/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
* /opt/col/a/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /opt/col/a/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java

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* /opt/col/a/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/convert/support/StringToArrayConverter.java
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jar/org/springframework/util/LinkedMultiValueMap.java
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jar/org/springframework/util/WeakReferenceMonitor.java
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jar/org/springframework/core/convert/ConverterNotFoundException.java
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jar/org/springframework/core/AliasRegistry.java
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jar/org/springframework/core/ControlFlowFactory.java
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jar/org/springframework/core/NamedInheritableThreadLocal.java
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*/opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/env/PropertyResolver.java
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* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/convert/AbstractDescriptor.java
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* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/env/PropertySources.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/convert/FieldDescriptor.java
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* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/core/enums/AbstractCachingLabeledEnumResolver.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1-jar/org/springframework/util/xml/TransformerUtils.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1.jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1.jar/org/springframework/core/io/support/ResourcePatternUtils.java
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* /opt/cola/permits/1112636243_1607123029.71/0/spring-core-3-2-13-release-sources-1.jar/org/springframework/config/core/InfrastructureProxy.java
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1.49 springfox-spring-webmvc 3.0.0

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package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    ===================================
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '.';
    String THIRTY_TWO_RESERVED_OFF = "..........................";

    //~ Methods
    ==============================================================
    ================
/**
 * Returns the bits that represents the permission.
 *
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern <code>String</code> representing this permission.
 *
 * Implementations are free to format the pattern as they see fit, although under no circumstances may
 * [ @link #RESERVED_OFF] or [ @link #RESERVED_ON] be used within the pattern. An exemption is in the
 * case of
 * [ @link #RESERVED_OFF] which is used to denote a bit that is off (clear).
 * Implementations may also elect to use [ @link #RESERVED_ON] internally for computation purposes,
 * although this method may not return any <code>String</code> containing [ @link #RESERVED_ON].
 *
 * The returned String must be 32 characters in length.
 *
 * This method is only used for user interface and logging purposes. It is not used in any permission
 * calculations. Therefore, duplication of characters within the output is permitted.
 *
 * @return a 32-character bit pattern
 */
String getPattern();

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Description: Makes the generated copyright headers reproducible
Author: Emmanuel Bourg <ebourg@apache.org>
Forwarded: no

--- a/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
 package build.tools.cldrconverter;
 import java.util.Calendar;
 +import java.util.Date;
 import java.util.GregorianCalendar;
 import java.util.Locale;
 import java.util.TimeZone;
@@ -150,8 +151,14 @@
 }
 private static int getYear() {
 -        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                         Locale.US).get(Calendar.YEAR);
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        return calendar.get(Calendar.YEAR);
 }
// no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
 import java.time.ZoneId;
 import java.time.ZonedDateTime;
 import java.util.ArrayList;
@@ -33,9 +33,13 @@
 private static int getYear() {
 -        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                         Locale.US).get(Calendar.YEAR);
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        return calendar.get(Calendar.YEAR);
 }
// no instantiation

private static String getOpenJDKCopyright() {
    int year = ZonedDateTime.now(ZoneId.of("America/Los_Angeles")).getYear();
    Date date = new Date();
    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
    }
    
    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
    calendar.setTime(date);
    
    int year = calendar.get(Calendar.YEAR);
    return String.format(Locale.US, COPYRIGHT, year);
}

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1.76 instrumentation-api 0.4.3

1.77 apache-ant 1.7.1

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<contributors>
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  These are some of the many people who have helped Ant become so successful.
  </introduction>
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    <last>Ishutin</last>
  </name>
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<h3 class="section">
<a name="Project Management Committee"></a>
Project Management Committee
</h3>
<h4 class="subsection">
<a name="Active Members"></a>
Active Members
</h4>
<p>
<br />
Currently a Systems Architect with Avue Technologies, Bruce has been working with Java since version 1.0a2. He also claims to be one of the first people to mark up a FAQ with HTML, for a web browser of the distant past called Cello.
</p>
<p>
<b>Stephane Bailliez</b>
</p>
<p>
<b>Matt Benson</b>
</p>
<p>
<b>Stefan Bodewig</b> (stefan.bodewig at freenet.de - <a href="http://stefan.samaflost.de/">http://stefan.samaflost.de/</a>)
</p>
Dominique Devienne (ddevienne at apache.org)

Dominique has been involved non-stop with the Ant user community since the 1.4 days, trying without success to answer posts as well or as often as Diane Holt after she left the user list. He is opinionated, always striving for the best possible design. While at Landmark Graphics, he designed and implemented large Ant/CppTasks builds for mixed Java/C++ projects.

Erik Hatcher (ehatcher at apache.org)

Erik is the co-author of <a href="http://www.manning.com/hatcher">Java Development with Ant</a> and speaks on Ant and other topics at <a href="http://www.nofluffjuststuff.com">No Fluff, Just Stuff symposiums</a> as well as other venues. Erik is the President of <a href="http://www.ehatchersolutions.com">eHatcher Solutions, Inc</a>.

Martijn (J.M.) Kruithof (ant at kruithof xs4all nl)

Martijn Kruithof is a system engineer working with and on Java products in a telecommunication network setting.

Antoine Levy-Lambert (antoine at apache.org)

Antoine is working as a software engineer for <a href="http://www.arielpartners.com">Ariel Partners</a>. He is specialized in builds and automation of deployment processes.

Steve Loughran

Conor MacNeill (conor at cortexebusiness.com.au)

Conor is a senior developer at Cortex eBusiness, where he develops J2EE based systems. In his spare time he helps with the development of the Ant build tool. He is also serving as the Chairman of this PMC.

Jan Matrne (jhm at apache.org)

Jan is consultant for OOA/D in the computer centre of the government
of Northrhine Westfalia / Germany.

<p>Peter Reilly</p>

<p>Sam Ruby</p>

(Sam takes a perverse pleasure in integrating disparate things. He is a member of the PHP group, Apache XML PMC, Apache sponsor for the xml-soap subproject and convener of ECMA TC39 TG3.

<p>Magesh Umasankar</p>

(Magesh is a lead software developer at Manugistics, where he is responsible for some of the Revenue Optimization solutions.

<p>Christoph Wilhelms</p>

(Christoph works as software engineer at the world's biggest travel company TUI. His passion are all UI related things so at the Ant-Project he takes care of Antidote - the Ant GUI.

<h4 class="subsection">
Emeritus Members</h4>

<p>James Duncan Davidson</p>

(By day, Duncan works in the Open Source Program Office at Sun Microsystems where he helps various Open Source efforts within Sun "do the right thing". Previously at Sun he was responsible for the Servlet API Specifications 2.1 and 2.2 as well as the Java API for XML Parsing 1.0 and was the original author of Tomcat and Ant. He was one of the rabble-rousers within Sun that helped make the Jakarta Project a reality and served as the first Chairman of the Jakarta PMC.)
Diane Holt

Donald Leslie

Costin Monolache

Jon Skeet

<h3 class="section">
<a name="Committers"></a>Committers</h3>

<h4 class="subsection">
<a name="Active Committers"></a>Active Committers</h4>

Steve Cohen

Jose Alberto Fernandez

Jesse Glick (jesse dot glick at sun dot com)

Jesse has been using Java since 1998 and joined Sun Microsystems as part of the company that produced the NetBeans IDE. After discovering Ant in the 1.2 days, he wrote most of NetBeans' Ant integration. Recently he has worked on the NetBeans 4.0 project system, based heavily on Ant as a build tool.

Kevin Jackson (foamdino at gmail.com)

Alexey Solofnenko (trelony at gmail.com)

<h4 class="subsection">
<a name="Emeritus Committers"></a>Emeritus Committers</h4>

Preston Bannister
<p>
<b>Nick Davis</b> (nick at apache.org)
</p>

Peter is an avid java developer who is active in the
<a href="http://jakarta.apache.org/avalon/">Avalon</a> and
<a href="http://ant.apache.org/">Ant</a> projects.
In his spare time he develops a distributed virtual environment
(ie military simulator or 3D game) using java technologies.

<p>
<b>Danno Ferrin</b> (shemnon at yahoo.com)
</p>

Danno has been programming in Java since Summer 96. Danno wrote a JSP
engine on his own and released it the very same day Jakarta was
announced at JavaOne. Since then, he decided to join the Jakarta
project in a spirit of co-operation over competition.

<p>
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</p>

Simeon is owner of Mustard Seed Software, which specializes in developing
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Tom is interested in distributed systems, Java middleware and worked on an
implementation of the JMS specification. At Whitestein Technologies he is
working on bringing software agent technology and J2EE together.

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Jason is author of "Java Servlet Programming" (O'Reilly) and publisher of

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<b>Arun Jamwal</b>

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Arnout J. Kuiper is a Java Architect with the Sun Java Center at Sun Microsystems. His main focus is web-related technologies on the Java platform (J2EE, XML, ...).

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Stefano is addicted to software design, Java programming and open development. In the last 4 years, he has contributed way too much time to Apache, especially on JServ, JMeter, Avalon, JAMES, Ant, Cocoon and helping to bring more projects into Apache-land, such as FOP, Batik, POI and Xindice. The problem is that he's too picky to be satisfied :-)

<b>Glenn McAllister</b> (glenn at somanetworks.com)

Glenn McAllister is a software developer at SOMA Networks, was formerly the same at IBM (plus tech writer plus build guy), and does some writing on the side for the VADD Technical Journal.

<b>Craig McClanahan</b> (Craig.McClanahan at eng.sun.com)

Craig was involved in the Apache JServ project, focused on implementing a next generation architecture and feature set for the core servlet engine. He has recently joined Sun as technical lead for the servlet and JSP reference implementation.

<b>Adam Murdoch</b>

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Harish is an engineer with the J2EE team at Sun, primarily responsible for implementing security in the J2EE Reference Implementation.
Nico Seessle

Gal Shachor (shachor at il.ibm.com)

Gal Shachor is a research staff member at IBM. He wrote his first Servlet container (ServletExpress) at the beginning of 1997. Later on ServletExpress (and Gal) merged into WebSphere, and Gal participated in the development of WebSphere 1, 2 and 3.

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Jesse Stockall

James Todd (jwtodd at pacbell.net)

James has developed real time customer oriented apps for roughly 10 years the last 5 of which have predominately been fully integrated, front and back, extraNet implementations which have been based on Apache, Java and Tcl.

Anil Vijendran (akv at eng.sun.com)

Anil Vijendran is the principal developer of the JSP engine in Tomcat. He's done some pretty scary things in his past life -- implementing the CORBA IDL to C++ 2.0 mapping, skydiving, IDL to Java compilers, Object Databases (SIGSEV, you da man!) for C++, Java ORB and EJB runtime environments -- in that order.
Ant's logo is the result of a logo contest, it has been designed by Nick King.
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      <li class="menuheader">Apache Ant</li>
      <ul>
        <li>
          <a href="/index.html">Welcome</a>
        </li>
        <li>
          <span class="sel">License</span>
        </li>
        <li>
          <a href="/antnews.html">News</a>
        </li>
      </ul>
    </li>
    <li class="menuheader">Documentation</li>
    <ul>
      <li>
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      </li>
      <li>
        <a href="/projects.html">Related Projects</a>
      </li>
      <li>
        <a href="/external.html">External Tools and Tasks</a>
      </li>
      <li>
        <a href="/resources.html">Resources</a>
      </li>
      <li>
        <a href="/faq.html">Frequently Asked Questions</a>
      </li>
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        <a href="http://wiki.apache.org/ant/FrontPage">Wiki</a>
      </li>
      <li>
        <a href="/problems.html">Having Problems?</a>
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<title>Apache Ant - Legal</title>
<link type="text/css" href="./page.css" rel="stylesheet">
<meta name="author" content="Jon S. Stevens">
<meta name="email" content="jon@latchkey.com">
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<body>
<p class="navpath">
<script src="./breadcrumbs.js" language="JavaScript" type="text/javascript"></script>
</p>

<div class="logobar">
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<td align="center" width="100%"><img alt="Apache Ant logo" border="0" src="./images/project-logo.gif"></td>
<td align="right">
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</tr>
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<input size="15" id="query" type="text">
<input height="1" width="5" alt="" src="./images/spacer.gif">
<input name="Search" value="Search" type="submit">
<br>
the Apache Ant site
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</table>
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</div>
</body>
<li class="menuheader">Contributing</li>
<ul>
<li>
<a href="/mail.html">Mailing Lists</a>
</li>
<li>
<a href="/svn.html">Subversion Repositories</a>
</li>
<li>
<a href="/nightlies.html">Nightly Builds</a>
</li>
<li>
<a href="/bugs.html">Bug Database</a>
</li>
</ul>

<li class="menuheader">Sponsorship</li>
<ul>
<li>
<a href="http://www.apache.org/foundation/thanks.html">Thanks</a>
</li>
<li>
<a href="http://www.apache.org/foundation/sponsorship.html">Sponsorship</a>
</li>
<li>
<a href="http://www.apache.org/foundation/contributing.html">Donations</a>
</li>
</ul>

<li class="menuheader">Project Management</li>
<ul>
<li>
<a href="/contributors.html">Contributors</a>
</li>
<li>
<a href="/mission.html">Apache Ant Mission</a>
</li>
<li>
<a href="/bylaws.html">Project Bylaws</a>
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<li>
<span class="sel">Legal</span>
</li>
</ul>
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Currently a Systems Architect with Avue Technologies, Bruce has been working with Java since version 1.0a2. He also claims to be one of the first
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</p>

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<b>Matt Benson</b><br/>
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Dominique has been involved non-stop with the Ant user community since the 1.4 days, trying without success to answer posts as well or as often as Diane Holt after she left the user list. He is opinionated, always striving for the best possible design. While at Landmark Graphics, he designed and implemented large Ant/CppTasks builds for mixed Java/C++ projects.
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Erik is the co-author of <a href="http://www.manning.com/hatcher">Java Development with Ant</a> and speaks on Ant and other topics at <a href="http://www.nofluffjuststuff.com">No Fluff, Just Stuff symposiums</a> as well as other venues. Erik is the President of <a href="http://www.ehatchersolutions.com">eHatcher Solutions, Inc</a>.
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Martijn Kruithof is a system engineer working with and on Java products in a telecommunication network setting.
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Antoine is working as a software engineer for <a href="http://www.arielpartners.com">Ariel Partners</a>.
He is specialized in builds and automation of deployment processes.

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Conor is a senior developer at Cortex eBusiness, where he develops J2EE based systems. In his spare time he helps with the development of the Ant build tool. He is also serving as the Chairman of this PMC.
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Christoph Wilhelms (christoph.wilhelms at t-online.de)

Christoph works as software engineer at the world's biggest travel company TUI. His passion are all UI related things so at the Ant-Project he takes care of Antidote - the Ant GUI.

James Duncan Davidson (duncan at x180.net - http://x180.net/)

By day, Duncan works in the Open Source Program Office at Sun Microsystems where he helps various Open Source efforts within Sun “do the right thing”. Previously at Sun he was responsible for the Servlet API Specifications 2.1 and 2.2 as well as the Java API for XML Parsing 1.0 and was the original author of Tomcat and Ant. He was one of the rabble-rousers within Sun that helped make the Jakarta Project a reality and served as the first Chairman of the Jakarta PMC.

Diane Holt

Donald Leslie

Costin Monolache

Jon Skeet

</p>

</subsection>

</section>

<section name="Committers">

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<section name="Active Committers">

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Steve Cohen

Jose Alberto Fernandez

Jesse Glick (jesse dot glick at sun dot com)
Jesse has been using Java since 1998 and joined Sun Microsystems as part of the company that produced the NetBeans IDE. After discovering Ant in the 1.2 days, he wrote most of NetBeans' Ant integration. Recently he has worked on the NetBeans 4.0 project system, based heavily on Ant as a build tool.

Kevin Jackson (foamdino at gmail.com)

Alexey Solofnenko (trelony at gmail.com)

Emeritus Committers

Preston Bannister

Nick Davis

Darrell DeBoer

Peter Donald (peter at apache.org)
Peter is an avid java developer who is active in the Avalon and Ant projects. In his spare time he develops a distributed virtual environment (ie military simulator or 3D game) using java technologies.
Danno Ferrin (shemnon at yahoo.com)
Danno has been programming in Java since Summer 96. Danno wrote a JSP engine on his own and released it the very same day Jakarta was announced at JavaOne. Since then, he decided to join the Jakarta project in a spirit of co-operation over competition.

Simeon H.K. Fitch (simeon.fitch at mseedsoft.com)
Simeon is owner of Mustard Seed Software, which specializes in developing distributed applications and user interfaces for the science, engineering, and research oriented clients. He is the lead architect and developer for Antidote, the GUI for Ant.

Thomas Haas (tha at whitestein.com)
Tom is interested in distributed systems, Java middleware and worked on an implementation of the JMS specification. At Whitestein Technologies he is working on bringing software agent technology and J2EE together.

Jason Hunter (jh at servlets.com)

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Arun Jamwal

Arnout J. Kuiper (ajkuiper at planet.nl)
Arnout J. Kuiper is a Java Architect with the Sun Java Center at Sun Microsystems. His main focus is web-related technologies on the Java platform (J2EE, XML, ...).

Stefano Mazzocchi (stefano at apache.org)
Stefano is addicted to software design, Java programming and open development. In the last 4 years, he has contributed way too much time to Apache, especially JServ, JMeter, Avalon, JAMES, Ant, Cocoon and helping to bring more projects into Apache-land, such as FOP, Batik, POI and Xindice. The problem is that he's too picky to be satisfied :-)

Glenn McAllister (glenn at somanetworks.com)
Glenn McAllister is a software developer at SOMA Networks, was formerly the same at IBM (plus tech writer plus build guy), and does some writing on the side for the VADD Technical Journal.

Craig McClanahan (Craig.McClanahan at eng.sun.com)
Craig was involved in the Apache JServ project, focused on implementing a next generation architecture and feature set for the core servlet engine. He has recently joined Sun as technical lead for the servlet and JSP reference implementation.

Adam Murdoch

Harish Prabandham (harishp at onebox.com)
Harish is an engineer with the J2EE team at Sun, primarily responsible for implementing security in the J2EE Reference Implementation (RI). He integrated various technologies including servlet/JSP implementations from Tomcat into the J2EE RI. These days, he hacks PHP code during the day.
<p><b>Nico Seessle</b></p>

Gal Shachor is a research staff member at IBM. He wrote his first Servlet container (ServletExpress) at the beginning of 1997. Later on ServletExpress (and Gal) merged into WebSphere, and Gal participated in the development of WebSphere 1, 2 and 3.

<p><b>Jon S. Stevens</b> (jon at collab.net)</p>


<p><b>James Todd</b> (jwtodd at pacbell.net)</p>

James has developed real time customer oriented apps for roughly 10 years the last 5 of which have predominately been fully integrated, front and back, extraNet implementations which have been based on Apache, Java and Tcl.

<p><b>Anil Vijendran</b> (akv at eng.sun.com)</p>

Anil Vijendran is the principal developer of the JSP engine in Tomcat. He’s done some pretty scary things in his past life -- implementing the CORBA IDL to C++ 2.0 mapping, skydiving, IDL to Java compilers, Object Databases (SIGSEV, you da man!) for C++, Java ORB and EJB runtime environments -- in that order.
Ant’s logo is the result of a logo contest, it has been designed by Nick King.

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David Megginson, david@megginson.com 2000-05-05
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The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2’s various parts is at:
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The specification of DOM Level 1’s various parts is at:
Links to all available W3C DOM Java Bindings can be found at:
  http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
  http://www.w3.org/Style/CSS/SAC/
  http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
  http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
  (both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
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  jar/io/netty/resolver/InetNameResolver.java
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 *
 * Run 'java Main [-showtree] directory-full-of-java-files'
 *
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  * the AST constructed from the parser.]
  *
  * Run 'java Main <directory full of java files>'
  *
  * Contributing authors:
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  *Steve Messick     messick@redhills.com
  *John Pybus        John@pybus.org
  *
  * Version 1.00 December 9, 1997 -- initial release
  * Version 1.01 December 10, 1997
  *fixed bug in octal def (0..7 not 0..8)
  * Version 1.10 August 1998 (parrt)
  *added tree construction
  *fixed definition of WS,comments for mac,pc,unix newlines
  *added unary plus
  * Version 1.11 (Nov 20, 1998)
  *Added "shutup" option to turn off last ambig warning.
  *Fixed inner class def to allow named class defs as statements
  *synchronized requires compound not simple statement
  *add [] after builtInType DOT class in primaryExpression
  *"const" is reserved but not valid..removed from modifiers
  * Version 1.12 (Feb 2, 1999)
  *Changed LITERAL_xxx to xxx in tree grammar.
  *Updated java.g to use tokens [...] now for 2.6.0 (new feature).
  *
  * Version 1.13 (Apr 23, 1999)
  *Didn't have (stat)? for else clause in tree parser.
  *Didn't gen ASTs for interface extends. Updated tree parser too.
  *Updated to 2.6.0.
  * Version 1.14 (Jun 20, 1999)
  *Allowed final/abstract on local classes.
  *Removed local interfaces from methods
  *Put instanceof precedence where it belongs...in relationalExpr
  *It also had expr not type as arg: fixed it.
  *Missing ! on SEMI in classBlock
  *fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  *fixed: didn't like Object[].class in parser or tree parser
  * Version 1.15 (Jun 26, 1999)
  *Screwed up rule with instanceof in it. :(  Fixed.
Tree parser didn't like (expr).something; fixed.
Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
Extending an interface built a wacky tree: had extra EXTENDS.
Tree grammar didn't allow multiple superinterfaces.
Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
ESC lexer rule allowed 399 max not 377 max.
java.tree.g didn't handle the expression of synchronized statements.
* Version 1.18 (August 12, 2001)
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o primary didn't include boolean.class kind of thing
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* Using Unicode charVocabulay makes code file big, but only
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*
* Ternary ?: operator wasn't working as array name:
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* Checked parser/tree parser on source for
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* Notes:
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  * o Added support for static import syntax
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* o Replaced GT reconciliation code with simple semantic predicate
* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
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* o Added typeArguments to postfixExpression productions for anonymous inner class super
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* Version 1.22.4.j.1
* Changes by Jeremy Rayner to support java2groovy tool
* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
* and have made some changes to enable use by java2groovy tool (Jan 2007)
*
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/classgen/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/control/messages/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/control/io/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/time/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/security/package.html
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/runtime/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/io/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/antlr/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/security/package.html
jar/org/codehaus/groovy/ast/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/javac/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/grape/defaultGrapeConfig.xml
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/xml/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/package.html
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jar/org/codehaus/groovy/tools/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metallass/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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# Format: one extension on each line without the leading "*.
# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions

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/** JSR-241 Groovy Recognizer.
 *
 * Run 'java Main [-showtree] directory-full-of-groovy-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Contributing authors:
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 * Jeremy Rayner groovy@ross-rayner.com
* Alex Popescu the.mindstorm@gmail.com
* Martin Kempf mkempf@hsr.ch
* Reto Kleeb rklee@hsr.ch

* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
* fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
* added tree construction
* fixed definition of WS,comments for mac,pc,unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class defs as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens {...} now for 2.6.0 (new feature).

* Version 1.13 (Apr 23, 1999)
* Didn't have (stat)? for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
* fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it. :( Fixed.
* Tree parser didn't like (expr).something; fixed.
* Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
* Extending an interface built a wacky tree: had extra EXTENDS.
* Tree grammar didn't allow multiple superinterfaces.
* Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
* ESC lexer rule allowed 399 max not 377 max.
* java.tree.g didn't handle the expression of synchronized statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
* observing/combining work of Allan Jacobs and Steve
Messick. Handles 1.3 src. Summary:

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  * constructor invocation, e.g. new Outer().<String>super()
  * o Fixed bug in array declarations identified by Geoff Roy

* Version 1.22.4.g.1
  * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  * and have applied the groovy.diff from java.g (1.22) by John Rose
  * back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)

* Version 1.22.4.g.2
  * o mkempf, rkleeb, Dec 2007
  * o fixed various rules so that they call the correct Create Method
  * to make sure that the line information are correct

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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/groovy/transform/stc/PickAnyArgumentHint.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/codehaus/groovy/syntax/ParserException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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jar/groovy/util/logging/Commons.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/DefaultGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/reflection/ReflectionCache.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/StringBufferWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/packageScopeASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/ClassGeneratorException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/Memoize.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/ast/expr/PostfixExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/ast/expr/MapEntryExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/runtime/callsite/PogoInterceptableSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/anthr/java/Groovifier.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/control/customizers/builder/CustomizersFactory.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/io/EncodingAwareBufferedWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/time/TimeDatumDependentDuration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/runtime/wrapppers/Wrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/apache/groovy/internal/util/ReevaluatingReference.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/options/Visibility.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/reflection/stdclasses/IntegerCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/classgen/genDgmMath.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/classgen/asm/sc/StaticTypesClosureWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/ListHashMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/IntRange.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/propertyOptions/Visibility.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/reflection/stdclasses/IntegerCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/classgen/genDgmMath.groovy
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jar/groovy/transform/Internal.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/m12n/StandardPropertiesModuleFactory.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/KnownImmutable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/BaseScript.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/tools/javac/JavaCompiler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/SpreadMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/classgen/ClassCompletionVerifier.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/util/ObjectGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/util/URLStreams.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/util/DelegatingScript.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/SpreadMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/metadata/MixinInstanceMetaProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/callsite/CallSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/TupleConstructorASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/PermitsSqlModuleFactory.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/PermitsSqlModuleSourceSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/messages/ExceptionMessage.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/builder/InitializerStrategy.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/AttributeExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/IndyCallSiteWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/AdaptingMetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/TailRecursive.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/powerassert/AssertionRenderer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/InvokeDynamicWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/AssertStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/jar/groovy/lang/IncorrectClosureArgumentsException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/MixinASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/Reference.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MetaBeanProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/plugin/GroovyRunner.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/TokenException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/Statement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/IllegalPropertyAccessException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/metaclass/Realm.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/GroovySourceAST.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/powerassert/SourceTextNotAvailableException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/BigDecimalCachedClass.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/decompiled/Annotations.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/memoize/ValueConvertible.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/Expando.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/CallSiteAwareMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/PackageScopeTarget.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/xml/QName.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MultipleSetterProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/DefaultGroovyMethodsSupport.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/ImportNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/SourceExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/GStringExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/LongWrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/SharedVariableCollector.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/time/TimeDuration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/AbstractInterruptibleASTTransformation.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/util/SystemUtil.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/builder/AstBuilderTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/util/TypeUtil.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/util/LoggableTextifier.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/io/FileReaderSource.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/javac/JavaStubGenerator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/decompiled/ClassSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/GroovyClassLoader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Buildable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MissingPropertyException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MissingPropertyExceptionNoStack.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/ResourceException.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/ProcessGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MissingPropertyException.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/antlr/java/Java2GroovyMain.java
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- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/BaseScriptASTTransformation.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/tools.LoaderConfiguration.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/tools/GroovyClass.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/vmplugin/v8/PluginDefaultGroovyMethods.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/util/ListBufferedIterator.java
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- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/trait/TraitComposer.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/anthr/EnumHelper.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/CurriedClosure.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/ org/codehaus/groovy/runtime/wrappers/CharWrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/ org/codehaus/groovy/runtime/callsite/DummyCallSite.java
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1.83 spring-context 5.2.7.RELEASE

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 */
* Indicates that a component is only eligible for registration when all
* [@linkplain #value specified conditions] match.
*
* &lt;p&gt;A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programmatically
* before the bean definition is due to be registered (see [@link Condition] for details).
*
* &lt;p&gt;The [@code @Conditional] annotation may be used in any of the following ways:
* &lt;ul&gt;
* &lt;li&gt;as a type-level annotation on any class directly or indirectly annotated with
* [@code @Component], including [@link Configuration @Configuration] classes&lt;/li&gt;
* &lt;li&gt;as a meta-annotation, for the purpose of composing custom stereotype
* annotations&lt;/li&gt;
* &lt;li&gt;as a method-level annotation on any [@link Bean @Bean] method&lt;/li&gt;
* &lt;/ul&gt;
*
* &lt;p&gt;If a [@code @Configuration] class is marked with [@code @Conditional],
* all of the [@code @Bean] methods, [@link Import @Import] annotations, and
* [@link ComponentScan @ComponentScan] annotations associated with that
* class will be subject to the conditions.
*
* &lt;p&gt;&lt;strong&gt;NOTE&lt;/strong&gt;: Inheritance of [@code @Conditional] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom &lt;em&gt;composed annotation&lt;/em&gt; that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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  */
/**
 * @link FactoryBean] that obtains a WebSphere [ @link javax.management.MBeanServer]
 * reference through WebSphere's proprietary [ @code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [ @code MBeanServer] for bean references.
 *
 * <p>This [ @code FactoryBean] is a direct alternative to [ @link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's [ @link MBeanServer].
 *
 * <p>See the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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* /opt/cola/permits/113580277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /opt/cola/permits/113580277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /opt/cola/permits/113580277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
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/**
 * Abstract the invocation of a cache operation.
 *
 * Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
* @since 4.1
*/

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/AnnotationFormatterFactory.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/Description.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
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* /opt/ cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scripting/joda/JodaTimeFormatterRegistrar.java
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jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
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jar/org/springframework/context/EnvironmentAware.java
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jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
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jar/org/springframework/jmx/export/NotificationListenerBean.java
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jar/org/springframework/jmx/support/NotificationListenerHolder.java
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jar/org/springframework/jndi/JndiObjectTargetSource.java
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jar/org/springframework/context/event/EventPublicationInterceptor.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/AccessControlException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessControlException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/validation/HTMLValidationRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/EnterpriseSecurityException.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLoggerFactory.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/FileBasedAuthenticator.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java
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 * @created 2017
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 * @author Jeff Williams (jeff.williams @ aspectsecurity.com) <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/AbstractCharacterCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/AbstractIntegerCodec.java

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Found in path(s):
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  jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridgeImpl.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/logging/cleaning/NewlineLogScrubber.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/Encryptor.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
 * <b>NOTE:</b> This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class {code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 *
 * @param keyDerivationKey  A key used as an input to a key derivation function
 * to derive other keys. This is the key that generally
 * is created using some key generation mechanism such as
 * {code CryptoHelper#generateSecretKey(String, int)}. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* @param keySize The cipher's key size (in bits) for the [@code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* <b>Note:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
* [@code JavaEncryptor], this <i>must</i> be either the string "encryption" or
* "authentication", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authentication" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [@code null] or an empty string when called outside
* of [@code JavaEncryptor].
* @return The derived [@code SecretKey] to be used according
* to the specified purpose.
* @throws NoSuchAlgorithmException The [@code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
*/

Found in path(s):
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// version.

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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
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/**
* An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
* in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
* either specially logging the event, logging out the current user, or invalidating the current user's account.
* <p>
* Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
* anywhere and will not require a lot of special exception handling.
* 
* @author Jeff Williams (jeff.williams@aspectsecurity.com)
*/

Found in path(s):
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* @author Mike Fauzy <a href="http://www_aspectsecurity.com">Aspect Security</a>
* @author Jeff Williams <a href="http://www_aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* Return a [ @code List ] of strings of combined cipher modes that support
* <b:both</b> confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of
* the [ @code CipherText ] object upon encryption nor is any attempt made
* to verify the same on decryption.
* </p><p>
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
  * { @code Encryptor.cipher_modes.combined_modes }.

* @return The parsed list of comma-separated cipher modes if the property
  * was specified in { @code ESAPI.properties }; otherwise the empty list is
  * returned.

*/

Found in path(s):
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 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
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/**
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each
 * executable must be listed as an approved executable in the ESAPI properties. The executable must also
 * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
 * you are going to invoke this interface with confidential information.
 */

/**
 * This methods adds a provider to the { @code SecurityManager}
 * either by some generic name or by the class name.
 * 
 * The following generic JCE provider names are built-in:
 * 
 * SunJCE
 * IBMJCE [for WebSphere]
 * GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]
 * BC [i.e., Bouncy Castle]
 * IA1K
 * CryptixCrypto (or Cryptix)
 * ABA
 */
Note that neither Cryptix or ABA are actively maintained so it is recommended that you do not start using them for ESAPI unless your application already has a dependency on them. Furthermore, the Cryptix JCE jars likely will not work as the Cryptix code signing certificate has expired as of August 28, 2009. (This likely is true for ABA, but I can't even find a copy to download!). Lastly, the IAIK provider is no longer offered as free, open source. It is not a commercial product. See [@link "http://jce.iaik.tugraz.at/"] for details. While some older versions were offered free, it is not clear whether the accompanying license still allows you to use it, and if it does, whether or not the code signing certificate used to sign their JCE jar(s) has expired are not. Therefore, if you are looking for a FOSS alternative to SunJCE, Bouncy Castle ([@link "http://www.bouncycastle.org"] is probably your best bet. The BC provider does support many the "combined cipher modes" that provide both confidentiality and authenticity. (See the [@code ESAPI.properties] property [@code Encryptor.cipher_modes.combined_modes] for details.)

For those working in the U.S. federal government, it should be noted that all of the providers listed here are considered validated by NIST's Cryptographic Module Validation Program and are therefore considered FIPS 140-2 compliant. There are a few approved JCE compatible Java libraries that are on NIST's CMVP list, but this list changes constantly so they are not listed here. For further details on NIST's CMVP, see [@link "http://csrc.nist.gov/groups/STM/cmvp/index.html"].

Finally, if you wish to use some other JCE provider not recognized above, you must specify the provider's fully-qualified class name (which in turn must have a public, no argument constructor).

The application must be given the [@code SecurityPermission] with a value of [@code insertProvider.&lt;provider_name&gt;] (where [@code provider_name] is the name of the algorithm provider if a security manager is installed).

* @param algProvider Name of the JCE algorithm provider. If the name contains a ".", this is interpreted as the name of a [@code java.security.Provider] class name.
* @param pos The preference position (starting at 1) that the caller would like for this provider. If you wish for it to be installed as the last provider (as of the time of this call), set [@code pos] to -1.
* @return The actual preference position at which the provider was added, or -1 if the provider was not added because it is already installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the @code SecurityManager} or
* any other reason for failure.
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
* ja/org/owasp/esapi/crypto/SecurityProviderLoader.java
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 * @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/ESAPI.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Logger.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
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*/

// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a “preferred” cipher mode--i.e., one that supports *both* confidentiality and
Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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 * @author Chris Schmidt (chris.schmidt@owasp.org)
 * @created 2010
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
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* @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
* @created 2009
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/util/DefaultMessageUtil.java

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 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/Action.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/MustMatchRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/DefaultAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/EnforceHTTPSRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/InterceptingPrintWriter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
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 * 
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 * */

/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 * 
 * @param executable
 *    the command to execute
 * @param params
 *    the parameters of the command being executed
 * @param workdir
 *    the working directory
 * @param codec
 *    the codec to use to encode for the particular OS in use
* @param logParams
* use false if any parameters contains sensitive or confidential information
*
* @return the output of the command being run
*
* @throws ExecutorException
* the service exception
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Executor.java
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/**
* Encodes and decodes to and from Base64 notation.</p>
* Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* (based on version 2.2.2).</p>
* 
* The <tt>options</tt> parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds
* (though that breaks strict Base64 compatibility), and encoding using the URL-safe
* and Ordered dialects.</p>
* 
* The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>
* 
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
* </code>
* 
* to compress the data before encoding it and then making the output have no newline characters.</p>
* 
* 
* Original change Log:
* </p>
* 
* <ul>
* <li>v2.2.2 - Fixed encodeFileToTofile and decodeFileToTofile to use the
* Base64.InputStream class to encode and decode on the fly which uses
* less memory than encoding/decoding an entire file into memory before writing.</li>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~< 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </li>
* <li>The default is RFC3548 format.</li>
* </ul>
<ol>
<li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfcs/rfc3548.html</li>
<li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcq-1940.html</li>
</ol>


<li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>
<li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
<li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
<li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that’s being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You’ll probably have to change some method calls that you were making to support the new options format (&lt;tt&gt;int&lt;/tt&gt;s that you “OR” together).</li>
<li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using &lt;tt&gt;decode( String s, boolean gzipCompressed )&lt;/tt&gt;.

Add the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).</li>
<li>v1.5 - Output stream pases on flush() command but doesn’t do anything itself. This helps when using GZip streams.

Added the ability to GZip-compress objects before encoding them.</li>
<li>v1.4 - Added helper methods to read/write files.</li>
<li>v1.3.6 - Fixed OutputStream.flush() so that ‘position’ is reset.</li>
<li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.</li>
<li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
<li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
</ul>

I am placing this code in the Public Domain. Do with it as you will.

This software comes with no guarantees or warranties but with plenty of well-wishing instead!

Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.

* @author Robert Harder
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/CSSCodec.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey } for either
 * encryption / decryption or for authentication.
 * 
 * @param keyDerivationKey  A key used as an input to a key derivation function
 * to derive other keys. This is the key that generally
The derived key will have the same algorithm type as this key.

@param keySize The cipher's key size (in bits) for the keyDerivationKey.

Must have a minimum size of 56 bits and be an integral multiple of 8-bits.

@throws NoSuchAlgorithmException The keyDerivationKey has an unsupported encryption algorithm or no current JCE provider supports "HmacSHA1".

@throws EncryptionException If "UTF-8" is not supported as an encoding, then this is thrown with the original UnsupportedEncodingException as the cause. (NOTE: This should never happen as "UTF-8" is supposed to be a common encoding supported by all Java implementations. Support for it is usually in rt.jar.)

@throws InvalidKeyException Likely indicates a coding error. Should not happen.

@throws EncryptionException Throw for some precondition violations.

@deprecated Use KeyDerivationFunction instead. This method will be removed as of ESAPI release 2.3 so if you are using this, please change your code.

/**
 * Return true if specified cipher mode is one of those specified in the
 * ESAPI.properties file that supports both confidentiality and authenticity (i.e., a "combined cipher mode" as NIST refers to it).
 * @param cipherMode The specified cipher mode to be used for the encryption or decryption operation.
 * @return true if the specified cipher mode is in the comma-separated list of cipher modes supporting both confidentiality and authenticity; otherwise false.
 * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
 */

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* @created 2017
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* @created 2008
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 *
 * @created 2010
 */
// Because attribute values may be confidential, we don't want to log them!

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/PushbackSequence.java

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Version 3, 29 June 2007

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1.118 findutils 4.6.0+git+20190209 2
1.118.1 Available under license:
It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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was originally written by Mike Rendell, with enhancements by David
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* GNU locate and its associated utilities were originally
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1.119 pflag 1.0.5

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util  

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.126 testify v1.7.0

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1.128 ini 1.48.0

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kropd_rpc.c
slave/kproplog.c
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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:
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suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
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a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
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e) Provide Installation Information, but only if you would otherwise
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GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
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Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
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1.132 google-guava 22.0.0

1.133 libseccomp 2.3.3-4

1.133.1 Available under license :

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Version 2.1, February 1999

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A "library" means a collection of software functions and/or data
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
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writing it). Whether that is true depends on what the Library does
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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(e.x),t=t.redMul(this.x.redSub(e));this.redSub(this.y);return this.curve.point(e,t)};s.prototype.dbl=function(t){if(this.inf)return this;var e=this.y.redAdd(t);if(0==e.cmpn(0))return this.curve.point(null,null);var t=this.curve.a,i=1;this.redSqr(),e=1.redInvm(),t=1.redAdd(i).redAdd(i).redAdd(t).redMul(e),e=t.redSqr().redSub(this.x.redAdd(t).redSub(e));this.redSub(t,y);return this.curve.point(e,t)},s.prototype.eq=function(e){return this===e||this.inf===e.inf&&(this.inf||0===this.x.cmp(e.x)&&0===this.y.cmp(e.y));},s.prototype.neg=function(e){if(this.inf)return this;var t,i=1;this.curve.point(this.x,this.y.redNeg());return e&&this.precomputed&&(t=this.precomputed,e=function(e){return e.neg()},i.precomputed={naf:t.naf&&{wnd:t.naf.wnd,points:t.naf.points.map(e)},doubles:t.doubles&&{step:t.double,steps:t.doubles.points.map(e)})},s.prototype.toJ=function(){return this.inf?this.curve.jpoint(null,null):this.curve.jpoint(this.x,this.y,this.curve.one)};f(c,d.BasePoint),a.prototype.jpoin...
Open Source Used In MSX Enterprise Access Service Pack 4.0.0 1127
function(e,t,i){i.negative=t.negative^e.negative;var r=0,f=6710863&(o=(0|e.words[0]|0|t.words[0]));var a=d>>24,s=6710863&d,c=Math.min(n,t.length-1),h=Math.max(0,n-e.length+1);h=c;b++)^{a=e.words[u]*t.words[h]|s/6710864|0,s=6710863&d}return 0!=d;i.words[n]=0;i.i.length--}

m.prototype.toString=function(e,t){if(t==0|t||1,16==(e=e||10)||"hex"===e){a="";for(var i=0,r=0,f=0;i<this.length;f++)d=67108864&f&255,a=(0|a)|f+=26;i+=2}return a}
m.prototype.toString=function(e,t){if(e==0|e&&2<=e&&e<=36){a="",s=b[e],c=l[e];for(a="",e=0;e<s.length;e++)d=e,i.SUB(n,e);a=(h=h.modn(c)).toString(e);a=(h=h.idivn(c)).isZero()?a:"0"+a;for(0;i++<a.length;0!=i&&i--)n++}}
null
v(){h.call(this,"k256", "ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff c2")}

function g(){h.call(this,"p224", "ffffffff ffffffff ffffffff ffffffff 00000000 00000000 00000000")}

function y(){h.call(this,"p192", "ffffffff ffffffff ffffffff ffffffff")}

M(){h.call(this,"25519", "7fffffffffffffff ffffffff ffffffff ffffffff")}

function w(e){var t;"string"==typeof e?(t=m._prime(e),this.m=t,p,this.prime=t):p(e.gtn(1),"modulus must be greater than 1"),this.m=e,this.prime=null)

S(e){w.call(this,e),this.shift=this.m.bitLength(),this.shift%=26,i=0&&this.shift+=26-this.shift%26,this.r=new m(1).ishln(this.shift),this.r2=this.imod(this.r.sqr()),this.rinv=this.r._invmp(this.m),this.minv=this.rinv.mul(this.r).isubn(1).div(this.m),this.minv=this.minv.umod(this.m),this.minv=this.r.sub(this.m).subn(this.minv)
}

h.prototype._tmp=function(){var e=new m(null);return e.words=new Array(Math.ceil(this.n/13)),e}

function w(e){var t;i=e.split(i,1),t=(i=(i=this.imulK(i)).addn(this.tmp)).bitLength(),t>this.n;e=t<this.n?-1:i.ucmp(this.p);return 0===e?(i.words[0]=0,i.length=1):0<i.e.isub(this.p);void 0!=is,strip():i._strip(i),h.prototype.split=function(e,t){i=e.imul(this.n,0,0),h.prototype.imulK=function(e){return i.imulK(e)}

w.prototype.imod=function(e){return(this.prime?this.prime.ireduce(e):e.umod(this.m))._forceRed(this)}

w.prototype.neg=function(e){return e.isZero()?e.clone():this.m.sub(e)._forceRed(this)}

w.prototype.add=function(e,t){this._verify2(e,t);t=e.add(t);return 0<=t.cmpn(0)&&t.isubn(this.m),t._forceRed(this)}

w.prototype.iadd=function(e,t){this._verify2(e,t);t=e.iadd(t);return 0<=t.cmpn(0)&&t.isubn(this.m),t}

w.prototype.sub=function(e,t){this._verify2(e,t);t=e.sub(t);return t.cmpn(0)<0&&t.iaddn(this.m),t._forceRed(this)}

w.prototype.isub=function(e,t){this._verify2(e,t);t=e.isub(t);return t.cmpn(0)<0&&t.iaddn(this.m),t}

w.prototype.shl=function(e,t){return this._verify1(e),this.imod(e.ushln(t))}

w.prototype.imul=function(e,t){return this._verify2(e,t),this.imod(e.imul(t))}

w.prototype.mul=function(e,t){return this._verify2(e,t),this.imod(e.mul(t))}

w.prototype.isqr=function(e){return this.imul(e,e.clone())}

w.prototype.sqr=function(e){return this.mul(e,e)}

w.prototype.sqrt=function(e){if(e.isZero())return e.clone();var t=0;"string"==typeof t?(t=t.imulK(t)).addn(this.tmp),t.imulK(t)

c},w.prototype.invm=function(e){e=e._invmp(this.m);return
0!==e.negative?(e.negative=0,this.imod(e).redNeg()):this.imod(e)},w.prototype.pow=function(e,t){if(t.isZero())retu
rn new m(1).toRed(this);if(0===t.cmpn(1))return e.clone();var i=new Array(16);i[0]=new
m(1).toRed(this),i[1]=e;for(var r=2;r<i.length;r++)i[r]=this.mul(i[r-1],e);var
f=i[0],d=0,n=0,a=t.bitLength()%26;for(0===a&&(a=26),r=t.length-1;0<=r;r--){for(var s=t.words[r],c=a-1;0<=c;c-){var
h=s>>c&1;f!==i[0]&&(f=this.sqr(f)),0!=h||0!==d?(d<<=1,d|=h,(4===++n||0===r&&0===c)&&(f=this.mul(f,i[d]),d
=n=0)):n=0}a=26}return f},w.prototype.convertTo=function(e){var t=e.umod(this.m);return
t===e?t.clone():t},w.prototype.convertFrom=function(e){e=e.clone();return
e.red=null,e},m.mont=function(e){return new S(e)},i(S,w),S.prototype.convertTo=function(e){return
this.imod(e.ushln(this.shift))},S.prototype.convertFrom=function(e){e=this.imod(e.mul(this.rinv));return
e.red=null,e},S.prototype.imul=function(e,t){if(e.isZero()||t.isZero())return
e.words[0]=0,e.length=1,e;e=e.imul(t),t=e.maskn(this.shift).mul(this.minv).imaskn(this.shift).mul(this.m),e=e.isub(t
).iushrn(this.shift),t=e;return
0<=e.cmp(this.m)?t=e.isub(this.m):e.cmpn(0)<0&&(t=e.iadd(this.m)),t._forceRed(this)},S.prototype.mul=function(
e,t){if(e.isZero()||t.isZero())return new
m(0)._forceRed(this);e=e.mul(t),t=e.maskn(this.shift).mul(this.minv).imaskn(this.shift).mul(this.m),e=e.isub(t).iushr
n(this.shift),t=e;return
0<=e.cmp(this.m)?t=e.isub(this.m):e.cmpn(0)<0&&(t=e.iadd(this.m)),t._forceRed(this)},S.prototype.invm=function
(e){return this.imod(e._invmp(this.m).mul(this.r2))._forceRed(this)}}(void
0===e||e,this)},{buffer:18}],17:[function(e,t,i){var r;function
f(e){this.rand=e}if(t.exports=function(e){return(r=r||new
f(null)).generate(e)},(t.exports.Rand=f).prototype.generate=function(e){return
this._rand(e)},f.prototype._rand=function(e){if(this.rand.getBytes)return this.rand.getBytes(e);for(var t=new
Uint8Array(e),i=0;i<t.length;i++)t[i]=this.rand.getByte();return t},"object"==typeof
self)self.crypto&&self.crypto.getRandomValues?f.prototype._rand=function(e){e=new Uint8Array(e);return
self.crypto.getRandomValues(e),e}:self.msCrypto&&self.msCrypto.getRandomValues?f.prototype._rand=function(
e){e=new Uint8Array(e);return self.msCrypto.getRandomValues(e),e}:"object"==typeof
window&&(f.prototype._rand=function(){throw new Error("Not implemented yet")});else try{var
d=e("crypto");if("function"!=typeof d.randomBytes)throw new Error("Not
supported");f.prototype._rand=function(e){return
d.randomBytes(e)}}catch(e){}},{crypto:18}],18:[function(e,t,i){},{}],19:[function(e,t,i){i.utils=e("./hash/utils"),i.co
mmon=e("./hash/common"),i.sha=e("./hash/sha"),i.ripemd=e("./hash/ripemd"),i.hmac=e("./hash/hmac"),i.sha1=i.sha
.sha1,i.sha256=i.sha.sha256,i.sha224=i.sha.sha224,i.sha384=i.sha.sha384,i.sha512=i.sha.sha512,i.ripemd160=i.ripe
md.ripemd160},{"./hash/common":20,"./hash/hmac":21,"./hash/ripemd":22,"./hash/sha":23,"./hash/utils":30}],20:[fu
nction(e,t,i){"use strict";var r=e("./utils"),f=e("minimalistic-assert");function
d(){this.pending=null,this.pendingTotal=0,this.blockSize=this.constructor.blockSize,this.outSize=this.constructor.o
utSize,this.hmacStrength=this.constructor.hmacStrength,this.padLength=this.constructor.padLength/8,this.endian="
big",this._delta8=this.blockSize/8,this._delta32=this.blockSize/32}(i.BlockHash=d).prototype.update=function(e,t){
if(e=r.toArray(e,t),this.pending?this.pending=this.pending.concat(e):this.pending=e,this.pendingTotal+=e.length,this
.pending.length>=this._delta8){t=(e=this.pending).length%this._delta8;this.pending=e.slice(e.lengtht,e.length),0===this.pending.length&&(this.pending=null),e=r.join32(e,0,e.length-t,this.endian);for(var
i=0;i<e.length;i+=this._delta32)this._update(e,i,i+this._delta32)}return this},d.prototype.digest=function(e){return
this.update(this._pad()),f(null===this.pending),this._digest(e)},d.prototype._pad=function(){var
e=this.pendingTotal,t=this._delta8,i=t-(e+this.padLength)%t,r=new Array(i+this.padLength);r[0]=128;for(var
f=1;f<i;f++)r[f]=0;if(e<<=3,"big"===this.endian){for(var
d=8;d<this.padLength;d++)r[f++]=0;r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=e>>>24&255,r[f++]=e>>>16&25
5,r[f++]=e>>>8&255,r[f++]=255&e}else

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for(r[f++]=255&e,r[f++]=e>>>8&255,r[f++]=e>>>16&255,r[f++]=e>>>24&255,r[f++]=0,r[f++]=0,r[f++]=0,r[f++
]=0,d=8;d<this.padLength;d++)r[f++]=0;return r}},{"./utils":30,"minimalistic-assert":33}],21:[function(e,t,i){"use
strict";var r=e("./utils"),f=e("minimalistic-assert");function d(e,t,i){if(!(this instanceof d))return new
d(e,t,i);this.Hash=e,this.blockSize=e.blockSize/8,this.outSize=e.outSize/8,this.inner=null,this.outer=null,this._init(r.t
oArray(t,i))}(t.exports=d).prototype._init=function(e){e.length>this.blockSize&&(e=(new
this.Hash).update(e).digest()),f(e.length<=this.blockSize);for(var
t=e.length;t<this.blockSize;t++)e.push(0);for(t=0;t<e.length;t++)e[t]^=54;for(this.inner=(new
this.Hash).update(e),t=0;t<e.length;t++)e[t]^=106;this.outer=(new
this.Hash).update(e)},d.prototype.update=function(e,t){return
this.inner.update(e,t),this},d.prototype.digest=function(e){return
this.outer.update(this.inner.digest()),this.outer.digest(e)}},{"./utils":30,"minimalisticassert":33}],22:[function(e,t,i){"use strict";var
r=e("./utils"),e=e("./common"),p=r.rotl32,m=r.sum32,v=r.sum32_3,g=r.sum32_4,f=e.BlockHash;function
d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.endian="little"}function
y(e,t,i,r){return
e<=15?t^i^r:e<=31?t&i|~t&r:e<=47?(t|~i)^r:e<=63?t&r|i&~r:t^(i|~r)}r.inherits(d,f),(i.ripemd160=d).blockSize=512,
d.outSize=160,d.hmacStrength=192,d.padLength=64,d.prototype._update=function(e,t){for(var
i,r=h=this.h[0],f=l=this.h[1],d=b=this.h[2],n=u=this.h[3],a=o=this.h[4],s=0;s<80;s++)var
c=m(p(g(h,y(s,l,b,u),e[M[s]+t],(i=s)<=15?0:i<=31?1518500249:i<=47?1859775393:i<=63?2400959708:284085383
8),S[s]),o),h=o,o=u,u=p(b,10),b=l,l=c,c=m(p(g(r,y(79s,f,d,n),e[w[s]+t],(i=s)<=15?1352829926:i<=31?1548603684:i<=47?1836072691:i<=63?2053994217:0),_[s]),a),r=a
,a=n,n=p(d,10),d=f,f=c;c=v(this.h[1],b,n),this.h[1]=v(this.h[2],u,a),this.h[2]=v(this.h[3],o,r),this.h[3]=v(this.h[4],h,f)
,this.h[4]=v(this.h[0],l,d),this.h[0]=c},d.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"little"):r.
split32(this.h,"little")};var
M=[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,7,4,13,1,10,6,15,3,12,0,9,5,2,14,11,8,3,10,14,4,9,15,8,1,2,7,0,6,13,11,5,12,
1,9,11,10,0,8,12,4,13,3,7,15,14,5,6,2,4,0,5,9,7,12,2,10,14,1,3,8,11,6,15,13],w=[5,14,7,0,9,2,11,4,13,6,15,8,1,10,3,12
,6,11,3,7,0,13,5,10,14,15,8,12,4,9,1,2,15,5,1,3,7,14,6,9,11,8,12,2,10,0,4,13,8,6,4,1,3,11,15,0,5,12,2,13,9,7,10,14,12,
15,10,4,1,5,8,7,6,2,13,14,0,3,9,11],S=[11,14,15,12,5,8,7,9,11,13,14,15,6,7,9,8,7,6,8,13,11,9,7,15,7,12,15,9,11,7,13,1
2,11,13,6,7,14,9,13,15,14,8,13,6,5,12,7,5,11,12,14,15,14,15,9,8,9,14,5,6,8,6,5,12,9,15,5,11,6,8,13,12,5,12,13,14,11,
8,5,6],_=[8,9,9,11,13,15,15,5,7,7,8,11,14,14,12,6,9,13,15,7,12,8,9,11,7,7,12,7,6,15,13,11,9,7,15,11,8,6,6,14,12,13,5,
14,13,13,7,5,15,5,8,11,14,14,6,14,6,9,12,9,12,5,15,8,8,5,12,9,12,5,14,6,8,13,6,5,15,13,11,11]},{"./common":20,"./ut
ils":30}],23:[function(e,t,i){"use
strict";i.sha1=e("./sha/1"),i.sha224=e("./sha/224"),i.sha256=e("./sha/256"),i.sha384=e("./sha/384"),i.sha512=e("./sha
/512")},{"./sha/1":24,"./sha/224":25,"./sha/256":26,"./sha/384":27,"./sha/512":28}],24:[function(e,t,i){"use
strict";var
r=e("../utils"),f=e("../common"),e=e("./common"),h=r.rotl32,o=r.sum32,u=r.sum32_5,b=e.ft_1,d=f.BlockHash,l=[15
18500249,1859775393,2400959708,3395469782];function n(){if(!(this instanceof n))return new
n;d.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.W=new
Array(80)}r.inherits(n,d),(t.exports=n).blockSize=512,n.outSize=160,n.hmacStrength=80,n.padLength=64,n.prototy
pe._update=function(e,t){for(var i=this.W,r=0;r<16;r++)i[r]=e[t+r];for(;r<i.length;r++)i[r]=h(i[r-3]^i[r-8]^i[r14]^i[r-16],1);for(var f=this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],r=0;r<i.length;r++)var
c=~~(r/20),c=u(h(f,5),b(c,d,n,a),s,i[r],l[c]),s=a,a=n,n=h(d,30),d=f,f=c;this.h[0]=o(this.h[0],f),this.h[1]=o(this.h[1],d),
this.h[2]=o(this.h[2],n),this.h[3]=o(this.h[3],a),this.h[4]=o(this.h[4],s)},n.prototype._digest=function(e){return"hex"
===e?r.toHex32(this.h,"big"):r.split32(this.h,"big")}},{"../common":20,"../utils":30,"./common":29}],25:[function(e
,t,i){"use strict";var r=e("../utils"),f=e("./256");function d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[3238371032,914150663,812702999,4144912697,4290775857,1750603025,1694076839,32040
75428]}r.inherits(d,f),(t.exports=d).blockSize=512,d.outSize=224,d.hmacStrength=192,d.padLength=64,d.prototype

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8,365543100,1126600580,2618297676,1288033470,4243509866,1607176915,987167468
,1816402316,1246189591;function a(){if(!(this instanceof a))return new
a;d.call(this),this.h=[1779033703,4089235720,3144134277,2227873595,1013904242,4271175723,2773480762,159
570129,1359893119,2917565137,2600822924,725511199,528734635,4215389547,1541459225,327033209],this.k
=0,this.W=new
Array(160)}r.inherits(a,d),(t.exports=a).blockSize=1024,a.outSize=512,a.hmacStrength=192,a.padLength=128,a.pro
totype._prepareBlock=function(e,t){for(var i=0;i<32;i++)this.W[i]=e[t+i];for(;i<this.W.length;i+=2){var
f=function(e,t){var i=j(e,t,19),r=j(t,e,29),e=j(e,t,6),e=i^r^e;e<0&&(e+=4294967296);return e}(i[t-4],i[t-
3]),d=function(e,t){var i=N(e,t,19),r=N(t,e,29),e=N(t,e,7),e=i^r^e^t;e<0&&(e+=4294967296);return e}(i[t-4],i[t-
3]),n=0,a=1,s=0;for(var i=0;i<16;i++)this.h[i]=this.W[i],this.h[16]=this.W[16],this.h[17]=this.W[32],
this.h[18]=this.W[64],this.h[19]=this.W[96],this.h[20]=this.W[128];for(var i=0;i<160;i++)this.K[i]=i+1
this.W[i];var M,w,g,S=function(e,t){var i=j(e,t,14),r=j(e,t,18),e=j(t,e,9),e=i^r^e;e<0&&(e+=4294967296);
return e}(0),_=function(e,t){var i=N(e,t,14),r=N(e,t,18),e=N(t,e,9),e=i^r^e;e<0&&(e+=4294967296);return e}(0),A=function(e,t,i){i=e&t^e&i^t&t&i;i<0&&
i+=4294967296);return i}(0),x=function(e,t,i){i=e&t^e&i^t&t&i;i<0&&(i+=4294967296);return i}(0),I=this.K[0],z=this.K[1],q=this.K[2],R=this.K[3],k=O(M,w,S,_,A,x,I,z,q,R),q=F(M,w,S,_,A,x,I,z,q,R),M=functio
n(e,t){var i=j(e,t,28),r=j(t,e,2),e=j(t,e,7),e=i^r^e;e<0&&(e+=4294967296);return e}(r),w=function(e,t){var i=N(e,t,28),r=N(t,e,2),e=N(t,e,7),e=i^r^e;e<0&&(e+=4294967296);return e}(r),S=function(e,t,i){i=e&t^e&i^t&t&i;i<0&&(i+=4294967296);return i}(r),_=L(M,w,S,_,i);i.ft_1=function(e,t,i,r){return 0===e?f(t,i,r):1===e||3===e?t^i^r:2===e?d(t,i,r):void
0},i.ch32=f,i.maj32=d,i.p32=n,i.s0_256=function(e){return r(e,2)^r(e,13)^r(e,22)},i.s1_256=function(e){return
r(e,6)^r(e,11)^r(e,25)},i.g0_256=function(e){return r(e,7)^r(e,18)^e>>>3},i.g1_256=function(e){return r(e,17)^r(e,19)^e>>>10},


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Found in path(s):
* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1.tar.gz

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* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1.tar.gz

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 *
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 * based on Ed25519.
 *
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1.136 hibernate-c3p0 4.2.16.Final

1.137 xmlsec-java 2.1.5

1.137.1 Available under license:

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1.143 xz 5.2.4 1

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1.144 cglib 3.0

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1.145 netty-transport 4.1.17.Final

1.146 setimmediate 1.0.5

1.146.1 Available under license :

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1.147 watermill-kafka 2.2.0

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1.148 x-net v0.0.0-20210410081132-afb366fc7cd1

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1.149 bcprov-jdk15on 1.52

1.150 angular-messages 1.8.2

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1.151 icu 4.2.1-14.el6

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcreg)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcreg)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcreg)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcreg)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcreg)/%.c
@@echo "generating dependency information for $<"
@@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\($*\)/.o [$F]/g" > $@; \
[ -s $@ ] || rm -f $@'@@

%.d: $(srcdir)/%.cpp
@@echo "generating dependency information for $<"
@@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\($*\)/.o [$F]/g" > $@; \
[ -s $@ ] || rm -f $@'@@

## Versioned libraries rules

%.$SO.$(SO_TARGET_VERSION_MAJOR): %.$SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$SO: %.$SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {<F}.$SO.$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.152 stax 3.1.4

1.153 netty-transport 4.1.17

1.154 antlr-runtime 4.5.1

1.155 commons-pool 2.8.0

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1.156 websocket-client 9.4.29.v20200521

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
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* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.170 gremlin-shaded 3.4.10

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1.191 jetty-webapp 9.4.29.v20200521

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.192 ca-certificates-java 20190405

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1.194 plexus-classworlds 1.1

1.194.1 Available under license :
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/*
$Id: Entry.java 89 2004-07-18 00:40:00Z dandiep $

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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-
jar/org/codehaus/classworlds/Entry.java
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/*
$Id: JarUrlConnection.java 78 2004-07-01 13:59:13Z jvanzyl $

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Found in path(s):
* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-jar/org/codehaus/classworlds/uberjar/protocol/jar/JarUrlConnection.java
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/*$Id: NoSuchRealmException.java 78 2004-07-01 13:59:13Z jvanzy1$*/

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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-jar/org/codehaus/classworlds/NoSuchRealmException.java
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/*
 $Id: RealmClassLoader.java 114 2005-07-03 15:21:02Z jvanzyl $

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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-jar/org/codehaus/classworlds/RealmClassLoader.java
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/*$
$Id: DuplicateRealmException.java 78 2004-07-01 13:59:13Z jvanzyl$

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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-jar/org/codehaus/classworlds/DuplicateRealmException.java
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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-
   jar/org/codehaus/classworlds/uberjar/protocol/jar/Handler.java
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/*
$Id: UberJarRealmClassLoader.java 112 2004-11-03 17:37:23Z mhw $

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/*
$Id: DefaultClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl $

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$Id: ConfigurationException.java 78 2004-07-01 13:59:13Z jvanzyl $

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/*
$Id: Configurator.java 108 2004-11-02 18:41:08Z mhw $

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$Id: EmbeddedLauncher.java 78 2004-07-01 13:59:13Z jvanzyl $

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* /opt/colla/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-
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$Id: Launcher.java 108 2004-11-02 18:41:08Z mhw $

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$Id: ClassWorld.java 78 2004-07-01 13:59:13Z jvanzyl $

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$Id: InitialClassLoader.java 78 2004-07-01 13:59:13Z jvanzyl $

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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-jar/org/codehaus/classworlds/uberjar/boot/InitialClassLoader.java
No license file was found, but licenses were detected in source scan.

/*
$Id: Bootstrapper.java 78 2004-07-01 13:59:13Z jvanzy1 $

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/*
$Id: ClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl $

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* /opt/cola/permits/1112618706_1607121854.0/0/classworlds-1-1-sources-3-jar/org/codehaus/classworlds/ClassRealm.java

1.195 libxext 1.3.3-1+b2
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*/opt/cola/permits/1135864176_1613618002.1/0/jul-to-slf4j-1-7-30-sources-1-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.197 x-time-rate v0.0.0-20190308202827-9d24e82272b4

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1.198 klauspost-compress v1.9.8

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1.199 kryo-shaded 3.0.3

1.200 inf v0.9.1
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1.202 commons-io 1.3.2
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1.203 buffer-xor 1.0.3

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.205 objenesis 2.1

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1.207 commons-lang3 3.4

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1.208 netty-codec-http 4.1.17

1.209 netty-buffer 4.1.17

1.210 j2objc-annotations 1.3

1.211 angular-common 9.0.7

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1.212 go-restful 2.14.3+incompatible

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1.213 jackson-databind 2.9.10.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.214 netty-resolver 4.1.8 Final

1.215 sarama 1.26.1

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1.216 netty-buffer 4.1.8 Final

1.217 libpng 1.6.36 6
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Last revised by Reagle $Date: 2004-04-06 13:20:26 -0400 (Tue, 06 Apr 2004) $
Before building Xerces, you need the source package and tools package available from the Apache XML Project's distribution web page:

http://xml.apache.org/dist/xerces-j/

Download both the Xerces-J-src.X.Y.Z.zip and Xerces-J-tools.X.Y.Z.zip files for the appropriate Xerces release (where "X.Y.Z" is the version number) and extract them in the same directory. If you are using Unix, download the equivalent .tar.gz files instead of the .zip files.

You also need to have a Java Development Kit (JDK) version 1.2 (or higher) installed on your system. Before initiating any part of the build, set the JAVA_HOME environment variable to the installation directory of your JDK.

The Ant program is used to build everything in Xerces, including the documentation. This tool, and the others needed (besides the pre-requisite JDK) are contained within the tools package. To make building the packages easier, a Windows batch file and a Unix shell script are included.

If you only want to compile the source code and make the JAR files, run the following command on Windows:

    build.bat jars

or from Unix (make sure that build.sh is executable):

    build.sh jars

This will compile all of the source code and generate the JAR files that are available as part of the binary package. After building, these files will be located in the build/ directory.

If you want to build everything, including the documentation, run the build batch file (or shell script) specifying the "all" target instead of "jars".

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1.222 readline 8.0.4

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1.223 esri-geometry-api 1.2.1

1.223.1 Available under license:
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fork: retry: Resource temporarily unavailable
fork: retry: Resource temporarily unavailable
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Found in path(s):
* /opt/project/specialist_tools/cosi-license-scan
No license file was found, but licenses were detected in source scan.

cannot fork: Resource temporarily unavailable

Found in path(s):
* xargs

1.224 servo-core 0.12.21

1.225 regexp 2.7.2

1.226 openssl 1.1.1d-0+deb10u4

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1.233 msx-dgrid 0.0.8

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```

1.244 is-obj 1.0.1

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.247 zstd-jni 1.4.4-7

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1.248 spring-cloud-stream-binder-kafka-core 3.0.6.RELEASE

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* /opt/cola/permits/1142745174_1615475703.51/0/spring-cloud-stream-binder-kafka-core-3-0-6-release-sources-jar/org/springframework/cloud/stream/binder/kafka/utils/DlqPartitionFunction.java

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* /opt/cola/permits/1142745174_1615475703.51/0/spring-cloud-stream-binder-kafka-core-3-0-6-release-sources-
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  jar/org/springframework/cloud/stream/binder/kafka/properties/KafkaExtendedBindingProperties.java
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  jar/org/springframework/cloud/stream/binder/kafka/properties/KafkaProducerProperties.java
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  jar/org/springframework/cloud/stream/binder/kafka/properties/JaasLoginModuleConfiguration.java

1.249 spring-instrument 4.3.19

1.250 metrics 3.1.1

1.251 shurcool-httpfs v0.0.0-20190707220628-8d4bc4ba7749

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1.253 jackson-dataformat-smile 2.7.9

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### 1.254 jackson 1.9.12

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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
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jar/net/logstash/logback/encoder/LogstashEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/accessevent/RemoteUserJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/LoggingEventNestedJsonProvider.java
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jar/net/logstash/logback/mask/FieldNameBasedFieldMasker.java
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jar/net/logstash/logback/composite/accessevent/ContentLengthJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/decorate/FeatureDecorator.java

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1.258 error_prone_annotations 2.1.2

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* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/FormatMethod.java
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* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/DoNotMock.java
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* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1112618773_1607121866.98/0/error-prone-annotations-2-1-2-sources-3-jar/com/google/errorprone/annotations/CompileTimeConstant.java
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1.259 angular-cdk 9.0.1
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1.261 spring-binding 2.5.1

1.262 purell v1.1.1

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/vote/AuthenticatedVoter.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/AuthorizationServiceException.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/intercept/RunAsUserToken.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/security/SecurityConfig.java

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*/
/**
 * Determines if the [@link #getAuthentication()] has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * “write”, etc).
 * @return true if permission is granted to the [@link #getAuthentication()], else
 * false
 */

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 */
/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
 * modify the <code>Object</code> or throw an {@link AccessDeniedException}.  
 * <p>
 * Typically used to ensure the principal is permitted to access the domain object
 * instance returned by a service layer bean. Can also be used to mutate the domain object
 * instance so the principal is only able to access authorised bean properties or
 * <code>Collection</code> elements.
 * <p>
 * Special consideration should be given to using an <code>AfterInvocationManager</code>
 * on bean methods that modify a database. Typically an
 * <code>AfterInvocationManager</code> is used with read-only methods, such as
 * <code>public DomainObject getById(id)</code>. If used with methods that modify a
 * database, a transaction manager should be used to ensure any
 * <code>AccessDeniedException</code> will cause a rollback of the changes made by the
 * transaction.
 * <p>
 * @author Ben Alex
 */

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/PasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/EncodingUtils.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/AesBytesKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/StandardPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/Keygen.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/SharedKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/NoOpPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/cryptожно/encrypt/BytesKeyGenerator.java

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
  jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
  jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
  jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
  jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
  jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java

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 */
/**

 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
  jar/org/springframework/security/access/PermissionEvaluator.java

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*/
/**
* A token issued by {@link TokenService}.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/token/Token.java
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*/
/**
* Base64 encoder which is a reduced version of Robert Harder's public domain
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* For internal use only.

* @author Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/codec/Base64.java

1.267 jetty-xml 9.4.29.v20200521

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

As an Assorted artifact

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1.269 robfig-cron v3.0.1

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1.270 cassandra-lucene-index-builder 3.11.3.0

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* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/search/condition/WildcardCondition.java
* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/index/schema/analysis/SnowballAnalyzer.java
* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/search/condition/LuceneCondition.java
* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/JSONBuilder.java
* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/json/Builder.java

1.271 hazelcast-client-protocol 1.4.1

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package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
} else if (ActionConstants.ACTION_ADD.equals(action)) {
    mask |= ADD;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.util.Enumeration;

public class AllPermissionsCollection extends PermissionCollection {

    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {

        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }

    @Override
    public int hashCode() {
        return 111;
    }

    public static final class AllPermissionsCollection extends PermissionCollection {
        private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
        private boolean all;

        public AllPermissionsCollection() {
        }

        public AllPermissionsCollection(boolean all) {
            this.all = all;
        }

        @Override
        public void add(Permission permission) {
            if (permission instanceof AllPermissions) {
                all = true;
            }
        }

        @Override
        public boolean implies(Permission permission) {
            return all;
        }

        @Override
        public Enumeration<Permission> elements() {

            return "<all actions>";
        }
    }
}
return new Enumeration<Permission>() {
  boolean more = all;

  @Override
  public boolean hasMoreElements() {
    return more;
  }

  @Override
  public Permission nextElement() {
    more = false;
    return ALL_PERMISSIONS;
  }
};

@override
public int hashCode() {
  return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
  if (this == obj) {
    return true;
  }
  if (obj == null) {
    return false;
  }
  if (getClass() != obj.getClass()) {
    return false;
  }
  AllPermissionsCollection other = (AllPermissionsCollection) obj;
  return all == other.all;
}

@override
public String toString() {
  return "<allow all permissions>";
}
*/
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package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
}
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}

return mask;
}

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package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        }
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_PUT.equals(action)) {
        mask |= PUT;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
}

return mask;
}

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 */

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {
private static final int READ = 4;
private static final int MODIFY = 8;

private static final int ALL = READ | MODIFY | CREATE | DESTROY;

public AtomicReferencePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

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 */
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
import java.security.Permission;
/**
* TODO: Object Permission
*/
public abstract class InstancePermission extends ClusterPermission {
protected static final int NONE = 0;
protected static final int CREATE = 1;
protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);
final StringBuilder s = new StringBuilder();
for (String action : actions) {
s.append(action).append(" ");
}
this.actions = s.toString();
}
/**
* init mask
*/
protected abstract int initMask(String[] actions);
@Override
public boolean implies(Permission permission) {
if (this.getClass() != permission.getClass()) {
return false;
}
InstancePermission that = (InstancePermission) permission;
boolean maskTest = ((this.mask & that.mask) == that.mask);
if (!maskTest) {

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return false;
}

return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}

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*/

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            }
        }
        return mask;
    }

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     */
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
return mask;
}

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*/

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {

            Open Source Used In MSX Enterprise Access Service Pack 4.0.0 1750
mask |= CREATE;
} else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
    mask |= PUBLISH;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
}
}
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*/
package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    }

    if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }

    return mask;
}
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;

}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        perms.add(permission);
    }

    @Override
    public boolean contains(Permission p) {
        return perms.contains(p);
    }

    @Override
    public void clear() {
        perms.clear();
    }

    @Override
    public void addAll(PermissionCollection c) {
        perms.addAll(c.getPermissions());
    }

    @Override
    public PermissionCollection createEnumeration() {
        return new PermissionCollectionAdapter(perms);
if (isReadOnly()) {
    throw new SecurityException("ClusterPermissionCollection is read-only!");
}

boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
                || (permission instanceof ClusterPermission);

if (shouldAdd && !implies(permission)) {
    perms.add(permission);
}

public void add(PermissionCollection permissions) {
if (isReadOnly()) {
    throw new SecurityException("ClusterPermissionCollection is read-only!");
}
if (permissions instanceof ClusterPermissionCollection) {
    for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
        add(p);
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
if (isReadOnly()) {
    throw new SecurityException("ClusterPermissionCollection is read-only!");
}
final Iterator<Permission> iter = perms.iterator();
while (iter.hasNext()) {
    final Permission perm = iter.next();
    boolean implies = false;
    for (Permission p : perms) {
        if (p != perm && p.implies(perm)) {
            implies = true;
            break;
        }
    }
    if (!implies) {
        iter.remove();
    }
}
@@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

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 */

package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";

    private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
            PermissionFactory>();

    static {
        PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new QueuePermission(name, actions);
            }
        });
        PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new QueuePermission(name, actions);
            }
        });
    }
}
@Override
public Permission create(String name, String... actions) {
    return new MapPermission(name, actions);
}
});

PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MultiMapPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ListPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new LockPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

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package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
                mask |= ACQUIRE;
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
                mask |= RELEASE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }

        return mask;
    }
}

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*/
package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

public abstract class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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 */
return mask;
}
}
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*/

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
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*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }
        };
    }

    @Override
    public int hashCode() {
        return 37;
    }

    @Override
    public String toString() {
        return "<deny all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof DenyAllPermissionCollection;
    }
}

/*
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 */
package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override


public boolean implies(Permission permission) {
    return getClass() == permission.getClass();
}

@Override
public String getActions() {
    return "transaction";
}

package com.hazelcast.security.permission;
import java.security.Permission;
import java.security.PermissionCollection;
public abstract class ClusterPermission extends Permission {
    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            final int prime = 31;
            int result = 1;
            return result;
        }
    }
}
if (getName() == null) {
    result = prime * result + 13;
} else {
    result = prime * result + getName().hashCode();
}
hashcode = result;
return hashcode;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
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 */
package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }

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     * limitations under the License.
     */
package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}

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 */
mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
}

return mask;
}

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {

        }
mask |= DESTROY;
}
}
return mask;
}

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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

private static final int ALL = CREATE | DESTROY;

public DurableExecutorServicePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
1.272 metrics-servlets 3.1.0

1.273 spring-integration-kafka 3.2.1.RELEASE

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1.275 aspectj-tools 1.8.5

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1.276 hostname 3.21

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                   "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.

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func initBsdClause3() {  
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
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        Name:        "GNU General Public License 2.0",}
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package cmd

import (  "strings"  "time"
  "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}
func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
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(at your option) any later version.

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        Text: `

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    }
}
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```
package cmd

func initLgpl() {
  Licenses["lgpl"] = License{
    Name:  "GNU Lesser General Public License",
    PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
    Header: `This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU Lesser General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

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`,
  }
}
```
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```go
package cmd

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  Licenses["agpl"] = License{
    Name:            "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
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func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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g763d526-tar-gz/datastax-java-driver-shaded-guava-c44412c/pom.xml

Shaded Guava artifact, for use in the
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1.280 hdrhistogram 2.1.12

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1.281 google-protobuf 3.5.1

1.282 zstd 1.3.8+dfsg-3+deb10u2
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/PemValue.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/PemX509Certificate.java
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  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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  jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
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  jar/io/netty/handler/ssl/SniCompletionEvent.java
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  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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  jar/io/netty/handler/ssl/Conscrypt.java
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  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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1.286 spew v1.1.1
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1.287 good-listener 1.2.2

1.288 sed 4.7 1

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* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1.jar/org/springframework/security/config/annotation/builders/WebSecurity.java
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* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
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1.292 httpcomponents-client 4.4.1

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/opensaml/liberty/impl/Response.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/opensaml/liberty/impl/ResponseImpl.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
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  * /opt/cola/permits/1077482393_1607389215.60/spring-security-saml2-core-1.0-10-release-sources-
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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/processor/SAMLProcessor.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/trust/AllowAllSignatureTrustEngine.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/metadata/MetadataManager.java

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/context/SAMLContextProvider.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/context/SAMLContextProviderImpl.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/trust/X509TrustManager.java
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jar/org/springframework/security/saml/SAMLDiscovery.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
jar/org/springframework/security/saml/metadata/AbstractMetadataDelegate.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
jar/org/springframework/security/saml/metadata/ExtendedMetadataDelegate.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
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 */
/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
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* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io.netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io.netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io.netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io.netty/channel/epoll/IovArray.java
* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io.netty/channel/epoll/package-info.java
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  jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
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* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/202909844_1607363650.02/0/netty-transport-native-epoll-4-1-8-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.321 spring-oxm 4.3.19

1.322 apache-log4j 1.2.15

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1.323 commons-lang3 2.4

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1.324 spring-web 3.2.13

1.325 afero v1.0.5

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1.326 consul-api 1.4.5

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1.328 lz4 1.8.3-1+deb10u1

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1.342 debianutils 4.8.6.1

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1.344 zipkin-sender-kafka 2.15.0
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   Manifest-Version: 1.0
   Created-By: Apache Maven Bundle Plugin
   Build-Jdk-Spec: 13
   Automatic-Module-Name: zipkin2.reporter.kafka
1.345 yaml 2.3.0

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1.347 opentracing-contrib-go-grpc v0.0.0-20180928155321-4b5a12d3ff02
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AppleJavaExtensions
v 1.2

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AppleJavaExtensions
v 1.2


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1.360 angular-platform-browser-dynamic

9.0.7

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$Id$
1.365 zipkin-reporter-metrics-micrometer
2.15.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.metrics.micrometer
Bnd-LastModified: 1589702936955
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Reporter Metrics by Micrometer
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-reporter-metrics-micrometer
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.metrics.micrometer;version="2.15.0";uses="io.micrometer.core.instrument,zipkin2.reporter"
Import-Package: io.micrometer.core.instrument,zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695463_1601875977.59/0/zipkin-reporter-metrics-micrometer-2-15-0-jar/META-INF/MANIFEST.MF

1.366 zipkin-sender-amqp-client 2.15.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.amqp
Bnd-LastModified: 1589702698496
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: RabbitMQ AMQP Client 4.x
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-amqp-client
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.amqp;version="2.15.0";uses:="com.rabbit
mq.client,zipkin2.zipkin2.codec,zipkin2.reporter"
Import-Package: com.rabbitmq.client;version="[4.11,5]",zipkin2;version=" [2.21,3]",zipkin2.codec;version="[2.21,3]",zipkin2.reporter;version="[2
.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

1.367 xpp3-min 1.1.4c
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1.368 crypto-browserify 3.12.0

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1.369 bson 3.0.4

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1.370 go-openapi-spec v0.20.3

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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps:  LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{
        "x-license": "custom term"}}
}

const licenseJSON = `
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
`

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url\n"

    b, err := json.MarshalIndent(license, "", "  ")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import (  
  "encoding/json"
  "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {  
  LicenseProps  
  VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {  
  Name string `json:"name,omitempty"`  
  URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json  
func (l *License) UnmarshalJSON(data []byte) error {  
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {  
    return err  
  }  
  return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json  
func (l License) MarshalJSON() ([]byte, error) {  
  b1, err := json.Marshal(l.LicenseProps)  
  if err != nil {  
    return nil, err  
  }  
  b2, err := json.Marshal(l.VendorExtensible)  
  if err != nil {  
    return nil, err  
  }  
  return swag.ConcatJSON(b1, b2), nil
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1.376 reflectasm 1.11.3

1.377 browserify-aes 1.2.0

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1.378 sortablejs 1.6.0

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1.379 brave-instrumentation-jms 5.12.3

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**1.380 opencensus-contrib-grpc-metrics 0.10.0**

**1.381 strcase 0.0.0-20191112232945-16388991a334**

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**1.382 kryo 2.16**
1.383 go-retryablehttp v0.5.4

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1.384 brave-instrumentation-kafka-streams

5.12.3

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  jar/org/springframework/retry/backoff/FixedBackOffPolicy.java
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  jar/org/springframework/retry/backoff/ExponentialBackOffPolicy.java
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Found in path(s):
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/annotation/RecoverAnnotationRecoveryHandler.java

1.391 util-linux 2.33.1-0.1

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1.394 rx-netty-contexts 0.4.9

1.395 jaeger-client-go v2.19.0+incompatible

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1.396 spring-cloud-sleuth-core

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* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/bench_test.go
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1.398 gocqlx 1.3.1
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1.399 keyutils 1.6-6

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OSGi Service Platform Core Companion Code (6.0)

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1.407 virtual-dom 2.1.1

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/valueextraction/ExtractedValue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/MethodType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/valueextraction/ValueExtractorDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/ConstructorDescriptor.java
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* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/Constraint.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/Valid.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/ValidationException.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/ValidatorFactory.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/metadata/ContainerDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/metadata/ParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/constraints/NotNull.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/constraints/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/GroupSequence.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2.0.2-sources-3.jar/javax/validation/constraints/overridesAttribute.java

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* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/validation/ConstraintValidator.java
* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/validation/executable/ExecutableType.java
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src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/pcfutil.c
src/gzip/pcfutil.h
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/verifier/JWTVerifier.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/keyset/Auth0JWTKeyset.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/verifier/JWTAuthenticationSuccessHandler.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/verifier/JWTAuthenticationEntryPoint.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/data/ClaimName.java
1.430 hmac-drbg 1.0.1

1.431 spring-aop 3.2.9.RELEASE

1.432 netty-buffer 4.1.50.Final

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  jar/io/netty/buffer/PooledDuplicatedByteBuf.java
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jar/io/netty/buffer/PooledSlicedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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  jar/io/netty-buffer/DefaultByteBufHolder.java
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  jar/io/netty/buffer/Unpooled.java
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1.433 springfox-swagger-common 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelProperties.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/Examples.java

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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResourcesProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
1.434 spring-cloud-starter-zipkin
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* /opt/cola/permits/1096695393_1607387849.31/0/spring-cloud-starter-zipkin-2-2-3-release-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-zipkin/pom.xml

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1.437 txw2 2.3.1

1.438 msx-dgrid 0.0.9

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* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/AbstractAopProxyFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java

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jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java

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jar/org/springframework/aop/SpringProxy.java

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* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java

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* /opt/cola/permits/1001433984_1607387076.97/0/opensaml-2-6-6-sources-jar/org/opensaml/saml2/core/impl/ArtifactMarshaller.java
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* /opt/cola/permits/1001433984_1607387076.97/0/opensaml-2-6-6-sources-jar/org/opensaml/saml2/metadata/impl/EntityAttributesImpl.java
* /opt/cola/permits/1001433984_1607387076.97/0/opensaml-2-6-6-sources-jar/org/opensaml/saml1/core/validator/AudienceRestrictionConditionSchemaValidator.java
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* /opt/cola/permits/1001433984_1607387076.97/0/opensaml-2-6-6-sources-jar/org/opensaml/xacml/policy/impl/ActionsTypeMarshaller.java
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 */
/**
 ** Overrides binding confidentiality. */
/**
 * @return confidentiality override flag.
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * @param flag override flag
 */

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1.450 metrics-health-checks 3.1.0

1.451 spring-expression 5.2.7.RELEASE
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1.456 jzlib 1.0.7

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*/

package com.jcraft.jzlib;

final class Adler32{

    // largest prime smaller than 65536
    static final private int BASE=65521;
    // NMAX is the largest n such that 255n(n+1)/2 + (n+1)(BASE-1) <= 2^32-1
    static final private int NMAX=5552;

    long adler32(long adler, byte[] buf, int index, int len){
        if(buf == null){ return 1L; }
        long s1=adler&0xffff;
        long s2=(adler>>16)&0xffff;
        int k;
        while(len > 0) {
            k=len<NMAX?len:NMAX;
            len-=k;
            while(k>16) {
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
            }
            s1+=buf[index++]&0xff; s2+=s1;
        }
        return s1;
    }
}
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1.458 slf4j 1.7.30

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1.459 grpc-protobuf-lite 1.9.0

1.460 spring-vault-core 2.2.0.RELEASE

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1.461 jackson 2.11.0
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1.462 netty-transport 4.1.8 Final

1.463 xalan 2.7.2

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1.465 spring-data-cassandra 3.0.1.RELEASE

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That's all there is to it!

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see [@link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* { [@link Type#getInternalName() getInternalName ]}). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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 */
/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv  
 *    the method visitor to which this adapter delegates calls.
 * @param access
 *    the method's access flags (see [@link Opcodes]).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */
Found in path(s):
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 */
/**
 * Constructs a new [Textifier](http://example.com/textifier). Subclasses must not use this
 * constructor. Instead, they must use the Textifier(int)
 * version.
 *
 * @throws IllegalArgumentException
 * If a subclass calls this constructor.
 */

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 */
/**
 * Constructs a new '{@link ClassNode}'. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the '{@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new [@link LocalVariable AnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
the class descriptor of the annotation class.

*/

Found in path(s):
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/ClassWriter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
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jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LocalVariableNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
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*/
/**
* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
* @param owner
*    the owner's class name.
* @param access
*    the method's access flags (see \@link Opcodes\}).
* @param name
*    the method's name.
* @param desc
*    the method's descriptor (see \@link Type\}).
* @param mv
*    the method visitor to which this adapter delegates calls. May
*    be \$null\$.
* @throws IllegalStateException
*    If a subclass calls this constructor.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-frames.properties
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java

1.469 stax-ex 1.8

1.470 prometheus-procfs v0.0.5

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/ApiSelectorBuilder.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationDeprecatedReader.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationModelsProvider.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/DefaultOperationReader.java

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathMappingDecorator.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/ResponseMessagesReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterDataTypeReader.java
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1.500 tiny-emitter 1.2.0

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1.501 slf4j-log4j 1.7.25

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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/debug/Logger.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/RedirectUrlBuilder.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/rememberme/CookieTheftException.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/preauth/RequestHeaderAuthenticationFilter.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/package-info.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/session/package-info.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/WebAttributes.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/channel/AbstractRetryEntryPoint.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/session/SimpleRedirectInvalidSessionStrategy.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/context/request/async/WebAsyncManagerIntegrationFilter.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
jar/org/springframework/security/web/util/ThrowableCauseExtractor.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/logout/package-info.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/logout/CompositeLogoutHandler.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/session/SessionAuthenticationException.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/expression/WebExpressionConfigAttribute.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/header/writers/frameoptions/RegExpAllowFromStrategy.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/package-info.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/RequestCacheAwareFilter.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/RequestCacheAwareFilter.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/RequestCacheAwareFilter.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.570/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/RequestCacheAwareFilter.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
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1.505 grep 3.3 1
1.505.1 Available under license :
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Version 3, 29 June 2007

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1.506 zipkin-sender-activemq-client 2.15.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.activemq
Bnd-LastModified: 1589702730253
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: ActiveMQ Client 5.15.x
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-activemq-client
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.activemq;version="2.15.0";uses:="org.apache.activemq,zipkin2,zipkin2.codec,zipkin2.reporter"
Import-Package: javax.jms;version="[1.1,2)",org.apache.activemq;version="[5.15,6)".;org.apache.activemq.transport;version="[5.15,6)".;zipkin2;version="[2.21,3)".;zipkin2.codec;version="[2.21,3)".;zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695429_1601878598.88/0/zipkin-sender-activemq-client-2-15-0.jar/META-INF/MANIFEST.MF

1.507 angular-animate 1.8.2

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1.508 @uirouter/angularjs 1.0.29

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1.516 mongodb-driver 3.0.4
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 */

package com.google.gson.internal;

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {
    private Primitives() {
    }

    /**
     * A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

    /**
     * A map from wrapper types to their corresponding primitive types. */
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

    // Sad that we can't use a BiMap. :(  

    static {
        Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
        Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);
    }
}
add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
add(primToWrap, wrapToPrim, byte.class, Byte.class);
add(primToWrap, wrapToPrim, char.class, Character.class);
add(primToWrap, wrapToPrim, double.class, Double.class);
add(primToWrap, wrapToPrim, float.class, Float.class);
add(primToWrap, wrapToPrim, int.class, Integer.class);
add(primToWrap, wrapToPrim, long.class, Long.class);
add(primToWrap, wrapToPrim, short.class, Short.class);
add(primToWrap, wrapToPrim, void.class, Void.class);

PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
forward.put(key, value);
backward.put(value, key);
}

/**
* Returns true if this type is a primitive.
*/
public static boolean isPrimitive(Type type) {
return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
* Returns { @code true} if { @code type} is one of the nine
* primitive-wrapper types, such as { @link Integer}. *
* @see Class#isPrimitive
*/
public static boolean isWrapperType(Type type) {
return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
    $Gson$Preconditions.checkNotNull(type));
}

/**
* Returns the corresponding wrapper type of { @code type} if it is a primitive
* type; otherwise returns { @code type} itself. Idempotent.
* @pre
*  * wrap(int.class) == Integer.class
*  * wrap(Integer.class) == Integer.class
*  * wrap(String.class) == String.class
* @</pre>
*/
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of { @code type } if it is a
 * wrapper type; otherwise returns { @code type } itself. Idempotent.
 * <pre>
 *     unwrap(Integer.class) == int.class
 *     unwrap(int.class) == int.class
 *     unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}

1.523 bouncy-castle 1.60
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1.524 spring-boot 2.3.1.RELEASE

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* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
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* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
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* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/simp/stomp/StompFrameHandler.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
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jar/org/springframework/messaging/simp/stomp/ConnectionLostException.java

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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * [ @link #queueCapacity(int) queueCapacity ] is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [ @link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor ] for
 * more details.
 * <p>By default this is set to [ @code Integer.MAX_VALUE ].
 */

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/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/xml/DocumentLoader.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/xml/HierarchicalBeanFactory.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/xml/NamespaceHandler.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/support/SecurityContextProvider.java
/ /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/annotation/Configurable.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/MethodReplacer.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java

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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/BeanInfoFactory.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java

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  jar/org/springframework/beans/factory/BeanNameAware.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/NullValueInNestedPathException.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/propertyeditors/URLEditor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/propertyeditors/ImplicitlyAppearedSingletonException.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/propertyeditors/FileEditor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/config/Scope.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/NamedBean.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
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  jar/org/springframework/beans/factory/config/SingletonBeanRegistry.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java

1.527 h2 1.3.167

1.528 spring-oxm 5.2.7.RELEASE
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* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/GenericUnmarshaller.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/MarshallingFailureException.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/GenericMarshaller.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/UncategorizedMappingException.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/UnmarshallingFailureException.java
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* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/xstream/CatchAllConverter.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/XmlMappingException.java

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* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-jar/org/springframework/oxm/xstream/CatchAllConverter.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1
jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java

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* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-
  jar/org/springframework/oxm/Marshaller.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-
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  jar/org/springframework/oxm/jibx/JibxMarshaller.java
* /opt/cola/permits/1135880205_1613624209.93/0/spring-oxm-5-2-7-release-sources-1-
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1.529 reflectasm 1.10.1

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jar/com/esotericsoftware/reflectasm/ConstructorAccess.java
* /opt/cola/permits/1145449535_1616181967.19/0/reflectasm-1-10-1-sources-3-
jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java
* /opt/cola/permits/1145449535_1616181967.19/0/reflectasm-1-10-1-sources-3-
jar/com/esotericsoftware/reflectasm/MethodAccess.java
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1.532 springfox-schema 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/ModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/ModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/Maps.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/Collections.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/DefaultTypeNameProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/ModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/ModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/ModelPropertiesProvider.java

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*/opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Types.java
*/opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java

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  jar/springfox/documentation/schema/JaxbPresentInClassPathCondition.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/XmlPropertyPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/JacksonXmlPropertyPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/JacksonXmlPropertyPlugin.java

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  jar/springfox/documentation/schema/JacksonJsonViewProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/TypeNameIndexingAdapter.java
1.533 grpc-core 1.9.0

1.534 spring-web-mvc 4.3.19

1.535 jetty-continuation 9.4.29.v20200521

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.536 error_prone_annotations 2.0.18

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1.537 activation 1.2.0
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.541 zone 0.10.3

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1.542 mawk 1.3.3 17+b3

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1.544 reactive-streams 1.0.3

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1.545 go-restful-openapi 1.2.0
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1.546 jline 0.9.94 0.8.8.amzn1

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1.547 @uirouter/angular 7.0.0

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1.548 asm-tree 8.0.1

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  jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/JumpInsnNode.java
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  jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/ModuleProvideNode.java
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* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-
  jar/org/objectweb/asm/tree/VarInsnNode.java
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  jar/org/objectweb/asm/tree/ModuleExportNode.java
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1.549 swagger-annotations 2.1.2

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1.550 bouncy-castle 1.66
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```java
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
 * <p>
 * The polynomial calculation in this implementation is adapted from the public domain <a
 * href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
 * by Andrew M (@floodyberry).
 * @see Poly1305KeyGenerator
 */

Found in path(s):
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```
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/**
 * SPHINCS-256 signer.
 * <p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
 * the digests used
 * for message hashing and tree construction are now configurable (within limits...) and that the implementation
 * produces
 * detached signatures.
 * </p>
 * <p>
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
 * section 1 in https://eprint.iacr.org/2014/795.pdf
 * </p>
 */
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/**
 * Magic value for proprietary OpenSSH private key.
 */

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* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources.jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Atomics.java
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  jar/com/google/common/collect/TransformedIterator.java
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  jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/FilteredKeySetMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/DescendingMultiset.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/IndexedImmutableSet.java
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  jar/com/google/common/collect/CompactHashing.java  
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3- 
  jar/com/google/common/graph/IncidentEdgeSet.java  

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/**  
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain  
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available  
* under GWT but with a slightly different signature.  
*  
* We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize  
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT  
* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
* version.  
*/

Found in path(s):  
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  jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java

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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/HashBasedTable.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Table.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Range.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableMap.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/JdkPattern.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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  jar/com/google/common/collection/SortedMultiset.java

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  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ConsumingQueueIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/MacHashFunction.java
*/
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jar/com/google/common/util/concurrent/InterruptibleTask.java
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jar/com/google/common/util/concurrent/Platform.java
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jar/com/google/common/hash/FarmHashFingerprint64.java
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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
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*/

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ComputationException.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableTable.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collcet/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collcet/GeneralRange.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collcet/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collcet/ImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collcet/ForwardingSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collcet/Count.java
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jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingLock.java

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/*
/**
 * Holder for web specializations of methods of [ @code Floats ]. Intended to be empty for regular
 * version.
 */

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  jar/com/google/common/primitives/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/Internal.java
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  jar/com/google/common/collect/Streams.java
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  jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/MultimapBuilder.java
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jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/base/Utf8.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/base/TypeVisitor.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/base/VerificationException.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/base/Verify.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/eventbus/SubscriberExceptionContext.java

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 */
/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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/ *
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* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* limitations under the License.  
*/
/**  
* Returns an array containing all of the elements in the specified collection. This method  
* returns the elements in the order they are returned by the collection's iterator. The returned  
* array is "safe" in that no references to it are maintained by the collection. The caller is  
* thus free to modify the returned array.  
*  
* <p>This method assumes that the collection size doesn't change while the method is running.  
*  
* <p>TODo(kevinb): support concurrently modified collections?  
*  
* @param c the collection for which to return an array of elements  
*/

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ObjectArrays.java
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jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ForwardingListMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/CollectCollectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphBuilder.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/common/math/Permutation.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/common/reflection/TypeCapture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/common/reflection/Parameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/common/math/Stats.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/Network.java

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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/math/PrimitiveSink.java
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jar/com/google/common/math/HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/CacheStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashingOutputStream.java
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jar/com/google/common/base/Version.java

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jar/com/google/common/collection/ForwardingListIterator.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
dar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
dar/com/google/common/util/concurrent/AbstractTransformFuture.java
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  jar/com/google/common/cache/CacheBuilder.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/InternetDomainName.java
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* view or before a redirect.
* *
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
* *
* <p>View technologies that support this contract can obtain an instance to
* delegate to via { @link RequestContext#getRequestDataValueProcessor() }.
* *
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * { @link #locateSource detected } during response rendering. Users can either specify
 * a specific entry in the model via the { @link #setSourceKey sourceKey } property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See { @link #getSourceTypes() here }
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure { @link #setOutputProperties output properties }
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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REQUIRE_INJECTOR = "^\^" + INJECTOR_KEY;

var REQUIRE_BODY = "$$UpgradeModule;\n
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 */

angular({
    strictDi: false,
    strictNgIsolate: true,
    useCompiler: true
}).factory(module_name, function ($injector) {
    return ($injector || injector).resolve(module_name);
});
Once this is done we can get hold of services via the AngularJS `$injector` as normal.

Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec.

Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
function createAngularJSTestingModule(angularModules) {
  return
defactory(INJECTOR_KEY, [[$INJECTOR, function ($injector) {
    testing.TestBed.configureTestingModule({
      providers: [{
        provide: $INJECTOR, useValue: $injector }
      ],
    });
    return testing.TestBed.inject(core.Injector);
  }]);
}

function createAngularTestingModule(angularModules) {
  return
defactory(INJECTOR_KEY, [[$INJECTOR, function ($injector) {
    testing.TestBed.configureTestingModule({
      providers: [{
        provide: $INJECTOR, useValue: $injector }
      ],
    });
    return testing.TestBed.inject(core.Injector);
  }]);
}
```

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js.map

export type Ng1Token = string;

export type Ng1Expression = string |

Function;

export interface INg1Expression extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface within `// Sinject?: string[]`, which is not compatible with `Sinject?: ReadonlyArray<string>` (used in latest versions).
  $inject?: string[];
}

export type INg1Token = string;

export type INg1Token = string |

Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular`
  $inject?: Function extends{ $inject?: string[]}? Ng1Token[];
}

export interface ICompileService {
  (element: Element|NodeList|Node[]|string,
   transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {
    [slotName: string]: ILinkFn;
  };
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}

export interface IScope extends IRootScopeService {}
(isolateScope?: () => IScope;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;
  remove?: () => void;
  removeData?: () => void;
} export interface IProvider {
  $get: Injectable;
  $injector: () => IInjectorService;
  $triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;
  $remove?: () => void;
  $removeData?: () => void;
}

export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): IProvider;
  factory(token: Ng1Token, factory: Injectable): IProvider;
  $service(token: Ng1Token, type: Injectable): IProvider;
  $value(token: Ng1Token, value: any): IProvider;
  $constant(token: Ng1Token, value: any): void;
  $decorator(token: Ng1Token, factory: Injectable): void;
}$injector?: () => IInjectorService;
$triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;
$remove?: () => void;
$removeData?: () => void;
};

export interface IAugmentedJQuery {
  $injector: INg1Injector;
  $controller: IController;
  $exceptionHandler: (event: Event | null, info: any): void;
  $delegateController: IControllerService;
  $controllerAs: (controller: IController) => any;
  $provider: IProvideService;
  $injectables: Injectable[];
  $injector: IInjectorService;
  $injector.map: (dependency: Injectable | string) => Injectable;
  $injector.reset(): void;
  $injectorWrapper: IInjectorService;
  $controller: Injectable[];
  $controllerAs: (controller: any) => any;
  $isExprValue: (value: any, expr: string) => boolean;
  $isBindingValue: (value: any, expr: string) => boolean;
  $isField: (field: string) => boolean;
  $isExpression: (value: any, expr: string) => boolean;
  $isFunction: (value: any) => boolean;
  $isScope: (scope: any) => boolean;
  $isProvider: (provider: Injectable) => boolean;
  $isInjector: (injector: Injectable) => boolean;
  $isAugmentedJQuery: (arg: any) => boolean;
  $isDynamicController: (arg: any) => boolean;
  $isDynamicInjectable: (arg: any) => boolean;
  $isDirectCtrlFn: (arg: any) => boolean;
  $isDirectCtrlAsFn: (arg: any) => boolean;
  $isInterceptor: (arg: any) => boolean;
  $isNgModelController: (arg: any) => boolean;
  $isPartialController: (arg: any) => boolean;
  $is_type: (arg: any) => boolean;
  $isValue: (value: any) => boolean;
  $isController: (controller: IController) => boolean;
  $isProvider: (provider: Injectable) => boolean;
  $isInjector: ( injector: Injectable) => boolean;
  $isAugmentedJQuery: (arg: any) => boolean;
  $isDynamicController: (arg: any) => boolean;
  $isDynamicInjectable: (arg: any) => boolean;
  $isDirectCtrlFn: (arg: any) => boolean;
  $isDirectCtrlAsFn: (arg: any) => boolean;
  $isInterceptor: (arg: any) => boolean;
  $isNgModelController: (arg: any) => boolean;
  $isPartialController: (arg: any) => boolean;
  $is_type: (arg: any) => boolean;
  $isValue: (value: any) => boolean;
  $isController: (controller: IController) => boolean;
  $isProvider: (provider: Injectable) => boolean;
  $isInjector: (injector: Injectable) => boolean;
  $isAugmentedJQuery: (arg: any) => boolean;
  $isDynamicController: (arg: any) => boolean;
  $isDynamicInjectable: (arg: any) => boolean;
  $isDirectCtrlFn: (arg: any) => boolean;
  $isDirectCtrlAsFn: (arg: any) => boolean;
  $isInterceptor: (arg: any) => boolean;
  $isNgModelController: (arg: any) => boolean;
  $isPartialController: (arg: any) => boolean;
  $is_type: (arg: any) => boolean;
  $isValue: (value: any) => boolean;
  $isController: (controller: IController) => boolean;
  $isProvider: (provider: Injectable) => boolean;
  $isInjector: (injector: Injectable) => boolean;
  $isAugmentedJQuery: (arg: any) => boolean;
  $isDynamicController: (arg: any) => boolean;
  $isDynamicInjectable: (arg: any) => boolean;
  $isDirectCtrlFn: (arg: any) => boolean;
  $isDirectCtrlAsFn: (arg: any) => boolean;
  $isInterceptor: (arg: any) => boolean;
  $isNgModelController: (arg: any) => boolean;
  $isPartialController: (arg: any) => boolean;
  $is_type: (arg: any) => boolean;
  $isValue: (value: any) => boolean;
  $isController: (controller: IController) => boolean;
  $isProvider: (provider: Injectable) => boolean;
  $isInjector: (injector: Injectable) => boolean;
  $isAugmentedJQuery: (arg: any) => boolean;
  $isDynamicController: (arg: any) => boolean;
  $isDynamicInjectable: (arg: any) => boolean;
  $isDirectCtrlFn: (arg: any) => boolean;
  $isDirectCtrlAsFn: (arg: any) => boolean;
  $isInterceptor: (arg: any) => boolean;
  $isNgModelController: (arg: any) => boolean;
  $isPartialController: (arg: any) => boolean;
  $is_type: (arg: any) => boolean;
  $isValue: (value: any) => boolean;
  $isController: (controller: IController) => boolean;
  $isProvider: (provider: Injectable) => boolean;
  $isInjector: (injector: Injectable) => boolean;
angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';

/**
 * A `PropertyBinding` represents a
 * mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"`; or simply `"propAndAttr" where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[${(this.attr)}\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `\on${capitalAttr}`;
    this.bindAttr = `\bind${capitalAttr}`;
    this.bindonAttr = `\bindon${capitalAttr}`;
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):\-/_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-_]/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '\$1\$2\$3');
}

export function getTypeName(type: Type<any>): string {
  // Return the
  return type.name || type.toString().split('
')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.get(DOWNGRADED_MODULE_COUNT_KEY);
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.get(UPGRADE_APP_TYPE_KEY);
}
UpgradeAppType.None,\n});\n\nexport function isFunction(value: any): value is Function {\n  return typeof value === 'function';\n}\n\nexport class Deferred<R> {\n  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject !: (error?: any) => void;

  constructor() {\n    this.promise = new Promise((res, rej) => {\n      this.resolve = res;
      this.reject = rej;
    });\n  }
}

export interface LazyModuleRef {\n  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {\n  // App NOT using `@angular/upgrade`. (This should never happen in an \n  `ngUpgrade` app.)\n  None,
  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic \n  `ngUpgrade`).\n  Dynamic,
  // App using `@angular/upgrade/static` with `UpgradeModule`.\n  Static,
  // App using @angular/upgrade/static` with `downgradeModule()` (a.k.a `ngUpgrade`-lite ).\n  Lite,
}

/**\n * @return \n * Whether the passed-in component implements the subset of the\n *   * `ControlValueAccessor` interface needed for\n * AngularJS `ng-model`\n * compatibility.\n * @param {?} component\n * @returns {boolean}\n * Glue the AngularJS `NgModelController` (if it exists) to the component\n * (if it implements the needed subset of the \n *   `ControlValueAccessor` interface).\n */
export function supportsNgModel(component: any) {\n  return typeof component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';\n}

/**\n * Test two values for\n * strict equality, accounting for the fact that `NaN !== NaN`.\n */
export function strictEquals(val1: any, val2: any): boolean {\n  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef,\n  ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,\n  StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes,\n  IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {\n  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef !: ComponentRef<any>;
  // TODO(issue/24571): remove '!'.
  private changeDetector !: ChangeDetectorRef;
  //
Todo(issue/24571): remove `!
private viewChangeDetector!: ChangeDetectorRef;
this.componentScope = scope.$new();
this.$injector.$on('$destroy', () => {
  this.componentScope.$destroy();
});
}

this.createComponent(projectableNodes: Node[][]) {
const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
const childInjector = Injector.create({providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
this.changeDetector = this.componentRef.changeDetectorRef;
this.$compile.nodes = projectableNodes.map(nodes =>
  this.$compile(nodes));
this.element.empty();
linkFns.forEach(linkFn => {
  linkFn(this.scope, (clone: Node[]) => {
    compiledProjectableNodes.push(clone);
    this.element.append(clone);
  });
});
this.createComponent();

const testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  this.componentRef.injector.get(TestabilityRegistry).registerApplication(this.componentRef.location.nativeElement, testability);
}

hookupNgModel(this.ngModel, this.component);

setupInputs((manuallyAttachView: boolean, propagateDigest = true): void {
  const attrs = this.attrs;
  const inputs = this.componentFactory.inputs || [];
  for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
    let expr = null;
    if (attrs.hasOwnProperty(input.attr)) {
      const observeFn = (prop => {
        let prevValue = INITIAL_VALUE;
        return (currValue: any) => {
          if (!strictEquals(prevValue, currValue)) {
            prevValue = currValue;
            this.updateInput(prop, prevValue, currValue);
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.$observe(input.attr, observeFn);
      // Use `$watch()` in addition to `$observe()` in order to initialize the input in time
      // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
      // which means that the `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
      // callback. let unwatch: Function = null = this.componentScope.$watch(() => {
      //ngOnChanges() => {
      //  unwatch = null = this.componentScope.$observe(this.$prop, this.$prop.
      //prop = (prop => (currValue: any) => {
    };
    if (expr != null) {
      const watchFn = (prop => (currValue: any, prevValue: any) => {
        this.updateInput(prop, prevValue, currValue);
      })(input.prop);
      this.componentScope.$watch(expr, watchFn);
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
      expr = attrs[input.bracketParenAttr];
    } if (expr != null) {
      const watchFn = (prop => (currValue: any, prevValue: any) => {
        this.updateInput(prop, prevValue, currValue);
      })(input.prop);
      this.componentScope.$watch(expr, watchFn);
    } if (prop) {
      Invoke `ngOnChanges()` and Change Detection (when necessary)
      this.implementsOnChanges = !!(<OnChanges>this.component).ngOnChanges;
      (this.boundChanges = {});
      (this.componentScope.$watch(() => this.componentScope.$digest(), this));
    }
    this.componentScope.$digest();
    this.$compile.nodes.forEach((node, index) => {
      node.$digest();
    });
  }
}

this.viewChangeDetector.markForCheck(); // If opted out of propagating digests, invoke change detection
when inputs change.
if (!propagateDigest) {
  detectChanges();
} // If not opted out of
propagating digests, invoke change detection on every digest
    if (propagateDigest) {
      this.componentScope.$watch(this.wrapCallback(detectChanges));
    } // If necessary, attach the view so that
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    let unwatch: Function|null = this.componentScope.$watch(() => {
      unwatch !(v: any) => getter(this.scope, {'$event': v})
    }); // order below is important - first update bindings then expression values
    if (attrs.hasOwnProperty(bindonAttr)) {
      this.subscribeToOutput(output, expr, isAssignment); // order below is important - first update bindings then expression values
    } else {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
  }
}

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [[]];
  let wildcardNgContentIndex: number = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const index = findMatchingNgContentIndex(node, ngContentSelector); // order below is important - first update bindings then expression values
    if (ngContentIndex != null) {
      projectableNodes[index].push(node);
    } else {
      throw new Error(`Missing emitter '${output.prop}' on component`);
    }
  }
  return projectableNodes;
}

function findMatchingNgContentIndex(node: Node, ngContentSelector): number|null {
  const ngContentIndices: number[] = []; // order below is important - first update bindings then expression values
  if (matchesSelector(node, ngContentSelector)) {
    ngContentIndices.push(i);
  }
  ngContentIndices.sort(); // order below is important - first update bindings then expression values
  return ngContentIndices[wildcardNgContentIndex]; // order below is important - first update bindings then expression values
}

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
        elProto.webkitMatchesSelector ||
        elProto.mozMatchesSelector ||
        elProto.msMatchesSelector ||
        elProto.oMatchesSelector; // order below is important - first update bindings then expression values
    _matches = elProto.matches;
  }
  return _matches(selector); // order below is important - first update bindings then expression values
}
```javascript
elProto.oMatchesSelector || elProto.webkitMatchesSelector;
} ||

Thenable<T> { then(callback: (value: T) => any): any; } ||

Thenable<T> {
  protected value: T;
  private resolved = false;
  private callbacks: ((value: T) => void)[] = [];

  then(callback: (value: T) => void): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(value: T): void {
    if (this.resolved) return;
    this.value = value;
    this.resolved = true;

    this.callbacks.forEach(callback => callback(this.value));
    this.callbacks.length = 0;
  }
}
```

```typescript
/**
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 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>[])[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T>();
    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) return;
    this.value = value;
    this.resolved = true;

    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }
}
```

```typescript
/**
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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS directive that wraps the "downgraded" component.
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#downgrading-an-angular-component) and [Upgrade using-angular-components-from-angularjs-code](guide/upgrade#downgrading-an-angular-component).
 *
 * The `downgradeComponent()` function returns a factory function that is used to create the AngularJS directive that wraps the "downgraded" component.
 *
 * @param info contains information about the Component that is being downgraded:
 *     - `component: Type<any>`: The type of the Component that will be downgraded
 *     - `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
 *     - `propagateDigest?: boolean`: Whether to perform change detection on the component on every
 *     - `digest`:
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#downgrading-an-angular-component) and [Upgrade using-angular-components-from-angularjs-code](guide/upgrade#downgrading-an-angular-component).
 *
 * This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular module.
 *
 * `propagateDigest?: boolean`: Whether to perform change detection on the component on every
 * `digest`:
 */
export
function downgradeComponent(info: {n component: Type<any>; n downgradedModule?: string; n propagateDigest?: boolean; n /** @deprecated since v4. This parameter is no longer used */  n inputs?: string[]; n /** @deprecated since v4. This parameter is no longer used */  n outputs?: string[]; n /** @deprecated since v4. This parameter is no longer used */  n selectors?: string[]; n }): any /* angular.Injectable */ {

    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;

    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
        NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone;

    const hasMultipleDowngradedModules =
        isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

    const ngModel: INgModelController = required[1];
    const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
    let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
    let ranAsync = false;

    if (!parentInjector || hasMultipleDowngradedModules) {
      const downgradedModule = info.downgradedModule
          || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;

      validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);

      const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
      moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
    }

    // Notes:
    //
    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant);
    // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be on the same tree as the `NgModule` that declares this downgraded component;
    // - `finalParentInjector` is used for all other injection purposes.

    // When looking for an injectable and then switch to the module injector, there are basically three cases:
    // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
      `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component (and thus a `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgraded component (e.g. because there is only one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and `finalParentInjector`).
    // - If there is a parent component, but it may belong to a different `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded component as declaring `NgModule`'s injector as `finalModuleInjector`.

    // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).  Note 2: It is possible that (while there are multiple downgraded modules) this downgraded component and its parent component both belong to the same `NgModule`.  In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve `ComponentFactoryResolver` from either one will return the same instance.  If there is a parent component, use its injector as parent injector.  If this is a "top-level" Angular component, use the

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module injector.

const finalParentInjector = parentInjector || moduleInjector !;

// If there is a parent component that belongs to the same 
// `NgModule`, use its injector.

const finalModuleInjector = moduleInjector || parentInjector !;

doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
  // component belongs to.

  componentFactoryResolver = injector.get(ComponentFactoryResolver);

  componentFactory = componentFactoryResolver.resolveComponentFactory(info.component) !;

  if (!componentFactory) {
    throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
  }

  componentFactory.injector = injector;

  componentFactory.registerInjector(injector);

  injector = injectorFactory.injector(injector);

  if (ranAsync) {
    // If this is run async, it is possible
    // that it is not run inside `async` // digest and initial input values will not be detected.

    scope.$evalAsync(() => {
      injectableNodes.forEach((node) => node.$compile(null))

      ngZone = ngZone || injector.get(NgZone);

      wrapCallback(() => doDowngrade(pInjector, mInjector))();
    });
  }

  injectorPromise.resolve(injector);
be available until the Angular\n * module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere _outside_ the part of the app where it is guaranteed they module has been instantiated.\n * For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but _not OK_ to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module.\n *
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.\n * @param downgradedModule the name of the downgraded module (if any) that the injectable belongs to, as returned by a call to `downgradeModule()` . It is the module, whose injector will be used for instantiating the injectable.\n *
 *
 * Entry point for all public APIs of the common package.\n *
 * @publicApi
 */

\n
```javascript
import {Injector, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';

export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to\n  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`.
  // AngularJS only supports a single tree and should always check the module injector.
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue ===
```
```javascript
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) { 
  return notFoundValue;
}

this.modInjector.get(token, notFoundValue); return notFoundValue;
```

```javascript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';
import {NgModuleFactory, PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from './common/src/modules';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {@Injectable, Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';
import {NgModuleFactory, PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from './common/src/modules';

let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a `{constructor, downgradedComponent: downgraded component}` needs to be instantiated.
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.
 * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory()`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an instance of a `NgModuleRef`. The function is called with an array of extra `StaticProvider` providers that are expected to be available from the returned `NgModuleRef`'s `Injector`. It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front.
 * **Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.**
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 * The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory()`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an instance of a `NgModuleRef`. The function is called with an array of extra `StaticProvider` providers that are expected to be available from the returned `NgModuleRef`'s `Injector`. It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front.
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 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory()`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an instance of a `NgModuleRef`. The function is called with an array of extra `StaticProvider` providers that are expected to be available from the returned `NgModuleRef`'s `Injector`. It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front.
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 * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory()`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an instance of a `NgModuleRef`. The function is called with an array of extra `StaticProvider` providers that are expected to be available from the returned `NgModuleRef`'s `Injector`. It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front.
manually trigger a change detection run in Angular using \[@link NgZone#run\* ngZone.run(...)\]*. It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules: - Each downgraded component/injectable needs to be explicitly associated with a downgraded module. - If you want some injectables to be shared among all downgraded modules, you can provide them as `@angular/core` StaticProvider’s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`). When using \[@link PlatformRef#bootstrapmodule `bootstrapModule()`\] or downgraded modules, each one is considered a \"root\" module. As a consequence, a new instance will be created for every injectable provided in \"root\" (via \[@link Injectable#providedIn `providedIn`\]). If this is not your intention, you can have a module (that will act as act as the \"root\" module) and create all downgraded modules using that module's injector. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

- If you want some injectables to be shared among all downgraded modules, you can provide them as StaticProvider’s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).

- Downgrading multiple modules and including them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.

- Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

- If you want some injectables to be shared among all downgraded modules, you can provide them as StaticProvider’s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).

- Downgrading multiple modules and including them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.

- Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

- If you want some injectables to be shared among all downgraded modules, you can provide them as StaticProvider’s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).
IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error('Only support single directve definition for: ' + name);
    }

    const directive = directives[0];

    // AngularJS will transform 'link: xyz' to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. If (directive.compile && (!directive.link)) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: AAugmentedJQuery): string|Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);

      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}' returned '${status}: ${response}'`);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);

    this.$element.data!(controllerKey(this.directive.name!), controller);

    return controller;
  }

  compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }

    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613f9d/src/manipulation.js#L1223
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aah70d864d688c82/src/jqLite.js#L306-L312
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aah70d864d688c82/src/Angular.js#L1911-L1924
    angularElement.cleanData(this.element);

    angularElement.cleanData(this.element.querySelectorAll('*'));

    prepareTransclusion(): ILINKFn|undefined {
      const transclude = this.directive.transclude;
      const contentNodes = this.extractChildNodes();

      const attachChildrenFn: ILINKFn = (scope, cloneAttachFn) => {
        // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
        // `Template` is empty. Since the transcluded content comes from Angular,
        // not AngularJS, there will be no transclusion scope here.
        // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
        return cloneAttachFn !(Template, scope); let Template = contentChildNodes;
      }

      if (transclude) {
        const slots = Object.create(null);
        if (typeof transclude === 'object') {
          let Template = contentChildNodes;
          const slotMap = Object.create(null);
          const filledSlots = Object.create(null);
          // Parse the element selectors.
          Object.keys(transclude).forEach(slotName => {
            let selector = transclude[slotName];
          });
          // AngularJS will transform 'link: xyz' to `compile: () => xyz`. So we can only tell there was an
          // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. If (directive.compile && (!directive.link)) notSupported(name, 'compile');
        }
      }
    }

    return this.compileHtml(template);
  }

  compileHtml(template: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }

    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613f9d/src/manipulation.js#L1223
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aah70d864d688c82/src/jqLite.js#L306-L312
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    //
```javascript
function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return property === undefined ? null : (property instanceof Function ? property(...args) : property);
}
```

```javascript
let selector = optional ? selector.substring(1) : selector;
let slotName = slots[slotName] = null; // null: Defined but not yet filled.
```

```javascript
let filledSlots = slots[slotName] = slots[slotName] || {};
```

```javascript
let optional = !!match[2];
```

```javascript
let inheritType = match[1] || match[3];
```

```javascript
let searchParents = !!inheritType;
```

```javascript
let ctrlKey = controllerKey(name);
```

```javascript
let elem = startOnParent ? this.$element.parent() : this.$element;
```

```javascript
let value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);
```

```javascript
if (!value && !isOptional) {
  throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}': $\{require\}`);
}
```

```javascript
\{\n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  ```
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```ts
import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, isFunction as looseIdentical} from '@angular/core';
import {IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';
import {$SCOPE} from '../../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../src/common/src/upgrade_helper';
import {isMap} from '../../src/common/src/util';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

class Bindings {
  twoWayBoundProperties: string[] = [];
  twoWayBoundLastValues: any[] = [];
  expressionBoundProperties: string[] = [];
  propertyToOutputMap: {
    [propName: string]: string
  } = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from Angular templates.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation.
 * This class should be used as a base class for creating Angular directives that wrap AngularJS components that need to be upgraded. This is because AOT compiler requires that this information is statically available at compile time. Note that we must do the following:
 * * specify the directive's selector (`ng1Hero`)
 * * specify all inputs and outputs that the AngularJS component expects
 * * derive from `UpgradeComponent`
 * * call the base class from the constructor, passing
 *   * the AngularJS name of the component (`ng1Hero`)
 *   * the `ElementRef` and `Injector` for the component wrapper
 *   * `controllerInstance` and `bindingDestination`
 *   * `pendingChanges`
 *   * `unregisterDoCheckWatcher`
 * We will be instantiating the controller in the `ngOnInit` hook, when the
 * first `ngOnChanges` will have been already triggered. We store the
 * 'SimpleChanges' and 'play them back' later. To remove private pendingChanges !:
 * SimpleChanges | null
 * // TODO(issue/24571): remove !:
 * private unregisterDoCheckWatcher !: Function
 * // TODO(issue/24571): remove !:
 * private constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
 * this.injector = new UpgradeHelper(injector, name, elementRef);
 * this.$element = this.injector.$element;
 * this.$componentScope = this.injector.$componentScope;
 * this.$injector = this.injector.$injector;
 * this.element = this.$element;
 * this.Selement = this.$element;
 * this.directive = this.$injector.directive;
 * this.bindings = this.$injector.bindings;
 * this.SparentScope = this.$injector.SparentScope;
 * // We ask for the AngularJS scope from the Angular injector, since
 * // we will put the new component scope onto the new injector for each component
 * const SparentScope = injector.get($SCOPE);
 * // QUESTION 1: Should we create an isolated scope if the scope is only true?
 * // QUESTION 2: Should we make the scope accessible through `Selement.scope()/isolateScope()`?
 */

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 */

export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
  private helper: UpgradeHelper;

  private $injector: IInjectorService;

  private element: Element;
  private $element: IAugmentedJQuery;
  private $componentScope: IScope;

  private directive: IDirective;
  private bindings: Bindings;

  // We will be instantiating the controller in the `ngOnInit` hook, when the
  // first `ngOnChanges` will have been already triggered. We store the
  // 'SimpleChanges' and 'play them back' later. To remove private pendingChanges !:
  // SimpleChanges | null
  // TODO(issue/24571): remove !:
  // private unregisterDoCheckWatcher !: Function
  // TODO(issue/24571): remove !:
  // private constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
  // this.injector = new UpgradeHelper(injector, name, elementRef);
  // this.$element = this.injector.$element;
  // this.$componentScope = this.injector.$componentScope;
  // this.$injector = this.injector.$injector;
  // this.element = this.$element;
  // this.Selement = this.$element;
  // this.directive = this.$injector.directive;
  // this.bindings = this.$injector.bindings;
  // this.SparentScope = this.$injector.SparentScope;
  // // We ask for the AngularJS scope from the Angular injector, since
  // // we will put the new component scope onto the new injector for each component
  // const SparentScope = injector.get($SCOPE);
  // // QUESTION 1: Should we create an isolated scope if the scope is only true?
  // // QUESTION 2: Should we make the scope accessible through `Selement.scope()/isolateScope()`?
 */
```

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this.$componentScope = $parentScope.$new(!this.directive.scope);

ngOnInit() { // Collect contents, insert and compile template
  const attachChildNodes = this.helper.prepareTransclusion();
  const linkFn = this.helper.compileTemplate();
  // Instantiate controller
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (controllerType) { // this.controllerInstance = this.helper.buildController(controllerType,
    this.$componentScope); } else if (bindToController) { throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`); }

  // Set up outputs
  this.initializeOutputs();

  // Instantiate controller
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (controllerType) { this.controllerInstance = this.helper.buildController(controllerType,
    this.$componentScope); } else if (bindToController) { throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`); }

  // Require other controllers
  this.registerRequiredControllers(
    this.controllerInstance);

  // Hook: $onChanges
  if (this.pendingChanges) { this.forwardChanges(this.pendingChanges); this.pendingChanges = null; }

  // Hook: $onInit
  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) { this.controllerInstance.$onInit(); }

  // Hook: $doCheck
  if (isFunction(this.controllerInstance.$doCheck)) { this.controllerInstance.$doCheck();
    // Linking
    const linkFn = this.helper.compileTemplate();
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) { preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

    linkFn(this.$componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

    if (postLink) { postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) { this.controllerInstance.$postLink(); }
  }

  ngOnChanges(changes: SimpleChanges) { if (!this.bindingDestination) { this.pendingChanges = changes; }
    else { this.forwardChanges(changes); }

    // Linking
    const linkFn = this.helper.compileTemplate();
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) { preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

    linkFn(this.$componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

    if (postLink) { postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) { this.controllerInstance.$postLink(); }

    // doCheck
    if (this.controllerInstance && isFunction(this.controllerInstance.doCheck)) { this.controllerInstance.doCheck();
      // Linking
      const linkFn = this.helper.compileTemplate();
      const preLink = typeof link == 'object' && link.pre;
      const postLink = typeof link == 'object' ? link.post : link;
      const attrs: IAttributes = NOT_SUPPORTED;
      const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
      if (preLink) { preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

      linkFn(this.$componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

      if (postLink) { postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

      // Hook: $postLink
      if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) { this.controllerInstance.$postLink(); }
    }

    // doCheck
    if (this.controllerInstance && isFunction(this.controllerInstance.doCheck)) { this.controllerInstance.doCheck();
      // Linking
      const linkFn = this.helper.compileTemplate();
      const preLink = typeof link == 'object' && link.pre;
      const postLink = typeof link == 'object' ? link.post : link;
      const attrs: IAttributes = NOT_SUPPORTED;
      const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
      if (preLink) { preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

      linkFn(this.$componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

      if (postLink) { postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn); }

      // Hook: $postLink
      if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) { this.controllerInstance.$postLink(); }
  }

  ngOnDestroy() { if (isFunction(this.unregisterDoCheckWatcher)) { this.unregisterDoCheckWatcher(); }
  }

  private initializeBindings(directive: IDirective) { const btcIsObject = typeof directive.bindToController === 'object';
    if (btcIsObject && Object.keys(directive.scope).length) { throw new Error(`Binding definitions on scope and controller at the same time is not supported:`); }

    const context = btcIsObject ? directive.bindToController : directive.scope;
    const bindings = new Bindings();

    if (typeof context == 'object') { Object.keys(context).forEach(propName => { const definition = context[propName]; const bindingType = definition.charAt(0);
      switch (bindingType) {
        case '@': case '<': // We don't need to do anything special. They will be defined as inputs on the upgrade.
          // upgraded component facade and the change propagation will be handled by
          // ngOnChanges.
          break;
          switch (bindingType) { case '@': case '<':}
          // We don't need to do anything special. They will be defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // ngOnChanges.
          break;
        default: throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive:`); }
    });

    bindings.$componentScope.$new(!this.directive.scope);
  }

  initializeOutputs() { return new Outputs();

  }
return bindings;
} 

private initializeOutputs() {
  // Initialize the outputs for `=` and `&` bindings
  this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
      .forEach(propName => {
        const outputName = this.bindings.propertyToOutputMap[propName];
        (this as any)[outputName] = new EventEmitter();
      });

  private bindOutputs() {
    // Bind `&` bindings to the corresponding outputs
    this.bindings.expressionBoundProperties.forEach(propName => {
      const outputName = this.bindings.propertyToOutputMap[propName];
      const emitter = (this as any)[outputName];

      this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
  }

  private forwardChanges(changes: SimpleChanges) {
    // Forward input changes to `bindingDestination`
    Object.keys(changes).forEach(
        propName => this.bindingDestination[propName] = changes[propName].currentValue);

    if (isFunction(this.bindingDestination.$onChanges)) {
      this.bindingDestination.$onChanges(changes);
    }
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap,
        element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY,
        LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
        '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from
        '../../src/common/src/util';
import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * @usageNotes
 *
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 *
 * See also the example below.
 *
 * ### Mental Model
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.
 *
 * 1. There are two independent frameworks running in a single application, each framework treats
 *    the other as a black box. Each DOM element on the page is owned exactly by one framework.
 *    Whichever framework instantiated the element is the owner. Each framework only
 *    updates/interacts with its own* DOM elements and ignores others.
 * 2. AngularJS directives always execute inside the AngularJS framework codebase regardless of
 *    where they are instantiated.
 * 3. Angular components always execute inside the Angular framework codebase regardless of
 *    where they are instantiated.
 * 4. An AngularJS component can be \`\`upgraded\`\` to an Angular component. This is achieved by
 *    defining an Angular directive, which bootstraps the AngularJS component at its location
 *    in the DOM. See \`UpgradeComponent\`.
 * 5. An Angular component can be \`\`downgraded\`\` to an AngularJS component. This is achieved by
 *    defining an AngularJS directive, which bootstraps the Angular component at its location
 *    in the DOM. See \`downgradeComponent\`.
 * 6. Whenever an \`\`upgraded\`\`` component is instantiated the host element is owned by
 *    the framework doing the instantiation. The other framework then instantiates and
owns the view for that component. This implies that the component bindings will always follow the semantics of the instantiation framework. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use &camelCase. However the template binding syntax will always use the Angular style, e.g. square brackets (\[\ldots\]) for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to $apply().

The `UpgradeModule` class owns this `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid application:

```javascript
import { NgModule } from '@angular/core';
import { BootstrapModule } from '@angular/upgrade';
import { ApplicationRef } from '@angular/core';
import { NgZone } from '@angular/common';
import { PLATFORM_ID } from '@angular/core';
import { isPlatformBrowser } from '@angular/common';
import { Testability,ɵɵinject} from '@angular/platform-browser';
import { AppModule } from './module';

@NgModule({
  bootstrap: [AppModule],
  ngDoBootstrap: () => {
    console.log('bootstraping');
  }
})
export class AppModule {
  constructor(private injector: Injector) {
  }
}
```

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid application. It also contains properties to access the Angular `Injector` and the AngularJS `$injector`.

```javascript
import { NgModule } from '@angular/core';
import { BootstrapModule } from '@angular/upgrade';
import { ApplicationRef } from '@angular/core';
import { NgZone } from '@angular/common';
import { PLATFORM_ID } from '@angular/core';
import { isPlatformBrowser } from '@angular/common';
import { Testability,ɵɵinject} from '@angular/platform-browser';
import { AppModule } from './module';

@NgModule({
  bootstrap: [AppModule],
  ngDoBootstrap: () => {
    console.log('bootstraping');
  }
})
export class AppModule {
  constructor(private injector: Injector) {
  }
}
```

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

1. Define an Angular provider to be included in your `NgModule` providers property.
2. Use the "upgraded" AngularJS service in your Angular component or service.

```typescript
import { NgModule } from '@angular/core';
import { BootstrapModule } from '@angular/upgrade';
import { ApplicationRef } from '@angular/core';
import { NgZone } from '@angular/common';
import { PLATFORM_ID } from '@angular/core';
import { isPlatformBrowser } from '@angular/common';
import { Testability,ɵɵinject} from '@angular/platform-browser';
import { AppModule } from './module';

@NgModule({
  bootstrap: [AppModule],
  ngDoBootstrap: () => {
    console.log('bootstraping');
  }
})
export class AppModule {
  constructor(private injector: Injector) {
  }
}
```

```typescript
import { NgModule } from '@angular/core';
import { BootstrapModule } from '@angular/upgrade';
import { ApplicationRef } from '@angular/core';
import { NgZone } from '@angular/common';
import { PLATFORM_ID } from '@angular/core';
import { isPlatformBrowser } from '@angular/common';
import { Testability,ɵɵinject} from '@angular/platform-browser';
import { AppModule } from './module';

@NgModule({
  bootstrap: [AppModule],
  ngDoBootstrap: () => {
    console.log('bootstraping');
  }
})
export class AppModule {
  constructor(private injector: Injector) {
  }
}
```
injector.get(Testability);\n  if (ng2Testability.isStable()) {\n    callback();\n  } else {\n    ng2Testability.whenStable(\n      newWhenStable.bind(\n        testabilityDelegate, callback));\n  }\n\n  testabilityDelegate.whenStable || return testabilityDelegate();\n\n$provide.decorator($INTERVAL, \n  $DELEGATE, \n  (intervalDelegate: IntervalService) => {\n    // Wrap the $interval service so that setInterval is called outside NgZone, \n    // but the callback is still invoked within it. This is so that $interval \n    // won’t block stability, which preserves \n    // the behavior from AngularJS\n    let wrappedInterval = (fn: Function, delay, number, \n      count?: number, invokeApply?: boolean, \n      ...pass: any[]) => {\n      return return this.ngZone.runOutsideAngular(() => {\n        return intervalDelegate(...args: any[]) => {\n          // Run callback in the next VM turn - $interval calls \n          // $rootScope.$apply, and running \n          the callback in NgZone will\n          // cause a $digest already in progress' error if it's in the\n          // same vm turn.\n          setTimeout(() => { this.ngZone.run(() => fn(...args)); });\n        }, delay, count, invokeApply, ...pass);\n      }));\n    \n    (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;\n    return wrappedInterval;\n  });\n\n$rootScope.$$phase;\nif (isDevMode()) {\n  console.warn('A digest was triggered while one \n  was already in progress. This may mean that something is triggering digests outside the Angular zone.');\n}\n
return $rootScope.$evalAsync();\n\nreturn $rootScope.$digest();\n\nif (windowAngular.resumeBootstrap) {
  const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
  const ngZone = this.ngZone;
  windowAngular.resumeBootstrap = function() {
    let args = arguments;
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));\n  }\n\n  @license
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export {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from '../src/common/src/angular1';
export {downgradeComponent} from '../src/common/src/downgrade_component';
export {downgradeInjectable} from '../src/common/src/downgrade_injectable';
export {VERSION} from '../src/common/src/version';
export {downgradeModule} from './src/downgrade_module';
export {UpgradeComponent} from './src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';

// This file only re-exports
// items to appear in the public api. Keep it that way.

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 */
```
editing

// by the TypeScript language service and during build for verification. `ngc` 
// replaces this file with production index.ts when it rewrites private symbol
// names. Generated bundle index. Do not edit.

export * from './public_api';

/**
 * Generated
 */

export * from './index';

export {angular1Providers as ɵangular_packages_upgrade_static_static_e,
    compileFactory as ɵangular_packages_upgrade_static_static_c,
    injectorFactory as ɵangular_packages_upgrade_static_static_a,
    parseFactory as ɵangular_packages_upgrade_static_static_d,
    rootScopeFactory as ɵangular_packages_upgrade_static_static_b}

from `./src/angular1_providers';
```
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in the LICENSE file at https://angular.io/license\n */\n /**\n * A `PropertyBinding` represents a mapping
between a property name\n * and an attribute name. It is parsed from a string of the form\n * `\"prop: attr\"`; or
simply `\"propAndAttr\" where the property\n * and attribute have the same identifier.\n */\n var
PropertyBinding = /** @class */ (function () {\n
function PropertyBinding(prop, attr) {\n
this.prop =
prop;\n
this.attr = attr;\n
this.parseBinding();\n
}\n
PropertyBinding.prototype.parseBinding =
function () {\n
this.bracketAttr = \"[\" + this.attr + \"]\";\n
this.parenAttr = \"(\" + this.attr + \")\";\n
this.bracketParenAttr = \"[(\" + this.attr + \")]\";\n
var capitalAttr = this.attr.charAt(0).toUpperCase() +
this.attr.substr(1);\n
this.onAttr = \"on\" + capitalAttr;\n
this.bindAttr = \"bind\" + capitalAttr;\n
this.bindonAttr = \"bindon\" + capitalAttr;\n
};\n
return PropertyBinding;\n }());\n\n /**\n *
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MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)[:\\-_]/i;\n var DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\\_]+(.)/g;\n function onError(e) {\n
// TODO: (misko): We seem to not have a stack trace here!\n
if
(console.error) {\n
console.error(e, e.stack);\n
}\n
else {\n
// tslint:disable-next-line:noconsole\n
console.log(e, e.stack);\n
}\n
throw e;\n }\n function controllerKey(name) {\n
return '$' + name + 'Controller';\n }\n function directiveNormalize(name) {\n
return
name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP,
function (_, letter) { return letter.toUpperCase(); });\n }\n function getTypeName(type) {\n
// Return the
name of the type or the first line of its stringified version.\n
return type.overriddenName || type.name ||
type.toString().split('\\n')[0];\n }\n function getDowngradedModuleCount($injector) {\n
return
$injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n
0;\n }\n function
getUpgradeAppType($injector) {\n
return $injector.has(UPGRADE_APP_TYPE_KEY) ?
$injector.get(UPGRADE_APP_TYPE_KEY) :\n
0 /* None */;\n }\n function isFunction(value) {\n
return typeof value === 'function';\n }\n function validateInjectionKey($injector, downgradedModule,
injectionKey, attemptedAction) {\n
var upgradeAppType = getUpgradeAppType($injector);\n
var
downgradedModuleCount = getDowngradedModuleCount($injector);\n
// Check for common errors.\n
switch (upgradeAppType) {\n
case 1 /* Dynamic */:\n
case 2 /* Static */:\n
if
(downgradedModule) {\n
throw new Error(\"Error while \" + attemptedAction + \": 'downgradedModule'
unexpectedly specified.\\n\" +\n
'You should not specify a value for \\'downgradedModule\\', unless
you are downgrading ' +\n
'more than one Angular module (via \\'downgradeModule()\\').');\n
}\n
break;\n
case 3 /* Lite */:\n
if (!downgradedModule && (downgradedModuleCount
>= 2)) {\n
throw new Error(\"Error while \" + attemptedAction + \": 'downgradedModule' not
specified.\\n\" +\n
'This application contains more than one downgraded Angular module, thus you
need to ' +\n
'always specify \\'downgradedModule\\' when downgrading components and
injectables.');\n
}\n
if (!$injector.has(injectionKey)) {\n
throw new Error(\"Error
while \" + attemptedAction + \": Unable to find the specified downgraded module.\\n\" +\n
'Did you
forget to downgrade an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n
break;\n
default:\n
throw new Error(\"Error while \" + attemptedAction + \": Not a
valid '@angular/upgrade' application.\\n\" +\n
'Did you forget to downgrade an Angular module or
include it in the AngularJS ' +\n
'application?');\n
}\n }\n var Deferred = /** @class */ (function
() {\n
function Deferred() {\n
var _this = this;\n
this.promise = new Promise(function (res, rej) {\n
_this.resolve = res;\n
_this.reject = rej;\n
});\n
}\n
return Deferred;\n }());\n
/**\n * @return Whether the passed-in component implements the subset of the\n * `ControlValueAccessor`
interface needed for AngularJS `ng-model`\n * compatibility.\n */\n function
supportsNgModel(component) {\n
return typeof component.writeValue === 'function' &&\n
typeof
component.registerOnChange === 'function';\n }\n /**\n * Glue the AngularJS `NgModelController` (if it
exists) to the component\n * (if it implements the needed subset of the `ControlValueAccessor` interface).\n

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```javascript
function hookupNgModel(ngModel, component) {
    if (ngModel && supportsNgModel(component)) {
        ngModel.$render = function () {
            component.writeValue(ngModel.$viewValue);
        };
        component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
        if (typeof component.registerOnTouched === 'function') {
            component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
        }
    }
}

function strictEquals(val1, val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

var INITIAL_VALUE = {__UNINITIALIZED__: true};
var DowngradeComponentAdapter = /** @class */ (function () {
    function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {
        this.element = element;
        this.attrs = attrs;
        this.scope = scope;
        this.ngModel = ngModel;
        this.parentInjector = parentInjector;
        this.$injector = $injector;
        this.$compile = $compile;
        this.$parse = $parse;
        this.componentFactory = componentFactory;
        this.wrapCallback = wrapCallback;
        this.implementsOnChanges = false;
        this.inputChangeCount = 0;
        this.inputChanges = {};
        this.componentScope = scope.$new();
    }
    DowngradeComponentAdapter.prototype.compileContents = function () {
        var _this = this;
        var compiledProjectableNodes = [];
        var projectableNodes = this.groupProjectableNodes();
        var linkFns = projectableNodes.map(function (nodes) { return _this.$compile(nodes); });
        this.element.empty();
        linkFns.forEach(function (linkFn) {
            linkFn(this.scope, function (clone) {
                compiledProjectableNodes.push(clone);
                this.element.append(clone);
            });
        });
    }
    DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
        var providers = [{ provide: $SCOPE, useValue: this.componentScope }];
        var childInjector = core.Injector.create({
            providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
        this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
        this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
        this.changeDetector = this.componentRef.changeDetectorRef;
        this.component = this.componentRef.instance;
        // testability hook is commonly added during component bootstrap in
        // packages/core/src/application_ref.bootstrapt()
        // in downgraded application, component creation will take
        // place here as well as adding the
        // testability hook.
        var testability = this.componentRef.injector.get(core.Testability, null);
        if (testability) {
            this.componentRef.injector.get(core.TestabilityRegistry).registerApplication(this.componentRef.location.nativeElement, testability);
        }
        hookupNgModel(this.ngModel, this.component);
    }
    DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
        var _this = this;
        if (propagateDigest === void 0) { propagateDigest = true; }
        var attrs = this.attrs;
        var inputs = this.componentFactory.inputs || [];
        var_loop_1 = function (i) {
            var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
            var expr = null;
            if (attrs.hasOwnProperty(input.attr)) {
                var observeFn = (function (prop) {
                    var prevValue = INITIAL_VALUE;
                    return function (currValue) {
                        // Initially, both
                        // `$observe()` and `$watch()` will call this function.
                        if (!strictEquals(prevValue, currValue)) {
                            if (prevValue === INITIAL_VALUE) {
                                prevValue = currValue;
                            }
                            _this.updateInput(prop, prevValue, currValue);
                            prevValue = currValue;
                        }
                    };
                })(input.prop);
                attrs.$observe(input.attr, observeFn);
                // Use '$watch()' (in addition to '$observe()') in order to
                // initialize the input in time
                // for 'ngOnChanges()'. This is necessary if we are already in a `$digest`,
                // which means that
                if (propagateDigest === void 0) {
                    var observeFn_1 = (function (prop) {
                        var prevValue = INITIAL_VALUE;
                        return function (currValue) {
                            // Initially, both
                            // `$observe()` and `$watch()` will call this function.
                            if (!strictEquals(prevValue, currValue)) {
                                if (prevValue === INITIAL_VALUE) {
                                    prevValue = currValue;
                                }
                            }
                        };
                    })(input.prop);
                    attrs.$observe(input.attr, observeFn_1);
                }
            }
        };
        var_loop_1();
    }
});
```
this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });

this.componentScope.$on('$destroy', function () {
    if (!_destroyed) {
        destroyed = true;
    }

    testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);

    destroyComponentRef();
}
);

DowngradeComponentAdapter.prototype.getInjector = function () {
    return this.componentRef.injector;
}

DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
    if (this.implementsOnChanges) {
        this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
    }

    this.component[prop] = currValue;

    this.inputChangeCount++;
}

DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
    return groupNodesBySelector(ngContentSelectors, this.element.contents());
};

function groupNodesBySelector(ngContentSelectors, nodes) {
    var projectableNodes = [];
    var wildcardNgContentIndex;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
        projectableNodes[i] = [];
    }
    for (var j = 0, jj = nodes.length; j < jj; ++j) {
        var node = nodes[j];
        var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex !== null) {
            projectableNodes[ngContentIndex].push(node);
        }
    }

    return projectableNodes;
}

function findMatchingNgContentIndex(element, ngContentSelectors) {
    var ngContentIndices = [];
    var wildcardNgContentIndex = -1;
    for (var i = 0; i < ngContentSelectors.length; i++) {
        var selector = ngContentSelectors[i];
        if (selector === '*') {
            wildcardNgContentIndex = i;
        }
        else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
    }

    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
        ngContentIndices.push(wildcardNgContentIndex);
    }

    return ngContentIndices.length ? ngContentIndices[0] : null;
}

function matchesSelector(el, selector) {
    if (!_matches) {
        var elProto = Element.prototype;
        _matches = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
            elProto.msMatchesSelector || elProto.oMatchesSelector || elProto.webkitMatchesSelector;
    }

    return el.nodeType === Node.ELEMENT_NODE && _matches.call(el, selector) ;
}

SyncPromise.prototype.resolve = function (value) {
    // Do nothing, if already resolved.
    if (this.resolved)
        return;

    this.value = value;
    this.resolved = true;

    this.callbacks.forEach(function (callback) { return callback(value); });

    this.callbacks.length = 0;
}

SyncPromise.prototype.then = function (callback) {
    if (this.resolved) {
        callback(this.value);
    }
    else {
        this.callbacks.push(callback);
    }
}

if (isFunction(obj.then)) {
    return new SyncPromise();
}

function SyncPromise() {
    var resolvedCount = 0;
    var results = [];
    var results[idx] = value;

    if (++resolvedCount === valuesOrPromises.length) {
        return new SyncPromise();
    }

    return this.callbacks.forEach(function (callback) {
        return callback(value);
    });
}

SyncPromise.prototype.resolve = function (value) {
    // Do nothing, if already resolved.
    if (this.resolved)
        return;

    this.value = value;
    this.resolved = true;

    Run the queued callbacks.
    this.callbacks.forEach(function (callback) { return callback(value); });
}

SyncPromise.prototype.then = function (callback) {
    if (this.resolved) {
        return callback(this.value);
    }

    this.callbacks.push(callback);

    return this.callbacks.length ? function (callback) {
        this.callbacks.push(callback);
        this.callbacks.length = 0;
        return SyncPromise.prototype.then = function (callback) {
            if (this.resolved) {
                return callback(this.value);
            }

            this.callbacks.push(callback);

            return SyncPromise.prototype.resolve = function (value) {
                return SyncPromise.prototype.resolve = function (value) {
                    // Do nothing, if already resolved.
                    if (this.resolved)
                        return;

                    this.value = value;
                    this.resolved = true;

                    Run the queued callbacks.
                    this.callbacks.forEach(function (callback) { return callback(value); });
                }(callback);
            }
        }();
    };
}

function SyncPromise() {
    var resolvedCount = 0;
    var results = [];

    if (++resolvedCount === valuesOrPromises.length) {
        return new SyncPromise();
    }

    return this.callbacks.forEach(function (callback) {
        return callback(value);
    });
}

SyncPromise.prototype.resolve = function (value) {
    // Do nothing, if already resolved.
    if (this.resolved)
        return;

    this.value = value;
    this.resolved = true;

    Run the queued callbacks.
    this.callbacks.forEach(function (callback) { return callback(value); });
}

SyncPromise.prototype.then = function (callback) {
    if (this.resolved) {
        return callback(this.value);
    }

    this.callbacks.push(callback);

    return this.callbacks.length ? function (callback) {
        this.callbacks.push(callback);
        this.callbacks.length = 0;
        return SyncPromise.prototype.then = function (callback) {
            if (this.resolved) {
                return callback(this.value);
            }

            this.callbacks.push(callback);

            return SyncPromise.prototype.resolve = function (value) {
                return SyncPromise.prototype.resolve = function (value) {
                    // Do nothing, if already resolved.
                    if (this.resolved)
                        return;

                    this.value = value;
                    this.resolved = true;

                    Run the queued callbacks.
                    this.callbacks.forEach(function (callback) { return callback(value); });
                }(callback);
            }
        }();
    };
}

function SyncPromise() {
    var resolvedCount = 0;
    var results = [];

    if (++resolvedCount === valuesOrPromises.length) {
        return new SyncPromise();
    }

    return this.callbacks.forEach(function (callback) {
        return callback(value);
    });
}

SyncPromise.prototype.resolve = function (value) {
    // Do nothing, if already resolved.
    if (this.resolved)
        return;

    this.value = value;
    this.resolved = true;

    Run the queued callbacks.
    this.callbacks.forEach(function (callback) { return callback(value); });
}

SyncPromise.prototype.then = function (callback) {
    if (this.resolved) {
        return callback(this.value);
    }

    this.callbacks.push(callback);

    return this.callbacks.length ? function (callback) {
        this.callbacks.push(callback);
        this.callbacks.length = 0;
        return SyncPromise.prototype.then = function (callback) {
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                return callback(this.value);
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                return SyncPromise.prototype.resolve = function (value) {
                    // Do nothing, if already resolved.
                    if (this.resolved)
                        return;

                    this.value = value;
                    this.resolved = true;

                    Run the queued callbacks.
                    this.callbacks.forEach(function (callback) { return callback(value); });
                }(callback);
            }
        }();
    };
}

function SyncPromise() {
    var resolvedCount = 0;
    var results = [];

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        return new SyncPromise();
    }

    return this.callbacks.forEach(function (callback) {
        return callback(value);
    });
}

SyncPromise.prototype.resolve = function (value) {
    // Do nothing, if already resolved.
    if (this.resolved)
        return;

    this.value = value;
    this.resolved = true;

    Run the queued callbacks.
    this.callbacks.forEach(function (callback) { return callback(value); });
}

SyncPromise.prototype.then = function (callback) {
    if (this.resolved) {
        return callback(this.value);
    }

    this.callbacks.push(callback);

    return this.callbacks.length ? function (callback) {
        this.callbacks.push(callback);
        this.callbacks.length = 0;
        return SyncPromise.prototype.then = function (callback) {
            if (this.resolved) {
                return callback(this.value);
            }

            this.callbacks.push(callback);

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                    // Do nothing, if already resolved.
                    if (this.resolved)
                        return;

                    this.value = value;
                    this.resolved = true;

                    Run the queued callbacks.
                    this.callbacks.forEach(function (callback) { return callback(value); });
                }(callback);
            }
        }();
    };
}

function SyncPromise() {
    var resolvedCount = 0;
    var results = [];

    if (++resolvedCount === valuesOrPromises.length) {
        return new SyncPromise();
    }

    return this.callbacks.forEach(function (callback) {
        return callback(value);
    });
}

SyncPromise.prototype.resolve = function (value) {
    // Do nothing, if already resolved.
    if (this.resolved)
        return;

    this.value = value;
    this.resolved = true;

    Run the queued callbacks.
    this.callbacks.forEach(function (callback) { return callback(value); });
}

SyncPromise.prototype.then = function (callback) {
    if (this.resolved) {
        return callback(this.value);
    }

    this.callbacks.push(callback);

    return this.callbacks.length ? function (callback) {
        this.callbacks.push(callback);
        this.callbacks.length = 0;
        return SyncPromise.prototype.then = function (callback) {
            if (this.resolved) {
                return callback(this.value);
            }

            this.callbacks.push(callback);

            return SyncPromise.prototype.resolve = function (value) {
                return SyncPromise.prototype.resolve = function (value) {
                    // Do nothing, if already resolved.
                    if (this.resolved)
                        return;

                    this.value = value;
                    this.resolved = true;

                    Run the queued callbacks.
                    this.callbacks.forEach(function (callback) { return callback(value); });
                }(callback);
            }
        }();
    };
}
Examples

Let’s assume that you have an Angular component called ‘ng2Heroes’ that needs to be made available in AngularJS templates. We must create an AngularJS [directive](https://docs.angularjs.org/api/ng/type/Directive#directive) that will make this Angular component available inside AngularJS templates. The `\downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `\downgradedComponent` component.

Notes:

- `finalModuleInjector` and `finalParentInjector` use the same tree as the `NgModule` that the moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;

More details and examples on downgrading Angular components to AngularJS components please visit [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs-code).

When using `\downgradeModule()`, we need to handle certain things specially. For example:

- We always need to attach the component view to the ApplicationRef for it to be available for the Angular zone.

NOTE: This is not needed, when using `\UpgradeModule`, because `\$digest()` will be run inside the Angular zone (except if explicitly escaped, in which case we shouldn’t.

force it back in).

var moduleInjector = undefined;
var ranAsync = false;

if (!parentInjector || hasMultipleDowngradedModules) {
    moduleInjector = lazyModuleRef.lazyModuleRefKey, attemptedAction);
    var lazyModuleRef = $injector.get(lazyModuleRefKey);
    moduleInjector = lazyModuleRef.injector[ lazyModuleRef.promise ]
}

// There are two injectors: 'finalModuleInjector' and 'finalParentInjector' (they might be the same instance, but that is irrelevant):

// - `finalModuleInjector` is used to retrieve 'ComponentFactoryResolver', thus it must be on the same tree as the 'NgModule' that declares this downgraded component:

// when looking for an injectable and then switch to the module injector.)

purposes.

(Note that Angular knows to only traverse the component-tree part of that injector, when looking for an injectable and then switch to the module injector.)
There are basically three cases:
- If there is no parent component (thus no `parentInjector`), we
  bootstrap the downgraded
  `NgModule` and use its injector as both `finalModuleInjector` and
  `finalParentInjector`.
- If there is a parent component (and thus a `parentInjector`) and we
  are sure that it belongs to the same `NgModule` as this downgraded component (e.g., because there
  is only one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and
  `finalParentInjector`).
- If there is a parent component, but it may belong to a different
  `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded
  component's declaring `NgModule`'s injector as `finalModuleInjector`.

Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).

Note 2: It is possible that (while there are multiple downgraded modules) this
  downgraded component and its parent component both belong to the same `NgModule`.

In that case, we could have used the `parentInjector` as both `finalModuleInjector` and
  `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different
  `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor
  and trying to resolve `ComponentFactoryResolver` from either one will return
  the same instance.

If there is a parent component, use its injector as parent

In this case, we could have used the `parentInjector` as both `finalModuleInjector` and
  `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different
  `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor
  and trying to resolve `ComponentFactoryResolver` from either one will return
  the same instance.

If there is a parent component, use its injector as parent

var finalParentInjector = parentInjector; var moduleInjector = moduleInjector || parentInjector; var componentFactoryResolver = moduleInjector.get(core.ComponentFactoryResolver); var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component); var injectorPromise = new ParentInjectorPromise(element);

var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback); var projectableNodes = facade.compileContents(); facade.createComponent(projectableNodes);

facades.setupInputs(isNgUpgradeLite, componentFactory); facade.createComponent(projectableNodes);

facades.setupOutputs(); facade.registerCleanup();

injectorPromise.resolve(facade.getInjector()); if (ranAsync) {
    // If this is run
    // digest and initial input values will not be

detected.

    scope.$evalAsync(function () { });
}

var downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {
    if (!ngZone)
        ngZone = pInjector.get(core.NgZone);

wrapCallback(function () { return doDownGrade(pInjector, mInjector); }());
}

NOTE:
- Not using `ParentInjectorPromise.all` (which is inherited from `SyncPromise`), because
  closure Compiler (or some related tool) complains:

    // TypeError:
    _Src downgrade_component_ParentInjectorPromise.all is not a function

    SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function (_, a) {
        var _b = _read(a, 2), pInjector = _b[0], mInjector = _b[1]; return downgradeFn(pInjector, mInjector);
    }, ranAsync = true);
_this.injectorKey = controllerKey(INJECTOR_KEY); // Store the promise on the element.
_element.data(_this.injectorKey, _this); // Store the real injector on the element.
this.element.data(this.injectorKey, injector); // Release the element to prevent memory leaks.
this.element = null; // Resolve the promise.
_super.prototype.resolve.call(this, injector); // return ParentInjectorPromise;
}(SyncPromise));
/**
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 * found in the LICENSE file at
 * https://angular.io/license
 */

_license\n
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 */

/* */
* @license
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 * found in the LICENSE file at
 * https://angular.io/license
 */

/**
 * @description
 *
 * A helper function to allow an Angular
 * service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)*
 * library for hybrid upgrade apps that support AOT compilation
 * This helper function returns a factory
 * that provides access to the Angular
 * service identified by the `token` parameter.
 *
 * @usageNotes
 * ### Examples
 *
 * Inside an AngularJS component's controller we can get hold of the
 * downgraded service via the name we gave when
downgrading.
 * it is _not OK_ to use it in an AngularJS component that may be
 * used independently of Angular or
 * use it in a downgraded Angular component from a different module.
 */

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 * found in the LICENSE file at
 * https://angular.io/license
 */

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 * found in the LICENSE file at
 * https://angular.io/license
 */

// Constants
var REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Classes
var UpgradeHelper = /** @class */ (function () {
    function UpgradeHelper(injector, name, elementRef, directive) {
        this.injector = injector;
        this.name = name;
        this.$injector = injector.get($INJECTOR);
        this.$compile = this.$injector.get($COMPILE);
        this.$controller = this.$injector.get($CONTROLLER);
        this.element = elementRef.nativeElement;
        this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
    }

    UpgradeHelper.getDirective = function ($injector, name) {
        var directives = $injector.get(name +
            upgrade/static/ts/full/module.ts region="\ng2-heroes-service\"");

        // Now we can register the 'downgradeInjectable'
        // factory function for the service
        // on an AngularJS module.
        var
        // @example upgrade/static/ts/full/module.ts region="\ndowngrade-ng2-heroes-service\"
        // Inside an AngularJS component's controller we can get hold of the
        // downgraded service via the name we gave when
downgrading.
        // it is _not OK_ to use it in an AngularJS component that may be
        // used independently of Angular or
        // use it in a downgraded Angular component from a different module.
        // @param token an `InjectionToken` that identifies a service provided from Angular.
        // Use of this source code is governed by a MIT-style license that can be
        // found in the LICENSE file at
        // https://angular.io/license
        // Classes
        var UpgradeHelper = /** @class */ (function () {
            function UpgradeHelper(injector, name, elementRef, directive) {
                this.injector = injector;
                this.name = name;
                this.$injector = injector.get($INJECTOR);
                this.$compile = this.$injector.get($COMPILE);
                this.$controller =
                this.$injector.get($CONTROLLER);
                this.element = elementRef.nativeElement;
                this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
            }

            UpgradeHelper.getDirective = function ($injector, name, attemptedAction); 
            var injector = $injector.get(injector); 
            return injector.get(token); 
            }];

            var factory = function ($injector) {
            var injectorKey = "" + INJECTOR_KEY +
            downgradedModule;
            var attemptedAction = "instantiating injectable '" + injectableName + "'";
            validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
            var factory = function ($injector) {
            var injectorKey = "" + INJECTOR_KEY +
            downgradedModule;
            var attemptedAction = "instantiating injectable '" + injectableName + "'";
            validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
            var injector = $injector.get(injectorKey); 
            }];

            var factory = function ($injector) {
            var injectorKey = "" + INJECTOR_KEY +
            downgradedModule;
            var attemptedAction = "instantiating injectable '" + injectableName + "'";
            validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
            var injector = $injector.get(injectorKey); 
            }];

            var factory = function ($injector) {
            var injectorKey = "" + INJECTOR_KEY +
            downgradedModule;
            var attemptedAction = "instantiating injectable '" + injectableName + "'";
            validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
            var injector = $injector.get(injectorKey); 
            }];
'Directive');
        if (directives.length > 1) {
            throw new Error("Only support single directive definition for: "+ name); // AngularJS will transform 'link: xyz' to 'compile: () => xyz'. So we can only tell there was a
        } else if (directive.replace !== undefined) {
            notSupported(name, 'replace');
        } else if (directive.terminal)
            notSupported(name, 'terminal');
        return directive;
    };

    UpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {
        if (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false; }
        if (directive.template !== undefined) {
            return getOrCall(directive.template, $element);
        }
        else if (directive.templateUrl) {
            var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
            var url_1 = getOrCall(directive.templateUrl, $element);
            var template = $templateCache_1.get(url_1);
            if (template !== undefined) {
                return template;
            }
            else if (!fetchRemoteTemplate) {
                throw new Error('loading directive templates asynchronously is not supported');
            }
            return new Promise(function (resolve, reject) {
                var $httpBackend = $injector.get($HTTP_BACKEND);
                $httpBackend('GET', url_1, null, function (status, response) {
                    if (status === 200) {
                        resolve($templateCache_1.put(url_1, response));
                    }
                    else {
                        reject("GET component template from '" + url_1 + "' returned '" + status + ": " + response + ";");
                    }
                });
            });
        }
        else {
            throw new Error("Directive '" + directive.name + "' is not a component, it is missing template.");
        }
    };
    UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
        // TODO:
        // Document that we do not pre-assign bindings on the controller instance.
        // Quoted properties below so that this code can be optimized with Closure Compiler.
        var locals = { '$scope': $scope, '$element': this.$element, '$controller': controllerType, '$controllerAs': this.directive.controllerAs };
        this.$controller(controllerType, locals, null, this.directive.controllerAs);
        this.$element.data(controllerKey(this.directive.name), controller);
        return controller;
    };
    UpgradeHelper.prototype.compileTemplate = function (template) {
        if (template === undefined) {
            template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);
        }
        return this.compileHtml(template);
    };
    UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {
        if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
            controllerInstance.$onDestroy();
        }
        $scope.$destroy();
        // Clean the jQuery/jqLite data on the component+child elements.
        // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element.
        this.element.cleanData([this.element]);
        this.element.cleanData(this.element.querySelectorAll('*'));
    };
    UpgradeHelper.prototype.prepareTransclusion = function () {
        var _this = this;
        var transclude = this.directive.transclude;
        var contentChildNodes = this.extractChildNodes();
        var attachChildrenFn = function (scope, cloneAttachFn) {
            // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
            // `Template` is empty. Since the transcluded content comes from Angular, not AngularJS, if
            // there will be no transclusion scope here. // Provide a dummy
            // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
            // `scope.$destroy()` will invoke the AngularJS `$destroy` DOM event //
            // for AngularJS's DOM event //
            var filledSlots_1 = Object.create(null);
            // Parse the element selectors.
            Object.keys(transclude).forEach(function (slotName) {
                var selector = transclude[slotName];
                var filledSlots_1 = Object.create(null);
                // Parse the element selectors.
                Object.keys(transclude).forEach(function (slotName) { var selector = transclude[slotName];
            });
        });
   );
var optional = selector.charAt(0) === '?';\n
selector = optional ? selector.substring(1) :
selector;\n
slotMap_1[selector] = slotName;\n
slots_1[slotName] = null; // `null`:
Defined but not yet filled.\n
filledSlots_1[slotName] = optional; // Consider optional slots as filled.\n
});\n
// Add the matching elements into their slot.\n
contentChildNodes.forEach(function (node) {\n
var slotName =
slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];\n
if (slotName) {\n
filledSlots_1[slotName] = true;\n
slots_1[slotName] = slots_1[slotName] || [];\n
slots_1[slotName].push(node);\n
}\n
else {\n
$template.push(node);\n
}\n
});\n
// Check for required slots that were not filled.\n
Object.keys(filledSlots_1).forEach(function (slotName) {\n
if (!filledSlots_1[slotName]) {\n
throw new Error(\"Required transclusion slot '\" + slotName + \"' on directive: \" + _this.name);\n
}\n
});\n
Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName];
}).forEach(function (slotName) {\n
var nodes = slots_1[slotName];\n
slots_1[slotName]
= function (scope, cloneAttach) {\n
return cloneAttach(nodes, scope);\n
};\n
});\n
}\n
// Attach `$$slots` to default slot transclude fn.\n
attachChildrenFn.$$slots =
slots_1;\n
// AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular\n
// removes all text content after the first interpolation and updates it later, after\n
// evaluating the
expressions. This would result in AngularJS failing to recognize text\n
// nodes that start with an
interpolation as transcluded content and use the fallback\n
// content instead.\n
// To avoid this
issue, we add a\n
// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_nonjoiner)\n
// to empty text nodes (which can only be a result of Angular removing their initial content).\n
// NOTE: Transcluded text content that starts with whitespace followed by an interpolation\n
//
will still fail to be detected by AngularJS v1.6+\n
$template.forEach(function (node) {\n
if
(node.nodeType === Node.TEXT_NODE && !node.nodeValue) {\n
node.nodeValue = '\\u200C';\n
}\n
});\n
}\n
return attachChildrenFn;\n
};\n
UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {\n
var
directiveRequire = this.getDirectiveRequire();\n
var requiredControllers =
this.resolveRequire(directiveRequire);\n
if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) {\n
var requiredControllersMap_1 = requiredControllers;\n
Object.keys(requiredControllersMap_1).forEach(function (key) {\n
controllerInstance[key] =
requiredControllersMap_1[key];\n
});\n
}\n
return requiredControllers;\n
};\n
UpgradeHelper.prototype.compileHtml = function (html) {\n
this.element.innerHTML = html;\n
return
this.$compile(this.element.childNodes);\n
};\n
UpgradeHelper.prototype.extractChildNodes = function ()
{\n
var childNodes = [];\n
var childNode;\n
while (childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n
childNodes.push(childNode);\n
}\n
return
childNodes;\n
};\n
UpgradeHelper.prototype.getDirectiveRequire = function () {\n
var require =
this.directive.require || (this.directive.controller && this.directive.name);\n
if (isMap(require)) {\n
Object.keys(require).forEach(function (key) {\n
var value = require[key];\n
var match =
value.match(REQUIRE_PREFIX_RE);\n
var name = value.substring(match[0].length);\n
if
(!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n
return
require;\n
};\n
UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n
var _this = this;\n
if (!require) {\n
return null;\n
}\n
else if (Array.isArray(require)) {\n
return require.map(function (req) { return _this.resolveRequire(req); });\n
}\n
else if (typeof
require === 'object') {\n
var value_1 = {};\n
Object.keys(require).forEach(function (key) { return
value_1[key] = _this.resolveRequire(require[key]); });\n
return value_1;\n
}\n
else if (typeof
require === 'string') {\n
var match = require.match(REQUIRE_PREFIX_RE);\n
var inheritType
= match[1] || match[3];\n
var name_1 = require.substring(match[0].length);\n
var isOptional =
!!match[2];\n
var searchParents = !!inheritType;\n
var startOnParent = inheritType === '^^';\n

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var ctrlKey = controllerKey(name_1);
var elem = startOnParent ? this.$element.parent() : this.$element;
var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);
if (!value && !isOptional) {
throw new Error("Unable to find required 'value' + require + 'value' in upgraded directive 'value' + this.name + 'value'");
}

return UpgradeHelper();
})

function getOrCall(property) {
var args = [];
for (var _i = 1; _i < arguments.length; _i++) {
args[_i - 1] = arguments[_i];
}
return isFunction(property) ? property.apply(void 0, _spread(args)) : property;
}

function isMap(value) {
return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name, feature) {
throw new Error("Upgraded directive '" + name + "' contains unsupported feature: '" + feature + "'.");
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

function isMap(value) {
return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name, feature) {
throw new Error("Upgraded directive '" + name + "' contains unsupported feature: '" + feature + "'.");
}

UpgradeNg1ComponentAdapterBuilder = /** @class */ (function () {
constructor(name) {
this.name = name;
this.inputs = [];
this.inputsRename = [];
this.outputs = [];
this.outputsRename = [];
this.propertyOutputs = [];
this.checkProperties = [];
this.propertyMap = {};
this.directive = null;
var selector = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });
var self = this;
// Note: There is a bug in TS 2.4 that prevents us from using
// inlining this into @Directive
// TODO(tbosch): find or file a bug against TypeScript for this.
var MyClass = /** @class */ (function (_super) {
__extends(MyClass, _super);
function MyClass(scope, injector, elementRef) {
var _this = this;
_this = _super.call(_this, new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, injector, core.ElementRef) || this;
return _this;
}
MyClass = __decorate([core.Directive(__assign({ jit: true }, directive)),
__param(0, core.Inject($SCOPE)),
__metadata("design:paramtypes", [Object, core.Injector, core.ElementRef])
], MyClass);
return MyClass;
})(UpgradeNg1ComponentAdapterBuilder);
```
    _this.propertyOutputs.push(outputName);
    break;
    case '&':
        _this.outputs.push(outputName);
        _this.outputsRename.push(outputNameRename);
        _this.propertyMap[outputName] = propName;
        break;
    default:
        var json = JSON.stringify(context);
        throw new Error("Unexpected mapping '" + bindingType + "' in " + propName + "+ bindingType + "' in " + this.name + "+ directive.');\n    }\n}\n
/**
 * Upgrade ng1 components into Angular.
 */
UpgradeNg1ComponentAdapterBuilder.resolve = function (exportedComponents, $injector) {
    var promises =
    Object.keys(exportedComponents).map(function (name) {
        var exportedComponent =
        exportedComponents[name];
        exportedComponent.directive = UpgradeHelper.getDirective($injector,
        name);\n        exportedComponent.extractBindings();\n        return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true));\n    }).then(function (template) { return exportedComponent.template = template; });\n    return Promise.all(promises);\n}

UpgradeNg1ComponentAdapter = /** @class */ (function () {
    function UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs, propOuts, checkProperties, propertyMap) {
        this.helper = helper;\n        this.template = template;\n        this.inputs = inputs;\n        this.outputs = outputs;\n        this.propOuts = propOuts;\n        this.checkProperties = checkProperties;\n        this.propertyMap = propertyMap;\n        this.controllerInstance = null;\n        this.destinationObj = null;\n        this.checkLastValues = [];\n        this.$element = null;\n        this.directive = helper.directive;\n        this.element = helper.element;\n        this.$element = helper.$element;\n        this.componentScope = scope.$new();\n        var controllerType = this.directive.controller;\n        if (this.directive.bindToController && controllerType) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);\n            this.destinationObj = this.controllerInstance;\n        }\n        else {
            this.destinationObj = this.componentScope;\n        }\n        for (var i = 0; i < inputs.length; i++) {
            this[inputs[i]] = null;\n        }\n        for (var j = 0; j < outputs.length; j++) {
            var emitter = this[outputs[j]] = new core.EventEmitter();\n            if (this.propOuts.indexOf(outputs[j]) === -1) {
                this.setComponentProperty(outputs[j], (function (emitter) { return function (value) { return emitter.emit(value); }; })(emitter));\n            }\n        }\n        for (var k = 0; k < propOuts.length; k++) {
            this.checkLastValues.push(INITIAL_VALUE$1);\n        }\n    }

    UpgradeNg1ComponentAdapter.prototype.ngOnInit = function () {
        // Collect contents, insert and compile template
        var attachChildNodes = this.helper.prepareTransclusion();\n        var linkFn =
        this.helper.compileTemplate(this.template);\n        // Instantiate controller (if not already done so)
        var controllerType = this.directive.controller;\n        var bindToController = this.directive.bindToController;\n        if (controllerType && !bindToController) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);\n        }\n        else {
            this.destinationObj = this.componentScope;\n        }\n        // Require other controllers
        var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n
        // Hook: $onInit
        if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n            this.controllerInstance.$onInit();\n        }\n
        // Linking
        var var link = this.directive.link;\n        var preLink = typeof link == 'object' && link.pre;\n        var postLink = typeof link == 'object' ? link.post : link;\n        var attrs = NOT_SUPPORTED;\n        var transcludeFn = NOT_SUPPORTED;\n        if (preLink) {\n            preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n        }\n
        if (postLink) {\n            postLink(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });\n        }\n
        // Hook: $postLink
        if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {\n            this.controllerInstance.$postLink();\n        }\n
        UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {\n            var _this = this;\n            var ng1Changes = {};
            Object.keys(changes).forEach(function (name) {\n                var change = changes[name];\n                _this.propertyOutputs.push(outputName);
            });\n        }\n```
ng1Changes[_.this.propertyMap[name]] = change; }\n        }\n    }\n    if (isFunction(this.destinationObj.$onChanges)) {
        this.destinationObj.$onChanges(ng1Changes);
    }

    var destinationObj = this.destinationObj; var lastValues = this.checkLastValues; var checkProperties = this.checkProperties; var propOuts = this.propOuts;

    checkProperties.forEach(function (propName, i) {
        var value = destinationObj[propName]; var last = lastValues[i]; if (isStrictEquals(last, value)) {
            var eventEmitter = this[propOuts[i]]; eventEmitter.emit(lastValues[i] = value);
        }
    });
    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }

    UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
        this.helper.onDestroy(this.componentScope, this.controllerInstance); }

    UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {
        this.destinationObj[_.this.propertyMap[name]] = value;
    };

    return UpgradeNg1ComponentAdapter;\n
/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

upgradeCount = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a
 * single application. *
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from
 * AngularJS component directive
 * (See `UpgradeAdapter#upgradeNg1Component()`)
 * 2. creation of
 * AngularJS directive from Angular component.
 * (See `UpgradeAdapter#downgradeNg2Component()`)
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 * coexisting in a single application.
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level.
 * There are two independent frameworks running in a single application, each framework treat's
 * the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework
 * instantiated the element is the owner. Each framework only updates/interacts with its own
 * DOM elements and ignores others. *
 * AngularJS directives always execute inside AngularJS framework codebase regardless of
 * where they are instantiated. *
 * Angular components always execute inside Angular framework codebase regardless of
 * where they are instantiated. *
 * AngularJS component can be upgraded to an Angular component. This creates
 * Angular directive, which bootstraps the AngularJS component directive in that location.
 * An Angular component can be downgraded to an AngularJS component directive. This creates
 * an AngularJS directive, which bootstraps the Angular component in that location. Whenever an adapter component is instantiated
 * the host element is owned by the framework
 * * doing the instantiation. The other framework then instantiates and owns the view for that
 * component. This implies that component bindings will always follow the
 * semantics of the
 * instantiation framework. The syntax is always that of Angular syntax. *
 * AngularJS is always bootstrapped first and owns the bottom most view.
 * The new application is running in Angular zone, and therefore it no longer needs calls to
 * `$apply()`. *
 * * `UpgradeAdapter` allows AngularJS and Angular to coexist in a
 * single application.

const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions); const module = angular.module('myExample', []); module.directive('ng2Comp', (adapter, downgradeNg2Component(Ng2Component)) => {
    module.directive('ng2Comp', (adapter, downgradeNg2Component(Ng2Component)) => {
        $scope: { title: '=' },
        template: 'ng2[Hello {{title}}](<span ng-transclude></span>)',
        templateUrl: 'ng2[<ng1-hello title][name]="name\"\<transclude\<ng1-hello>{
            $content: "$content")
        },
        class: Ng2Component, adapter.upgradeNg1Component('ng1[Hello]')],
        // imports: [BrowserModule]\n    }\n    class MyNg2Module { }
    $scope: { title: 'World\"\{myExample\}', ready: function() { expect(document.body.textContent).toEqual('ng2[ng1[Hello

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World![(transclude)\(\text{project})\};n * ]];n * \n * \n * * \n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).n * @publicApi n * \n var UpgradeAdapter = /** @class */ (function () {n * });
 UpgradeAdapter(ng2AppModule, compilerOptions) {n * this.ng2AppModule = ng2AppModule;n * this.compilerOptions = compilerOptions;n * this.idPrefix = 'NG2_UPGRADE_"' + upgradeCount++ + \n"_\";n * this.downgradedComponents = [];n * /*n * An internal map of ng1 components which
need to up upgraded to ng2.
 * We can't upgrade until injector is instantiated and we can retrieve
the component metadata.n * For this reason we keep a list of components to upgrade until ng1 injector is
bootstrapped.n * @internal n * this.ng1ComponentsToBeUpgraded = {};n * this.upgradedProviders = [];
this.moduleRef = null;
throw new Error('UpgradeAdapter cannot be upgraded without an NgModule of the Angular app.\n'}

UpgradeAdapter.prototype.downgradeNg2Component = function (component) {
    this.downgradedComponents.push(component);
    return downgradeComponent({ component: component });

UpgradeAdapter.prototype.upgradeNg1Component = function (component) {
    return upgradeComponent({ component: component });
}

document.body.innerHTML =
    'ng1 template: <greet salutation="Hello" [name]="world">text</greet>';
'attrs' and 'transclude' is not supported.

- 'controllerAs': supported.
- 'bindToController': supported.
- 'link': supported. (NOTE: only pre-link function is supported.)
- 'name': supported.
- 'priority': ignored.
- 'replace': not supported.
- 'require': supported.
- 'restrict': must be set to 'E'.
- 'scope': supported.
- 'template': supported.
- 'templateUrl': supported.
- 'terminal': ignored.
- 'transclude': supported.

### Example
```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});
module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1', function() {
  return {
    scope: { title: '=' },
    templateUrl: "ng1 template: <greet salutation="Hello" [name]="world">text</greet>"
  };
});
```

```
```
rootScopePrototype; var rootScope;
var upgradeAdapter = this;
var ng1Module = this.ng1Module = module_(this.idPrefix, modules);
var platformRef = platformBrowserDynamic.platformBrowserDynamic();
this.ngZone = new core.NgZone(
   enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec') ));
this.ng2BootstrapDeferred = new Deferred();
ng1Module.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)
.factory(INJECTOR_KEY, function () { return _this.moduleRef.injector.get(core.Injector); });
.factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }]);
.constant(NG_ZONE_KEY, this.ngZone);
.factory(COMPILER_KEY, function () { return
   _this.moduleRef.injector.get(core.Compiler); });
.config(['$provide', 'Injector', function (provide, injector) {
   provide.decorator($ROOT_SCOPE, ['$delegate',
      function (rootScopeDelegate) { // Capture the root apply so that we can delay first
call to Sapply until we'n
      // bootstrap Angular and then we replay and restore the Sapply.
   rootScopePrototype = rootScopeDelegate.constructor.prototype;
   if
   rootScopePrototype.hasOwnProperty('$apply') {
      original$applyFn =
   rootScopePrototype.$apply = function (exp) { return
   delayApplyExps.push(exp); };
   } else {
      throw new
   Error('Failed to find \'$apply\' on \'$rootScope\'!');
   }
   return rootScope =
   rootScopeDelegate; // Capture the root apply so that we can delay first
call to Sapply until we'n
   // bootstrap Angular and then we replay and restore the Sapply.
   });
   return testabilityDelegate;
},
   var originalWhenStable = testabilityDelegate.whenStable;
   // Cannot use arrow function below because we need the context
   // var newWhenStable =
   function (callback) { return
   originalWhenStable.call(this, function () {
   var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
};
ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) {
   UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector)
   .then(function () { // Note: There is a bug in TS 2.4 that prevents us from
   // inlining
   this into @NgModule
   // TODO(tbosch): find or file a bug against TypeScript for this.
   var ngModule = { providers: ['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
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   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
   if
   (ng2Testability.isStable()) { return
   callback.apply(this, arguments); };
   };
 ];
   ng1Module.run(['$injector', '$rootScope',
   function (ng1Injector, rootScope) { var ng2Testability = upgradeAdapter.moduleRef.in
(delayApplyExps.length) {
    rootScope.$apply(delayApplyExps.shift());
}

rootScopePrototype = null;

.then(function () {
    return _this.ng2BootstrapDeferred.resolve(ng1Injector); }, onError)

.then(function () {
    // wait for the rootScope.$evalAsync to complete
    var subscription = _this.ngZone.onMicrotaskEmpty.subscribe({
        next: function () {
            if (rootScope.$$phase) {
                return rootScope.$digest();
            }

            if (core.isDevMode()) {
                console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
            }

            return rootScope.$$phase ? rootScope.$digest() : rootScope.$evalAsync(function () { });
        }
    });

    rootScope.$on('$destroy', function () { subscription.unsubscribe(); });
}

.catch(function (e) { return _this.ng2BootstrapDeferred.reject(e); });

})

return rootScope.$digest();

ng1Module = null;

.then(function () {
    return UpgradeAdapter.$promisify();
})

.catch(function (e) { return _this.ng2BootstrapDeferred.reject(e); });

})

return ng1Module;

}

return UpgradeAdapter;

/**
 * Synchronous promise-like object to wrap
 * parent injectors, * to preserve the synchronous nature of AngularJS's $compile.
 */

ParentInjectorPromise$1 = /** @class */ (function () {
    function ParentInjectorPromise(element) {
        this.element = element;
        this.callbacks = [];
        // store the promise on the element
        element.data(controllerKey(INJECTOR_KEY), this);
    }
    ParentInjectorPromise.prototype.then = function (callback) {
        if (this.injector) {
            callback(this.injector);
        }
        else {
            this.callbacks.push(callback);
        }
    };
    ParentInjectorPromise.prototype.resolve = function (injector) {
        this.injector = injector;
        // reset the element data to point to the real injector
        this.element.data(controllerKey(INJECTOR_KEY), injector);
        // clean out the element to prevent memory leaks
        this.element = null;
        // run all the queued callbacks
        this.callbacks.forEach(function (callback) { return callback(injector); });
        this.callbacks.length = 0;
    };
    return ParentInjectorPromise;

});

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular
 * application.
 *
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 */

UpgradeAdapterRef = /** @class */ (function () {
    function UpgradeAdapterRef() {
        // @internal
        this._readyFn = null;
        this.ng1RootScope = null;
        this.ng1Injector = null;
        this.ng2ModuleRef = null;
        this.ng2Injector = null;
    }
    /* @internal */
    UpgradeAdapterRef.prototype._bootstrapDone = function (ngModuleRef, ng1Injector) {
        this.ng2ModuleRef = ngModuleRef;
        this.ng2Injector = ngModuleRef.injector;
        this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
        this.ng1Injector = ng1Injector;
        this.ng2ModuleRef = ng1Injector; // get the `injector` from the rootScope
        this.ng1RootScope = ng1Injector.get($ROOT_SCOPE); // get the `injector` from the rootScope
        this._readyFn = fn;
        this._readyFn && this._readyFn(this);
    };
    /**
     * Register a callback function which is notified upon successful hybrid AngularJS / Angular
     * application has been bootstrapped.
     * The `ready` callback function is invoked inside the Angular zone, therefore it does not
     * require a call to `$apply()`. * Application can be configured to run
     * * @n * @n
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     */

    exports.UpgradeAdapter = UpgradeAdapter;
    exports.UpgradeAdapterRef = UpgradeAdapterRef;

    exports.VERSION = VERSION;

    Object.defineProperty(exports, '__esModule', { value: true });

});
zip/bundles/upgrade.umd.min.js.map
No license file was found, but licenses were detected in source scan.
{"version":3,"file":"upgradestatic.umd.js","sources":["../../../../../../../packages/upgrade/src/common/src/angular1.ts","../../../../../external/npm/nod
e_modules/tslib/tslib.es6.js","../../../../../../../packages/upgrade/src/common/src/constants.ts","../../../../../../../packages/
upgrade/src/common/src/component_info.ts","../../../../../../../packages/upgrade/src/common/src/util.ts","../../../../../../..
/packages/upgrade/src/common/src/downgrade_component_adapter.ts","../../../../../../../packages/upgrade/src/commo
n/src/promise_util.ts","../../../../../../../packages/upgrade/src/common/src/downgrade_component.ts","../../../../../../../pa
ts","../../../../../../packages/upgrade/static/src/angular1_providers.ts","../../../../../../packages/upgrade/static/src/util.ts","
../../../../../../packages/upgrade/static/src/downgrade_module.ts","../../../../../../../packages/upgrade/src/common/src/up
grade_helper.ts","../../../../../../packages/upgrade/static/src/upgrade_component.ts","../../../../../../packages/upgrade/stat
ic/src/upgrade_module.ts","../../../../../../packages/upgrade/static/public_api.ts","../../../../../../packages/upgrade/static/i
ndex.ts","../../../../../../packages/upgrade/static/static.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google
Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n */\n\nexport type Ng1Token = string;\n\nexport type
Ng1Expression = string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions
of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not
compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function
extends{$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token |
Function)[] | IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport
interface IModule {\n name: string;\n requires: (string|IInjectable)[];\n config(fn: IInjectable): IModule;\n
directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent):
IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable):
IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n
run(a: IInjectable): IModule;\n}\nexport interface ICompileService {\n (element: Element|NodeList|Node[]|string,
transclude?: Function): ILinkFn;\n}\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?:
ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]:
ILinkFn};\n}\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n
transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\nexport interface
IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n
$watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any,
...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n
$evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void):
Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\nexport
interface IScope extends IRootScopeService {}\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean;
}\nexport interface IDirective {\n compile?: IDirectiveCompileFn;\n controller?: IController;\n controllerAs?:
string;\n bindToController?: boolean|{[key: string]: string};\n link?: IDirectiveLinkFn|IDirectivePrePost;\n name?:
string;\n priority?: number;\n replace?: boolean;\n require?: DirectiveRequireProperty;\n restrict?: string;\n
scope?: boolean|{[key: string]: string};\n template?: string|Function;\n templateUrl?: string|Function;\n
templateNamespace?: string;\n terminal?: boolean;\n transclude?: DirectiveTranscludeProperty;\n}\nexport type
DirectiveRequireProperty = SingleOrListOrMap<string>;\nexport type DirectiveTranscludeProperty = boolean |
'element' | {[key: string]: string};\nexport interface IDirectiveCompileFn {\n (templateElement:
IAugmentedJQuery, templateAttributes: IAttributes,\n transclude: ITranscludeFunction):
IDirectivePrePost;\n}\nexport interface IDirectivePrePost {\n pre?: IDirectiveLinkFn;\n post?:
IDirectiveLinkFn;\n}\nexport interface IDirectiveLinkFn {\n (scope: IScope, instanceElement: IAugmentedJQuery,
instanceAttributes: IAttributes,\n controller: any, transclude: ITranscludeFunction): void;\n}\nexport interface

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UpgradeAppType.None;\n]unexport function isFunction(value: any): value is Function {\n  return typeof value === 'function';\n}\nunexport function validateInjectionKey(\n    \n    Sinjector: InjectorService, \n    downgradedModule: string, \n    injectionKey: string, \n) \n    void {\n      const upgradeAppType = getUpgradeAppType(Sinjector);\n      const downgradedModuleCount = getDowngradedModuleCount(Sinjector);\n      if (upgradeAppType === UpgradeAppType.None) {\n        throw new Error('UpgradeAppType.None');\n      } else if (downgradedModuleCount >= 2) {\n        throw new Error('More than one Angular module is downgraded');\n      } else if (typeof $injector === 'undefined') {\n        throw new Error('AngularJS not included, cannot downgrade');\n      } else {\n        throw new Error('Cannot downgrade angular module');\n      }\n    }\n\nexport function isFunction(value: any): value is Function {
  return typeof value === 'function';
}\n
export function validateInjectionKey(
    $injector: IInjectorService, \n    upgradedModule: string, \n    injectionKey: string, \n    attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {\n    case UpgradeAppType.None: \n      throw new Error('UpgradeAppType.None');\n    case UpgradeAppType.Dynamic: \n      if (downgradedModuleCount & 1) {\n        throw new Error('Dynamic downgrade failed');\n      } \n      break;
    case UpgradeAppType.Lite: \n      if (downgradedModuleCount > 2) {\n        throw new Error('More than one downgraded module');\n      } \n      if (!$injector.has(injectionKey)) {\n        throw new Error('Unable to find the specified downgraded module');\n      } \n      break;
    default:
      throw new Error('Unknown UpgradeAppType');\n  }\n}\n
export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve!: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}\n
export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}\n
export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // ngUpgrade app.)\n  None,\n
  // App using the deprecated `@angular/upgrade` API(s) (a.k.a. dynamic
  // `ngUpgrade`).\n  Dynamic,\n
  // App using `@angular/upgrade/static` with `UpgradeModule`\n  Static,\n
  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite)\n  Lite,
}\n
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 * found in the LICENSE file at https://angular.io/license
 */

import {ApplicationRef, ChangeDetectorRef, \n ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, \n StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes, \n IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from
'./angular1';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;

  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  //
TODO(issue/24571): remove `!`.  

```typescript
private viewChangeDetector!: ChangeDetectorRef;
constructor(private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel: INgModelController, private parentInjector: Injector,
private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] | null |
      const compiledProjectedNodes: Node[][] | [];
    this.viewChangeDetector.markForCheck();
    this.component = this.componentRef.instance;
    this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);
    this.viewChangeDetector.markForCheck();
    this.componentScope.$watch(() => this.inputChangeCount,
        this.wrapCallback(() => {
          // Invoke `ngOnChanges()` and Change Detection
          when necessary
        }));
  }

  setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
      let unwatch: Function|null = null;
      if (expr != null) {
        const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
        this.componentScope.$watch(expr, watchFn);
      }
    }

    // Invoke `ngOnChanges()` and Change Detection
    when necessary
    (this.viewChangeDetector == null) {

      // If opted out of propagating digests, invoke change detection
      when inputs change.
      detectChanges();
    }

    this.viewChangeDetector.markForCheck();
    // If not opted out of
propagating digests, invoke change detection on every digest
if (propagateDigest) {
  this.componentScope.$watch(this.wrapCallback(detectChanges));
} // If necessary, attach the view so that it will be dirty-checked.
// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function|null = this.componentScope.$watch(() => {
    this.unwatch !();
    this.unwatch = null;
  });
  const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
  appRef.attachView(this.componentRef.hostView);
}

setupOutputs() {
  const attrs = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
    const bracketParenAttr = `(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})();`;
    // order below is important - first update bindings then evaluate expressions
    if (attrs.hasOwnProperty(bindonAttr)) {
      this.subscribeToOutput(output, attrs[bindonAttr], true);
    }
    if (attrs.hasOwnProperty(bracketParenAttr)) {
      this.subscribeToOutput(output, attrs[bracketParenAttr], true);
    }
    if (attrs.hasOwnProperty(output.onAttr)) {
      this.subscribeToOutput(output, attrs[output.onAttr]);
    }
    if (attrs.hasOwnProperty(output.parenAttr)) {
      this.subscribeToOutput(output, attrs[output.parenAttr]);
    }
  }
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter(this.scope, v) :
        (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${getTypeName(this.componentFactory.componentType)}' on component`);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on('$$destroy', () => {
    destroyComponentRef();
    testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
  });
}

getInjector(): Injector { return this.componentRef.injector; }

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

groupProjectableNodes() {
  let ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents !());
}

function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  for (let i = 0, ii = ngContentSelectors.length; i < ii; i++) {
    const projectableNodes[i] = [];
    for (let j = 0, jj = nodes.length; j < jj; j++) {
      const node = nodes[j];
      if (ngContentSelectors[i] !== null) {
        if (matchesSelector(node, ngContentSelectors[i])) {
          projectableNodes[i].push(node);
        }
      }
    }
  }
  return projectableNodes;
}

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    _matches = el.matchesSelector || el.msMatchesSelector ||
  }
}
```javascript
proto.matchesSelector || proto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE;
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

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 * found in the LICENSE file at
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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that
 * allows an Angular component to be used from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function to be used for registering
 * an AngularJS wrapper directive that wraps the "downgraded" component.
 * For more details and examples on
 * downgrading Angular components to AngularJS components please visit the
 * [Upgrade guide](https://docs.angularjs.org/guide/upgrade#using-angular-components-from-angularjs-code).
function downgradeComponent(info: {
  component: Type<any>;
  downgradedModule?: string;
  propagateDigest?: boolean;
} /* @deprecated since v4. This parameter is no longer used */
inputs?: string[];
} /* @deprecated since v4. This parameter is no longer used */
outputs?: string[];
} /* @deprecated since v4. This parameter is no longer used */
selectors?: string[];
): any /* angular.IInjectable */ {
  const directiveFactory: IAnnotatedFunction = function(
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be notified of
    //   dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    //   Angular zone. This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    //   inside the Angular zone (except if explicitly escaped, in which case we shouldn't force it back
    //   in). When downgrading multiple modules, special handling is needed wrt injectors:
    const hasMultipleDowngradedModules =
      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
    return {
      restrict: 'E',
      terminal: true,
      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
      link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
        // We might have to compile the contents asynchronously, because this might have been
        // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
        // been compiled.
        const ngModel: INgModelController =
          required[1];
        const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
        const moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
        let ranAsync = false;

        if (!parentInjector || hasMultipleDowngradedModules) {
          const downgradedModule = info.downgradedModule || '';
          const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
          const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;
          validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);

          const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
          moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;

          moduleInjector = (moduleInjector || lazyModuleRef.promise as Promise<Injector>).then((inj: Injector) => inj);
          const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
          const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;
          validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);
          const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
          moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;

          Notes: `//` // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the
          // same instance, but that is irrelevant); we need to
          // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
          //   be on the same tree as the `NgModule` that declares this downgraded component;
          // - `finalParentInjector` is used for all other injection purposes. (Note that Angular knows to only traverse
          //   the component-tree part of that injector, when looking for an Injectable and then switch to the module
          //   injector).
          // - There are basically three cases:

          // If there is no parent component (thus no
          // `parentInjector`), we bootstrap the downgraded
          // `NgModule` and use its injector as both
          // `finalModuleInjector` and
          // `finalParentInjector`.
          // - If there is a parent component (and thus a
          //   `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgraded component
          //   (e.g. because there is only one downgraded module, we use that `parentInjector` as both
          //   `finalModuleInjector` and
          //   `finalParentInjector`.
          // - If there is a parent component, but it may belong to a different `NgModule`, then we use
          //   the `parentInjector` as `finalParentInjector` and this downgraded component
          //   declaring `NgModule`'s injector as `finalModuleInjector`.

          // Note 1: If the
          // `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).
          // - Note 2: It is possible that (while there are multiple downgraded modules) this
          //   does not belong to the same `NgModule` as this downgraded component;
          //   we use that `parentInjector` as both
          //   `finalModuleInjector` and `finalParentInjector`.

          // treating this case as if they belong to different `NgModule`'s. That doesn't really affect
          // anything, since `parentInjector` has `moduleInjector` as ancestor
          // and trying to resolve
          `ComponentFactoryResolver` from either one will return the
          // same instance. If there is a
          // parent component, use its injector as parent injector.

          if (isNgUpgradeLite) {
            return;
          }
        }
      }
    };
  };

  return (directiveFactory as any)(info);
}
              const finalParentInjector = parentInjector || moduleInjector !;
        } if (isNgUpgradeLite) {
            doDowngrade = (injector: Injector, moduleInjector: Injector) => {
                if (isNgUpgradeLite) {
                    return doDowngrade.injectorPromises.doDowngrade();
                } else {
                    let injectorPromises = new ParentInjectorPromise(element);
                    injectorPromises.resolve(injector);
                    this.element.data !(this.injectorKey, injector); // Release the element to prevent memory leaks!
                    this.element = null !;
                    if (ranAsync) {
                        // If this is run async, it is possible
                        // that it is not run inside $animate
                        // digest and initial input values will not be detected.$scope.$evalAsync(() => {});
                    }
                    return injectorPromises;
                }
            }
        } else {
            const injectorPromises = new ParentInjectorPromise(element);
            injectorPromises.resolve(injector);
            this.element.data !(this.injectorKey, injector);  
            // Release the element to prevent memory leaks!
            this.element = null !;
            if (ranAsync) {
                // If this is run async, it is possible
                // that it is not run inside $animate
                // digest and initial input values will not be detected.$scope.$evalAsync(() => {});
            }
            return injectorPromises;
        }
        this.injectorPromises = injectorPromises;
      }
    };

    // bracket-notation because
    // of closure - see #14441
    directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
    return directiveFactory;
}

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();
    // Store the promise on the element.
    element.data !(this.injectorKey, this);
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    element.data !(this.injectorKey, injector);

    // Release the element to prevent memory leaks.
    this.element = null !;

    // Resolve the promise.
    super.resolve(injector);
  }
}

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 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function that provides access to the Angular* service identified by the
 * `token` parameter.
 * 
 * *A helper function to allow an Angular service to be accessible from AngularJS
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * 
 * `token` parameter.
 * 
 * *A helper function to allow an Angular service to be accessible from AngularJS
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * 
 * `token` parameter.
 * 
 * *A helper function to allow an Angular service to be accessible from AngularJS
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * 
 * `token` parameter.
 * 
 * *A helper function to allow an Angular service to be accessible from AngularJS
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * 
 * `token` parameter.
be available until the Angular\n* module that provides them is instantiated. In order to be safe, you need to ensure that the\n* downgraded injectables are not used anywhere _outside_ the part of the app where it is\n* guaranteed that their module has been instantiated.\n* For example, it is _OK_ to use a downgraded service in an\nupgraded component that is only used\n* from a downgraded Angular component provided by the same Angular\nmodule as the injectable, but\n* it is _not OK_ to use it in an AngularJS component that may be used\nindependently of Angular or\n* use it in a downgraded Angular component from a different module.\n* 

<\/div>\n* @param token an `InjectionToken` that identifies a service provided from Angular.\n* @param downgradedModule the name of the downgraded module (if any) that the injectable\n* "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose injector will\n* be used for instantiating the injectable.<br />

* This option is only necessary when using `downgradeModule()` to downgrade more than one\nAngular\n* module.\n* @returns a [factory function](https://docs.angularjs.org/guide/di) that can be\n* used to register the service on an AngularJS module.\n* @publicApi

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [\$INJECTOR];

  return factory;
}
```

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 *
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

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 */

import {IInjectorService} from '../../src/common/src/angular1';

// We store the ng1 injector so that the provider in the module injector can access it// Then we \`get\` the ng1 injector from the module injector, which triggers the provider to read\// the stored injector and release the reference to it:\n
```typescript
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef)
  { throw new Error('Trying to get the AngularJS injector before it being set.\n} \n  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks\n  return injector;
}
```

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}];

```typescript
export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular\n  // locate a service in the component injector tree, the not found value is set to\n  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR` as
  // we do not support injection from\n  // the component injector tree.\n  // In such a case we should not walk up to the module\n  // Injector\n  // AngularJS only supports a single tree and should always check the module injector:\n  \n  get(token: any, notFoundValue?: any): any {
    if (notFoundValue}==}
manually trigger a change detection run in Angular using `[@link NgZone#run
\n * ngZone.run(...)]]\n *un * 
</div>\n *un * ### Downgrading multiple modules\n *un * It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.
 *un * Things to keep in mind, when downgrading multiple modules:
 *un * - Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.
 *un * - If you want some injectables to be shared among all downgraded modules, you can provide them as
 *un * `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or
 *un * `platformBrowserDynamic`).
 *un * - When using `[@link PlatformRef#bootstrapmodule `bootstrapModule()`]` or
 *un * downgraded modules, each one is considered a root module. As a consequence, a new instance will be created for every injectable provided in "root" (via
 *un * `[@link Injectable#providedIn `providedIn()`]`).
 *un * If this is not your intention, you can have a shared module (that will act as the "root" module) and create all downgraded modules using that module's injector.
 *un * `[@example upgrade/static/ts/lite-multi-shared/module.ts
 *un * region="shared-root-module"]`
IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,

directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);
    this.$element = elementRef.nativeElement;
    this.$element = angularElement(this.$element);
    this.directive = directive;

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error('Only support single directive definition for: $name');
    }
    const directive = directives[0];
    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. If (directive.compile
    && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');
    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string | Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);

      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}'
            returned '${status}: ${response}'`);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null,
      this.directive.controllerAs);

    this.$element.data !(controllerKey(this.directive.name !), controller);

    return controller;
  }

  compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223
    // https://github.com/angular/angular.js/blob/26ddc5f5830f902a3d22f4b2ab70d864d688c82/src/jqLite.js#L306-
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.exactChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if
      // `$template` is empty. Since the transcluded content comes from Angular,
      not AngularJS, // there will be no transclusion scope here.
      // Provide a dummy `scope.$destroy()` method
to prevent `cloneAttachFn` from throwing.
      return cloneAttachFn !(scope, cloneAttachFn); 
    };
    let template = contentChildNodes;
    if (transclude) {
      const slots = Object.create(null);
      if (typeof transclude === 'object') {
        let Stemplate = contentChildNodes;
        if (transclude) {
          const slots = Object.create(null);
          if (typeof transclude === 'object') {
            let Stemplate = contentChildNodes;
          } 
          const optional =

  

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isFunction(property) ? property(...args) : property;

// NOTE: Only works for `typeof T !== 'object'`.

// NOTE: Only works for `typeof T !== 'object'`.

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 */

import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, looseIdentical} from '@angular/core';

import {IAugmentedJQuery, IDirective, IDirectivePrePost, ILinkFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';
import {$SCOPE} from '../../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../src/common/src/upgrade_helper';

interface Bindings {
  twoWayBoundProperties: string[];
  twoWayBoundLastValues: any[];

  expressionBoundProperties: string[];

  propertyToOutputMap: {[propName: string]: string} = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular templates. This component will be made available in
 * Angular templates.
 *
 * *Part of the 
 * library for hybrid upgrade apps that support AOT compilation.*
 *
 * *Directive* that wraps AngularJS components that need to be
 * upgraded.
 *
 * *Note that we must do the following:
 * * specify the directive's selector (`ng1-hero`)
 * * specify all inputs and
 * * outputs that the AngularJS component expects
 * * derive from `UpgradeComponent`
 * * call the base class from
 * * the constructor, passing
 * * an `ElementRef` and
 * * an `Injector`
 *
 * @publicApi
 */
export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
  private helper: UpgradeHelper;

  private $injector: IInjectorService;

  private element: Element;
  private $element: IAugmentedJQuery;
  private $componentScope: IScope;

  private directive: IDirective;
  private bindings: Bindings;

  // TODO(issue/24571): remove '!'.
  private controllerInstance!: IControllerInstance;
  // TODO(issue/24571):
  private pendingChanges!: SimpleChanges | null;
  // TODO(issue/24571): remove '!'.
  private unregisterDoCheckWatcher!: Function;

  /**
   * Create a new `UpgradeComponent` instance. You should not normally need to do this.
   * Instead you should derive a new class from this one and call the super constructor
   * from the base class.
   *
   * The `name` parameter
   * should be the name of the AngularJS directive.
   * The `elementRef` and `injector` parameters should be
   * acquired from Angular by dependency injection into
   * the class constructor.
   */
  constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
    this.helper = new UpgradeHelper(injector, name, elementRef);

    this.$injector = this.helper.$injector;

    this.element = this.helper.element;
    this.$element = this.helper.$element;

    this.directive = this.helper.directive;
    this.bindings = this.helper.bindings;

    // We will be instantiating the controller in the
    // first `ngOnChanges` hook, when the
    // `SimpleChanges` and `play them back` later.
    // TODO(issue/24571): remove '!'.
    this.privatePendingChanges = SimpleChanges | null;
    // TODO(issue/24571): remove '!'.
    this.privateUnregisterDoCheckWatcher = Function;

    // Create a new `UpgradeComponent` instance. You should not normally need to do this.
    // Instead you should derive a new class from this one and call the super constructor
    // from the base class.
    // The `name` parameter
    // should be the name of the AngularJS directive.
    // The `elementRef` and `injector` parameters should be
    // acquired from Angular by dependency injection into
    // the class constructor.
    // We will be instantiating the controller in the
    // first `ngOnChanges` hook, when the
    // `SimpleChanges` and `play them back` later.
    // TODO(issue/24571): remove '!'.
this.$componentScope = $parentScope.$new(!this.directive.scope);  
this.initializeOutputs();

ngOnInit() {  
  // Collect contents, insert and compile template
  const attachChildNodes = this.helper.prepareTransclusion();
  const linkFn = this.helper.compileTemplate();
  // Instantiate controller
  if (controllerType) {  
    this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);  
  } else if (bindToController) {  
    throw new ErrorËUpgrade directive

    // Set up outputs
    this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
  }

  this.initializeOutputs();

  // Require other controllers
  this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

  // Hook: $onChanges
  if (this.pendingChanges) {  
    this.forwardChanges(this.pendingChanges);
    this.pendingChanges = null;
  }

  // Hook: $onInit
  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {  
    this.controllerInstance.$onInit();
  }

  // Hook: $doCheck
  if (this.controllerInstance && &

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs = NOT_SUPPORTED;
    const transcludeFn = NOT_SUPPORTED;
    if (preLink) {  
      preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.$componentScope, null, {parentBoundTranscludeFn: attachChildNodes});

    if (postLink) {  
      postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {  
      this.controllerInstance.$postLink();
    }

  // ngDoCheck()
  if (isFunction(this.unregisterDoCheckWatcher)) {  
    this.unregisterDoCheckWatcher();
  }

  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
}

private initializeBindings(directive: IDirective) {  
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject && Object.keys(directive.scope).length) {  
    throw new Error('Binding definitions on scope and controller at the same time is not supported.');
  }

  const context = btcIsObject ? directive.bindToController : directive.scope;
  const bindings = new Bindings();

  if (typeof context == 'object') {  
    Object.keys(context).forEach(propName => {  
      const definition = context[propName];  
      const bindingType = definition.charAt(0);

      switch (bindingType) {  
        case '@':
        case '<':
          // We don't need to do anything special. They will be defined as inputs on the upgraded component facade and the change propagation will be handled by
          // `ngOnChanges()`.
          break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
          bindings.propertyToOutputMap[propName] = propName;
          break;
        case '&':
          bindings.propertyToOutputMap[propName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error('Unexpected mapping `' + bindingType + '` in `' + json + `' in $scope');
      }
    });
  }

  Object.keys(context).forEach(propName => {  
    const context = context[propName];

    switch (bindingType) {  
      case '@':
      case '<':
        break;
      case '=':
        bindings.propertyToOutputMap[propName] = propName;
        break;
      default:
        let json = JSON.stringify(context);
        throw new Error('Unexpected mapping `' + bindingType + '` in `' + json + `' in $scope');
    }
  });
}
return bindings;
}

private initializeOutputs() {
  // Initialize the outputs for '=' and '&=' bindings
  this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
    .forEach(propName => {
      const outputName = this.bindings.propertyToOutputMap[propName];
      (this as any)[outputName] = new EventEmitter();
    });

  private bindOutputs() {
    // Bind '&=' bindings to the corresponding outputs
    this.bindings.expressionBoundProperties.forEach(propName => {
      const outputName = this.bindings.propertyToOutputMap[propName];
      const emitter = (this as any)[outputName];

      this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
  }

  private forwardChanges(changes: SimpleChanges) {
    // Forward input changes to 'bindingDestination'
    Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);

    if (isFunction(this.bindingDestination.$onChanges)) {
      this.bindingDestination.$onChanges(changes);
    }
  }
}

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 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/util';
import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation
 * The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together inside a hybrid upgrade application, which supports AOT compilation.
 * Specifically, the classes and functions in the `upgrade/static` module allow the following:
 * 1. Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `{UpgradeComponent}".
 * 2. Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `{downgradeComponent}".
 * 3. Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See `{@link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service}`.
 * 4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See `{@link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service}`.
 * 5. An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `{UpgradeComponent}".
 * 6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `{downgradeComponent}".
 * 7. Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates
 */
owns the view for that component. 1. This implies that the component bindings will always follow the semantics of the instantiation framework. 2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use camelCase. 3. However the template binding syntax will always use the Angular style, e.g. square brackets ([...]) for property binding. 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. 9. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. 

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. 

#### Core AngularJS services
Importing this `NgModule` will add providers for the core AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector. It also contains properties to access the AngularJS $injector and the Angular Injector. 

#### Bootstrap
The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the `NgZone` and the Angular `$injector`. 

### Examples

#### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe: 

- Define an Angular provider to be included in your `NgModule` `providers` property.
- Then you can use the "upgraded" AngularJS service by injecting it into an Angular component or service.

```typescript
import {UpgradeModule} from '@angular-upgrade/ng1-upgrade';

@NgModule({
  providers: [
    UpgradeModule
  ]})
export class AppModule {
  constructor(UpgradeModule) {
    UpgradeModule.bootstrap();
  }
}
```

---

```typescript
import {UpgradeModule} from '@angular-upgrade/ng1-upgrade';

@NgModule({
  providers: [
    UpgradeModule
  ]})
export class AppModule {
  constructor(UpgradeModule) {
    UpgradeModule.bootstrap();
  }
}
```
injector.get(Testability);\n    if (ng2Testability.isStable()) \n        callback();\n    } else \n        ng2Testability.whenStable(\n            newWhenStable.bind(\n                testabilityDelegate, \n                callback));\n\n    testabilityDelegate.whenStable = newWhenStable;\n    return testabilityDelegate;\n\n$provide.decorator($INTERVAL, \n   _SDLEGATE, \n    (intervalDelegate: IntervalService) \n    => { \n        // Wrap the $interval service so that setInterval is called outside NgZone.\n        // but the callback is still invoked within it. This is so that $interval\n        // won't block stability, which preserves\n        // behavior from AngularJS.\n        let wrappedInterval =\n            (fn: Function, delay, number,\n             count?: number, invokeApply?: boolean,\n             ...pass: any[]) => { \n                return\n            this.ngZone.runOutsideAngular(() => {\n                // Run callback in the next VM turn - $interval calls\n                // $rootScope.$apply, and running\n                // callback in NgZone will\n                // cause a $digest already in progress' error if it's in the\n                // same vm turn.\n                setTimeout(() => { this.ngZone.run(() => fn(...args)); });\n            });\n            }\n        }\n        )\n        \n        (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;\n        return wrappedInterval;\n    }\n})\n\n$injector.get($INTERVAL);\n\ncontrollerKey(INJECTOR_KEY), this.injector)\n\n// Wire up the ng1 rootScope to run a digest cycle\nwhenever the zone settles\n// We need to do this in the next tick so that we don't prevent the bootup\n// stabilizing\n    const $rootScope = $injector.get('$rootScope');\n    const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {\n        if ($rootScope.$$phase) {\n            if (isDevMode()) {\n                console.warn(\n                    'A digest was triggered while one\n                    already in progress. This may mean that something is triggering\n                    digests outside the Angular zone.');\n            }\n            return $rootScope.$evalAsync();\n        }\n        return $rootScope.$digest();\n    });\n    $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });\n\n\n\nconst upgradeModule = angularModule(UPGRADE_MODULE_NAME, \n    [INIT_MODULE_NAME].concat(modules));\n\n* Copyright Google Inc. All Rights Reserved.\n* Use of this source code is governed by an MIT-style license that can be\n* found in the LICENSE file at https://angular.io/license
*/

export
    {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from
        '../src/common/src/angular1';
export {downgradeComponent} from
        '../src/common/src/downgrade_component';
export {downgradeInjectable} from
        '../src/common/src/downgrade_injectable';
export {VERSION} from '../src/common/src/version';
export {downgradeModule} from './src/downgrade_module';
export {UpgradeComponent} from
        './src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';

// This file only re-exports
// items to appear in the public api. Keep it that way.

*/
* Copyright Google Inc. All Rights Reserved.\n* Use of this source code is governed by an MIT-style license that can be\n* found in the LICENSE file at https://angular.io/license
*/

// This file is not used to build this module. It is only used during
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// by the TypeScript language service and during build for verification. `ngc` does not edit the source files.

export * from './public_api';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {angular1Providers as ɵangular_packages_upgrade_static_static_e, compileFactory as ɵangular_packages_upgrade_static_static_c, injectorFactory as ɵangular_packages_upgrade_static_static_a, parseFactory as ɵangular_packages_upgrade_static_static_d, rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from './src/angular1_providers';
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-
static.umd.js.map

No license file was found, but licenses were detected in source scan.

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of '@types/angular' typings extend the global `Function` interface with
  // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function
    extends{{$inject?: string[]}? Ng1Token[]]: ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[];

export type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: Injectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;

  // Additional Module interface methods...
}
```
export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): void;
  whenStable(callback: Function): void;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
  ScommitViewValue(value: any, trigger: string): void;
  SviewValue: any;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {
    [key: string]: Function;
  };
  $asyncValidators: {
    [key: string]: Function;
  };
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]) => IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
(see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes => angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const testabilityService: typeof angularTestabilityService = (e => angularTestabilityService(e));

export const compiler: typeof angularCompiler = angularCompiler;

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';
export const $TESTABILITY = '$$testability';
export const $COMPILER_KEY = $AngularCompiler;
export const $DOWNGRADED_MODULE_COUNT_KEY = $angularDowngradedModuleCount;
export const $GROUP_PROJECTABLE_NODES_KEY = $angularGroupProjectableNodes;
export const $injector = $injector;
export const $module = $module_;
LAZY_MODULE_REF = "$\text{AngularLazyModuleRef}";\nexport const NG_ZONE_KEY = "$$\text{AngularNgZone}";\nexport const UPGRADE_APP_TYPE_KEY = "$\text{AngularUpgradeAppType}";\nexport const REQUIRE_INJECTOR = "?\text{^}$$\text{^}\text{Injector}_\text{KEY}";\nexport const REQUIRE_NG_MODEL = "?\text{ngModel}";\nexport const UPGRADE_MODULE_NAME = "$\text{UpgradeModule}";\n
LAZY_MODULE_REF = "$\text{AngularLazyModuleRef}";\nexport const NG_ZONE_KEY = "$$\text{AngularNgZone}";\nexport const UPGRADE_APP_TYPE_KEY = "$\text{AngularUpgradeAppType}";\nexport const REQUIRE_INJECTOR = "?\text{^}$$\text{^}\text{Injector}_\text{KEY}";\nexport const REQUIRE_NG_MODEL = "?\text{ngModel}";\nexport const UPGRADE_MODULE_NAME = "$\text{UpgradeModule}";
module in a call to

`angular.mocks.module` to

include this module in the unit test injector.

The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the

`Ng2AppModule`, which is the Angular part.

Once this is done we can get hold of services via the

AngularJS `Injectors` as normal.

Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as

needed by the Angular root `Injectors`.

In the following code snippet, we are configuring the `Sinjector` with two modules:

The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the

`Ng2AppModule`, which is the Angular part.

For Component testing you must still bootstrap a hybrid app.

See `UpgradeModule` or `downgradeModule` for more information.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec.

Do not use `createAngularJSTestingModule` in the same spec as

`createAngularTestingModule`. Here is the example application and its unit tests that use

`createAngularJSTestingModule` and

`createAngularJUnitestTestingModule`.

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`createAngularJUnitestTestingModule`.
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KAAKIF,KAAOM,MAAQ1F,GA1B9F,0AAM,MA6BR+R,EAtOuB,GAwOIC,SAASae,EAUuE,GAEF,JADA,IAAI C,EAAO,GACFC,EAKA,EAGA,EAAK1T,UAUUC,0AAQyT,IAcPCd,EAKCF,EAAK,GAAK1T,UAUu0T,G AE7B,0AAOIR,EAAWgR,GAAYA,EAASG,WAAM,EAQ5T,EAAS0T,JAASD,EGA3E,0ASaBr,EAAMS,G ACX,0AAOAI,0AUpB,MAAMoU,QAQ6IT,JAA2B,iBAAVAE,EAEPd,SAAS8O,EAa9M,EAAM+R,GACX,B MAAM,IAAA9W,MAAM,0BAByB+E,EAAM,oCAAsCr+E,EAUu;;;;;;;OAUuP,GACIC,GAAKb,CACIBQ,0bAMAAB,GAEnBOQ,GACA,SAASA,KACCA,KAAKmX,0BAAwb,GAC7BnX,KAAKoX,0BAAwB,GAC7BPX,KAAKqX,0BAA4B,GACGrX,KAAKX,0bABA2,B,IA2C/BC,GAAK,WAAC,0ASaAr,EAAMs,EAASy,EAAYQ,GACx CR,KAAKIF,KAAOA,EACZjF,KAAKuR,WAAnA,EAECvR,KAAKQ,SAASaW,EAChBf,KAAKwX,0ASAAS,IAA II,GEEAAc9Q,EAuUyE,EAAMs,GAChDrV,KAAKwFuF,0AAxYf,KAAKwX,0AAoHs,UA7C8Bx,F,KAAKQ,A QUP,KAAKwX,0Aoojx,QAC3BP,KAAK0R,SAAI1W,0KAAKwX,0A0A9F,SAC5BIR,KAAAR,UAAYXr,K 0AKwX,0AAoHg,UA7C8tR,KAAKxX,0SAAwx,KAAK0X,m0BAAM1B,KAAKwX,0RAG7C,1AAMg,EAe aXnX,EAAsSF,IAAIhC,GAC1KDH,0KAAK4X,0bABAqBD,EAAxqX,0AAOoHs,KAAKwX,UAUuUL,0AAC1D5G,K A K6Xo,0BAMJT,0AajIAN,EAiBpT,UAUu2T,SAAW,WACC1,IAAIzQ,EAAQRh,KAAER+X,EAEMbX,KAAKw X,0AOAS9D,sBAc7B9L,EAAS5H,KAAKwX,0OAAOpO,EKAERjE,EAiBhT,KAAKwR,0AAuoB,WACChCoCEA AmBiV,KAAKwR,0AAu8d,ibACIC,GAAhC,EAChhT,KAAKuT,m0BAaqBvT,KAAKwX,0AAOzE,0GAaqBC, EAAgBhT,KAAK4X,sBAe1E,GAAHC,GALM,MAAM,IAAIpV,MAAM,0AAyaBYf,KAAKwR,UAuUVM,KAAO, qDAGnF,KAAKgY,m0BAqBIC,EAAmBiV,KAAKuT,m0BAaqBvT,KAAK4X,0bABA5E5X,KAAKY,EACIL,IA AI7C,EAAsBpV,KAAKwX,0OAAovC,KAcAcjV,KAAKuT,0BAW7E,0GATTV,KAAKY,EBAACly,KAAKYm,E AAnYN,KAAKKY,g0BAcZiB,KAAKYX,e0BAAC,M0GtBIY,KAAKuT,0BAAsB3N,EAAS5F,KAAKuT,m0BAAm B6E,UA9C9P,Y,KAAKuT,m0BAAmB6E,UA0BxPY,KAAKuT,0BAAsB3N,KAAKuT,m0BAAmB8E,UA AW,CAC2E,IAAIAC,EAAeC,WAAC,0AAAO,EAAKMK,m0BAAmB8E,YCAChErY,KAAKyY,0BAAB2VY,KAAKY4X, g0BAagBY,0QAQnX,0AAoOn,0GApcE,IAAIJG,IAAIxG,EAoO9R,KAAKwR,0AAuUM,KACtBG2,EAAyB,ib,IA AR3G,0AAoAB,EAAK4G,JAAC1CC,EAoO8B,ib,BAAR7G,EAEMbA,EAAK8G,KAAK0G,EAEnjD2G,GACAA,EAA QuZ,Y,KAAK4X,g0BAAssB5X,KAAKuR,0S/5B,0BAg+H6C0D,EA/E7C,IBAciR PV,KAAKuT,0BAAsB3N,EAAS5F,KAAKuT,m0BAAmBuF,YAC9D9Y,KAAKuT,m0BAAmBuF,0AAgChvB,EAiBpT, UAuUmH,YAC,0AAuY,0GAC1C1Y,KAAKYgY,0MABNHY,KAAKMm,Y,e0AAAY,GABhP/Y,KAAYK,0AAiBm,GA9M9BX,EAAiBpT,UAUu6U,0AAy,WACCN,IAAI3R,EAAQRh,KAAERoX,EAeWpX, KAAKYX,0AAALS,SBACjCE,EAAeBmX,KAAKXY,0SAASHo0BAFZIX,Y,KAAKYX,0SAASN,0BAgBpX,EPAQ,S,0AA U2C,EAAUgF,GAC9C,IAAI2J,EAAm5E,EAAM2Q,m0BAAmB1N,GAEmCxe,EAAKoZ,g0BAgBD,EADX7B,EA AsB9H,MAgDji,0EAfDfQ,E0BAoBhN,0IAAXEoB,0GACKB,0BAAM8H,EAAS9B,HGAAO2j,0IAzC1B,EAiBpT,UA AUuV,YAAC,WCACjX,T,EAAW5F,KAAKuY,0BAChVY,KAAKY,Y,0BAEtvY,KAAKwX,0AAOJE,UAAuUT,K 0KA4X,g0BAAssB5X,KAAKuT,0BAEeDgE,e0BAiBpT,UAuUuT,m0BAqBv,0AAUUG,GACD1A,IAAIKn,EAAQhR, KACqRZ,EAAoDjB,IAAI7B,EAAS8C,m0BACjAC,GAAlI+D,GAe3X,0AAAOsS,KAAKarS,0EAAAUL,0AAoOoD,OA C5C,MAAM,IAAInD,MAAM,kFAEbp,IAAIoZ,EAAAUD,EAAC7H,m0BAU8D,ib,0BAAMB9D,EAUEuL,HMAC/DiR,E AAW,IAAAP,0G4BNb,MA3BSb,ib,BAAXoC,GACPRX,0AAO0S,KAAKF,GAD3R,SAAQ,SAAU2C,GACNCI,EA CIp,EAAAd,D,EAQhp,EAQoAp,0QAQs+U,0GACJ1,IAAIK,IAAIJ,IAAID,MACJ,IAAIK,IAACD9B,EAAE9N,SBAAAsBnU,0KAAKSH,GACPcmN,0EAAALs,S,0BAAsBpU,KAAKIu,J,IAEpCQ,EAoash,0BAoAoBnH,GAA YA,0AAEw,SAACPdC,MAAIJ,IAAIKdMn,EAASjJ,0BAOaBrU,0KAAKSh,GACXcmN,0EAAAb0BnH,0GAA YA,EAACZ,MAACIQA,IAAIKp,EAOCk,0AAKAC,IAAUU,0GAC1B,MAAM,IAAIpZ,MAAM,0BAayBqZ,EAA Ac,WAASCW,0AAoW,0EAMmpC,0KAAO,0BAIJGW,GAAEF,EAieBpT,UAUu0T,k0BAABw,WAC3C,IAA IXq,EAqQhR,KAAEz,A,0BAKyX,0SAASN,SBAA87T,0AAOoD,KAAKyX,0SAASJ,2BACdP1D,SAAQ,SAAU2C, GAEmBjD,EAEdIB,0EAMOoS,0BAoAbnH,0BACjCH,IAAIKX,0EAK6Z,IBAGCpCEAAIBpT,UAUuASY,TY AAC,WAAC,M0AAI5Q,EAAQhR,KAAEza,KAAKyX,0SAASJ0,0BAO0B1P,SAAQ,SAAU2C,GACD,IAACIGC,EAAEU F,EADA,GAAEmOQ,0SAASHo0BAoBhN,IAEpdjD,EAAM2Q,m0BAAmB1N,GAAY,0AAuUh,0GAAS,0AAOqJL, EAAQ6M,KAAKwQ,0GAQpFUs,EAAiBpT,UAUuUgU,e0AAB,e0AABU,SAAYU,GACD1J,IAAI1R,EAAQhR,KAEZ0B,0 AA0S,0KAAK2E,GAASpR,SAAQ,SAAU2C,GAAY,0AAOjD,EAEM2Q,m0BAAmB1N,GAAYyO,0EAAQzO,0GAAUsP g,0BAc7GhU,EAAS5F,KAAKgY,m0BAAmB6b,aACAn7Z,KAAKyG,0BAAmB6b,WA4wD,1A4PcXb Ce,EAK0B,
REQUIRE_INJECTOR = "?^^^^+ INJECTOR_KEY;\n var REQUIRE_NG_MODEL = "?ngModel;\n var UPGRADE_MODULE_NAME = "$SupModule;\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this code is governed by a MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * A `PropertyBinding` represents a mapping\n * between a property name\n * and an attribute name. It is parsed from a string of the form\n * "prop: attr"; or simply "propAndAttr" where the property\n * and attribute have the same identifier.\n * var PropertyBinding = /**\n * @license Google Inc. All Rights Reserved.\n * Use of this source code is governed by an\n * MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * var DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)[\-\/_]/i;\n * var DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;\n * function onError(e) {\n * console.error(e);\n * function controllerKey(name) {\n * return '$' + name + 'Controller';\n * }\n * function directiveNormalize(name) {\n * return name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n * .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, function(_, letter) { return letter.toUpperCase(); });\n * }\n * function getDowngradedModuleCount($injector) {\n * return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?\n * $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n * 0;\n * }\n * function getUpgradeAppType($injector) {\n * return $injector.has(UPGRADE_APP_TYPE_KEY) ?\n * $injector.get(UPGRADE_APP_TYPE_KEY) :\n * 0 /* None */;\n * }\n * function isFunction(value) {\n * return typeof value === 'function';\n * }
supportsNgModel(component) {
    return typeof component.writeValue === 'function' &&
        typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of the `ControlValueAccessor` interface).
 */
function hookupNgModel(ngModel, component) {
    if (ngModel && supportsNgModel(component)) {
        ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
        component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
        if (typeof component.registerOnTouched === 'function') {
            component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
        }
    }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
function strictEquals(val1, val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
var INITIAL_VALUE = {
    __UNINITIALIZED__: true
};
var DowngradeComponentAdapter = /** @class */ (function () {
    function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {
        this.element = element;
        this.attrs = attrs;
        this.scope = scope;
        this.ngModel = ngModel;
        this.parentInjector = parentInjector;
        this.$injector = $injector;
        this.$compile = $compile;
        this.$parse = $parse;
        this.componentFactory = componentFactory;
        this.wrapCallback = wrapCallback;
        this.implementsOnChanges = false;
        this.inputChangeCount = 0;
        this.inputChanges = [];
        this.componentScope = scope.$new();
    }
    DowngradeComponentAdapter.prototype.compileContents = function () {
        var _this = this;
        var compiledProjectableNodes = [];
        var projectableNodes = this.groupProjectableNodes();
        var linkFns = projectableNodes.map(function (nodes) { return _this.$compile(nodes); });
        this.element.empty();
        linkFns.forEach(function (linkFn) {
            linkFn(this.scope, function (clone) {
                compiledProjectableNodes.push(clone);
                this.element.append(clone);
            });
        });
        return compiledProjectableNodes;
    }
    DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
        var providers = [{ provide: $SCOPE, useValue: this.componentScope }];
        var childInjector = core.Injector.create({
            providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
        this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
        this.changeDetector = this.componentRef.changeDetectorRef;
        this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
        this.changeDetector = this.componentRef.changeDetectorRef;
        this.component = this.componentRef.instance;
        // testability hook is commonly added during component bootstrap in
        // packages/core/src/application_ref/bootstrap() // in downgraded application, component creation will take
        // place here as well as adding the
        // testability hook.
        var testability = this.componentRef.injector.get(core.Testability, null);
        if (testability) {
            this.componentRef.injector.get(core.TestabilityRegistry)
                .registerApplication(this.componentRef.location.nativeElement, testability);
        }
        hookupNgModel(this.ngModel, this.component);
    }
    DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
        var _this = this;
        if (propagateDigest === void 0) { propagateDigest = true; }
        var inputs = this.componentFactory.inputs || [];
        var _loop_1 = function (i) {
            var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
            var expr = null;
            if (attrs.hasOwnProperty(input.attr)) {
                var observeFn_1 = (function (prop) {
                    var prevValue = INITIAL_VALUE;
                    return function (currValue) {
                        if (!strictEquals(prevValue, currValue)) {
                            if (prevValue === INITIAL_VALUE) {
                                prevValue = currValue;
                            } else {
                                prevValue = currValue;
                            }
                        }
                    };
                })(input.prop);
                var loop_1 = function (i) {
                    var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
                    var expr = null;
                    if (attrs.hasOwnProperty(input.attr)) {
                        var observeFn_1 = (function (prop) {
                            var var prevValue = INITIAL_VALUE;
                            return function (currValue) {
                                // Initially, both
                                "$observe()" and "$watch()" will call this function.
                                if (!strictEquals(prevValue, currValue)) {
                                    prevValue = currValue;
                                }
                            };
                        })(input.prop);
                        var loop_1 = function (i) {
                            var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
                            var expr = null;
                            if (attrs.hasOwnProperty(input.attr)) {
                                var observeFn_1 = (function (prop) {
                                    var var prevValue = INITIAL_VALUE;
                                    return function (currValue) {
                                        if (!strictEquals(prevValue, currValue)) {
                                            prevValue = currValue;
                                        }
                                    };
                                })(input.prop);
                            }
                        }
                    }
                }
            }
        }
    }
});
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DowngradeComponentAdapter.prototype.registerCleanup = function () {
    var this = this;
    var destroyComponentRef = this.componentRef;
    testabilityRegistry.unregisterApplication(destroyComponentRef.location.nativeElement);
    this.element.$destroy();
}

DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; }

DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
    if (this.implementsOnChanges) {
        this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
    }
    this.inputChangeCount++;
    this.component[prop] = currValue;
}

DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
    var ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

function groupNodesBySelector(ngContentSelectors, nodes) {
    var projectableNodes = [];
    var wildcardNgContentIndex;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
        projectableNodes[i] = [];
    }
    for (var j = 0, jj = nodes.length; j < jj; ++j) {
        var node = nodes[j];
        var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex !== null) {
            projectableNodes[ngContentIndex].push(node);
        }
    }
    return projectableNodes;
}

function findMatchingNgContentIndex(element, ngContentSelectors) {
    var ngContentIndices = [];
    var wildcardNgContentIndex = -1;
    for (var i = 0; i < ngContentSelectors.length; i++) {
        var selector = ngContentSelectors[i];
        if (selector === '*') {
            wildcardNgContentIndex = i;
        }
        else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
        ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
}

var _matches;
function matchesSelector(el, selector) {
    if (!_matches) {
        var elProto = Element.prototype;
        _matches = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
            elProto.msMatchesSelector ||
            elProto.oMatchesSelector || elProto.webkitMatchesSelector;
    }
    return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

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 */

function isThenable(obj) {
    return !!obj && isFunction(obj.then);
}

/**
 * Synchronous, promise-like object.
 */
var SyncPromise = /** @class */ (function () {
    function SyncPromise() {
        this.resolved = false;
        this.callbacks = [];
    }

    SyncPromise.all = function (valuesOrPromises) {
        var aggrPromise = new SyncPromise();
        var resolvedCount = 0;
        var results = [];
        var resolve = function (idx, value) {
            results[idx] = value;
            if (++resolvedCount === valuesOrPromises.length)
                aggrPromise.resolve(results);
        };
        valuesOrPromises.forEach(function (p, idx) {
            if (isThenable(p)) {
                p.then(resolve, function (v) { return resolve(idx, v); });
            }
            else {
                resolve(idx, p);
            }
        });
        return aggrPromise;
    };

    SyncPromise.prototype.resolve = function (value) {
        // Do nothing, if already resolved.
        if (this.resolved) {
            this.value = value;
            this.resolved = true;
        } else {
            var resolveCount = this.resolvedCount = 0;
            var results = [];
            var valuesOrPromises = valuesOrPromises.forEach(function (p, idx) {
                if (isThenable(p)) {
                    p.then(resolve, function (v) { return resolve(idx, v); });
                }
                else {
                    resolve(idx, p);
                }
            });
            SyncPromise.prototype.resolve = function (value) {
                // Do nothing, if already resolved.
                if (this.resolved) {
                    this.value = value;
                    this.resolved = true;
                } else {
                    this.resolvedCount = resolvedCount;
                    this.results = results;
                    this.aggrPromise = aggrPromise;
                    this.callbacks.forEach(function (callback) { return callback(this.value); });
                }
            }
            this.callbacks.length = 0;
            SyncPromise.prototype.then = function (callback) {
                if (this.resolved) {
                    callback(this.value);
                } else {
                    this.callbacks.push(callback);
                }
            };
            return this.callbacks.forEach(function (callback) { return callback(value); });
        }
    };

    return SyncPromise;
}());

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* A helper function that allows an Angular component to be used from AngularJS

* Part of the library for hybrid upgrade apps that support AOT compilation

* This helper function returns a factory function to be used for registering an AngularJS wrapper directive for `\`downgrading\` an Angular component.

Examples

* Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

* We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive) that will make this Angular component available inside AngularJS templates.

The `\`downgradeComponent()\` function returns a factory function that we can use to define the AngularJS directive that wraps the \`downgraded\` component.

Notes:

* There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant).

* `finalModuleInjector` is used to retrieve `\`ComponentFactoryResolver\`, thus it must be on the same tree as the `NgModule` that
declares this downgraded component.

There are basically three cases:

- If there is no parent component (thus no \`parentInjector\`), we bootstrap the downgraded
  \`NgModule\` and use its injector as both \`finalModuleInjector\` and \`finalParentInjector\`.
- If there is a parent component (and thus a \`parentInjector\`) and we are sure that \`finalParentInjector\` belongs to the same \`NgModule\` as this downgraded component (e.g., because there is only one downgraded module, we use that \`parentInjector\` as both \`finalModuleInjector\` and \`finalParentInjector\`).
- If there is a parent component, but it may belong to a different \`NgModule\`, then we
  use the \`parentInjector\` as \`finalParentInjector\` and this downgraded component
  declaring \`NgModule\`'s \`finalModuleInjector\`. Note 1: If the \`NgModule\` is already bootstrapped, we just get its injector (we don't return `bootstrap again`).

Note 2: It is possible that (while there are multiple downgraded modules) this downgraded component and its parent component both belong to the same \`NgModule\`. In that case, we could have used the \`parentInjector\` as both \`finalModuleInjector\` and \`finalParentInjector\`, but (for simplicity) we are treating this case as if they belong to different \`NgModule\`s. That doesn't really affect anything, since \`parentInjector\` has \`moduleInjector\` as ancestor and \`moduleInjector\` and trying to resolve `ComponentFactoryResolver` from either one will return \`finalModuleInjector\`.

If there is a parent component, use its injector as parent injector:

- If this is a \`top-level\` Angular component, use the module injector.
- If this is a \`top-level\` Angular component or the parent component may belong to a \`NgModule\`, use the module injector for module-specific dependencies.
- If there is a parent component that belongs to the same \`NgModule\`, use its injector.

var finalParentInjector = parentInjector || moduleInjector
var finalModuleInjector = moduleInjector || parentInjector
var doDowngrade = function (injector, moduleInjector) {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the \`NgModule\` this
  var componentFactoryResolver = injector.get(core.ComponentFactoryResolver);
  if (!componentFactoryResolver)
    throw new Error("Expecting ComponentFactory for: \n + getClassName(info.component))\n
  var injectorPromise = new ParentInjectorPromise(element);
  var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);
  var projectableNodes = facade.compileContents();
  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite,

  // digest and initial input values will not be detected.
  scope.$evalAsync(function () { });

  var downgradeFn = isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {
    if (!ngZone)
      ngZone = pInjector.get(core.NgZone);

  wrapperCallback(function () { return doDowngrade(pInjector, mInjector); })();

  NOTE:
  // Not using \`ParentInjectorPromise.all\` (which is inherited from \`SyncPromise\`), because
  // Closure Compiler (or some related tool) complains:
  // `TypeError: ...
 .SyncPromise.all[[finalParentInjector, finalModuleInjector]]
  .then(function (_a) { \n    var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];
    return downgradeFn(pInjector, mInjector);
  });

  return directiveFactory;
injectors, to preserve the synchronous nature of AngularJS's `$compile`. var ParentInjectorPromise = /** @class */ (function (_super) {
    __extends(ParentInjectorPromise, _super);
    function ParentInjectorPromise(element) {
        var _this = _super.call(this) || this;
        _this.element = element;
        _this.injectorKey = controllerKey(INJECTOR_KEY);
        // Store the promise on the element.
        element.data(_this.injectorKey, _this);
        return _this;
    }
    ParentInjectorPromise.prototype.resolve = function (injector) {
        // Release the element to prevent memory leaks.
        this.element = null;
        // Resolve the promise.
        _super.prototype.resolve.call(this, injector);
    };

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     */
    /**
     * @description
     *
     * A helper function to allow an Angular service to be accessible from AngularJS.
     *
     * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)* library for hybrid upgrade apps that support AOT compilation
     *
     * This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.
     *
     * @usageNotes
     * ### Examples
     *
     * First ensure that the service to be downgraded is provided in an Angular module.
     * and that we have included this in our upgrade app `NgModule`.
     *
     * Inside an AngularJS component's controller we can get hold of the
     * downgraded service via the name we gave when
     *
     * For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but
     *
     * is _not OK_ to use it in an AngularJS component that may be used independently of Angular or
     * use it in a downgraded Angular component from a different module.
     *
     * (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.)
     *
     * as returned by a call to `downgradeModule()`. It is the module, whose injector will
     * be used for instantiating the injectable.<br />
     */
    var downgradeInjectable = function (token, downgradedModule) {
        if (downgradedModule === void 0) { downgradedModule = ''; }
        var factory = function ($injector) {
            var injectorKey = "" + INJECTOR_KEY + downgradedModule;
            var injectableName = isFunction(token) ? getTypeName(token) : String(token);
            validateInjectionKey($injector, downgradedModule, injectorKey, "instantiating injectable '\" + injectableName + '\"');

            // This is the module, whose injector will be used for instantiating the injectable.
            var attemptedAction = "\"instantiating injectable '\" + injectableName + '\"' + "\"\"; 

            validateInjectionKey($injector, downgradeMode, injectorKey, attemptedAction);
            var injector = $injector.get(injectorKey);
            var injectorCall = $injector.get(token);

            var factory = [injector, injectorCall];

            return factory;
        }
        factory['$inject'] = [$INJECTOR, $INJECTOR, $INJECTOR]
        return factory;
    };

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     */
    var VERSION = new core.Version('9.0.7');

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     */
    // We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it.
// Then we "get" the ng1 injector from the module injector, which triggers the provider to read
// the stored injector and release the reference to it.
var tempInjectorRef = null;
function setTempInjectorRef(injector) {
    tempInjectorRef = injector;
}
function injectorFactory() {
    if (!tempInjectorRef) {
        throw new Error('Trying to get the AngularJS injector before it being set.');
    }
    var injector = tempInjectorRef;
}

function rootScopeFactory() {
    return i.get('$rootScope');
}
function compileFactory() {
    return i.get('$compile');
}
function parseFactory() {
    return i.get('$parse');
}

// We must use exported named functions for the ng2 factories to keep the compiler happy.
// Metadata collected contains an error that will be reported at runtime:
// Function calls are not supported. // Consider replacing the function or lambda with a reference to an exported function

var angular1Providers = [
    { provide: '$injector', useFactory: injectorFactory, deps: [] },
    { provide: 'Sinjector', useFactory: rootScopeFactory, deps: [ 'Sinjector' ] },
    { provide: 'Sparse', useFactory: parseFactory, deps: [ 'Sinjector' ] }
];

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 */

var NgAdapterInjector = /** @class */ (function () {
    function NgAdapterInjector(modInjector) {
        this.modInjector = modInjector;
    }
    // When Angular locate a service in the component injector tree, the not found value is set to
    // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
    // injector. AngularJS only supports a single tree and should always check the module injector.
    NgAdapterInjector.prototype.get = function (token, notFoundValue) {
        if (notFoundValue === core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
            return notFoundValue;
        }
        return this.modInjector.get(token, notFoundValue);
    };
    return NgAdapterInjector;
}());

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 */

var moduleUid = 0;

// A helper function for creating an AngularJS module that
// can bootstrap an Angular module
// * on-demand* (possibly lazily) when a downgradedComponent
// needs to be
// instantiated. Part of the
// [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that

/**
 * @description
 * A helper function for creating an AngularJS module that
 * can bootstrap an Angular module
 * * on-demand* (possibly lazily) when a `@link downgradeComponent` downgraded component
 * needs to be
 * instantiated.
 * Part of the
 * [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that
 * support AOT compilation.
 * It allows loading/initializing the Angular part of a hybrid application lazily and not having to
 * pay
 * the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes
 * and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular
 * module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from
 * that point onwards.
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
 * using
 * `platformBrowser`'s `@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an
 * `NgModuleRef`. The function is
called with an array of extra providers that are expected to be available from the
returned `NgModuleRef`'s `Injectors`. The `downgradeModule()` returns the name of the created AngularJS
wrapper module. You can use it to declare a dependency in your main AngularJS module.

** Differences with `UpgradeModule`

Besides their different API, there are two important internal

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differences between
* `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid
applications:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS
module
   * inside the [@link NgZone Angular zone].
2. Unlike `UpgradeModule`,
   `downgradeModule()` does not automatically run a
   * [$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest) when changes are
   detected in the Angular part of the application.
   * What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes.
   * This will inevitably result in more change detection runs than necessary.
   * `downgradeModule()`, on the other side, does not try to tie the two change detection systems more tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

You can manually trigger a change detection run in AngularJS using
[scope.$apply(...)](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply) or
[$rootScope.$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest) when changes are detected in the Angular part of the application.

Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.
- If you want some injectables to be shared among all downgraded modules, you can provide them as `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).
- When using `bootstrapModule` or `bootstrapModuleFactory` to bootstrap the module, each one is considered a `\"root\"` module. As a consequence, a new instance will be created for every injectable provided in `\"root\"` (via `@link Injectable#providedIn`).
- If this is not your intention, you can have a shared module (that will act as act as the `\"root\"` module) and create all downgraded modules using that module's injector.
- When using `bootstrapModuleFactory` to bootstrap the module, each one is considered a `\"root\"` module. As a consequence, a new instance will be created for every injectable provided in `\"root\"` (via `@link Injectable#providedIn`).
- If this is not your intention, you can have a shared module (that will act as act as the `\"root\"` module) and create all downgraded modules using that module's injector.
- If you want some injectables to be shared among all downgraded modules, you can provide them as `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).

```javascript
function downgradeModule(moduleFactoryOrBootstrapFn) {
    var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleUid;
    var lazyModuleRefKey = "" + LAZY_MODULE_REF + lazyModuleName;
    var lazyInjectorKey = "" + INJECTOR_KEY + lazyModuleName;
    var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
        moduleFactoryOrBootstrapFn :
        function (extraProviders) {
            return
        };
    var injector;
    // Create an ng1 module to bootstrap.
    module( lazyModuleName, [] )
        .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */)
        .factory(INJECTOR_KEY, [lazyInjectorKey, identity])
        .factory(lazyInjectorKey, function () {
            setTempInjectorRef($injector);
            var result = {
                promise: bootstrapFn(angular1Providers).then(function (ref) {
                    injector = result.injector = new
                    NgAdapterInjector(ref.injector);
                    injector.get(SINJECTOR);
                    return injector;
                })
            };
            return result;
        });
}
```

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```
S PROVIDE, function ($injector, $provide) {

$provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);

return lazyModuleName;
}

function identity(x) {
    return x;
}

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 */

var REQUIRE_PREFIX_RE = /^\^\^?\^\^?$/; // Classes

var UpgradeHelper = function ($injector, name, elementRef, directive) {

    this.$injector = $injector;
    this.name = name;
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.element = elementRef.nativeElement;
    this.$element = element(this.element);
    this.directive = directive || UpgradeHelper.getDirective($injector, name);

    return lazyModuleName;
}

UpgradeHelper.prototype.buildController = function (controllerType, $scope) {

    var locals = {
        '$scope': $scope,
        '$element': this.$element
    };

    var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);

    this.$element.data(controllerKey(this.directive.name), controller);
    return controller;
}

UpgradeHelper.prototype.compileTemplate = function (template) {

    if (template === undefined) {
        template = UpgradeHelper.getTemplate($injector, this.directive, false, this.$element);
    }

    return this.compileHtml(template);
}

UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {

    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
        controllerInstance.$onDestroy();
    }

    $scope.$destroy();
    // Clean the jQuery/jqLite data on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    // https://github.com/jquery/jquery/blob/3e743b2d8553267f955f71ea72483779156134d9/src/manipulation.js#L223
    // https://github.com/angular/angular.js/blob/26ddc5f830f90a3d22f4b2aabb70d86df6d68c82/src/jqLite.js#L306-L312
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // https://github.com/angular/angular.js/blob/26ddc5f830f90a3d22f4b2aabb70d86df6d68c82/src/Angular.js#L1911-
```
this.directive.require || (this.directive.controller && this.directive.name);\n
if (isMap(require)) {\n
Object.keys(require).forEach(function (key) {\n
var value = require[key];\n
var match =
value.match(REQUIRE_PREFIX_RE);\n
var name = value.substring(match[0].length);\n
if
(!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n
return
require;\n
};\n
UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n
var _this = this;\n
if (!require) {\n
return null;\n
}\n
else if (Array.isArray(require)) {\n
return require.map(function (req) { return _this.resolveRequire(req); });\n
}\n
else if (typeof
require === 'object') {\n
var value_1 = {};\n
Object.keys(require).forEach(function (key) { return
value_1[key] = _this.resolveRequire(require[key]); });\n
return value_1;\n
}\n
else if (typeof
require === 'string') {\n
var match = require.match(REQUIRE_PREFIX_RE);\n
var inheritType
= match[1] || match[3];\n
var name_1 = require.substring(match[0].length);\n
var isOptional =
!!match[2];\n
var searchParents = !!inheritType;\n
var startOnParent = inheritType === '^^';\n
var ctrlKey = controllerKey(name_1);\n
var elem = startOnParent ? this.$element.parent() :
this.$element;\n
var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);\n
if (!value && !isOptional) {\n
throw new Error(\"Unable to find required '\" + require + \"' in upgraded
directive '\" + this.name + \"'.\");\n
}\n
return value;\n
}\n
else {\n
throw
new Error(\"Unrecognized 'require' syntax on upgraded directive '\" + this.name + \"': \" + require);\n
}\n
};\n
return UpgradeHelper;\n }());\n function getOrCall(property) {\n
var args = [];\n
for (var _i =
1; _i < arguments.length; _i++) {\n
args[_i - 1] = arguments[_i];\n
}\n
return isFunction(property) ?
property.apply(void 0, __spread(args)) : property;\n }\n // NOTE: Only works for `typeof T !== 'object'`.\n
function isMap(value) {\n
return value && !Array.isArray(value) && typeof value === 'object';\n }\n
function notSupported(name, feature) {\n
throw new Error(\"Upgraded directive '\" + name + \"' contains
unsupported feature: '\" + feature + \"'.\");\n }\n\n /**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n var NOT_SUPPORTED = 'NOT_SUPPORTED';\n var
INITIAL_VALUE$1 = {\n
__UNINITIALIZED__: true\n };\n var Bindings = /** @class */ (function () {\n
function Bindings() {\n
this.twoWayBoundProperties = [];\n
this.twoWayBoundLastValues = [];\n
this.expressionBoundProperties = [];\n
this.propertyToOutputMap = {};\n
}\n
return
Bindings;\n }());\n /**\n * @description\n *\n * A helper class that allows an AngularJS component to be
used from Angular.\n *\n * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid
upgrade apps that support AOT compilation.*\n *\n * This helper class should be used as a base class for
creating Angular directives\n * that wrap AngularJS components that need to be \"upgraded\".\n *\n *
@usageNotes\n * ### Examples\n *\n * Let's assume that you have an AngularJS component called
`ng1Hero` that needs\n * to be made available in Angular templates.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero\"}\n *\n * We must create a `Directive` that will make this
AngularJS component\n * available inside Angular templates.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\"}\n *\n * In this example you can see that we must
derive from the `UpgradeComponent`\n * base class but also provide an {@link Directive `@Directive`}
decorator. This is\n * because the AOT compiler requires that this information is statically available at\n *
compile time.\n *\n * Note that we must do the following:\n * * specify the directive's selector (`ng1-hero`)\n
* * specify all inputs and outputs that the AngularJS component expects\n * * derive from
`UpgradeComponent`\n * * call the base class from the constructor, passing\n * * the AngularJS name of the
component (`ng1Hero`)\n * * the `ElementRef` and `Injector` for the component wrapper\n *\n *
@publicApi\n */\n var UpgradeComponent = /** @class */ (function () {\n
/**\n
* Create a new
`UpgradeComponent` instance. You should not normally need to do this.\n
* Instead you should derive a new
class from this one and call the super constructor\n
* from the base class.\n
*\n
* {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\" }\n
*\n
* * The `name` parameter should be
the name of the AngularJS directive.\n
* * The `elementRef` and `injector` parameters should be acquired from

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Angular by dependency
    * injection into the base class constructor.

UpgradeComponent(name, elementRef, injector) {
    this.name = name;
    this.elementRef = elementRef;
    this.injector = injector;
    this.helper = new UpgradeHelper(injector, name, elementRef);
    this.$injector = this.helper.$injector;
    this.$element = this.helper.$element;
    this.directive = this.helper.directive;
    this.bindings = this.initializeBindings(this.directive);
    // We ask for the AngularJS scope from the Angular injector, since
    // we will put the new component scope onto the new injector for each component
    var $parentScope = injector.get(SSCOPE);
    // QUESTION 1: Should we create an isolated scope if the scope is only true?
    this.$componentScope = $parentScope.$new(!!this.directive.scope);
    // QUESTION 2: Should we make the scope accessible through $element.scope/isolateScope()?
    UpgradeComponent.prototype.ngOnInit = function () {
        var _this = this;
        // Collect contents, insert and compile template
        var attachChildNodes = this.helper.prepareTransclusion();
        var linkFn = this.helper.compileTemplate();
        // Instantiate controller
        var controllerType = this.directive.controller;
        var bindToController = this.directive.bindToController;
        if (controllerType) {
            this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
        } else if (bindToController) {
            throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
        }
        // Set up outputs
        this.$injector = this.helper.prepareTransclusion();
        this.initializeOutputs();
        // We ask for the AngularJS scope from the Angular injector, since
        // we will put the new component scope onto the new injector for each component
        var $parentScope = injector.get(SSCOPE);
        // QUESTION 1: Should we create an isolated scope if the scope is only true?
        this.$componentScope = $parentScope.$new(!!this.directive.scope);
        // QUESTION 2: Should we make the scope accessible through $element.scope/isolateScope()?
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            var _this = this;
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            var controllerType = this.directive.controller;
            var bindToController = this.directive.bindToController;
            if (controllerType) {
                this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
            } else if (bindToController) {
                throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
            }
            // Set up outputs
            this.$injector = this.helper.prepareTransclusion();
            this.initializeOutputs();
            // We ask for the AngularJS scope from the Angular injector, since
            // we will put the new component scope onto the new injector for each component
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            // QUESTION 1: Should we create an isolated scope if the scope is only true?
            this.$componentScope = $parentScope.$new(!!this.directive.scope);
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            UpgradeComponent.prototype.ngOnInit = function () {
                var _this = this;
                // Collect contents, insert and compile template
                var attachChildNodes = this.helper.prepareTransclusion();
                var linkFn = this.helper.compileTemplate();
                // Instantiate controller
                var controllerType = this.directive.controller;
                var bindToController = this.directive.bindToController;
                if (controllerType) {
                    this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
                } else if (bindToController) {
                    throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
                }
                // Set up outputs
                this.$injector = this.helper.prepareTransclusion();
                this.initializeOutputs();
                // We ask for the AngularJS scope from the Angular injector, since
                // we will put the new component scope onto the new injector for each component
                var $parentScope = injector.get(SSCOPE);
                // QUESTION 1: Should we create an isolated scope if the scope is only true?
                this.$componentScope = $parentScope.$new(!!this.directive.scope);
                // QUESTION 2: Should we make the scope accessible through $element.scope/isolateScope()?
                UpgradeComponent.prototype.ngOnInit = function () {
                    var _this = this;
                    // Collect contents, insert and compile template
                    var attachChildNodes = this.helper.prepareTransclusion();
                    var linkFn = this.helper.compileTemplate();
                    // Instantiate controller
                    var controllerType = this.directive.controller;
                    var bindToController = this.directive.bindToController;
                    if (controllerType) {
                        this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
                    } else if (bindToController) {
                        throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
                    }
                    // Set up outputs
                    this.$injector = this.helper.prepareTransclusion();
                    this.initializeOutputs();
                    // We ask for the AngularJS scope from the Angular injector, since
                    // we will put the new component scope onto the new injector for each component
                    var $parentScope = injector.get(SSCOPE);
                    // QUESTION 1: Should we create an isolated scope if the scope is only true?
                    this.$componentScope = $parentScope.$new(!!this.directive.scope);
                    // QUESTION 2: Should we make the scope accessible through $element.scope/isolateScope()?
                    UpgradeComponent.prototype.ngOnInit = function () {
                        var _this = this;
                        // Collect contents, insert and compile template
                        var attachChildNodes = this.helper.prepareTransclusion();
                        var linkFn = this.helper.compileTemplate();
                        // Instantiate controller
                        var controllerType = this.directive.controller;
                        var bindToController = this.directive.bindToController;
                        if (controllerType) {
                            this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
                        } else if (bindToController) {
                            throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
                        }
                        // Set up outputs
                        this.$injector = this.helper.prepareTransclusion();
                        this.initializeOutputs();
                        // We ask for the AngularJS scope from the Angular injector, since
                        // we will put the new component scope onto the new injector for each component
                        var $parentScope = injector.get(SSCOPE);
                        // QUESTION 1: Should we create an isolated scope if the scope is only true?
                        this.$componentScope = $parentScope.$new(!!this.directive.scope);
                        // QUESTION 2: Should we make the scope accessible through $element.scope/isolateScope()?
btcIsObject = typeof directive.bindToController === 'object';
            if (btcIsObject &
Object.keys(directive.scope).length) {
                throw new Error('Binding definitions on scope and controller at
the same time is not supported.');
            }

            var context = btcIsObject ? directive.bindToController :
directive.scope;
            var bindings = new Bindings();
            if (typeof context == 'object') {
                var bindingType = definition.charAt(0);

                switch (bindingType) {
                    case '@':
                    case '<':
                        // We don't
                        break;
                    case '=':
                        bindings.twoWayBoundProperties.push(propName);
                        bindings.twoWayBoundLastValues.push(INITIAL_VALUE$1);
                        bindings.propertyToOutputMap[propName] = propName + 'Change';
                        break;
                    case '&':
                        bindings.expressionBoundProperties.push(propName);
                        bindings.propertyToOutputMap[propName] = propName;
                        break;
                    default:
                        var json = JSON.stringify(context);
                        throw new Error("Unexpected mapping '" +
bindingType + "' in '" + json + "' in '" + _this.name + "' directive.");
                }
            }

            return bindings;
        };
        UpgradeComponent.prototype.initializeOutputs = function () {
            var
                this = this;
            // Initialize the outputs for `=' and `&` bindings
            this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
            .forEach(function (propName) {
                var outputName = _this.bindings.propertyToOutputMap[propName];
                _this[outputName] = new core.EventEmitter();
            });
        };
        UpgradeComponent.prototype.bindOutputs = function () {
            var
                this = this;
            // Bind `&` bindings to
            the corresponding outputs
            this.bindings.expressionBoundProperties.forEach(function (propName) {
                var outputName = _this.bindings.propertyToOutputMap[propName];
                var emitter =
                    _this[outputName];
                _this.bindDestination[propName] = function (value) { return emitter.emit(value); };
            });
            UpgradeComponent.prototype.forwardChanges = function (changes) {
                var
                    this = this;
                // Forward input changes to `bindDestination`
            Object.keys(changes).forEach(function (propName) { return _this.bindDestination[propName] =
changes[propName].currentValue; });
            });
        };
    }

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is
governed by an MIT-style license that can be
found in the LICENSE file at https://angular.io/license
     */

    /**
     * @description
     *
     * An `NgModule`, which you import to provide AngularJS core services,
     * and has an instance method used to bootstrap the hybrid upgrade application.
     *
     * *Part of the
     * [upgrade/static](api?query=upgrade/static)
     * library for hybrid upgrade apps that support AOT compilation*
     *
     * The `upgrade/static` package contains helpers that allow AngularJS and Angular components
     * to be
     * used together inside a hybrid upgrade application, which supports AOT compilation.
     * Specifically, the
     * classes and functions in the `upgrade/static` module allow the following:

     * 1. Creation of an Angular
directive that wraps and exposes an AngularJS component so
     *    that it can be used in an Angular template. See `UpgradeComponent`.
     * 2. Creation of an AngularJS directive that wraps and exposes an Angular component
     *    that it can be used in an AngularJS template. See `downgradeComponent`.
     * 3. Creation of an
Angular root injector provider that wraps and exposes an AngularJS
    * service so that it can be injected into an
Angular context. See

    * { @link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS
    * service} below.

    * 4. Creation of an AngularJS service that wraps and exposes an Angular
    * so that it can be injected into an AngularJS context. See `downgradeInjectable`.

    * 3. Bootstrapping of a hybrid
Angular application which contains both of the frameworks
    * coexisting in a single application.

    * See also the
    * { @link UpgradeModule#examples examples} below.
When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. 1. There are two independent frameworks running in a single application, each framework treats the other as a black box. 2. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others. 3. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. 4. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated. 5. An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.

6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.

Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. 1. This implies that the component bindings will always follow the semantics of the framework.

2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while Angular templates must use `camelCase`. 3. However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding. 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. 9. The new application is running in an Angular zone, and therefore it no longer needs calls to `\$apply()`.

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

Importing this `NgModule` will add providers for the core AngularJS services to the root injector. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

It also contains properties to access the root injector, the `NgZone` and the `AngularJS $injector`.

### Examples

Import the `UpgradeModule` into your top level `NgModule`.

```typescript
@NgModule({
  imports: [UpgradeModule],
  bootstrap: [this]}

```Then bootstrap your top level AngularJS module.

```typescript
bootstrap: [UpgradeModule].

```### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

```typescript
import {UpgradeModule} from '@angular/upgrade';

```

var UpgradeModule = /** @class */ (function () {
  function UpgradeModule() {
    this.ngZone = ngZone;
  }

```typescript

Upgrading an AngularJS service

```typescript
@publicApi

```typescript

The root `Injector` for the upgrade application.

```typescript
bootstrap: UpgradeModule.

```
application\n
* @param [config] optional extra AngularJS bootstrap configuration\n
*/\n
UpgradeModule.prototype.bootstrap = function (element$1, modules, config /*angular.IAngularBootstrapConfig*/)
{\n
var _this = this;\n
if (modules === void 0) { modules = []; }\n
var INIT_MODULE_NAME
= UPGRADE_MODULE_NAME + '.init';\n
// Create an ng1 module to bootstrap\n
var initModule =
module_(INIT_MODULE_NAME, [])\n
.constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)\n
.value(INJECTOR_KEY, this.injector)\n
.factory(LAZY_MODULE_REF, [INJECTOR_KEY, function
(injector) { return ({ injector: injector }); }])\n
.config([\n
$PROVIDE, $INJECTOR,\n
function ($provide, $injector) {\n
if ($injector.has($$TESTABILITY)) {\n
$provide.decorator($$TESTABILITY, [\n
$DELEGATE,\n
function
(testabilityDelegate) {\n
var originalWhenStable = testabilityDelegate.whenStable;\n
var injector = _this.injector;\n
// Cannot use arrow function below because we need the
context\n
var newWhenStable = function (callback) {\n
originalWhenStable.call(testabilityDelegate, function () {\n
var ng2Testability =
injector.get(core.Testability);\n
if (ng2Testability.isStable()) {\n
callback();\n
}\n
else {\n
ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback));\n
}\n
});\n
};\n
testabilityDelegate.whenStable = newWhenStable;\n
return testabilityDelegate;\n
}\n
]);\n
}\n
if
($injector.has($INTERVAL)) {\n
$provide.decorator($INTERVAL, [\n
$DELEGATE,\n
function (intervalDelegate) {\n
// Wrap the $interval service so
that setInterval is called outside NgZone,\n
// but the callback is still invoked within it. This is so
that $interval\n
// won't block stability, which preserves the behavior from AngularJS.\n
var wrappedInterval = function (fn, delay, count, invokeApply) {\n
var pass = [];\n
for (var _i = 4; _i < arguments.length; _i++) {\n
pass[_i - 4] =
arguments[_i];\n
}\n
return _this.ngZone.runOutsideAngular(function ()
{\n
return intervalDelegate.apply(void 0, __spread([function () {\n
var args = [];\n
for (var _i = 0; _i < arguments.length; _i++) {\n
args[_i] = arguments[_i];\n
}\n
// Run callback
in the next VM turn - $interval calls\n
// $rootScope.$apply, and running the callback
in NgZone will\n
// cause a '$digest already in progress' error if it's in the\n
// same vm turn.\n
setTimeout(function () { _this.ngZone.run(function
() { return fn.apply(void 0, __spread(args)); }); });\n
}, delay, count, invokeApply],
pass));\n
});\n
};\n
wrappedInterval['cancel'] =
intervalDelegate.cancel;\n
return wrappedInterval;\n
}\n
]);\n
}\n
}\n
])\n
.run([\n
$INJECTOR,\n
function ($injector) {\n
_this.$injector = $injector;\n
// Initialize the ng1 $injector provider\n
setTempInjectorRef($injector);\n
_this.injector.get($INJECTOR);\n
// Put the injector on the
DOM, so that it can be \"required\"\n
element(element$1).data(controllerKey(INJECTOR_KEY),
_this.injector);\n
// Wire up the ng1 rootScope to run a digest cycle whenever the zone settles\n
// We need to do this in the next tick so that we don't prevent the bootup\n
// stabilizing\n
setTimeout(function () {\n
var $rootScope = $injector.get('$rootScope');\n
var
subscription = _this.ngZone.onMicrotaskEmpty.subscribe(function () {\n
if ($rootScope.$$phase)
{\n
if (core.isDevMode()) {\n
console.warn('A digest was triggered while
one was already in progress. This may mean that something is triggering digests outside the Angular zone.');\n
}\n
return $rootScope.$evalAsync();\n
}\n
return
$rootScope.$digest();\n
});\n
$rootScope.$on('$destroy', function () {
subscription.unsubscribe(); });\n
}, 0);\n
}\n
]);\n
var upgradeModule =
module_(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));\n
// Make sure

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resumeBootstrap() only exists if the current bootstrap is deferred

var windowAngular = window["angular"];
windowAngular.resumeBootstrap = undefined;

// Bootstrap the AngularJS application inside our zone
this.ngZone.run(function () {
    bootstrap(element$1, [upgradeModule.name],
        config); });

// Patch resumeBootstrap() to run inside the ngZone
if (windowAngular.resumeBootstrap)
{
    var originalResumeBootstrap = windowAngular.resumeBootstrap;
    var ngZone = this.ngZone;

    windowAngular.resumeBootstrap = function () {
        var_this = this;
        var args = arguments;
        windowAngular.resumeBootstrap = originalResumeBootstrap;
        return ngZone.run(function () {
            return windowAngular.resumeBootstrap.apply(_this, args);
        });
    };

    UpgradeModule = __decorate([
        core.NgModule({ providers: [angular1Providers] }),
    ], UpgradeModule);
}

return UpgradeModule;

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * Generated bundle index. Do not edit.
 */

exports.UpgradeComponent = UpgradeComponent;
exports.UpgradeModule = UpgradeModule;
exports.VERSION = VERSION;

// This file only re-exports items to appear in the public api. Keep it that

windowAngular.resumeBootstrap = function () {
    return
    };
}

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
    $inject?: string[];
}

export type IInjectable = (Ng1Token | Function)

export type SingleOrListOrMap<T> = T | T[];

interface IModule {
    name: string;
    requires: (string|IInjectable)[];
    config(fn: IInjectable): IModule;
    directive(selector: string, factory: IInjectable): IModule;
    component(selector: string, component: IComponent): IModule;
    controller(name: string, type: Injectable): IModule;
    factory(key: Ng1Token, factoryFn: Injectable):
IModule;\nvalue(key: Ng1Token, value: any): IModule;\nconstant(token: Ng1Token, value: any): IModule;\nrun(a: Injectable): IModule;\nexport interface ICompilerService {\n  (element: Element|NodeList|Node[])[string, 
transclude?: Function): ILinkFn;\nexport interface ILinkFn {\n  (scope: IScope, cloneAttachFn?: 
IClonedAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n  $$slots?: {[slotName: string]: 
ILinkFn[]};\nexport interface ILinkFnOptions {\n  parentBoundTranscludeFn?: Function;\ntranscludeControllers?: {[key: string]: any};\nfutureParentElement?: Node;\n}export interface IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
run(a: IInjectable): IModule;
}
export interface ICompileService {\n  (element: Element|NodeList|Node[]|string, 
transclude?: Function): IModule;\n}
export interface IAugmentedJQuery {\n
export interface ILinkFn {\n  (scope: IScope, cloneAttachFn?: 
IClonedAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n  $$slots?: {[slotName: string]: 
ILinkFn[]};\nexport interface ILinkFnOptions {\n  parentBoundTranscludeFn?: Function;\ntranscludeControllers?: {[key: string]: any};\nfutureParentElement?: Node;\n}export interface IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
run(a: IInjectable): IModule;
}
export interface ICompileService {\n  (element: Element|NodeList|Node[])[string, 
transclude?: Function): ILinkFn;\nexport interface ILinkFn {\n  (scope: IScope, cloneAttachFn?: 
IClonedAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n  $$slots?: {[slotName: string]: 
ILinkFn[]};\nexport interface ILinkFnOptions {\n  parentBoundTranscludeFn?: Function;\ntranscludeControllers?: {[key: string]: any};\nfutureParentElement?: Node;\n}export interface IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
run(a: IInjectable): IModule;
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ILinkFn[]};\nexport interface ILinkFnOptions {\n  parentBoundTranscludeFn?: Function;\ntranscludeControllers?: {[key: string]: any};\nfutureParentElement?: Node;\n}export interface IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
run(a: IInjectable): IModule;
}
(controllerName: string, locals?: any): any

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {[key: string]: Function};
  $asyncValidators: {[key: string]: Function};
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[],
                   config?: IAngularBootstrapConfig) =>
                   IInjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) =>
  IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

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 * found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';

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use const INJECTOR_KEY = '$$angularInjector';

export const INJECTOR_KEY = '$$angularInjector';

export const LAZY_MODULE_REF = '$$angularLazyModuleRef';

export const NG_ZONE_KEY = '$$angularNgZone';

export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;

export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 *
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 */

import {Injector, NgModule, Type} from '@angular/core';

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

let $injector: angular.IInjectorService|null = null;

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]
})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon upgraded AngularJS services.
 * This function returns an 'NgModule' decorated class that is configured to wire up the Angular
 * and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services.
 * Use the returned class as an `\import` when configuring the 'TestBed'.
 * In the following code snippet, we are configuring the TestBed with two imports.
 * The 'Ng2AppModule' is the Angular part of our hybrid application and the 'ng1AppModule' is the AngularJS part.
 * This function returns an 'NgModule' decorated class that is configured to wire up the Angular
 * and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * Once this is done we can get hold of services via the Angular 'Injector' as normal.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated
 * as needed by the AngularJS '$injector'.

 * In the following code snippet, 'HeroesService' is an Angular service
 * that depends upon an AngularJS service, 'titleCase':

 * The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the
 * responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger
 * AngularJS handlers of async events from Angular.

 * Do not use 'createAngularTestingModule' in the same spec as 'createAngularJSTestingModule'
 * or 'createAngularJSModules'.

 * The helper

 * Here is the example application and its unit tests that use 'createAngularTestingModule' and 'createAngularJSTestingModule'
 * A helper function to use when unit testing AngularJS services that depend upon downgraded Angular
 * services.
 * This function returns an AngularJS module that is configured to wire up the AngularJS
 * and AngularJS injectors without the need to actually bootstrap a hybrid app. See 'UpgradeModule' or 'ng1Module' for more information.

 * The helper sets up global variables to hold the shared Angular and AngularJS injectors.
 * Only call this helper once per spec.

 * Do not use 'createAngularTestingModule' in the same spec as 'createAngularJSTestingModule'.

 * Here is the example application and its unit tests that use 'createAngularTestingModule'
 * and 'createAngularJSTestingModule'.

 * Create a new AngularJS module that includes the specified AngularJS modules.

 * The AngularJS injector should have 'strictDI' enabled.

 * This function returns an AngularJS module that is configured to wire up the AngularJS
 * and AngularJS injectors without the need to actually bootstrap a hybrid app.
This makes it simpler and faster to unit test services.

In the following code snippet, we are configuring the `Sinjector` with two modules:

1. The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the
2. `Ng2 AppModule`, which is the Angular part.

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `SrootScope.Sapply`, as necessary, to trigger AngularJS handlers of async events from Angular.

Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularJSTestingModule` and `createAngularTestingModule` to access Angular modules in the configuration. The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

The helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

The helper function creates AngularJS TestingModule with the Angular part of a hybrid application.

It is the responsibility of the test writer to call `SrootScope.Sapply`, as necessary, to trigger AngularJS handlers of async events from Angular.

Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularJSTestingModule` and `createAngularTestingModule` to access Angular modules in the configuration. The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static/testing.js.map

No license file was found, but licenses were detected in source scan.

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---

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 * found in the LICENSE file at
 * https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of the
 * common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const

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 * common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */

export function __extends(d, b) {
    extendStatics(d, b);
    function __() { this.constructor = d; }\n\n    d.prototype = b === null? Object.create(b) : (__.prototype = b.prototype, new __());
}

export function __assign() {
    __assign = Object.assign || function __assign(t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
            s = arguments[i];
            for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)
                t[p] = s[p];
        }
        return t;
    }
    return __assign.apply(this, arguments);
}

export function __rest(s, e) {
    var t = {};
    for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)
        t[p] = s[p];
    if (s != null && typeof Object.getOwnPropertySymbols === "function")
        for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++) {
            if (e.indexOf(p[i]) < 0 && Object.prototype.propertyIsEnumerable.call(s, p[i]))
                t[p[i]] = s[p[i]];
        }
    return t;
}

export function __decorate(decorators, target, key, desc) {
    var c = arguments.length, r = c < 3 ?
        target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;
    if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc);
    else for (var i = decorators.length - 1; i >= 0; i--) if (d = decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key, r) : d(target, key)) || r;
    return c > 3 && r && Object.defineProperty(target, key, r), r;
}

export function __param(paramIndex, decorator) {
    return function (target, key) { decorator(target, key, paramIndex); }
}

export function __metadata(metadataKey, metadataValue) {
    if (typeof Reflect === "object" && typeof Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);
}

export function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
        function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
        resolve.fulfilled(value) || function step(result) { result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value); }); }
    }).then(value => { try { step(generator.fulfilled(value)); } catch (e) { reject(e); } })
}

export function __generator(thisArg, body) { \n    var r; \n    return { \n        next: function (n) { \n            if (n.done) return this; \n            var step = n.step; \n            var arg = step.value; \n            var res = step.next; \n            r = res.call(thisArg, arg); \n            if (r.done) return this; \n            return { \n                value: r.value, \n                done: r.done, \n                step: step, \n                internal: res \n            }; \n        }, \n        step: function (n) { \n            if (n.done) return this; \n            var step = n.step; \n            var arg = step.value; \n            var res = step.next; \n            r = res.call(thisArg, arg); \n            if (r.done) return this; \n            return { \n                value: r.value, \n                done: r.done, \n                step: step, \n                internal: res \n            }; \n        } \n    }(); \n}

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export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface within `// $inject?: string[]`, which is not compatible with `$inject?: Ng1Token[]`: ReadonlyArray<Ng1Token>[];
  $inject?: Function extends {[key: string]: T};
}

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, factory: Injectable): IModule;
  run(a: Injectable): IModule;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): void;
  $apply(exp?: Ng1Expression): any;
  $digest(): void;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
}

export interface IProvideService {
  $get: Injectable;
  provider(token: Ng1Token, provider: IProvider): IProvider;
  service(token: Ng1Token, type: Injectable): IProvider;
  value(token: Ng1Token, factory: Injectable): IProvider;
}
You should not specify a value for \`\$\{downgradedModule\}\` unless you are downgrading more than one Angular module (via \`\$\{downgradedModule\}(\$injector)\`).

---

```typescript
const enum UpgradeAppType {
  None,

  Dynamic,

  Static,

  Lite,
}

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 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef !: ComponentRef<any>;
  // TODO(issue/24571): remove '!'.
  private changeDetector !: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector !: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel: INgModelController, private parentInjector: Injector,
    private $injector: IInjectorService, private $compile: ICompileService,
    private $parse: IParseService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[] {
    const compiledProjectableNodes = [];
    const componentScopeName = getTypeName(this.componentScope);
    if (componentScopeName) {
      compiledProjectableNodes = getScopeNodes
    }
    return compiledProjectableNodes;
  }
```
Node[][] = this.groupProjectableNodes();

const linkFns = projectableNodes.map(nodes =>
  this.$compile(nodes));

this.element.empty();

linkFns.forEach(linkFn => {
  linkFn(this.scope,
    (clone: Node[]) => {
    compiledProjectableNodes.push(clone);
    this.element.append(clone);
  });
});

return compiledProjectableNodes;

createComponent(projectableNodes: Node[][]) {
  this.$compile(projectableNodes.map(nodes => nodes[0]));

  this.element.empty();

  const linkFns = projectableNodes.map(nodes =>
    this.$compile(nodes));

  linkFns.forEach(linkFn => {
    linkFn(this.scope,
      (clone: Node[]) => {
      compiledProjectableNodes.push(clone);
      this.element.append(clone);
    });
  });

  return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]) {
  this.$compile(projectableNodes.map(nodes => nodes[0]));

  this.element.empty();

  const linkFns = projectableNodes.map(nodes =>
    this.$compile(nodes));

  linkFns.forEach(linkFn => {
    linkFn(this.scope,
      (clone: Node[]) => {
      compiledProjectableNodes.push(clone);
      this.element.append(clone);
    });
  });

  return compiledProjectableNodes;
}
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();
    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };
    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) resolve(idx, p.then(v => resolve(idx, v)));
      else resolve(idx, p);
    });
    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) return;
    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }
}

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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, InjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that
 * allows an Angular component to be used from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering
 * an AngularJS wrapper directive for a Component.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you
 * have an Angular component called `ng2Heroes` that needs
 * to be made available in AngularJS templates.
 *
 * `{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
 *
 * We must create an AngularJS
 * [directive](https://docs.angularjs.org/guide/directive) that wraps the
 * `ng2Heroes` component.
 *
 * `{@example
 * upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
 *
 * For more details and examples on
 * downgrading Angular components to AngularJS components please
 * visit the [Upgrade
 * guide](guide/upgrade#using-angular-components-from-angularjs-code).
 *
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular
 * module.)
 *
 * `propagateDigest?: boolean`: Whether to perform
 * [link ChangeDetectorRef#detectChanges
 * change detection](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).
 */
export function downgradeComponent(info: {
  component: Type<any>;
  downgradedModule?: string;
  propagateDigest?: boolean;
  inputs?: string[];
  outputs?: string[];
  selectors?: string[];
})": any /* angular.IInjectable */ {
    // When using `downgradeModule()`...
    // In this case, the module will be bootstrapped and need to be instantiated.
    // We need to perform change detection on the component.
  }
}
example:
  // - We always need to attach the component view to the `ApplicationRef` for it to be
  // dirty-checked.
  // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
  // Angular zone.
  // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
  // inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
  // force it back in).
  const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
  const
  wrapCallback: <T>(cb: () => T) => typeof cb =
      !isNgUpgradeLite ? cb => cb : cb => () =>
          NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
  let ngZone: NgZone;

  // When downgrading multiple modules, special handling is needed wrt injectors:
  const hasMultipleDowngradedModules =
      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

  return {
    restrict: 'E',
    terminal: true,
    require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
    link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
      // We might have to compile the contents asynchronously, because this might have been
      // triggered by `UpgradeNg1ComponentAdapterBuilder`,
      // before the Angular templates have
      // - been compiled.
      const ngModel: INgModelController =
          required[1];
    const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
    let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
    let ranAsync = false;

    if
      !parentInjector || hasMultipleDowngradedModules {
        const downgradedModule = info.downgradedModule
            || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}$({downgradedModule})`;
        const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;

        validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);

        const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
        moduleInjector =
            lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
    }

    // Notes:
    //
    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
    // the same instance, but that is irrelevant):
    // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
    //   be on the same tree as the `NgModule` that declares this downgraded component.
    // - `finalParentInjector` is used for all other injection purposes. (Note that Angular knows to only traverse
    //   the component-tree part of that injector when looking for an injectable and then switch to the module
    //   injector. // When forking downgraded components, we have
    //   // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
    //   //   NGModule and use its injector as both
    //   // finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component (and thus a
    //   parentInjector`) and we are sure that it` belongs to the same `NgModule` as this downgraded component
    //   (e.g. because there is only one downgraded module, we use that `parentInjector` as both
    // finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component, but it may belong to a different `NgModule`, then we` use the `parentInjector` as `finalParentInjector` and this downgraded
    // component
    //   declaring `NgModule`'s injector as `finalModuleInjector`.
    // Note 1: If the
    // 'NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).
    // Note 2: It is possible that (while there are multiple downgraded modules) this `NgModule`
    // downgraded component and its parent component both belong to the same `NgModule`.
    // In that case, we could have used the
    // 'parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different `NgModule`'s. That doesn't really affect
    // anything, since 'parentInjector` has `moduleInjector` as ancestor and trying to resolve
    // `ComponentFactoryResolver` from either one will return the
    // same instance.
    // If there is a parent component, use its injector as parent injector.
    // If this is a `top-level` Angular component, use the module injector.
    const finalParentInjector = parentInjector || moduleInjector;
    const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
      // component belongs to.
    const
componentFactoryResolver: ComponentFactoryResolver =
moduleInjector.get(ComponentFactoryResolver);

const componentFactory: ComponentFactory<any> =
moduleInjector.get(ComponentFactoryResolver).resolveComponentFactory(info.component) !

if (!componentFactory) {
  throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
}

const injectorPromise = new ParentInjectorPromise(element);

const injector = injectorPromise.resolve(facade.getInjector());

if (ranAsync) {
  // If this is run async, it is possible
  // that it is not run inside a
  // digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}

const downgradeFn =
  !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
    if (!ngZone) {
      ngZone = pInjector.get(NgZone);
    }

    wrapCallback(() => doDowngrade(pInjector, mInjector))();
  };

// NOTE:
// Not
// using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
// closure compiler (or some related tool) complains:
// `TypeError: ...
// Direct downgrading component Promise.all is not a function`.
SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
  doDowngrade(pInjector, mInjector));

ranAsync = true;

// bracket-notation because
// of closure - see "#14441"

directiveFactory[$inject] = [$COMPILE, $INJECTOR, $PARSE];

directiveFactory['$inject'] = [IInjectorService, $INJECTOR, $INJECTOR_KEY] from '@angular/core';

{import {Injector} from '@angular/core';
import {INInjectorService} from './angular1';
import {INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * `upgrade/static` library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function that provides access to the
 * Angular `**$inject**` service by identifying the
 * `token` parameter.
 *
 * **usageNotes**
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an `NgModule`
 * that will be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService` on an AngularJS module.
 *
 * @example upgrade/static/ts/full/module.ts
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * For example, it is _OK_ to use a downgraded service in an
 * upgraded component that is only used
 * from a downgraded Angular component provided by the same Angular
 * module as the Injectable, but _not OK_ to use it in an AngularJS component that may be used
 * independently of Angular or
 * use it in a downgraded Angular component from a different module.
<div><p>Open Source Used In MSX Enterprise Access Service Pack 4.0.0  3547</p></div>
IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {
        $scope: $scope, 'Element': this.$element,
    }
    const controller = this.$controller(controllerType, locals, null,
      this.$directive.controllerAs);
    this.$element.data !(controllerKey(this.$directive.name !), controller);
    return controller;
  }

  compileTemplate(template?: string): ILinkFn
  { return this.compileHtml(template ? this.$injector, this.directive, false, this.$element) as string;
    }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    angularElement.cleanData([this.element]);
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try
      // to destroy the transclusion scope if
      // `$template` is empty. Since the transcluded content comes from Angular,
      // not AngularJS,
      // there will be no transclusion scope here.
      // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
      return $template.push(scope); // `null` is a dummy `scope.$destroy()` method
    };
    let $template = contentChildNodes;
    if (transclude) {
      const slots = Object.create(null);

      if (typeof transclude === 'object') {
        $template = 
          UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
      }

      // Attach `$$slots` to default slot transclude fn.
      attachChildrenFn.$$slots = slots;
    }

    return attachChildrenFn;
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);
    if
  }

  resolveAndBindControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);
    if

```
new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap as any;

this.type = MyClass;

this.extractBindings() {
  const btcIsObject = typeof this.directive!.bindToController === 'object';
  if (btcIsObject && Object.keys(this.directive!.scope!).length) {
    throw new Error('Binding definitions on scope and controller at the same time are not supported.');}

  const context = (btcIsObject) ? this.directive!.bindToController : this.directive!.scope;
  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);
      const bindingOptions = definition.charAt(1);
      const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

      switch (bindingType) {
        case '@':
          case '<':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;
        case '=':
          this.inputs.push(inputName);
          this.inputsRename.push(inputNameRename);
          this.propertyMap[inputName] = propName;
          this.outputs.push(outputName);
          this.outputsRename.push(outputNameRenameChange);
          this.propertyMap[outputName] = propName;
          this.checkProperties.push(propName);
          this.propertyOutputs.push(outputName);
          break;
        case '&':
          this.outputs.push(outputName);
          this.outputsRename.push(outputNameRename);
          this.propertyMap[outputName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }
}

/**
 * Upgrade ng1 components into Angular.
 */
static resolve(
  exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},
  $injector: IInjectorService): Promise<string[]> {
  const promises = Object.keys(exportedComponents).map(name => {
    const exportedComponent = exportedComponents[name];
    exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
    exportedComponent.extractBindings();

    return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
      .then(template => 
        exportedComponent.template = template)
      .then();
  });

  return Promise.all(promises);
}

UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance|null = null;
  destinationObj: IBindingDestination)null = null;
  checkLastValues: any[] = [];
  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;

  constructor(
    private helper: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!this.directive.scope);
    this.componentScope = scope.$new(!this.directive.scope);
    const controllerType = this.directive.controller;
    if (this.directive.bindToController &amp; controllerType) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
      this.destinationObj = this.controllerInstance
      else {
        this.destinationObj = this.componentScope;
        for (let i = 0; i < inputs.length; i++) {
          this[(this as any)[inputs[i]]] = null;
        }
        for (let j = 0; j < outputs.length; j++) {
          const emitter = (this as any)[outputs[j]] = new EventEmitter<any &
          if (this[propOuts.indexOf(outputs[j]) === -1) {
            this[propOuts.indexOf(outputs[j])].emit((value: any) =>
              emitter.emit(value)(emitter);
          }
        }
      }
    }
    }
    }
}

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this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onInit
    if (isFunction(this.controllerInstance.$onInit)) {
      this.controllerInstance.$onInit();
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLinkFn(this.componentScope, null !, [parentBoundTranscludeFn: attachChildNodes]);
    }
    if (postLink) {
      postLinkFn(this.componentScope, this.Selement, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }
  }

  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges(ng1Changes);
    }

    ngDoCheck() {
      this.setComponentProperty(name, value);
    }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from '../../common/src/constants';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../../common/src/util';
import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS directive from Angular component
 *    (See [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application which
 *    coexisting in a single application.
 *    (See [UpgradeAdapter#upgradeNg1Component()])
 * 4. Angular components always execute inside Angular framework codebase regardless of
 *    where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates
 *    an Angular directive, which bootstraps the AngularJS component directive in that location.
 */
component can be downgraded to an AngularJS component directive. This creates\n * an AngularJS directive,
which bootstraps the Angular component in that location.\n * 7. Whenever an adapter component is instantiated the
host element is owned by the framework\n * doing the instantiation. The other framework then instantiates and
owns the view for that\n * component. This implies that component bindings will always follow the semantics of
the\n * instantiation framework. The syntax is always that of Angular syntax.\n * 8. AngularJS is always
bootstrapped first and owns the bottom most view.\n * 9. The new application is running in Angular zone, and
therefore it no longer needs calls to\n * `$apply()`.\n *\n * ### Example\n *\n * ```\n * const adapter = new
UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);\n * const module =
angular.module('myExample', []);\n * module.directive('ng2Comp',
adapter.downgradeNg2Component(Ng2Component));\n *\n * module.directive('ng1Hello', function() {\n * return
{\n *
scope: { title: '=' },\n *
template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'\n * };\n * });\n
*\n *\n * @Component({\n * selector: 'ng2-comp',\n * inputs: ['name'],\n * template: 'ng2[<ng1-hello
[title]=\"name\">transclude</ng1-hello>](<ng-content></ng-content>)',\n * directives:\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('ng1Hello')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n *\n * document.body.innerHTML = '<ng2-comp name=\"World\">project</ng2-comp>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n *\n
* ```\n *\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n * [Ahead-ofTime compilation](guide/aot-compiler).\n * @publicApi\n */\nexport class UpgradeAdapter {\n private idPrefix:
string = `NG2_UPGRADE_${upgradeCount++}_`;\n private downgradedComponents: Type<any>[] = [];\n /**\n
* An internal map of ng1 components which need to up upgraded to ng2.\n *\n * We can't upgrade until injector
is instantiated and we can retrieve the component metadata.\n * For this reason we keep a list of components to
upgrade until ng1 injector is bootstrapped.\n *\n * @internal\n */\n private ng1ComponentsToBeUpgraded:
{[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};\n private upgradedProviders: StaticProvider[] =
[];\n // TODO(issue/24571): remove '!'.\n private ngZone !: NgZone;\n // TODO(issue/24571): remove '!'.\n
private ng1Module !: IModule;\n private moduleRef: NgModuleRef<any>|null = null;\n // TODO(issue/24571):
remove '!'.\n private ng2BootstrapDeferred !: Deferred<IInjectorService>;\n\n constructor(private ng2AppModule:
Type<any>, private compilerOptions?: CompilerOptions) {\n if (!ng2AppModule) {\n
throw new Error(\n
'UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');\n }\n }\n\n /**\n * Allows
Angular Component to be used from AngularJS.\n *\n * Use `downgradeNg2Component` to create an AngularJS
Directive Definition Factory from\n * Angular Component. The adapter will bootstrap Angular component from
within the\n * AngularJS template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The component is
instantiated by being listed in AngularJS template. This means that the\n * host element is controlled by
AngularJS, but the component's view will be controlled by\n * Angular.\n * 2. Even thought the component is
instantiated in AngularJS, it will be using Angular\n * syntax. This has to be done, this way because we must
follow Angular components do not\n * declare how the attributes should be interpreted.\n * 3. `ng-model` is
controlled by AngularJS and communicates with the downgraded Angular component\n * by way of the
`ControlValueAccessor` interface from @angular/forms. Only components that\n * implement this interface are
eligible.\n *\n * ### Supported Features\n *\n * - Bindings:\n * - Attribute: `<comp name=\"World\">`\n *
- Interpolation: `<comp greeting=\"Hello {{name}}!\">`\n * - Expression: `<comp [name]=\"username\">`\n *
- Event: `<comp (close)=\"doSomething()\">`\n * - ng-model: `<comp ng-model=\"name\">`\n * - Content
projection: yes\n *\n * ### Example\n *\n * ```\n * const adapter = new UpgradeAdapter(forwardRef(() =>
MyNg2Module));\n * const module = angular.module('myExample', []);\n * module.directive('greet',
adapter.downgradeNg2Component(Greeter));\n *\n * @Component({\n * selector: 'greet',\n * template:
'{{salutation}} {{name}}! - <ng-content></ng-content>'\n * })\n * class Greeter {\n * @Input() salutation:
string;\n * @Input() name: string;\n * }\n *\n * @NgModule({\n * declarations: [Greeter],\n * imports:
[BrowserModule]\n * })\n * class MyNg2Module {}\n *\n * document.body.innerHTML =\n * 'ng1

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template: <greet salutation="Hello!" [name]="world">text</greet>;

* * *

adapter.bootstrap(document.body, ['myExample']).ready(function() {

  expect(document.body.textContent).toEqual('ng1 template: Hello world! - text');

}));

* * *

// Allows AngularJS Component to be used from Angular.

* * *

const upgradeNg1Component = (component: Type<any>) => {

  return upgradeComponent({component: type});
}

/**

 * Registers the adapter's AngularJS upgrade module for unit testing in AngularJS.
 * Use this instead of `angular.mock.module()` to load the upgrade module into
 * the Angular testing injector.
 *
 * @usageNotes
 * ### Example
 *
 * ```
 * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
 *
 * // configure the adapter with upgrade/downgrade components and services
 * upgradeAdapter.downgradeNg2Component(MyComponent);
 *
 * let upgradeAdapterRef: UpgradeAdapterRef;
 * let $compile, $rootScope;
 *
 * // We must register the adapter before any calls to `inject()`
 * beforeEach(() => {
 *   upgradeAdapterRef = upgradeAdapter.registerForNg1Tests(['heroApp']);
 * });
 *
 * beforeEach(inject((_$compile_, _$rootScope_) => {
 *   $compile = _$compile_;
 *   $rootScope = _$rootScope_;
 * }));
 *
 * it("says hello", (done) => {
 *   upgradeAdapterRef.ready(() => {
 *     const element = $compile("<my-component></my-component>")($rootScope);
 *     $rootScope.$apply();
 *     expect(element.html()).toContain("Hello World");
 *     done();
 *   })
 * });
 *
 * @param modules any AngularJS modules that the upgrade module should depend upon
 * @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.
 */

registerForNg1Tests(modules?: string[]): UpgradeAdapterRef {

  const windowNgMock = (window as any).angular.mock;

  if (!windowNgMock) {
    throw new Error("You must use AngularJS version 1.3 or later. Please install the angular-mock library to use this function.");
  }

  const ng1ComponentsToBeUpgraded = new UpgradeNg1ComponentsToBeUpgraded(type.name, type); else {
    return (this.ng1ComponentsToBeUpgraded[name].type, type.name) = new UpgradeNg1ComponentAdapterBuilder(name).type;
  }

  * * *

  Register the adapter's AngularJS upgrade module for unit testing in AngularJS.

  * * *

  Use this instead of `angular.mock.module()` to load the upgrade module into the AngularJS testing injector.

  * * *

  const upgradeAdapter = new UpgradeAdapter(MyNg2Module);

  * * *

  configure the adapter with upgrade/downgrade components and services

  * * *

  upgradeAdapter.downgradeNg2Component(MyComponent);

  * * *

  let upgradeAdapterRef: UpgradeAdapterRef;

  * * *

  We must register the adapter before any calls to `inject()`

  * * *

  beforeEach(() => {

    upgradeAdapterRef = upgradeAdapter.registerForNg1Tests(['heroApp']);

  });

  * * *

  beforeEach(inject((_$compile_, _$rootScope_) => {

    $compile = _$compile_;

    $rootScope = _$rootScope_;

  }));

  * * *

  it("says hello", (done) => {

    const element = $compile("<my-component></my-component>")($rootScope);

    $rootScope.$apply();

    expect(element.html()).toContain("Hello World");

    done();

  })

  * * *

  @param modules any AngularJS modules that the upgrade module should depend upon

  * * *

  registerForNg1Tests(modules?: string[]): UpgradeAdapterRef {

    const windowNgMock = (window as any).angular.mock;

    if (!windowNgMock) {

      throw new Error("You must use AngularJS version 1.3 or later. Please install the angular-mock library to use this function.");

    }

    // This method is only available in AngularJS version 1.3 or later.

    return upgradeAdapterRef;

  }

}
windowNgMock) {

    throw new Error('Failed to find \'angular.mock.module\'.');
}

declareNg1Module(modules); windowNgMock.module(this.ng1Module.name); const upgrade = new UpgradeAdapterRef(); this.ng2BootstrapDeferred.promise.then(() => {
    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    const windowAngular = (window as any /* TODO #???? */)['angular'];
    windowAngular.resumeBootstrap = undefined;

    this.ngZone.run(() => { bootstrap(element, [this.ng1Module.name], config!); });

    Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(() => {
        angularElement(element).data(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);
        this.moduleRef!.injector.get<NgZone>(NgZone).run(() => { (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); });
    }, onError);
}

/**
 * Allow AngularJS service to be accessible from Angular.
 *
 * @usageNotes
 * 
 * ```
 * class Example {
 *   constructor(server: Server, login: Login) {
 *     ...
 *   }
 * }
 * 
 * const adapter = new UpgradeAdapter(MyNg2Module);
 * adapter.upgradeNg1Provider('login', {asToken: Login});
 * 
 * adapter.bootstrap(document.body, ['myExample']).ready(() => {
 *     const example: Example = adapter.upgradeNg1Injection('login').get(Example);
 * });
 * ```
 */
export function upgradeNg1Provider(name: string, options?: {asToken: any}) {
    const token = options && options.asToken || name;
    this.upgradedProviders.push({
        provide: token,
        useFactory: ($injector: IInjectorService) => $injector.get(name),
        deps: [$INJECTOR]
    });

    /**
     * Allow Angular service to be accessible from AngularJS.
     *
     * @usageNotes
     * 
     * ```
     * class Example {
     *   constructor(server: Server, login: Login) {
     *     ...
     *   }
     * }
     * 
     * const adapter = new UpgradeAdapter(MyNg2Module);
     * 
     * const example: Example = adapter.upgradeNg2Injection('login').get(Example);
     * ```
     */
    function downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }

    /**
     * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
     * hybrid application.
     *
     * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.
     */

    }
The AngularJS modules that this upgrade module should depend upon.

```typescript
@returns The AngularJS upgrade module that is declared by this method.

* * @usageNotes

### Example

```typescript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);

upgradeAdapter.declareNg1Module(['heroApp']);
```

* * * * private declareNg1Module(modules: string[]): IModule

```typescript
let let original$applyFn: Function;
let let rootScopePrototype: any;
let let rootScope: IRootScopeService;

const upgradeAdapter = new UpgradeAdapter();
const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);

const platformRef = platformBrowserDynamic();

this.ngZone = new NgZone({enableLongStackTrace: true});
this.ng2BootstrapDeferred = new Deferred();

ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)

.factory(INJECTOR_KEY, () => this.moduleRef!.injector.get(Injector))
.factory(LAZY_MODULE_REF, () => this.moduleRef!.injector.get(LazyModuleRef))

.factory(COMPILER_KEY, () => this.moduleRef!.injector.get(Compiler))

.constant(NG_ZONE_KEY, this.ngZone)

.factory(COMPILER_KEY, () => this.moduleRef!.injector.get(Compiler))

.decorator($ROOT_SCOPE, function(rootScopeDelegate: IRootScopeService) {
  // Capture the root apply so that we can delay first
call to $apply until we
  // bootstrap Angular and then we replay and restore the $apply.
rootScopePrototype = rootScopeDelegate.constructor.prototype;
  if (rootScopePrototype.hasOwnProperty('$apply')) {
    original$applyFn = rootScopePrototype.$apply;
  } else {
    throw new Error('Failed to find \'$apply\' on \'$rootScope\'!');
  }
  return rootScope =

rootScopeDelegate;
});

if (ng1Injector.has($$TESTABILITY)) {
  provide.decorator($$TESTABILITY, function(testabilityDelegate: ITestabilityService) {
    const originalWhenStable: Function = testabilityDelegate.whenStable;
    // Cannot use arrow function below because we need the context
    const newWhenStable = function(this: unknown, callback: Function) {
      originalWhenStable.call(this, function() {
        const ng2Testability: Testability =
          upgradeAdapter.moduleRef!.injector.get(Testability);
    if (ng2Testability.isStable()) {
        callback.apply(this, arguments);
      } else {
        ng2Testability.whenStable(newWhenStable.bind(this, callback));
      }
    });
    testabilityDelegate.whenStable = newWhenStable;
    return testabilityDelegate;
  });

  ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
    UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)
      .then(() => {
        // Note: There is a bug in TS 2.4 that prevents us from
        // inlining this into @NgModule
        // TODO(tbosch): find or file a bug against TypeScript for this.
        const ngModule = {
          providers: [
            {provide: $INJECTOR, useFactory: () => ng1Injector},
            {provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE)},
            this.upgradedProviders
          ],
          imports: [resolveForwardRef(this.ng2AppModule)],
          entryComponents: this.downgradedComponents
        };
        // At this point we have ng1 injector and we have prepared
        // ng1 components to be upgraded, we now can bootstrap ng2.
        @NgModule({jit: true, ...ngModule})
        class DynamicNgUpgradeModule {
          constructor() {
            ngDoBootstrap();
          }
        }
    platformRef
      .bootstrapModule(this, this.compilerOptions !,
      ngZone: this.ngZone]
      .then(ref: NgModuleRef<any> => {
        this.moduleRef = ref;
        this.ngZone.run(() => {
          if (rootScopePrototype) {
            rootScopePrototype.$apply = original$applyFn;
            while (delayApplyExps.length) {
              rootScope.$apply(delayApplyExps.shift());
            }
          } if (ng1Module) {
            rootScopePrototype.$applyFn = rootScopePrototype.$apply;
            while (delayApplyExps.length) {
              rootScope.$apply(delayApplyExps.shift());
            }
          }
        })
      })
      .then(() => {
        let subscription =
          this.ngZone.onMicrotaskEmpty.subscribe(
            next: () => {
              if (rootScope.$$phase) {
                rootScope.$$phase.$apply = original$applyFn;
                while (delayApplyExps.length) {
                  rootScope.$apply(delayApplyExps.shift());
                }
              } rootScopePrototype.$applyFn = rootScopePrototype.$apply;
              while (delayApplyExps.length) {
                rootScope.$apply(delayApplyExps.shift());
              }
            }
          })
        })
      })
      .then(() => {
    });
```
if (isDevMode()) {
  console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
  return rootScope.$digest();
}

return rootScope.$digest();

this.ng2BootstrapDeferred.reject(e); return ng1Module; return ng1Module/***/ * Synchronous promise-like object to wrap parent injectors; * to preserve the synchronous nature of AngularJS's $compile;

*Anclass ParentInjectorPromise [Vin / TODO(issue/24571): remove '!. private injector !: Injector; private callbacks: ([injector: Injector] => any)[] = []; 
 constructor(private: private: IAugmented JQuery) \n // store the promise on the element\n element.data [controllerKey(INJECTOR_KEY), this]; \n then(callback: (injector: Injector) => any) \n if (this.injector) \n callback(this.injector); \n else \n this.callbacks.push(callback);

this.ng2BootstrapDeferred.resolve(injector: Injector) \n this.injector = injector; \n \n // reset the element data to point to the real injector\n element.data [controllerKey(INJECTOR_KEY), injector]; \n \n // clean out the element to prevent memory leaks\n this.element = null; \n \n // run all the queued callbacks\n this.callbacks.forEach(callback => callback());

UpgradeAdapterRef\n
UpgradeAdapterRef\n
UpgradeAdapterRef\n
UpgradeAdapterRef\n
/**
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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of this package. allowing
 * Angular 1 and Angular 2+ to run side by side in the same
 * application.
 */
export {VERSION} from './src/common/src/version';
export {UpgradeAdapter, UpgradeAdapterRef} from './src/dynamic/src/upgrade_adapter';

// This file only re-exports content of the `src`
// folder. Keep that way.
"/" * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license

"/" * Generated bundle index. Do not edit.

export * from './index';

// This file is not used to build this module. It is only used during editing\n// by the TypeScript language service and during build for verification. `ngc`\n// replaces this file with production index.ts when it rewrites private symbols\n// in names.\n
"/" * Generated bundle index. Do not edit.\n
"/" * Generated bundle index. Do not edit.\n
Open Source Used In MSX Enterprise Access Service Pack 4.0.0 3556
Open Source Used In MSX Enterprise Access Service Pack 4.0.0
Open Source Used In MSX Enterprise Access Service Pack 4.0.0
Open Source Used In MSX Enterprise Access Service Pack 4.0.0

No license file was found, but licenses were detected in source scan.

```javascript
{
"version":3,"file":"static.js","sources":
["/**
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 *
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 * found in the LICENSE file at
 * https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular`
  // typings extend the global `Function` interface with
  // `$inject?: string[]`, which is not compatible with `$inject?:
  // ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function extends{ $inject?: string[]}?
 Ng1Token[] : ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[]

export type SingleOrListOrMap<T> = T | T[] | {
 [key: string]: T;
}

export interface IModule {
  name: string;
  requires: (T | IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, FactoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;

  // IInjectable[] | IModule[] | ILinkFn | ICloneAttachFunction | IAugmentedJQuery | ICompileService
  // IModule | IRootScopeService
}

found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
zip/bundles/upgrade.umd.js.map
```
mapping between a property name and an attribute name. It is parsed from a string of the form `"prop: attr"` or simply `"propAndAttr"` where the property and attribute have the same identifier.

```typescript
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `
      (${this.attr})`;
    this.bracketParenAttr = `\[${(this.attr})\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}
```

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const enum UpgradeAppType {
  None,
  Dynamic,
  Static,
  Lite,
}

/**
 * @return
 * Whether the passed-in component implements the subset of the `ControlValueAccessor` interface needed for AngularJS `ng-model` compatibility.
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component (if it implements the needed subset of the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
       component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); }
      component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
      if (typeof component.registerOnTouched === 'function') {
        component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
      }
  }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef,
       ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
       StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes,
       IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef !: ComponentRef<any>;
  // TODO(issue/24571): remove '!'.
  private changeDetector !: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector !: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel: INgModelController, private parentInjector: Injector,
    private $injector: IInjectorService, private $compile: ICompileService,
    private $parse: IParseService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const providers: StaticProvider[] = [{
      provide: $SCOPE, useValue: this.componentScope}
    ];
    const childInjector = Injector.create(
      {providers: providers, parent: this.parentInjector, name:
        'DowngradeComponentAdapter'});

    this.componentRef =
        this.componentFactory.create(childInjector,
        projectableNodes, this.element[0]);
    this.viewChangeDetector =
        this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector =
        this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;

    const testability = this.componentRef.injector.get(Testability,
      null); this (testability) {
      (this.componentRef.injector.get(TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability));
      }
hookupNgModel(this.ngModel, this.component);

  setupInputs(ManuallyAttachView: boolean, propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string = null;
      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            if (strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
        // Use $watch() (in addition to $observe()) in order to initialize the input in time for `ngOnChanges()`. This is necessary if we are already in a `$digest`, which means that `ngOnChanges()` (which is called by a watcher) will run before the $observe() callback.
        let unwatch: Function = null;
        unwatch = attrs.$observe(input.attr, () => {
          unwatch = null;
          unwatch = null;
        });
        if (attrs.hasOwnProperty(input.bindAttr)) {
          expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
          expr = attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
          expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
          expr = attrs[input.bracketParenAttr];
        }
        if (expr != null) {
          const watchFn =
            (prop => (currValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        }
      }
    }
  }

  setupOutputs() {
    const attrs = this.attrs;
    const outputs = this.componentFactory.outputs || [];
    for (let j = 0; j < outputs.length; j++) {
      const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
      const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
      const bracketParenAttr = `[{(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})}]`;
      // order below is important - first update bindings then evaluate expressions
      if (attrs.hasOwnProperty(bindonAttr)) {
        this.subscribeToOutput(output, attrs[bindonAttr], true);
      }
      if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(output, attrs[bracketParenAttr], true);
      }
      if (attrs.hasOwnProperty(output.onAttr)) {
        this.subscribeToOutput(output, attrs[output.onAttr], false);
      }
      if (attrs.hasOwnProperty(output.parenAttr)) {
        this.subscribeToOutput(output, attrs[output.parenAttr], false);
      }
    }
  }

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as
      EventEmitter<any>;
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter(this.scope, v) :
                             (v: any) => getter(this.scope, {'$event': v})
      });
    } else {
      throw new
  }

  viewChangeDetector.markForCheck();

  setupOutputs();

  constructor(LifecycleAdapter: LifecycleAdapter, hostView: View, viewRoot: View, appRef: ApplicationRef, hostView: View, hostView: View);
Error('Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'!');

private registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.componentRef.destroy();
  let destroy = false;
  this.element.$on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (destroyed || !destroy) {
      destroy = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });

  // Group a set of DOM nodes into 'ngContent' groups, based on the given selector(s).
  ngContentSelectors.forEach(selector => {
    const ngContentEls = this.element.querySelectorAll(selector);
    ngContentEls.forEach(ngContentEl => {
      const ngContentRef = this.componentFactory.componentRef(ngContentEl);
      ngContentRef.injector.get(INgModelController).ngContentEls.push(ngContentRef);
      ngContentRef.injector.get(IScope).ngContentEls.push(ngContentRef);
      ngContentRef.element.$on('$destroy', () => {
        ngContentRef.injector.get(INgModelController).ngContentEls = ngContentRef.injector.get(INgModelController).ngContentEls.filter(nes => nes !== ngContentRef);
        ngContentRef.injector.get(IScope).ngContentEls = ngContentRef.injector.get(IScope).ngContentEls.filter(nes => nes !== ngContentRef);
      });
    });
  });

  return ngContentSelectorGrouping;
}

/**
 * @param {?} ngContentSelector
 * @param {?} ngContentEls
 * @return {?} A group of DOM nodes matching the given selector(s).
 */
export function groupNodesBySelector(ngContentSelector: string[], ngContentEls: Node[]) {
  const ngContentGroup: Node[][] = [];

  ngContentSelector.forEach(selector => {
    ngContentGroup.push([{}]);
  });

  ngContentEls.forEach(ngContentEl => {
    const ngContentIndex = findMatchingNgContentIndex(ngContentEl, ngContentSelector);
    if (ngContentIndex !== -1) {
      ngContentGroup[ngContentIndex].push(ngContentEl);
    }
  });

  return ngContentGroup;
}

function findMatchingNgContentIndex(ngContentEl: any, ngContentSelector: string[]) {
  let wildcardNgContentIndex = -1;
  ngContentSelector.forEach(selector => {
    if (selector === '*') {
      wildcardNgContentIndex = ngContentSelector.length;
    } else if (matchesSelector(ngContentEl, selector)) {
      ngContentGroup.push([{}]);
      ngContentIndex = ngContentGroup.length - 1;
    }
  });

  ngContentGroup.sort((a, b) => a.length - b.length);

  if (wildcardNgContentIndex !== -1) {
    ngContentGroup.push(ngContentGroup[0].slice());
  }

  return ngContentGroup.length ? ngContentGroup[0][0] : null;
}

function matchesSelector(ngContentEl: any, selector: string) {
  if (ngContentEl.nodeType !== Node.ELEMENT_NODE) {
    return false;
  }

  if (selector === '*') {
    return true;
  }

  for (let i = 0; i < selector.length; i++) {
    if (selector[i] === '.') {
      if (selector[i + 1] === '#') {
        const element = ngContentEl.querySelector(selector.substring(i + 2));
        if (element) {
          return element === ngContentEl;
        }
      }
    }
  }

  return false;
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) {
      return;
    }

    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }

  thenAny(): Thenable<T> {
    return this.then((value) => value);
  }
}

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 * the LICENSE file at https://angular.io/license
 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';

export interface ISyncPromise<T> {
  then(callback: (value: T) => unknown): void;
  resolve(value: T): void;
  thenAny(): Thenable<T>;
  thenValue(): T;
  thenValueAsync(): Thenable<T>;
}

export function isThenable<T>(obj: unknown): boolean {
  return !!obj && isFunction((obj as any).then);
}

/**
 * @param {?} promise
 * @return {?} A description of the given promise.
 */
export function describePromise(promise: Promise<any>) {
  return `A Promise that resolves to ${promise.thenValue()}`;
}

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 * the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) {
      return;
    }

    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }

  thenAny(): Thenable<T> {
    return this.then((value) => value);
  }

  thenValue(): T;
  thenValueAsync(): Thenable<T>;
}

/*
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 *
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 * the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) {
      return;
    }

    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }

  thenAny(): Thenable<T> {
    return this.then((value) => value);
  }

  thenValue(): T;
  thenValueAsync(): Thenable<T>;
}
**@description**

* A helper function that allows an Angular component to be used from AngularJS.

**Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation.*

* This helper function returns a factory function to be used for registering an AngularJS wrapper directive for a downgraded Angular component.

**@usageNotes**

* ### Examples

* Let's assume that you have an Angular component called 'ng2Heroes' that needs to be made available in AngularJS templates.

* We must create an AngularJS directive that wraps the downgraded component.

* For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

**@param info contains information about the Component that is being downgraded:

  * `component: Type<any>`: The type of the Component that will be downgraded
  * `downgradedModule?: string`: The name of the downgraded module (if any) that the component 'belongs to', as returned by a call to 'downgradeModule()'. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
  * `propagateDigest?: boolean`: Whether to perform change detection on the component on every $digest. (This option is only necessary when using 'downgradeModule()' to downgra...
(!parentInjector || hasMultipleDowngradedModules) {
  const downgradedModule = info.downgradedModule
  // If there is a parent component, use its injector as parent injector.
  // If this is a "top-level" Angular component that belongs to a different NgModule,
  // use the module injector.
  const finalParentInjector = parentInjector || moduleInjector !;

  // If this is a "top-level" Angular component or the parent component may belong to a different NgModule,
  // use the module injector for module-specific dependencies.
  const finalModuleInjector = moduleInjector || parentInjector !;

  const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve ComponentFactoryResolver from the injector tied to the NgModule
    const componentFactoryResolver: ComponentFactoryResolver =
      moduleInjector.get(ComponentFactoryResolver);
    const componentFactory: ComponentFactory<any> =
      componentFactoryResolver.resolveComponentFactory(info.component) !;

    if (!componentFactory) {
      throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
    }

    const injectorPromise = new ParentInjectorPromise(element);
    const facade = new DowngradeComponentAdapter(
      element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
      componentFactory, wrapCallback);

    const projectableNodes = facade.compileContents();
    facade.createComponent(projectableNodes);
    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
    facade.setupOutputs();
    facade.registerCleanup();

    injectorPromise.resolve(facade.getInjector());

    if (ranAsync) {
      // If this is run async, it is possible that it is not run inside a digest
      // and initial input values will not be detected.
      scope.$evalAsync(() => {});
    }
  };

  const downgradeFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector))();
    };

  // NOTE:
  // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
  // Closure Compiler (or

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```javascript
some related tool) complains:
```

```javascript
// `TypeError: $src$downgrade_component_ParentInjectorPromise.all is not a function`
SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([injector, mInjector]) =>
downgradeFn(injector, mInjector));
```

```javascript
ranAsync = true;
```

```javascript
// bracket-notation because of closure - see #14441
directiveFactory[Inject] = {$COMPILE, SINJECTOR, SPARSE};
return directiveFactory;
```

```javascript
private injectorKey: string = controllerKey(INJECTOR_KEY);
constructor(private element: IAugmentedJQuery) {
  super();
  // Store the promise on the element.
  element.data(this.injectorKey, this);
}
```

```javascript
// bracket-notation because of closure - see #14441
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return directiveFactory;
```

```javascript
// bracket-notation because of closure - see #14441
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return directiveFactory;
```

```javascript
/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`. `\*%
 *\*class ParentInjectorPromise extends SyncPromise<Injector>`
 */
```

```javascript
/**
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 *
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 * found in the LICENSE file at https://angular.io/license
 */
```

```javascript
import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';
```

```javascript
/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an `NgModule` that will
 * be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService`:
 *```javascript
 *heroesService
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module:
 *```javascript
 *heroesService
 *
 * Inside an AngularJS component's controller we can get hold of the
 * service via the name we gave when downgrading.
 *```javascript
 *heroesService
 *
 * For example, it is _OK_ to use a downgrade service in an upgraded
 * component that is only used from a downgrade Angular component provided by the same
 * Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component
 * that may be used independently of Angular or use it in a downgrade Angular component from a different
 * module.
 *```javascript
 *heroesService
 *
 * This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular service module.
 */
```

```javascript
/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */
```

```javascript
import {Version} from '@angular/core';
```

```javascript
/**
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 * found in the LICENSE file at https://angular.io/license
 */
```
`@publicApi
 */
export const VERSION = new Version('9.0.7');

/**
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 * LICENSE file at https://angular.io/license
 */

import {IInjectorService} from './angular1';

// We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it.
// Then we `get` the ng1 injector from the module injector, which triggers the provider to read
// the stored injector and release the reference to it.

let tempInjectorRef: IInjectorService|null = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef)
    throw new Error('Trying to get the AngularJS injector before it being set."

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks

  return injector;
}

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];

/**
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 *
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef,
StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
'../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount,
isFunction} from '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';


let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a `downgraded component` needs to be
 * instantiated.
 *
 * Part of the `upgrade/static` library for hybrid upgrade apps that support AOT
 * compilation.
 * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having
to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these.
 * The Angular module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from that point onwards.
 *
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
 *   using `platformBrowser`. `@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()`.
 * - 'Function': If

---

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you pass a function, it is expected to return a promise resolving to an
* `NgModuleRef`. The function is called
with an array of extra [@link StaticProvider Providers] that are expected to be available from the returned
`NgModuleRef`’s `Injector`.
* `downgradeModule()` returns the name of the created AngularJS wrapper
module. You can use it to declare a dependency in your main AngularJS module.

* Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid
application. Note that the Angular pieces (e.g. downgraded services) will not be
available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded
component. `<div class="alert is-important">You cannot use `upgradeModule()` and `UpgradeModule` in the same hybrid
application.</div>`
* Use one or the other. `<div *

### Differences with `UpgradeModule`

Besides their different API, there are two important internal differences between
`downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:

* `upgradeModule()` does not automatically run any

### Downgrading multiple modules

It is possible to downgrade multiple modules and include
them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an
associated downgraded component or injectable needs to be instantiated.

* Things to keep in mind, when downgrading multiple modules:

* Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

* If you want some injectables to be shared among all downgraded modules, you can provide them as:

#### StaticProvider’s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).

#### Using `@link PlatformRef#bootstrapModuleFactory` to bootstrap the

### Downgrading multiple modules

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* If you want some injectables to be shared among all downgraded modules, you can provide them as:

#### StaticProvider’s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).

#### Using `@link PlatformRef#bootstrapModuleFactory` to bootstrap the

platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);\n
let injector: Injector; // Create an ng1 module to bootstrap.
angularModule(lazyModuleName, []).constant(UPGRADE_APP_TYPE_KEY, Upgrade.AppType.Lite).factory(INJECTOR_KEY,
  [lazyInjectorKey, identity] \n  .factory(lazyInjectorKey, \n    () => { \n      if (!injector) { \n        throw new Error('Trying to get the Angular injector before bootstrapping the corresponding
        module'); \n      } \n      return injector; \n    }) \n  .factory(LAZY_MODULE_REF,
    [lazyModuleRefKey, identity] \n    .factory(lazyModuleRefKey, \n      injector.get(SINJECTOR) \n    ) \n  ) \n  .return \n
$(provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(Sinjector) + 1));

$injector \n
function identity<T = any>(x: T): T {
  return x;
}

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* found in the LICENSE file at https://angular.io/license
*/

import { ElementRef, Injector, SimpleChanges } from '@angular/core';

import { DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement } from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef, 

      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);

    this.$injector \n
      let directives: IDirective[] = $injector.get(name + 'Directive');
      if (directives.length > 1) {
        throw new Error('Only support single directive definition for: $(name)');
      } \n
      const directive = directives[0];
      angularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
      // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. \n      if (directive.compile &
        !directive.link) notSupported(name, 'compile'); \n
      if (directive.replace) notSupported(name, 'replace');

      return directive;
    }

    static getTemplate($injector: IInjectorService, name: string): string|Promise<string> {
      if (directive.template !== undefined) {
        return getOrCall<string>(directive.template, $element);
      } else if (directive.templateUrl) {
        const $templateCache = $injector.get(STEMPLATE_CACHE) as ITemplateCacheService;
        const url = getOrCall<string>(directive templateUrl, $element);

        const template = $templateCache.get(url);
        if (template !== undefined) {
          return template;
        } else if (!fetchRemoteTemplate) {
          throw new Error('loading directive templates asynchronously is not supported');
        }

        return new Promise((resolve, reject) => {
          const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

          $httpBackend('GET', url, null, (status: number, response: string) => {
            if (status === 200) {
              resolve($templateCache.put(url, response));
            } else {
              reject('GET component template from ' + $url');
            }
          });
        });
    }
}
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```typescript
resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire = this.getDirectiveRequire();
  const requiredControllers = this.resolveRequire(directiveRequire);
  if (controllerInstance && this.directive.bindToController &
       isMap(directiveRequire)) {
    const requiredControllersMap = requiredControllers as {
      [key: string]: IControllerInstance;
    };
    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];
    });
  }
  return requiredControllers;
}

private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}

private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];
  let childNode: Node|null = null;
  while (childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
    childNodes.push(childNode);
  }
  return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller &
       this.directive.name) !;
  if (typeof require === 'object') {
    const value: {
      [key: string]: IControllerInstance;
    } = {};
    Object.keys(require).forEach(key => {
      value[key] = this.resolveRequire(require[key]) !;
    });
  } else if (typeof require === 'string') {
    const match = require.match(REQUIRE_PREFIX_RE) !;
    const name = require.substring(match[0].length);
    if (match[2]) {
      throw new Error('Unable to find required $require$ in upgraded directive $\{this.name\}':
          'Unrecognized `require` syntax on upgraded directive `$\{this.name\}$`:
          $\{require\}$ !
      )
    } else {
      throw new Error('Unable to find required `$require$` in upgraded directive `$\{this.name\}`:
          Unrecognized `require` syntax on upgraded directive `$\{this.name\}$`:
          $\{require\}$ !
      )
    }
  } else {
    throw new Error('Unrecognized `require` syntax on upgraded directive `$\{this.name\}$`:
        $\{require\}$ !
    )
  }
}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for `typeof T !== 'object'`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T;
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}
```
upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"}\n
*/

In this example you can see that we must derive from the `UpgradeComponent` base class but also provide an `{@link Directive `@Directive`}` decorator. This is *because* the AOT compiler requires that this information is statically available at *compile time.* *Note that we must do the following:*

**specify the directive's selector (`ng1-hero`)**
**specify all inputs and outputs that the AngularJS component expects**
**derive from `UpgradeComponent`**
**call the base class from the constructor,** passing

*the AngularJS name of the component (`ng1Hero`)*
*the `ElementRef` and `Injector` for the component wrapper*

In this example you must

- specify the directive's selector (`ng1-hero`)
- specify all inputs and outputs that the AngularJS component expects
- derive from `UpgradeComponent`
- call the base class from the constructor, passing

*the AngularJS name of the component (`ng1Hero`)*
*the `ElementRef` and `Injector` for the component wrapper*

Note that we must do the following:

- specify the directive's selector (`ng1-hero`)
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- specify the directive's selector (`ng1-hero`)
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In this example you must

- specify the directive's selector (`ng1-hero`)
- specify all inputs and outputs that the AngularJS component expects
- derive from `UpgradeComponent`
- call the base class from the constructor, passing

*the AngularJS name of the component (`ng1Hero`)*
*the `ElementRef` and `Injector` for the component wrapper*
Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.

The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together inside a hybrid upgrade application, which supports AOT compilation. Specifically, the classes and functions in the `upgrade/static` module allow the following:

1. Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.
2. Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be injected into an Angular context. See `downgradeComponent`.

The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together inside a hybrid upgrade application, which supports AOT compilation.

- **Classes and functions in the `upgrade/static` module**
  - `UpgradeComponent`: A directive that wraps and exposes an AngularJS component so that it can be used in an Angular template.
  - `downgradeComponent`: A directive that wraps and exposes an Angular component so that it can be injected into an Angular context.

### Mental Model

1. There are two independent frameworks running in a single application, each framework treats the other as a black box.
2. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
3. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated.
4. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.
5. An AngularJS component can be upgraded to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.
6. An Angular component can be downgraded to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.
7. Whenever an upgraded/downgraded component is instantiated, the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that the component bindings will always follow the semantics of the framework that owns the current template. So AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.
8. However, the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.
9. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
10. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap a hybrid angular application.

- **Core AngularJS services** Importing this `NgModule` will add providers for the core AngularJS services.
- **Bootstrap** The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade application.

### Examples

- Bootstrap the hybrid upgrade application.
- Kick off the whole process, by bootstrapping your top level AngularJS module.
There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe:

```
obsolete

```

There are no specific upgrades for AngularJS services. Instead you should just follow the recipe:

```
obsolete
```
whenever the zone settles
    // We need to do this in the next tick so that we don't prevent the boot up
    setTimeout(() => {
      const $rootScope = $injector.get('$rootScope');
      const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
        if ($rootScope.$$phase) {
          if (isDevMode()) {
            console.warn('A digest was triggered while one
          } else {
            return $rootScope.$evalAsync();
          }
          return $rootScope.$digest();
        }
      });
      $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });
    }, 0);
  }
]

    const upgradeModule = angularModule(UPGRADE_MODULE_NAME,
    [INIT_MODULE_NAME].concat(modules));

    // Make sure resumeBootstrap() only exists if the current
    bootstrap is deferred
    const windowAngular = (window as any)['angular'];
    windowAngular.resumeBootstrap
    = undefined;

    // Bootstrap the AngularJS application inside our zone
    this.ngZone.run(() => { bootstrap(element, [upgradeModule.name], config); });

    // Patch resumeBootstrap() to run inside the ngZone
    if (windowAngular.resumeBootstrap) {
      const originalResumeBootstrap: () => void =
        windowAngular.resumeBootstrap;
      const ngZone = this.ngZone;
      windowAngular.resumeBootstrap =
        function() {
          let args = arguments;
          windowAngular.resumeBootstrap = originalResumeBootstrap;
          return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
        };
    }

    export * from './index';
    export {angular1Providers as
      angular1Providers, compileFactory as
      compileFactory, injectorFactory as
      injectorFactory, parseFactory as
      parseFactory, rootScopeFactory as rootScopeFactory} from
      'path_to_angular1_providers';
    

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---

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/static.js.map

No license file was found, but licenses were detected in source scan.

---

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ILinkFn};\n}\n\nexport interface ILinkFnOptions {\n  parentBoundTranscludeFn?: Function;\n  transcludeControllers?: {\n    [key: string]: any\n  };\n  futureParentElement?: Node;\n}\n\nexport interface IRootScopeService {\n  $new(isolate?: boolean): IScope;\n  $id: string;\n  $parent: IScope;\n  $root: IScope;\n  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;\n  $destroy(): any;\n  $apply(exp: Ng1Expression): any;\n  $digest(): any;\n  SevalAsync(exp: Ng1Expression, locals?: any): void;\n  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;\n  $childTail: IScope;\n  $childHead: IScope;\n  $nextSibling: IScope;\n  [key: string]: any;\n}\n\nexport interface IAngularBootstrapConfig {\n  strictDi?: boolean;\n}\n\nexport interface IDirective {\n  compile?: IDirectiveCompileFn;\n  controller?: IController;\n  controllerAs?: string;\n  bindToController?: boolean;\n  link?: IDirectiveFn|IDirectivePrePost;\n  name?: string;\n  priority?: number;\n  replace?: boolean;\n  require?: DirectiveRequireProperty;\n  restrict?: string;\n  scope?: boolean|{\n    [key: string]: string\n  };\n  template?: string|Function;\n  templateUrl?: string|Function;\n  templateNamespace?: string;\n  terminal?: boolean;\n  transclude?: DirectiveTranscludeProperty;\n  type?: DirectiveType;\n  DirectiveRequireProperty = SingleOrListOrMap<\string>;\n  $export type DirectiveTranscludeProperty = boolean | \string;\n  $export type DirectiveRequireProperty = SingleOrListOrMap<\string>;\n  template?: string|Function;\n  templateUrl?: string|Function;\n  templateNamespace?: string;\n  terminal?: boolean;\n  transclude?: DirectiveTranscludeProperty;\n  type?: DirectiveType;\n  DirectiveRequireProperty = SingleOrListOrMap<\string>;\n  template?: string|Function;\n  templateUrl?: string|Function;\n  templateNamespace?: string;\n  terminal?: boolean;\n  transclude?: DirectiveTranscludeProperty;\n  type?: DirectiveType;\n  DirectiveRequireProperty = SingleOrListOrMap<\string>;
export const UPGRADE_MODULE_NAME = 'UpgradeModule';

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, Type} from '@angular/core';

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';

let $injector: angular.IInjectorService|null = null;
let injector: Injector;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.\n * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular\n * and AngularJS injectors without the need to actually bootstrap a hybrid application.\n * This makes it simpler and faster to unit test services.\n * Use the returned class as an `import` when configuring the `TestBed`.\n */

export function createAngularTestingModule(
    angularJSModules: string[], strictDi?: boolean): Type<any> {
  angular.module_('$$angularJSTestingModule', angularJSModules)
      .constant(UPGRADE_APP_TYPE_KEY,
      UpgradeAppType.Static)
      .factory(INJECTOR_KEY, () => injector);
  $injector = angular.injector(['ng',
      '$$angularJSTestingModule'], strictDi);
  return AngularTestingModule;
}

/**
 * A helper function to use when unit testing AngularJS services that depend upon downgraded Angular
 * services.\n * This helper is for testing services not Components.\n * For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or\n * `downgradeModule` for more information.\n *\n * The resulting configuration does not wire up AngularJS digests to Zone
 * hooks. It is the\n * responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger\n * AngularJS handlers of async events from Angular.\n *\n * The helper sets up global variables to hold the shared Angular and AngularJS injectors.\n * Only call this helper once per\n * spec.\n * Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n */

export function createAngularJSTestingModule($angularJSTestingModule: string[],\n  $angularJSModules: string[],\n  strictDi: boolean): Type<any> {
  angular.module_($angularJSTestingModule, $angularJSModules)
    .constant(UPGRADE_APP_TYPE_KEY,\n      UpgradeAppType.Static).
        factory(INJECTOR_KEY, () => injector);
      $injector = angular.injector(['ng',
          '$$angularJSTestingModule'], strictDi);
  return AngularTestingModule;
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.\n * This makes it simpler and faster to unit test services.\n * Use the returned AngularJS module in a call to\n */

['angular.mocks.module'](https://docs.angularjs.org/api/ngMock/function/angular.mock.module)\n
modules:\n * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the
 * `Ng2AppModule`, which is the Angular part.
 * \n * Once this is done we can get hold of services via the AngularJS `Sinjector` as normal.
 * Services that are (or have dependencies on) a downgraded Angular service,
 * will be instantiated as needed by the Angular root `Injector`.
 * \n * In the following code snippet,
 * `heroesService` is a downgraded Angular service that we are accessing from AngularJS.
 * \n * Do not use `createAngularUntestingModule` in the same spec as
 * `createAngularUntestingModule`.
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```typescript
import { Injectable, Injector } from '@angular/core';

@Injectable()
export class MyService {
  constructor(private injector: Injector) {
    // constructor logic
  }

  myMethod() {
    // method logic
  }
}

// More classes and methods...
```

---

### exports

- `Injectable` from '@angular/core'
- `Injector` from '@angular/core'
- `MyService` from `MyModule` (assuming)

---

This document appears to be a part of TypeScript code, possibly related to AngularJS or similar frameworks. It includes class definitions, service implementations, and dependency injection. The code snippet provided is an example of how services might be defined and used within a TypeScript class that extends `Injectable`. It demonstrates the use of dependency injection to provide services as needed and export these services for use by other parts of the application. This is a common practice in modern web frameworks to ensure loose coupling and easier testability.
```typescript
export const INJECTOR_KEY = '$injector';
export const LAZY_MODULE_REF = '$AngularLazyModuleRef';
export const NG_ZONE_KEY = '$ngZone';
export const REQUIRE_INJECTOR = '?^\*^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$UpgradeAppType';

export const REQUIRE_INJECTOR = '?^\*^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 */

/**
 * A `PropertyBinding` represents a mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `\"prop:attr\"`; or simply `\"propAndAttr\"` where the property
 * and attribute have the same identifier.\n *
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 */

export class PropertyBinding {
  bracketAttr!: string;
  bracketParenAttr!: string;
  parenAttr!: string;
  onAttr!: string;
  bindAttr!: string;
  bindonAttr!: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `(${this.attr})`;
    this.bracketParenAttr = `\[(${this.attr})\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}

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 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)\[:\-_\]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;

export function onError(e: any) {
  if (console.error) {
    console.error(e, e.stack);
  } else {
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '\$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
    .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  return (type as any).overriddenName || type.name || type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
                                                      UpgradeAppType.None;
}

UpgradeAppType.None;

function getUpgradeAppType($injector: IInjectorService) { UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : 
   UpgradeAppType.None;
}

function isFunction(value: any): value is Function {
  return typeof value === 'function';
}
```

an Angular module or include it in the AngularJS `app` (application?)

throw new Error(`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.

Did you forget to downgrade an Angular module or include it in the AngularJS `app` application?`);

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove `!==` from the component
  resolve!: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove `!==` from the component
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export

const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  'ngUpgrade' app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  'ngUpgrade').
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. 'ngUpgrade'-lite.).
  Lite,
}

/**
 * @return
 * Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for
 *     AngularJS `ng-model`
 *     compatibility.
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Test two values for
 * strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 */

import {ApplicationRef, ChangeDetectorRef,
  ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
  StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes,
  IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from
  './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove `!`. (The components should never be
  'ControlValueAccessor' interface needed for
  AngularJS `ng-model` compatibility.)
  component: any;
  // TODO(issue/24571): remove `!`. (The components should never be
  ChangeDetectorRef;
  // TODO(issue/24571): remove `!`. (The components should never be
  componentRef: ComponentRef<any>;
  // TODO(issue/24571): remove `!`. (The components should never be
  changeDetector: ChangeDetectorRef;
  // TODO(issue/24571): remove `!`. (The components should never be

  constructor(
    private element: IAugmentedJQuery,
    private attrs: IAttributes,
    private scope: IScope,
    private ngModel: INgModelController,
    private parentInjector: Injector,
    private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[] {
    const compiledProjectableNodes: Node[] = [];
    const projectableNodes: Node[] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty !();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append !(clone);
        });
      });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[]) {
    const
  providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
  const childInjector = Injector.create(
    providers: providers.parent: this.parentInjector, name:
    'DowngradeComponentAdapter');
  this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
  this.viewChangeDetector =

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  if (attrs.hasOwnProperty(output.parenAttr)) {
    this.subscribeToOutput(output, attrs[output.parenAttr]);
  }
  this.subscribeToOutput(output, attrs[output.onAttr]);
  if (attrs.hasOwnProperty(output.resolvedAttr)) {
    this.subscribeToOutput(output, attrs[output.resolvedAttr]);
  }
}

  subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as EventEmmitter<any>;
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter(getter(this.scope, v), this.scope) :
                              (v: any) => getter(this.scope, v)
      });
    } else {
      throw new Error(`Missing emitter '${output.prop}' on component`);
    }
  }

  registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }
    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents());
  }

  groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [[]];
    let wildcardNgContentIndex: number; = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
      projectableNodes[i] = [];
      for (let j = 0, jj = nodes.length; j < jj; ++j) {
        const node = nodes[j];
        if (matchesSelector(node, ngContentSelectors[i])) {
          projectableNodes[i].push(node);
        } else if (matchesSelector(node, ngContentSelectors[i])) {
          return projectableNodes[i].push(node);
        }
      }
    }
    return projectableNodes;
  }

  findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|number[] {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
      if (ngContentSelectors[i] === '*') {
        wildcardNgContentIndex = i;
      } else {
        if (matchesSelector(element, ngContentSelectors[i])) {
          ngContentIndices.push(i);
        }
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
  }

  findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|number[] {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -1;
    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
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      }
    }
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      }
    }
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    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
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    let wildcardNgContentIndex: number = -1;
    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
  }

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    let wildcardNgContentIndex: number = -1;
    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
  }

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    let wildcardNgContentIndex: number = -1;
    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
  }

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    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -1;
    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
  }

  findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|number[] {
    const ngContentIndices: number[] = [];
```typescript
this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {{LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey}} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for "downgrading" an Angular component.
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes"
 * ```
 *
 * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive) that will make this Angular component available inside AngularJS templates.
 *
 * The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `downgraded` component.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"
 * ```
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).
 *
 * @param info contains information about the Component that is being downgraded:
 *
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose `*` corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
 *
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one `*` Angular module.)
 *
 * - `propagateDigest?: boolean`: Whether to perform `ChangeDetectorRef#detectChanges` on the component on every `*` change detection
 *
 * ```
 * [digest](https://docs.angularjs.org/api/ng/type/S蓬勃Scope#scope)$.digest). If set to `false`, change detection will be performed when any of the component's inputs changes. (Default: true) returns a factory function that can be used to register the component in an angular module.
 * ```
 *
 * - `*` angular.IInjectable */
 * ```
 *   // When using `downgradeModule()` , we need to handle certain things specially. For example:
 *   // - We always need to attach the component view to the `ApplicationRef` for it to be rendered.
 *   // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
 *   // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
 *   // inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
 *   // return it back.
 *   const isNgUpgradeLite = getUpgradeAppType(Sinjector) === UpgradeAppType.Lite;
 *   const wrapCallback: <T>(cb: () => T) => typeof cb => cb => () => {
 *     NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
 *   };
 *   const hasMultipleDowngradedModules = !
 *   ```
 *
 */
```
```
isNgUpgradeLite & & (getDowngradedModuleCount($injector) > 1);\n
  return {\n    restrict: 'E',\n    terminal: true,\n    require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n    link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n      // We might have to compile the contents asynchronously, because this might have been
      // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have\n      // been compiled.\n      const ngModel: INgModel = $injector.resolve('NgModel');\n      ngModel.$on('downgradedModule', (module: Module) => {\n        const lazyModuleRefKey = `$\{LAZY_MODULE_REF}\${downgradedModule}`;\n        const attemptedAction = 'instantiating component $\{getTypeName(info.component)\}';\n        validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);
        const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;\n        moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
      });\n
      // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n      // the same instance, but that is irrelevant).\n      // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be\n      //   on the same tree as the `NgModule` that declares this downgraded component.\n      // - `finalParentInjector` is used for all other injection purposes.\n      // (Note that Angular knows to only traverse the component-tree part of that injector,\n      // when looking for an injectable and then switch to the module injector.)\n      // There are basically three cases:\n      // - If there is no parent component (thus no\n      //   `parentInjector`), we bootstrap the downgraded\n      //   `NgModule` and use its injector as both\n      //   `finalModuleInjector` and\n      // - `finalParentInjector` (they might be\n      //   the same instance, but that is irrelevant).\n      // - If there is a parent component (and thus a\n      //   `parentInjector`) and we are sure that it\n      //   belongs to the same `NgModule` as this downgraded component\n      //   (e.g. because there is only one\n      //   downgraded module, we use that `parentInjector` as both\n      //   `finalModuleInjector` and\n      //   `finalParentInjector`).\n      // - If there is a parent component, but it may belong\n      //   to a different `NgModule`, then we\n      //   use the `parentInjector` as `finalParentInjector` and\n      //   this downgraded component\n      //   declaring `NgModule`'s injector as `finalModuleInjector`.\n      // Note 1: If the\n      //   `NgModule` is already bootstrapped, we just get its injector (we don't\n      //   bootstrap again).\n      // Note 2: It is possible that (while there are multiple downgraded modules) this\n      //   downgraded component and\n      //   its parent component both belong to the same `NgModule`.\n      // In that case, we could have used the\n      // `parentInjector` as both\n      //   `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n      //   treating this case as if they belong to different `NgModule`s. That doesn't\n      //   really affect\n      // anything, since `parentInjector` has `moduleInjector` as ancestor\n      //   and trying to resolve\n      // `ComponentFactoryResolver` from either one will return\n      //   the same instance.\n      // If there is a parent component, use its injector as parent injector.\n      // If this is a `\"top-level\"` Angular component, use the\n      // module injector.\n      const finalParentInjector = parentInjector || moduleInjector;\n      // If this is a `\"top-level\"` Angular component or the parent component may belong to a\n      // different `NgModule`, use the module\n      // injector for module-specific dependencies.\n      // If there is a parent component that belongs to the same\n      // `NgModule`, use its injector.\n      const finalModuleInjector = moduleInjector || parentInjector;\n      const doDowngrade = (injector: Injector, moduleInjector: Injector) => {\n        // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`\n      }\n      // component belongs to.\n      const componentFactoryResolver: ComponentFactoryResolver =\n      moduleInjector.get(ComponentFactoryResolver);\n      const componentFactory: ComponentFactory<any> =\n      componentFactoryResolver.resolveComponentFactory(info.component)!;\n      if (!componentFactory) {\n        throw new Error('Expecting ComponentFactory for: $\{getTypeName(info.component)\}');\n      }\n      const injectorPromise = new ParentInjectorPromise(element);\n      const facade = new\n      DowngradeComponentAdapter(\n        element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n        componentFactory, wrapCallback);\n      const projectableNodes = facade.compileContents();\n      facade.createComponent(projectableNodes);\n      facade.setInputValues(isNgUpgradeLite, info.propagateDigest);\n    }\n  }\n}
facade.setUpOutputs();
facade.registerCleanup();

injectorPromise.resolve(facade.getInjector());
if (ranAsync) {
  // If this is run async, it is possible
  // that it is not run inside
  // digest and initial input values will not be detected.
  scope.$evalAsync(() => {
    const downgradeFn = ngUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (pNgZone) {
        ngZone = pInjector.get(NgZone); // NOTE: Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
      } else { // Closure Compiler (or
        // some related tool) complains:
        // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a function` $src$downgrade_component_ParentInjectorPromise.all is not a function
      }
    }
    wrapCallback(() => doDowngrade(pInjector, mInjector))();
    // NOTE: Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or
    // some related tool) complains:
    // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a function`
    SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
      downgradeFn(pInjector, mInjector));
    ranAsync = true;
  });
}
}

// bracket-notation because
// of closure - see #1444

directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return directiveFactory;

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`. * An class ParentInjectorPromise extends SyncPromise<Injector>
 */

class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();
    element.data !(this.injectorKey, this);
    resolve(injector: Injector): void {
      // Store the real injector on the element.
      this.element.data !(this.injectorKey, injector);
      // Release the element to prevent memory leaks.
      this.element = null !;
      // Resolve the promise.
      super.resolve(injector);
    }
}

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an `NgModule`
 * that will be part of the upgrade application. For example, let's assume we have
 *
 * defined `HeroesService`:
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * Inside an AngularJS component's controller we can get hold of the
 * module that provides them is instantiated. In order to be safe, you need to ensure
 * that the modules are not used anywhere _outside_ the part of the app where it is
 * guaranteed that their module has been instantiated.
 *
 * For example, it is _OK_ to use a downgraded service in an
 * upgraded component that is only used from a downgraded Angular component provided by the same Angular
 * module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used
 * independently of Angular or
 * use it in a downgraded Angular component from a different module.
 *
 * Inside an AngularJS component's controller we can get hold of the module that provides
 * the service via the name we gave when downgrading:
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * When using `downgradeModule()`, downgrade injectables will not be available until the Angular
 * module that provides them is instantiated. In order to be safe, you need to ensure
 * that the modules are not used anywhere _outside_ the part of the app where it is
 * guaranteed that their module has been instantiated.
 *
 * For example, it is _OK_ to use a downgraded service in an
 * upgraded component that is only used from a downgraded Angular component provided by the same Angular
 * module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used
 * independently of Angular or
 * use it in a downgraded Angular component from a different module.
$scope.$destroy(); // Clean the jQuery/jqLite data on the component+child elements.
// Equivvalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
// https://github.com/jquery/jquery/blob/743cd28553267f955f71ea7248377915613f9d/src/manipulation.js#L223
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f2b2aab70d864d688c82/src/jqLite.js#L306-L312
// `cleanData` will invoke the AngularJS `$destroy` DOM event
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f2b2aab70d864d688c82/src/Angular.js#L1911-L1924
angularElement.cleanData($this.element());
}

angularElement.cleanData(this.element.querySelectorAll(""));

prepareTransclusion(): ILinkFn|undefined
{
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
    try {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
      // ``TEMPLATE` is empty. Since the transcluded content comes from Angular, not AngularJS,
      // there will be no transclusion scope here.
      // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
      $scope = scope || $scope;
      return cloneAttachFn(!$template, scope);
    } let Stemplate = contentChildNodes; if (transclude) {
      const slots = Object.create(null);
      if (typeof transclude === 'object') {
        $template = [];
      } let slotsMap = Object.create(null); const filledSlots = Object.create(null);
      // Parse the element selectors.
      Object.keys(transclude).forEach(slotName => {
        let selector = transclude[slotName];
        const optional = selector.charAt(0) === '?';
        selector = optional ? selector.substring(1) : selector;
        slotsMap[selector] = slotName;
      });
      const slots = slotsMap[directiveNormalize(node.nodeName.toLowerCase())];
      if (slots) {
        $template.push(node);
      } else {
        // Add the matching elements into their slot.
        Object.keys(slots).forEach(slot => {
          const nodes = slots[slot];
          slots[slot] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
            return cloneAttach(!nodes, scope);
          };
        });
      } let $template = Object.create(null);
      // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
      // removes all text content after the first interpolation and updates it later, after
      // evaluating the expressions. This would result in AngularJS failing to recognize text
      // nodes that start with an interpolation as transcluded content and use the fallback
      // content instead.
      // To avoid this issue, we add a
      // to empty text nodes (which can only be a result of Angular removing their initial content).
      // NOTE: Transcluded text content that starts with whitespace followed by an interpolation
      // will still fail to be detected by AngularJS v1.6+.
      $template.forEach(node => {
        if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
          node.nodeValue = '\u200C';
        }
      });
    } catch (err) {
      throw new Error(`Required transclusion slot '$slotName' on directive: $({this.name})`);
    }
  };
  return attachChildrenFn.$slots = slots;
};

compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}

private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];
  let childNode: Node|null = this.element.firstChild;
  while (childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
    childNodes.push(childNode);
  }
  return childNodes;
}

private getDirectiveRequire():
DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller &
  this.directive.name) !;\n  if (isMap(require)) {\n    Object.keys(require).forEach(key => {\n      const value = require[key];\n      const match = value.match(REQUIRE_PREFIX_RE) !;\n      const name = value.substring(match[0].length);\n      if (name) {\n        require[key] = match[0] + key;\n      }\n    });\n  }\n  return require;\n}\nprivate resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any):\nnull \nif (!require) \nreturn null;\nelse if (Array.isArray(require)) \nreturn require.map(req => \nthis.resolveRequire(req));\nelse if (typeof require === 'object') \nconst value = require[key];\nconst match = value.match(REQUIRE_PREFIX_RE) !;\nconst inheritType = match[1] || match[3];\nconst name = require.substring(match[0].length);\nconst isOptional = !match[2];\nconst searchParents = \n!!inheritType;\nconst startOnParent = inheritType === '^^';\nconst ctrlKey = controllerKey(name);\nconst elem = startOnParent ? this.$element.parent () : this.$element;\nconst value = searchParents ?\nelem.inheritedData (ctrlKey) : elem.data (ctrlKey);\nif (!value && !isOptional) \nthrow new Error('Unable to find required $require' in upgraded directive '${this.name}':\n$require') \n\nelse {\n  throw new Error('Unrecognized 'require' syntax on upgraded directive '${this.name}':\n$require') \n}\n}\n
function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for `typeof T !== 'object'`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T;\n} {
  return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

const CAMEL_CASE = /([A-Z])/g;\nconst INITIAL_VALUE = {\n  __INITIAL_VALUE: \n};\nconst NOT_SUPPORTED: any = 'NOT_SUPPORTED';\nconst CAMEL_CASE = /([A-Z])/g;\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n
export class UpgradeNg1ComponentAdapterBuilder {
  // TODO(issue/24571): remove '!'.\n  type !: Type<any>;
  inputs: string[] = [ ];
  inputsRename: string[] = [ ];
  outputs: string[] = [ ];
  outputsRename: string[] = [ ];
  propertyOutputs: string[] = [ ];
  checkProperties: string[] = [ ];
  propertyMap: {[name: string]: string} = { };\n  directive: IDirective|null = null;\n  // TODO(issue/24571): remove '!'.
  template !: string;\n
  constructor(public name: string) {
    const selector = name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());\n    const self = this;

    // Note: There is a bug in TS 2.4 that prevents us from\n    // inlining this into @Directive\n    // TODO(tbosch): find or\n    // file a bug against TypeScript for this.
    // const directive = [selector: selector, inputs: this.inputsRename, outputs:\n    // this.outputsRename]:\n    @ Directive({jit: true, ...directive})\n    class MyClass implements OnInit, OnChanges, DoCheck,\n        OnDestroy {\n
      constructor (@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
        super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,\n            \n      }\n    }\n    this.type = MyClass;
  }

  extractBindings() {
    const btcIsObject = typeof this.directive !.bindToController === 'object';\n    if (btcIsObject && Object.keys(this.directive !.scope!).length) \nthrow new Error('\n  'Binding definitions on scope and controller at the same time are not supported.';\n    }\n    if (this.type = MyClass;\n    this.extractBindings() {\n      const btcIsObject = typeof this.directive !.bindToController === 'object';\n      if (btcIsObject &
  & Object.keys(this.directive !.scope!).length) \nthrow new Error('\n  'Binding definitions on scope and controller at the same time are not supported.';\n    }\n    if (this.type = MyClass;\n    const context = (btcIsObject ? this.directive !.bindToController : this.directive !.scope;\n    if (typeof context == 'object') \nObject.keys(context).forEach(propName => {\n  const definition = context[propName];\n  const bindingType = definition.charAt(0);\n  const bindingOptions = definition.charAt(1);\n  const attrName =
```javascript
// This is a sample code snippet from a larger document. It includes AngularJS and Angular code.

// Angular code

import {NgZone, CompilerOptions, PlatformModule, AppModule, NgModule, Component, OnInit} from '@angular/core';

@Component({
  selector: 'my-app',
  template: '<h1>Angular App</h1>'
})
export class AppComponent implements OnInit {
  constructor(private ngZone: NgZone, private compilerOptions: CompilerOptions) {
  // Constructor code
  }

  ngOnInit() {
    // Lifecycle hook
    // Code to initialize the component
  }
}

// AngularJS code

// This is a sample AngularJS code snippet.

// Code to integrate Angular and AngularJS

// Example of using UpgradeAdapter to bootstrap an AngularJS component

import {UpgradeAdapter} from '@angular/upgrade';

const adapter = new UpgradeAdapter(angular, myAngularOptions);

// Bootstrap AngularJS in the same process as Angular

adapter.bootstrap(AppComponent, ['app.component.html', 'app.component.ts']).then((app) => {
  // After the AngularJS app is bootstrapped
  // Code to interact with the AngularJS application
  console.log('AngularJS application bootstrapped successfully.');
}, (err) => {
  // Error handling
  console.error('Error bootstrapping AngularJS:', err);
});
```

---

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angular.module('myExample', []);\n * module.directive('ng2Comp',
adapter.downgradeNg2Component(Ng2Component));\n *\n * module.directive('ng1Hello', function() {\n * return
{\n *
scope: { title: '=' },\n *
template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'\n * };\n * });\n
*\n *\n * @Component({\n * selector: 'ng2-comp',\n * inputs: ['name'],\n * template: 'ng2[<ng1-hello
[title]=\"name\">transclude</ng1-hello>](<ng-content></ng-content>)',\n * directives:\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('ng1Hello')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n *\n * document.body.innerHTML = '<ng2-comp name=\"World\">project</ng2-comp>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n *\n
* ```\n *\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n * [Ahead-ofTime compilation](guide/aot-compiler).\n * @publicApi\n */\nexport class UpgradeAdapter {\n private idPrefix:
string = `NG2_UPGRADE_${upgradeCount++}_`;\n private downgradedComponents: Type<any>[] = [];\n /**\n
* An internal map of ng1 components which need to up upgraded to ng2.\n *\n * We can't upgrade until injector
is instantiated and we can retrieve the component metadata.\n * For this reason we keep a list of components to
upgrade until ng1 injector is bootstrapped.\n *\n * @internal\n */\n private ng1ComponentsToBeUpgraded:
{[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};\n private upgradedProviders: StaticProvider[] =
[];\n // TODO(issue/24571): remove '!'.\n private ngZone !: NgZone;\n // TODO(issue/24571): remove '!'.\n
private ng1Module !: IModule;\n private moduleRef: NgModuleRef<any>|null = null;\n // TODO(issue/24571):
remove '!'.\n private ng2BootstrapDeferred !: Deferred<IInjectorService>;\n\n constructor(private ng2AppModule:
Type<any>, private compilerOptions?: CompilerOptions) {\n if (!ng2AppModule) {\n
throw new Error(\n
'UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');\n }\n }\n\n /**\n * Allows
Angular Component to be used from AngularJS.\n *\n * Use `downgradeNg2Component` to create an AngularJS
Directive Definition Factory from\n * Angular Component. The adapter will bootstrap Angular component from
within the\n * AngularJS template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The component is
instantiated by being listed in AngularJS template. This means that the\n * host element is controlled by
AngularJS, but the component's view will be controlled by\n * Angular.\n * 2. Even thought the component is
instantiated in AngularJS, it will be using Angular\n * syntax. This has to be done, this way because we must
follow Angular components do not\n * declare how the attributes should be interpreted.\n * 3. `ng-model` is
controlled by AngularJS and communicates with the downgraded Angular component\n * by way of the
`ControlValueAccessor` interface from @angular/forms. Only components that\n * implement this interface are
eligible.\n *\n * ### Supported Features\n *\n * - Bindings:\n * - Attribute: `<comp name=\"World\">`\n *
- Interpolation: `<comp greeting=\"Hello {{name}}!\">`\n * - Expression: `<comp [name]=\"username\">`\n *
- Event: `<comp (close)=\"doSomething()\">`\n * - ng-model: `<comp ng-model=\"name\">`\n * - Content
projection: yes\n *\n * ### Example\n *\n * ```\n * const adapter = new UpgradeAdapter(forwardRef(() =>
MyNg2Module));\n * const module = angular.module('myExample', []);\n * module.directive('greet',
adapter.downgradeNg2Component(Greeter));\n *\n * @Component({\n * selector: 'greet',\n * template:
'{{salutation}} {{name}}! - <ng-content></ng-content>'\n * })\n * class Greeter {\n * @Input() salutation:
string;\n * @Input() name: string;\n * }\n *\n * @NgModule({\n * declarations: [Greeter],\n * imports:
[BrowserModule]\n * })\n * class MyNg2Module {}\n *\n * document.body.innerHTML =\n * 'ng1
template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>';\n *\n * adapter.bootstrap(document.body,
['myExample']).ready(function() {\n * expect(document.body.textContent).toEqual(\"ng1 template: Hello world! text\");\n * });\n * ```\n */\n downgradeNg2Component(component: Type<any>): Function {\n
this.downgradedComponents.push(component);\n\n return downgradeComponent({component});\n }\n\n /**\n
* Allows AngularJS Component to be used from Angular.\n *\n * Use `upgradeNg1Component` to create an
Angular component from AngularJS Component\n * directive. The adapter will bootstrap AngularJS component
from within the Angular\n * template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The
component is instantiated by being listed in Angular template. This means that the\n * host element is controlled

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by Angular, but the component’s view will be controlled by
* AngularJS.

### Supported Features

- **Bindings:**
  - Attribute: `<comp name="World">`
  - Interpolation: `<comp greeting="Hello { [name] }">`
  - Expression: `<comp [name]="username">`
  - Event: `'<comp (close)="doSomething()">`

- **Transclusion:** yes

- **Only some of the features of**
  - `replace`: not supported.
  - `require`: supported.
  - `restrict`: must be set to 'E'.
  - `scope`:
    - `template`: supported.
    - `templateUrl`: supported.
    - `terminal`: ignored.

- **Transclude:** supported.

### Example

```js
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

@Component({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
}) class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
}) class MyNg2Module {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```
angular.module('myExample', []).run(* module.directive('ng2', function() {
 * return { title: 'myExample' } });
 * module.directive('ng1', function() {
 * return { template: '<span ng-transclude><span>{{transclude}}</span></span>' } });
 * angular.module('myExample', []).run(* @Component({
 * selector: 'ng2',
 * template: '<ng1 [title]="name" transclude><ng2-transclude><ng-content></ng-content></ng2-transclude>'
 * })
 * class Ng2 {
 * }
 * @NgModule({
 * declarations: [Ng2],
 * imports: [BrowserModule]
 * })
 * class MyNg2Module {}
 *
 */
  bootstrap(element: Element, modules?: any[][], config?: IAngularBootstrapConfig): UpgradeAdapterRef {
    this.declareNg1Module(modules); this.const upgrade = new UpgradeAdapterRef();
    if (this.current bootstrap is deferred) const windowAngular = (window as any /** TODO #???? */)['angular'];
    this.ngZone.run(() => {
      (bootstrap(element, [this.ng1Module.name], config !));
      const ng1BootstrapPromise = new Promise(resolve => {
        (window[Angular].resumeBootstrap)({
          const originalResumeBootstrap: () => {
            windowAngular.resumeBootstrap = undefined;
          };
        }) => {
          void = window[Angular].resumeBootstrap = function() {
            windowAngular.resumeBootstrap = originalResumeBootstrap;
            const r = windowAngular.resumeBootstrap.apply(this, arguments);
            resolve(r);
          }
        }
      });
      const ng2BootstrapDeferred = new Deferred();
      Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {
        angularElement(element).data(!controllerKey(INJECTOR_KEY), this.moduleRef !.injector);
        this.moduleRef !.injector.get<NgZone>(NgZone).run(() => { (any) => 
          <(<any>)bootstrap(element)._bootstrapDone(this.moduleRef, ng1Injector);
        });
        this.moduleRef !.injector.get<NgZone>(NgZone).run(() => { (any) => 
          <(<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector);
        });
      }) => {
        (this.declareNg1Module(modules));
      };
    };
    const platformRef = platformBrowserDynamic();
    const upgradeAdapter = this;
    const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
    const platformRef = platformBrowserDynamic();
    const upgradeAdapter = this;
    const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
    const platformRef = platformBrowserDynamic();
    const upgradeAdapter = this;
    const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
    const platformRef = platformBrowserDynamic();
    const upgradeAdapter = this;
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)

.factory(INJECTOR_KEY, () => this.moduleRef.injector.get(Injector))

.factory(LAZY_MODULE_REF,
  [INJECTOR_KEY, (injector: Injector) => {
    let lazyModuleRef = new LazyModuleRef(injector);
    lazyModuleRef.service = this.serviceRef;
    lazyModuleRef.async = this.async;
    lazyModuleRef.config = this.config;
    lazyModuleRef.provide = this.provide;
    lazyModuleRef.config['$provide', 'Service1', 'Service2'];
    return lazyModuleRef;
  }])

.config(NG_ZONE_KEY, this.ngZone)

.factory(COMPILER_KEY, () => this.moduleRef.injector.get(Compiler))

.config([$provide, '$injector', ($provide: IProvideService, ng1Injector: IInjectorService) => {
  const originalWhenStable = ng1Injector.whenStable;
  const ng2Testability = upgradeAdapter.moduleRef.injector.get(Testability);
  originalWhenStable.call(this, (this: unknown) => {
    if (ng2Testability.isStable()) {
      callback.apply(this, arguments);
    } else {
      ng2Testability.whenStable(newWhenStable.bind(this, callback));
    }
  });
  return ng1Injector.whenStable = originalWhenStable;
}])

platformRef.bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions, {ngZone: this.ngZone}])

callbacks: ((injector: Injector) => any[]) = []; 
constructor(private element: IAugmentedJQuery) { 
  // store the promise on the element
  element.data ![controllerKey(INJECTOR_KEY), this]; 
  then(callback: (injector: Injector) => any) { 
    if (this.injector) 
      callback(this.injector); 
    else 
      this.callbacks.push(callback); 
} 
resolve(injector: Injector) { 
  this.injector = injector; 
  // reset the element data to point to the real injector
  this.element.data ![controllerKey(INJECTOR_KEY), injector]; 
  // clean out the element to prevent memory leaks
  this.element = null !; 
  // run all the queued callbacks
  this.callbacks.forEach(callback => callback(injector)); 
  this.callbacks.length = 0; 
} 
}

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void); 

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) { 
    this.ng2ModuleRef = ngModuleRef; 
    this.ng2Injector = ngModuleRef.injector; 
    this.ng1Injector = ng1Injector; 
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE); 
    this._readyFn && this._readyFn(this); 
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application has been bootstrapped.
   * The `ready` callback function is invoked inside the Angular zone, therefore it does not
   * require a call to `$apply()`.
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) { 
    this._readyFn = fn; 
  }

  /**
   * Dispose of running hybrid
   * AngularJS / Angular application.
   */
  public dispose() { 
    this.ng1Injector!.get($ROOT_SCOPE).$destroy(); 
    this.ng2ModuleRef!.destroy(); 
  }
}

export * from './src/common/src/version';
export * from './src/dynamic/src/upgrade_adapter';

// This file only re-exports content of the `src` folder. Keep it that way.
// when it rewrites private symbol in names.
// This file is not used to build this module. It is only used during editing
// by the TypeScript language service and during build for verification.
// ngc\`\` replaces this file with production index.ts when
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/upgrade.js.map

No license file was found, but licenses were detected in source scan.

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/upgrade.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing/testing.d.ts

No license file was found, but licenses were detected in source scan.

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

```json
"version": 3,
"file": "upgrade.js",
"sourcesContent": ["/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-
 * style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 *
 * @description
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-
 * style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface with
  // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function extends { $inject?: string[] } ? Ng1Token[] : ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | { [key: string]: T };

export interface IModule {
  name: string;
  requires: (string | IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface ICompileService {
  (element: Element | NodeList | Node[] | string, transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {[slotName: string]: ILinkFn};
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  $$next: Function;
  $$inject: string[];
  $$injector: Function;
  $$get: Function;
  $$bindToController?: boolean;
  $$key: string;
  $$link: IDirectiveLinkFn | IDirectivePrePost;
  $$priority: number;
  $$replace: boolean;
  $$require: boolean;
  $$restrict?: string;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args?: any[]) => void): Function;
  $destroy(): void;
  $apply(exp?: Ng1Expression, locals?: any): void;
  $$child: IScope;
  $$children: IScope[];
  $$scope: IScope;
  $$get: Function;
  $$get: Function;
  $$bindToController?: boolean;
  $$controller: IDirective |
  $$link: IDirectiveLinkFn | IDirectivePrePost;
  $$priority: number;
  $$replace: boolean;
  $$require: boolean;
  $$restrict?: string;
}

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this.attr.charAt(0).toUpperCase() + this.attr.substr(1); this.onAttr = 'on$[capitalAttr]'; this.bindAttr = 'bind$[capitalAttr]'; this.bindonAttr = 'bindon$[capitalAttr]'; } // tslint:disable-next-line:no-console

// Return the name of the type or the first line of its stringified version.

function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
    $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
    UpgradeAppType.None;
}

function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

function validateInjectionKey(
    $injector: IInjectorService,
    downgradeModule: string, injectionKey: string,
    attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModule) {
        throw new Error(`Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified.\n` +
          'You should not specify a value for ' +
          '\'downgradedModule\', unless you are downgrading ' +
          'more than one Angular module (via ' +
          '\'downgradeModule()\').');
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule &&
          (downgradedModuleCount >= 2)) {
        throw new Error(`Error while ${attemptedAction}: 'downgradedModule' not specified.\n` +
          'This application contains more than one downgraded Angular module, thus you need to ' +
          'always specify ' +
          '\'downgradedModule\' when downgrading components and injectables.');
      }
      break;
    default:
      throw new Error(`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\n` +
          'Did you forget to downgrade an Angular module or include it in the AngularJS ' +
          'application?\n`); break;
  }
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve !: (value?: R | PromiseLike<R>) => void;
  reject !: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade'. (This should never happen in an
  // 'ngUpgrade' app.)
  None,

  // App using the deprecated `@angular/upgrade' APIs (a.k.a. dynamic
  // 'ngUpgrade').
  Dynamic,

  // App using `@angular/upgrade/static' with 'UpgradeModule'.
  Static,

  // App using `@angular/upgrade/static' with 'downgradeModule' (a.k.a. 'ngUpgrade'-lite ).
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the\n * 'ControlValueAccessor' interface needed for AngularJS `ng-model`\n * compatibility.\n * @function supportsNgModel\n * @param {Object} component - The component instance\n * @param {Object} context - The component context\n * @return {boolean} - True if the component supports the subset of the
 * 'ControlValueAccessor' interface needed for AngularJS `ng-model`\n * compatibility.\n * @example\n * Glue the AngularJS `NgModelController` (if it exists) to the component\n * (if it implements the needed subset of
the `ControlValueAccessor` interface).

```typescript
export function hookupNgModel(ngModel: INgModelController, component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}
```

```typescript
/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}
```

```typescript
import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;
  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery,
    private attrs: IAttributes,
    private scope: IScope,
    private ngModel: INgModelController,
    private parentInjector: Injector,
    private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[]
  {
    const compiledProjectableNodes: Node[] = [];
    const projectableNodes: Node[] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes => this.$compile(nodes));

    this.element.empty();
    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append!(clone);
        });
    });
    this.createComponent(compiledProjectableNodes);
    this.setupInputs(true);
  }

  createComponent(projectableNodes: Node[]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({
      providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    const componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
    componentRef.injector.get(ChangeDetectorRef); this.changeDetector = componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook. const testability = this.componentRef.injector.get(Testability, null);
    if (testability) { this.componentRef.injector.get(TestabilityRegistry); this.registerApplication(this.componentRef, location.nativeElement, testability); }
    hookupNgModel(this.ngModel, this.component); }];

    setupInputs(applyChange: boolean, propagateDigest = true); void { const attrs = this.attrs; const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const inputName = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string|null = null;
      if (attrs.hasOwnProperty(inputName)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `observe()` and `watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
      }
```
)(input.prop);  
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr =  
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr =  
    } else if (attrs.hasOwnProperty(input.parenAttr)) {
      expr =  
    } else if (attrs.hasOwnProperty(input.onAttr)) {
      expr =  
    } else if (expr != null) {
      const watchFn =
          (prop => (currValue:
            any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }

    // Invoke `ngOnChanges()` and Change Detection
    (when necessary)\n    const detectChanges = () => this.changeDetector.detectChanges();
    const prototype =
        this.componentFactory.componentType.prototype;\n    this.implementsOnChanges = !!(prototype &&
        (<OnChanges>prototype).ngOnChanges);\n    this.component.Scope.$watch(() => this.inputChangeCount,
        this.wrapCallback(() => {
          // Invoke `ngOnChanges()`
          if (this.implementsOnChanges) {
            const inputChanges = this.inputChanges;\n            this.inputChanges = {};
            (<OnChanges>this.component).ngOnChanges(inputChanges !);
          }

          this.viewChangeDetector.markForCheck();

          // If opted out of propagating digests, invoke change detection
          // when inputs change.\n          if (!propagateDigest) {
            detectChanges();
          }

          // If not opted out of propagating digests, invoke change detection
          // on every digest\n          if (propagateDigest) {
            this.componentScope.$watch(this.wrapCallback(detectChanges));
          }

          // If necessary, attach the view so that
          // it will be dirty-checked.\n          // (Allow time for the initial input values to be set
          if (manuallyAttachView || !propagateDigest) {
            let unwatch: Function|null = this.componentScope.$watch(() =>
            {\n              unwatch !();
              unwatch = null;
            });
            appRef.attachView(this.componentRef.hostView);
          }

          return true;
        }));\n    this.element.on !('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  private updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
    })}
this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);

this.inputChangeCount++;
this.component[prop] = currValue;

let ngContentSelectors = this.componentFactory.ngContentSelectors;

return

ngContentIndices.push(ngContentIndex);

return ngContentIndices.length == ngContentIndices[0] : null;

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector ||
        elProto.mozMatchesSelector || elProto.msMatchesSelector ||
        elProto.oMatchesSelector || elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

/**
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 * the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;

    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }

  thenable<

for "downgrading" an Angular component. Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates. We must create an AngularJS directive that will make this Angular component available inside AngularJS templates. The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the "downgraded" component. For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).
be\n // on the same tree as the `NgModule` that declares this downgraded component.
 // - `finalParentInjector` is used for all other injection purposes.\n // (Note that Angular knows to only traverse the component-tree part of that injector,\n // when looking for an injectable and then switch to the module injector.\n // There are basically three cases: \n // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded\n //   `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`. \n // - If there is a parent component (and thus a `parentInjector`) and we are sure that it\n //   belongs to the same `NgModule` as this downgraded component (e.g. because there is only\n //   one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and\n //   `finalParentInjector`). \n // - If there is a parent component, but it may belong to a different `NgModule`, then we\n //   use the `parentInjector` as `finalParentInjector` and this downgraded component\n //   declaring `NgModule`’s injector as `finalModuleInjector`. \n // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don’t\n //   bootstrap again).\n // Note 2: It is possible that (while there are multiple downgraded modules) this\n //   downgraded component and its parent component both belong to the same `NgModule`. \n // In that case, we could have used the `parentInjector` as both `finalModuleInjector` and\n //   `finalParentInjector`, but (for simplicity) we are\n // treating this case as if they belong to different `NgModule`’s. That doesn’t really affect\n // anything, since `parentInjector` has `moduleInjector` as ancestor // and trying to resolve\n // `ComponentFactoryResolver` from either one will return // the same instance.\n // If there is a parent component, use its injector as parent injector.\n // If this is a "top-level" Angular component, use the module injector.\n // This is a "top-level" Angular component or the parent component may belong to a\n // different `NgModule`, use the module injector for module-specific dependencies.\n // If there is a parent component that belongs to the same `NgModule`, use its injector.\n // const finalModuleInjector = moduleInjector \n // If this is a "top-level" Angular component or the parent component may belong to an \n // different `NgModule`, use the module injector for module-specific dependencies.\n // If there is a parent component that belongs to the same `NgModule`, use its injector.\n // const finalModuleInjector = moduleInjector \n const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this\n  // component belongs to.\n  const componentFactoryResolver = injector.get(ComponentFactoryResolver);
  const componentFactory: ComponentFactory<any> = componentFactoryResolver.resolveComponentFactory(info.component) !;

  if (!componentFactory) {
    throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
  }

  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(
    element, attrs, scope, ngModel, injector, Sinjector, Scompile, Sparse,
    componentFactory, wrapCallback);

  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
  facade.setupOutputs();
  facade.registerCleanup();

  injectorPromise.resolve(facade.getInjector());

  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, Scompile, Sparse,
    componentFactory, wrapCallback);

  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
  facade.setupOutputs();
  facade.registerCleanup();

  injectorPromise.resolve(facade.getInjector());

  if (ranAsync) {
    // If this is run async, it is possible that it is not run inside a\n    // digest and initial input values will not be detected.\n    scope.$evalAsync(() => { })
  }

  const downgradeFn = isNgUpgradeLite ? doDowngrade : (Injector: Injector, mInjector: Injector) => {
    if (!ngZone) { ngZone = mInjector.get(NgZone); }

    wrapCallback(() => doDowngrade(mInjector, mInjector))();
    // NOTE: Not using 'ParentInjectorPromise.all()' (which is inherited from 'SyncPromise'),
    // because // Closure Compiler (or some related tool) complains: \n    // 'TypeError: ...S$do downgrade component ParentInjectorPromise.all is not a function' \n    // SyncPromise.all([finalParentInjector, finalModuleInjector]) \n    // then([mInjector, mInjector]) => downgradeFn(mInjector, mInjector) \n    // ranAsync = true; \n  }

  // bracket-notation because of closure - see #14441\n  directiveFactory['$inject'] = [Scompile, Sinjector, Sparse];
  return directiveFactory;
}

private injectorKey: string = controllerKey(INJECTOR_KEY);
constructor(private element: IAugmentedJQuery) { \n  super(); \n  // Store the promise on the element.\n  element.data !('this.injectorKey',

this):\n })\n \n resolve(injector: Injector): void {\n // Store the real injector on the element.\n this.element.data
 !(this.injectorKey, injector);
 }\n // Release the element to prevent memory leaks.\n this.element = null;\n \n // Resolve the promise.\n super.resolve(injector);\n })\n })\n ,/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**\n * @description\n *
 * A helper function to allow an Angular service to be accessible from AngularJS.\n * Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation\n *
 * This helper function returns a factory function that provides access to the Angular\n * service identified by the `token` parameter.\n * @param token an `InjectionToken` that identifies a service provided from Angular.\n * `\n * @param downgradedModule the name of the downgraded module (if any) that the injectable\n * belongs to, as returned\n * by a call to `downgradeModule()`. It is the module, whose injector will\n * be used for instantiating the\n * injectable.\n */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
  return ($injector as any).get(name + 'Directive');
}

public readonly element: Element;
public readonly $element: IAugmentedJQuery;
public readonly directive: IDirective;
private readonly $compile: ICompileService;
private readonly $controller: IControllerService;

constructor(
  private injector: Injector, private name: string, elementRef: ElementRef, directive?: IDirective) {
  this.$injector = injector.get($INJECTOR);
  this.$compile = this.$injector.get($COMPILE);
  this.$controller = this.$injector.get($CONTROLLER);
  this.element = elementRef.nativeElement;
  this.$element = angularElement(this.element);
  this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  this.$injector = injector.get($INJECTOR);
  this.$compile = this.$injector.get($COMPILE);
  this.$controller = this.$injector.get($CONTROLLER);

  this.element = elementRef.nativeElement;
  this.$element = angularElement(this.element);
  this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,

directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error('Only support single directive definition for: ${name}');
    }

    const directive = directives[0];
    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. in
    // (directive.compile & !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string | Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);
      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}' returned '${status}: ${response}'`);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data!(controllerKey(this.directive.name!), controller);

    const template = UpgradeHelper.getTemplate($injector, this.directive, false, this.$element) as string;
    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }

    $scope.$destroy();
    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn | undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      return cloneAttachFn!(scope, cloneAttachFn);
    };
    let $template = contentChildNodes;

    if (transclude) {
      const slots = Object.create(null);

      if (typeof transclude === 'object') {
        $template = [];
        const slotMap =
```javascript
Object.create(null); // Parse the element selectors.

Object.keys(transclude).forEach(slotName => {
  let selector = transclude[slotName];
  const optional = selector.charAt(0) === '?';
  selector = optional ? selector.substring(1) : selector;

  slotMap[selector] = slotMap[directiveNormalize(selector.toLowerCase())] || {};
  slots[slotName] = null; // null': Defined but not yet filled.
  filledSlots[slotName] = optional; // Consider optional slots as filled.
  contentChildNodes.forEach(node => {
    const slotName = contentChildren.filter(slotName => slots[slotName] || []).map(slotName => {
      if (node.nodeType === Node.TEXT_NODE) return node.nodeValue || '\u200C';
      throw new Error(`Unable to find required transclusion slot '${slotName}' on directive: ${this.name}`);
    });
    let ctrlKey = controllerKey(name);
    const elem = elem ? elem : this.$element;
    return elem.inheritedData[ctrlKey] || elem.data[ctrlKey];
  });
})
```
else {
    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':`);
}

if (typeof require !== 'object' || require === null) {
  throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':`);
}

else {
  throw new Error(
    `Unrecognized 'require' syntax on upgraded directive '${this.name}':`);
}

}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for 'typeof T == 'object'.'
function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

/**
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 * can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';

import {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '@angular/core';

import {isMap} from '@angular/core';

import {isFunction, strictEquals} from '@angular/core';

const CAMEL_CASE = /([A-Z])/g;
const INITIAL_VALUE = {__UNINITIALIZED__: true};
const NOT_SUPPORTED: any = 'NOT_SUPPORTED';

export class UpgradeNg1ComponentAdapterBuilder {
  type!: Type<any>;
  inputs: string[] = [];
  inputsRename: string[] = [];
  outputs: string[] = [];
  outputsRename: string[] = [];
  propertyOutputs: string[] = [];
  checkProperties: string[] = [];
  propertyMap: {name: string} = {};
  directive: IDirective
  template!: string;

  constructor(public name: string) {
    const selector = name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());
    const self = this;

    // Note: There is a bug in TS 2.4 that prevents us from inline @Directive
    // TODO(tbosch): find or file a bug against TypeScript for this.
    const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename};

    @Directive({jit: true, ...directive})
    class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
      constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
        super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) as any;
      }
    }

    this.type = MyClass;
  }

  extractBindings() {
    const btcIsObject = typeof this.directive !== 'object';
    if (btcIsObject && Object.keys(this.directive).length) {
      throw new Error(`Binding definitions on scope and controller at the same time are not supported.`);
    }

    const context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;

    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1);
        const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

        switch (bindingType) {
          case '@':
          case '<':
            this.inputs.push(attrName);
            this.inputsRename.push(attrName);
            this.propertyMap[attrName] = propName;
            break;
          case '=':
            this.inputs.push(attrName);
            this.inputsRename.push(attrName);
            this.propertyMap[attrName] = propName;

            this.outputs.push(propName);
            this.outputsRename.push(propName + 'Change');
            this.propertyMap[propName] = propName;
            break;
          case '&':
            this.outputs.push(propName);
            this.outputsRename.push(propName + 'Change');
            this.propertyMap[propName] = propName;
            break;
          default:
            throw new Error(`Missing required binding type: ${bindingType}.`);
        }
      });
    }
  }

  /**
   * Upgrade ng1 components into Angular.
   */
  static resolve(exportedComponents: {name: string}: UpgradeNg1ComponentAdapterBuilder, ...

$injector: IInjectorService): Promise<string[]> {
  const promises = Object.keys(exportedComponents).map(name => {
    const exportedComponent = exportedComponents[name];
    exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
    exportedComponent.extractBindings();
    return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
  })
  then((template => exportedComponent.template = template)
    )
  return Promise.all(promises);
}

UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
private controllerInstance: IControllerInstance|null = null;
private destinationObj: IBindingDestination|null = null;
checkLastValues: any[] = [];

private directive: IDirective;
private element: Element;
private $element: any = null;
private componentScope: IScope;

constructor(private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private outputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {
  this.directive = helper.directive;
  this.element = helper.element;
  this.$element = helper.$element;
  this.componentScope = scope.$new(!this.directive.scope);

  const controllerType = this.directive.controller;
  if (this.directive.bindToController && controllerType) {
    this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    this.destinationObj = this.componentInstance;
  } else {
    this.destinationObj = this.componentScope;
  }
  for (let i = 0; i < inputs.length; i++) {
    this[inputs[i]] = null;
  }
  for (let j = 0; j < outputs.length; j++) {
    const emitter = (this[outputs[j]] = new EventEmitter<any>();
    if (this.propOuts.indexOf(outputs[j]) === -1) {
      this.setComponentProperty(outputs[j], (emitter => (value: any) => emitter.emit(value))(emitter));
    }
  }
  for (let k = 0; k < propOuts.length; k++) {
    this.checkLastValues.push(INITIAL_VALUE);
  }
}

ngOnInit() {
  // Collect contents, insert and compile template
  const linkFn = this.helper.compileTemplate(this.template);

  // Instantiate controller (if not already done so)
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (controllerType && !bindToController) {
    this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
  }

  // Linking
  const postLink = typeof this.directive.link == 'object' && this.directive.link.post;
  const attrs: IAttributes = NOT_SUPPORTED;
  const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
  if (postLink) {
    postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  // Hook: $onInit
  if (isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }

  // Hook: $postLink
  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }
}

ngOnChanges(changes: SimpleChanges) {
  Object.keys(changes).forEach(name => {
    const change: SimpleChange = changes[name];
    this.setComponentProperty(name, change.currentValue);
  });
}

ngDoCheck() {
  const destinationObj = this.destinationObj;
  const lastValues = this.checkLastValues;
  const checkProperties = this.componentScope.valueMap;
  const propOuts = this.propOuts;
  Object.keys(checkProperties).forEach((propName, i) => {
    const value = destinationObj[propName];
    const last = lastValues[i];
    if (!isStrictEqual(last, value)) {
      const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
      eventEmitter.emit(lastValues[i] = value);
    }
  });
}

ngOnDestroy() {
  this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

setComponentProperty(name: string, value: any) {
  this.destinationObj[this.propertyMap[name]] = value;
}

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import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from './common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from './common/src/constants';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See `UpgradeAdapter#upgradeNg1Component()`) in * 2. creation of AngularJS directive from Angular component.
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 * 4. Angular components always execute inside Angular framework codebase regardless of
 * where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates
 * an Angular directive, which bootstraps the AngularJS component directive in that location.
 * 6. An Angular component can be downgraded to an AngularJS component directive.
 * 7. Whenever an adapter component is instantiated the host element is owned by the framework
 * doing the instantiation. The other framework then instantiates and owns the view for that
 * component. This implies that component bindings will always follow the semantics of
 * instantiation framework. The syntax is always that of Angular syntax.
 * 8. AngularJS is always bootstrapped first and owns the bottom most view.
 * 9. The new application is running in Angular zone, and therefore it no longer needs calls to
 * `$apply()`.
 *
 * ### Example
 *
 * ```
 * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 * const module = angular.module('myExample', []);
 * module.directive('ng2Comp', adapter.upgradeNg1Component('ng1Hello'));
 * module.directive('ng1Hello', function() {
 *   return {
 *     scope: { title: '=' },
 *     template: 'ng1[Hello \{title\}]!'<span ng-transclude></span>
 *   };
 *);
 * adapter.bootstrap(document.body, ['myExample']).ready(function() {
 *   expect(document.body.textContent).toEqual('<ng2-comp name="World">project</ng2-comp>');</n * adapter.bootstrap(document.body, ['myExample']).ready(function() {
 *   expect(document.body.textContent).toEqual('
 *   <ng2-comp name="World">project</ng2-comp>', 'project');
 * });
 * });
 * ```
 *
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * Ahead-of-Time compilation([guide/aot-compiler]) and supports
 * `UpgradeAdapter` (private idPrefix: string = "NG2_UPGRADE_\$\{upgradeCount++\}._", private downgradedComponents: Type<any>[]):
 * An internal map of ng1 components which need to be upgraded to ng2.
 * For this reason we keep a list of components to
upgrade until ng1 injector is bootstrapped.

```typescript
upgrade until ng1 injector is bootstrapped.

* @internal

private ng1ComponentsToBeUpgraded:
    {[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};

private upgradedProviders: StaticProvider[] = [];

private ng1Module!: IModule;
private moduleRef: NgModuleRef<any> = null;

private ngZone!: NgZone;
private ng2BootstrapDeferred!: Deferred<IInjectorService>;

private ng2AppModule: Type<any>;
private compilerOptions?: CompilerOptions;

constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {
    if (!ng2AppModule) {
      throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');
    }

    this.downgradedComponents.push(component);

    return downgradeComponent({component});
  }

  /**
   * Allows AngularJS Component to be used from Angular.
   *
   * Use `upgradeNg1Component` to create an AngularJS Directive Definition Factory from
   * * Angular Component. The adapter will Bootstrap AngularJS component from
   * within the* * AngularJS template.
   * * * @Component({ selector: 'greet', * template: '{[salutation]} Hello {name}!' })
   * * * class Greeter {
   * * *   @Input() salutation: string;
   * * *   @Input() name: string;
   * * * }
   * * * module.directive('greet', function() {
   * * *   return {
   * * *     scope: {salutation: '='},
   * * *     template: '<span ng-transclude><!--text-->'
   * * *   };
   * * * });
   *
   * * * module.directive('ng2', function() {
   * * *   return {
   * * *     scope: {salutation: '='},
   * * *     template: '<span ng-transclude><!--text-->'
   * * *   };
   * * * });
   *
   * * * this.downgradedComponents.push(component);
   * * return downgradeComponent({component});
   * */
```

Upgrade Adapter cannot be instantiated without an NgModule of the Angular app.

### Mental Model

1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by AngularJS, but the component's view will be controlled by Angular.

2. Even thought the component is instantiated in AngularJS, it will be using Angular's syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.

3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the

   'ControlValueAccessor' interface from @angular/forms. Only components that implement this interface are eligible.

   * Supported Features
   * - Attribute: `<comp name="World"`  
   * - Interpolation: `\{\{salutation\}\} ! <span ng-transclude>`
   * - Event: `\{\{salutation\}\} ! <comp close="doSomething()"`  
   * - Content projection: `\{\{salutation\}\} ! <span ng-transclude>`

   * @Component({ selector: 'greet', * template: '{[salutation]} Hello {name}!' })
   * * * class Greeter {
   * * *   @Input() salutation: string;
   * * *   @Input() name: string;
   * * * }
   * * * module.directive('greet', function() {
   * * *   return {
   * * *     scope: {salutation: '='},
   * * *     template: '<span ng-transclude><!--text-->'
   * * *   };
   * * * });
   *
   * * * module.directive('ng2', function() {
   * * *   return {
   * * *     scope: {salutation: '='},
   * * *     template: '<span ng-transclude><!--text-->'
   * * *   };
   * * * });
   *
   * * * this.downgradedComponents.push(component);
   * * return downgradeComponent({component});
   * */
```

### Supported Features

- Attribute: `<comp name="World"`  
- Interpolation: `\{\{salutation\}\} ! <span ng-transclude>`
- Event: `\{\{salutation\}\} ! <comp close="doSomething()"`  
- Content projection: `\{\{salutation\}\} ! <span ng-transclude>`

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', adapter.downgradeNg2Component(Greeter));
module.directive('greet', function() {
  return {
    scope: {salutation: '='},
    template: '<span ng-transclude><!--text-->'
  };
});
module.directive('greet', function() {
  return {
    scope: {salutation: '='},
    template: '<span ng-transclude><!--text-->'
  };
});
```

const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', adapter.downgradeNg2Component(Greeter));
module.directive('greet', function() {
  return {
    scope: {salutation: '='},
    template: '<span ng-transclude><!--text-->'
  };
});
module.directive('greet', function() {
  return {
    scope: {salutation: '='},
    template: '<span ng-transclude><!--text-->'
  };
});
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```typescript
adapter.downgradeNg2Component(Ng2Component); // * in * @Component({ * selector: 'ng2', * template: 'greet salutation="Hello\"\" [name]="\"world\"\" text"</greet>\" * }) * class Ng2Component {'* * * @NgModule({ * }) *declarations: [Ng2Component, * adapter.upgradeNg1Component('greet')]); * imports: [BrowserModule]}) * class MyNg2Module { * * document.body.innerHTML = '<ng2>{{ng2.text}}</ng2>'; * * * * document.body.innerHTML = '<ng2>{{ng2.text}}</ng2>'; * * * } * * * * * */

adapter.bootstrap(document.body, ['myExample']).ready(function() { * * expect(document.body.textContent).toEqual('ng2 template: Hello world!'); * * });

```
void = windowAngular.resumeBootstrap; void = windowAngular.resumeBootstrap = function() {
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    const r = windowAngular.resumeBootstrap.apply(this, arguments);
}

resolve(r); return r; } else {
    resolve(r); function() {
    windowAngular.resumeBootstrap = originalResumeBootstrap;
          const r = windowAngular.resumeBootstrap.apply(this, arguments);
          resolve();
          return r;
        };
    } else {

    }

    Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {
        angularElement(element).data(!controllerKey(INJECTOR_KEY), this.moduleRef!.injector);
        this.moduleRef!.injector.get<NgZone>(NgZone).run(() => { (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); });
    }, onError);
    return upgrade;
  }

  /**
   * Allows AngularJS service to be accessible
   * from Angular.
   *
   * @usageNotes
   * ### Example
   *
   * ```
   * class Login { ... }
   * class Server { ...
   * }
   *
   * @Injectable()
   * class Example {
   *   constructor(@Inject('server') server, login: Login) {
   *     ...
   *   }
   * }
   *
   * const module = angular.module('myExample', []);
   * module.service('server', Server);
   * module.service('login', Login);
   * const module2 = angular.module('myExample2', []);
   * module2.service('server', Server);
   * module2.service('login', Login);
   * const moduleNg2 = angular.module('myExample', []);
   * moduleNg2.service('server', Server);
   * moduleNg2.service('login', Login);
   * const ng1Injector = injectable.INJECTOR_KEY, injector; injector = injectable.INJECTOR_KEY, ng1Injector;
   * const r = windowAngular.resumeBootstrap.apply(this, arguments);
   * resolve();
   * return r;
   * // The AngularJS upgrade module should be declared after
   * // bootstrap Angular and then we replay and restore the
   * // $apply.
   * rootScopePrototype = rootScopeDelegate.constructor.prototype;
   * if (rootScopePrototype.hasOwnProperty('Sapply')) {
   *     originalSapplyFn = rootScopePrototype.Sapply;
   *     rootScopePrototype.Sapply = (exp: any) => delayApplyExp$applyExp.push(exp);
   *     } else {
   *     throw new Error('Failed to find $Sapply on $SrootScope!');
   *     }
   *     return rootScope = rootScopeDelegate;
   *     if (ng1Injector.has($TESTABILITY)) {
   *         provide.decorator($TESTABILITY, function(testabilityDelegate: ITestabilityService) {
   *             const originalWhenStable: Function = testabilityDelegate.whenStable;
   * }"
// Cannot use arrow function below because we need the context
const newWhenStable = function(this: unknown, callback: Function) {
    originalWhenStable.call(this, function(this: unknown) {
        callback.apply(this, arguments); })
    else {
        ng2Testability.whenStable(bind(this, callback));
    });
}

originalWhenStable = newWhenStable;

// Note: There is a bug in TS 2.4 that prevents us from inlining this into @NgModule
// TODO(tbosch): find or file a bug against TypeScript for this.
const ngModule = {
    providers: [{provide: $INJECTOR, useFactory: () => ng1Injector}],
    imports: [resolveForwardRef(this.ng2AppModule)],
    entryComponents: this.downgradedComponents
};

// At this point we have ng1 injector and we have prepared
// ng1 components to be upgraded, we now can bootstrap ng2
@NgModule({jit: true, ...ngModule})
class DynamicNgUpgradeModule {
    constructor() {}
    ngDoBootstrap() {}
}

platformRef
    .bootstrapModule(
        DynamicNgUpgradeModule, [this.compilerOptions !,
            {ngZone: this.ngZone}])
    .then(() => {
        // A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.
        if (isDevMode()) {
            console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
        }

        return rootScope.$digest();
    });

return rootScope.$evalAsync(() => {});

this.ng2BootstrapDeferred.resolve(ng1Injector);
this.readyFn(this);"\n}\n}  * Register a callback function which is notified upon successful hybrid
AngularJS / Angular
* application has been bootstrapped.\n* This `ready` callback function is invoked
inside the Angular zone, therefore it does not\n* require a call to `$apply()`\n* \n\npublic ready(fn:
(upgradeAdapterRef: UpgradeAdapterRef) => void) {\n  this.readyFn = fn;\n}\n
/**\n* Register a callback function which is notified upon successful hybrid
AngularJS / Angular
* application has been bootstrapped.
*\n* The `ready` callback function is invoked
inside the Angular zone, therefore it does not\n* require a call to `$apply()`.
*/
this.readyFn = fn;\n\n/**\n* Dispose of running hybrid
AngularJS / Angular application.\n*\n*\n*\n*/
dispose() {\n  this.ng1Injector!.get($ROOT_SCOPE).$destroy();\n  this.ng2ModuleRef!.destroy();\n}\n\n/**\n* Generated bundle index.\n* Do not edit.\n*\n*/
export * from './index';\n\n"
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Angular
=======

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

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1.569 jetty-io 9.4.29.v20200521

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----
Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.570 brave-instrumentation-spring-web

5.12.3

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/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 * @param messageContext the current message context
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its ability
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 */

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1.576 jackson-databind 2.11.3

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1.578 cpp 8.3.0-6

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  jar/org/apache/commons/logging/impl/package.html
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JILogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogAdapterFactoryImpl.java
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import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

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        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }

    @Override
    public int hashCode() {
        return 111;
    }

    public static final class AllPermissionsCollection extends PermissionCollection {

        public AllPermissionsCollection() {
            super("<all permissions>");
        }

        @Override
        public boolean implies(Permission permission) {
            return true;
        }

        @Override
        public String getActions() {
            return 
        }

        @Override
        public PermissionCollection newPermissionCollection() {
            return new AllPermissionsCollection();
        }

        @Override
        public String toString() {
            return "<allow all permissions>");
        }

        @Override
        public boolean equals(Object obj) {
            return obj instanceof AllPermissions;
        }

        @Override
        public int hashCode() {
            return 111;
        }

        public static final class AllPermissionsCollection extends PermissionCollection {


private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
private boolean all;

public AllPermissionsCollection() {
}

public AllPermissionsCollection(boolean all) {
    this.all = all;
}

@Override
public void add(Permission permission) {
    if (permission instanceof AllPermissions) {
        all = true;
    }
}

@Override
public boolean implies(Permission permission) {
    return all;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        @Override
        public boolean hasMoreElements() {
            return more;
        }

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {

return true;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
AllPermissionsCollection other = (AllPermissionsCollection) obj;
return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_ADD.equals(action)) {
            mask |= ADD;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}

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 */

package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
private static final int LISTEN = 32;
private static final int LOCK = 64;
private static final int INDEX = 128;
private static final int INTERCEPT = 256;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

public ReplicatedMapPermission(String name, String... actions) {
  super(name, actions);
}

@Override
protected int initMask(String[] actions) {
  int mask = NONE;
  for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
      return ALL;
    }
    if (ActionConstants.ACTION_CREATE.equals(action)) {
      mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
      mask |= DESTROY;
    } else if (ActionConstants.ACTION_PUT.equals(action)) {
      mask |= PUT;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
      mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
      mask |= READ;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
      mask |= LISTEN;
    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
      mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
      mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
      mask |= INTERCEPT;
    }
  }
  return mask;
}

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 */
package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}
return mask;
}

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        return mask;
    }

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     * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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     * limitations under the License.
     */
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;

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 */

package com.hazelcast.security.permission;

import com.hazelcast.configmatcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new WildcardConfigPatternMatcher();

    protected final int mask;
protected final String actions;

public InstancePermission(String name, String... actions) {
    super(name);
    if (name == null || name.equals(name)) {
        throw new IllegalArgumentException("Permission name is mandatory!");
    }
    mask = initMask(actions);

    final StringBuilder s = new StringBuilder();
    for (String action : actions) {
        s.append(action).append(" ");
    }
    this.actions = s.toString();
}

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }
    InstancePermission that = (InstancePermission) permission;
    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }
    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}
@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;

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     */

    public class CachePermission extends InstancePermission {

        private static final int PUT = 4;
        private static final int REMOVE = 8;
private static final int READ = 16;
private static final int LISTEN = 32;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

public CachePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}

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*/
package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        return mask;
    }

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    */
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }

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package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
                || (permission instanceof ClusterPermission);

        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
...
add(p);
}
}
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}
import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
}
public static final String ACTION_DESTROY = "destroy";
public static final String ACTION_MODIFY = "modify";
public static final String ACTION_READ = "read";
public static final String ACTION_REMOVE = "remove";
public static final String ACTION_LOCK = "lock";
public static final String ACTION_LISTEN = "listen";
public static final String ACTION_RELEASE = "release";
public static final String ACTION_ACQUIRE = "acquire";
public static final String ACTION_PUT = "put";
public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";

public static final String LISTENER_INSTANCE = "instance";
public static final String LISTENER_MEMBER = "member";
public static final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String, PermissionFactory> ();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
}
PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new CountDownLatchPermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new SemaphorePermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new TopicPermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new LockPermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new ExecutorServicePermission(name, actions);
        }
    });

PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory()
    {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
        }
    });
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new MapReducePermission(name, actions);  
    }  
});

PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new ReplicatedMapPermission(name, actions);  
    }  
});

PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new AtomicReferencePermission(name, actions);  
    }  
});

PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new CachePermission(name, actions);  
    }  
});

PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new RingBufferPermission(name, actions);  
    }  
});

PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new  
    PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new DurableExecutorServicePermission(name, actions);  
    }  
});

PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new  
    PermissionFactory() {  
    @Override  
    public Permission create(String name, String... actions) {  
        return new CardinalityEstimatorPermission(name, actions);  
    }  
});

private ActionConstants() {
}
private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 * */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

public SemaphorePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
            mask |= ACQUIRE;
        } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
            mask |= RELEASE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}

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 */

package com.hazelcast.security.permission;
public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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     */

    package com.hazelcast.security.permission;
public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                throw new NoSuchElementException();
            }
        };
    }
}
@Override
public boolean hasMoreElements() {
    return false;
}

@Override
public Permission nextElement() {
    return null;
}
}

@ Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}

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 */

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {

        public SetPermission(String name, String... actions) {
super(name, actions);
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}

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 *
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (obj.getClass() != getClass()) {
            return false;
        }
        return getName().equals(obj.getName());
    }
}

@Retention(RetentionPolicy.RUNTIME)
@Target({ElementType.METHOD, ElementType.FIELD, ElementType.PARAMETER})
@interface Permission {
    String[] value();
    String desc() default "";
}

@Retention(RetentionPolicy.RUNTIME)
@Target({ElementType.METHOD, ElementType.FIELD, ElementType.PARAMETER})
@interface Permissions {
    Permission[] value();
    String desc() default "";
}
if (getClass() != obj.getClass()) {
    return false;
}

ClusterPermission other = (ClusterPermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
return true;
}

package com.hazelcast.security.permission;

/**
 * Contains all the security permissions
 */

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 */
package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
extends InstancePermission {

private static final int READ = 4;
private static final int MODIFY = 8;

private static final int ALL = READ | MODIFY | CREATE | DESTROY;

public ScheduledExecutorPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }

    return mask;
}
}

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 */
package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        return mask;
    }

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    */
package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }

        return mask;
    }
}

1.592 kin-openapi 0.20.0

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1.593 buffer 4.9.2

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1.594 commons-collections 4.0

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Description: Makes the generated copyright headers reproducible
Author: Emmanuel Bourg <ebourg@apache.org>
Forwarded: no

--- a/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
package build.tools.cldrconverter;
import java.util.Calendar;
+import java.util.Date;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;
@@ -150,8 +151,14 @@
private static int getYear() {
-        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                         Locale.US).get(Calendar.YEAR);
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        return calendar.get(Calendar.YEAR);
}

// no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
import java.time.ZoneId;
import java.time.ZonedDateTime;

import java.util.GregorianCalendar;
+import java.util.Date;
import java.util.Locale;
import java.util.TimeZone;
@@ -150,8 +151,14 @@
private static int getYear() {
-        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                         Locale.US).get(Calendar.YEAR);
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        return calendar.get(Calendar.YEAR);
}
import java.util.ArrayList;
+import java.util.Calendar;
+import java.util.Date;
+import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
+import java.util.TimeZone;
import java.util.TreeMap;

/**
@@ -225,8 +229,15 @@
+ "}"

private static String getOpenJDKCopyright() {
-        int year = ZonedDateTime.now(ZoneId
-                .of("America/Los_Angeles")).getYear();
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        int year = calendar.get(Calendar.YEAR);
return String.format(Locale.US, COPYRIGHT, year);
}
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  jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-
  jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-
  jar/com/google/errorprone/annotations/NoAllocation.java

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  jar/com/google/errorprone/annotations/DoNotCall.java

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* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-jar/com/google/errorprone/annotations/RestrictedApi.java
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* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
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* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-
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* /opt/cola/permits/1112636236_1607123010.28/0/error-prone-annotations-2-0-18-sources-3-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java

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* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/EllipticCurveKeyHelper.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/EllipticCurveSignatureHelper.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
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1.613 process-nextick-args 2.0.1

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include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
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Files:
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man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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1.615 jaxb-runtime 2.3.1

1.616 des.js 1.0.1
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1.617 josharian-intern v1.0.0

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1.620 sshd 1.1.0

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### 1.622 spring-security-config 3.2.9

### 1.623 libxtst 1.2.3-1

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1.624 netty 4.0.21

1.625 tools-ant 1.7.1

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1.630 string_decoder 1.1.1

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1.632 dash 0.5.10.2 5

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1.639 safe-buffer 5.1.2

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  jar/org/springframework/core/env/PropertySources.java
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  jar/org/springframework/core/env/CommandLineArgs.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
  jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
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  jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
  jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
  jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
  jar/org/springframework/core/convert/AbstractDescriptor.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
  jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
  jar/org/springframework/core/convert/support/ExceptionDepthComparator.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-jar/org/springframework/core/convert/support/ConversionUtils.java
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  jar/org/springframework/core/ControlFlow.java
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  jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
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* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2-
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* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2.jar/org/springframework/util/FileSystemUtils.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2.jar/org/springframework/core/convert/support/DefaultConversionService.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2.jar/org/springframework/asm/asm/SpringAsmInfo.java
* /opt/cola/permits/1112636242_1607122985.37/0/spring-core-3-2-9-release-sources-2.jar/org/springframework/core/serializer/DefaultDeserializer.java
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1.648 kryo 4.0.2

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<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/66" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
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</head>
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<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!-[if lt IE 9]>
<script src="/html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js"></script>
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<script type="text/javascript">jQuery.extend(Drupal.settings, { });</script>
<script type="text/javascript" src="/sites/all/modules/jquery_update/replace/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">jQuery(document).ready(function($) { $(window).scroll(function() { if($(this).scrollTop() != 0) { $('.#toTop').fadeIn(); } else { $('.#toTop').fadeOut(); } }); $('.#toTop').click(function() { $('body,html').animate( {scrollTop:0} , 800); }); });</script>
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<script type="text/javascript">//<![CDATA[<script type="text/javascript">Drupal.settings = { };</script>]} <!--<![endif]-->

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        x = "<br>\n        The following are other community resources that may be helpful: <br>\n        <a href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal</a>\n        <a href=https://www.gnu.org/licenses/license-list.en.html>GNU License List</a>\n        <a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List</a>\n        <a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff</a>\n        <a href=choosealicense.com>Choosealicense</a>\n    } else {
        x = " ";
    }
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1.658 browserify-cipher 1.0.1

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 */

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1.660 classmate 1.5.1
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Other developers who have contributed code are:

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1.661 opentracing-spring-web-autoconfigure

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   url: http://www.cisco.com
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license:
   name: Apache License Version 2.0
   url: http://www.apache.org/licenses/LICENSE-2.0.html
termsOfService: http://www.cisco.com
title: KAKAPO - MSX SDK
version: 3.9.0
servers:
  - url: //localhost:8765
security:
  - bearerAuth: []
paths:
  /consume/api/v8/products:
    get:
      operationId: getProductsPage
      parameters:
        - explode: true
          in: query
          name: page
          required: true
          schema:
            example: 0
            format: int32
            minimum: 0
            type: integer
            style: form
        - explode: true
          in: query
          name: pageSize
          required: true
          schema:
            example: 10
            format: int32
            maximum: 1000
            minimum: 1
            type: integer
            style: form
      responses:
        "200":
          content:
            application/json:
              example:
                page: 0
                pageSize: 10
                hasNext: false
                hasPrevious: false
                contents:
                  - id: ea557db8-391c-4c67-a504-c546e367868f
                    name: vbranch
                    label: cisco.catalog.service.vbranch.name
                    version: "1"
                    description: cisco.catalog.service.vbranch.description
summary: Returns a page of products.
tag: - Products

post:
operationId: createProduct
requestBody:
content:
application/json:
example:
name: vbranch
label: cisco.catalog.service.vbranch.name
version: "1"
description: cisco.catalog.service.vbranch.description
image: /services/vbranch/images/icons/image_vbranch_service.svg
orderLimit: 1
multipleInstanceAllowed: false
price: 500
options: []
properties: []
configuration:
  device: "false"
  parts: "2"
  showOffers: "true"
  validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/ProductCreate'
required: true
responses:
"201":
content:
application/json:
  example:
    id: ea557db8-391c-4c67-a504-c546e367868f
    name: vbranch
    label: cisco.catalog.service.vbranch.name
    version: "1"
    description: cisco.catalog.service.vbranch.description
    image: /services/vbranch/images/icons/image_vbranch_service.svg
    orderLimit: 1
    multipleInstanceAllowed: false
    price: 500
    options: []
    properties: []
    configuration:
      device: "false"
      parts: "2"
      showOffers: "true"
      validation: none
      isResource: false
      hasChildren: false
    serviceExtensions: []
    serviceConfigQueryRootXPaths: []
    schema:
      $ref: '#/components/schemas/Product'
  description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a product.
tags:
- Products
/consume/api/v8/products/count:
get:
operationId: getProductsCount
responses:
"200":
  content:
    application/json:
      example: 11
      schema:
        format: int64
        type: integer
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns count of products.
tags:
- Products
/consume/api/v8/products/[id]:
delete:
operationId: deleteProduct
parameters:
- explode: false
in: path
name: id
required: true
schema:
  format: uuid
type: string
style: simple
responses:
"204":
description: No Content
"400":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a product.
tags:
- Products
get:
  operationId: getProduct
parameters:
- explode: false
  in: path
name: id
required: true
schema:
  format: uuid
  type: string
  style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: ea557db8-391c-4c67-a504-c546e367868f
          name: vbranch
          label: cisco.catalog.service.vbranch.name
          version: 1
          description: cisco.catalog.service.vbranch.description
          image: /services/vbranch/images/icons/image_vbranch_service.svg
          orderLimit: 1
          multipleInstanceAllowed: false
          price: 500
          options: []
          properties: []
          configuration:
            device: false
            parts: 2
            showOffers: true
            validation: none
          isResource: false
          hasChildren: false
          serviceExtensions: []
          serviceConfigQueryRootXPaths: []
          schema:
            $ref: '#/components/schemas/Product'
          description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a product.
tags:
- Products
put:
  operationId: updateProduct
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
type: string
style: simple
requestBody:
  content:
    application/json:
      example:
        name: vbranch
        label: cisco.catalog.service.vbranch.name
        version: "1"
        description: cisco.catalog.service.vbranch.description
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        orderLimit: 1
        multipleInstanceAllowed: false
        price: 500
        options: []
        properties: []
        configuration:
          device: "false"
          parts: "2"
          showOffers: "true"
validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/ProductUpdate'
required: true
responses:
"200":
  content:
    application/json:
      example:
        id: ea557db8-391c-4c67-a504-c546e367868f
        name: vbranch
        label: cisco.catalog.service.vbranch.name
        version: "1"
        description: cisco.catalog.service.vbranch.description
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        orderLimit: 1
        multipleInstanceAllowed: false
        price: 500
        options: []
        properties: []
        configuration:
          device: "false"
          parts: "2"
          showOffers: "true"
        validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/Product'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: ‘#/components/schemas/Error’
      description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: ‘#/components/schemas/Error’
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: ‘#/components/schemas/Error’
      description: Internal Server Error

summary: Update a product.
tag:
- Products

/consume/api/v8/offers:
get:
  operationId: getOffersPage
parameters:
- explode: true
  in: query
  name: productId
  required: false
  schema:
    format: uuid
    type: string
    style: form
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
  required: true
  schema:
example: 10
format: int32
maximum: 1000
minimum: 1
type: integer
style: form
responses:
"200":
content:
application/json:
example:
page: 0
pageSize: 10
hasNext: false
hasPrevious: false
contents:
- id: e3733184-09fa-4dc1-90e2-9ca233d5999a
  name: branches
  label: cisco.consume.service.vbranch.offer.name
  description: cisco.consume.service.vbranch.offer.description
  productId: 46bad1ba-2704-419d-b9b4-f1cdff79da4f
  version: 1
  displayOrder: 1
  image: /services/vbranch/images/icons/image_vbranch_service.svg
  supportedProperties:
  - Basic-small
  supportedOptions:
    - name: Template_Development_Environment
      value: "Yes"
    - name: Zero_Touch_Deployment
      value: "Yes"
    - name: Custom_Service_Chaining
      value: "Yes"
    - name: Third_Party
      value: "Yes"
  - id: 90521e4f-8074-458c-b278-2144c0f53b5a
    name: cisco.consume.service.manageddevice.label
    label: cisco.consume.manageddevice.offer.manageddevice.full
    description: cisco.consume.service.manageddevice.description.label
    productId: c9651078-b8d9-4018-bf25-8be6b6c06d85
    version: 1
    displayOrder: 1
    image: services/manageddevice/images/managed-cpe.svg
    supportedProperties:
    - Basic-small
    supportedOptions:
    - name: Centralized_device_management
      value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/OfferPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of product offers.
tags:
  - Offers
post:
  operationId: createOffer
requestBody:
  content:
    application/json:
      example:
        name: cisco.consume.service.manageddevice.label
        label: cisco.consume.manageddevice.offer.manageddevice.full
        description: cisco.consume.service.manageddevice.description.label
        productId: 83432bdd-1293-4bf3-ab53-77a199e2beff
        version: 1
        displayOrder: 1
application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a product offer.
tags:
- Offers
/consume/api/v8/offers/count:
  get:
    operationId: getOffersCount
    parameters:
    - explode: true
      in: query
      name: productId
      required: false
      schema:
        format: uuid
        type: string
        style: form
    responses:
      "200":
        content:
          application/json:
            example: 7
            schema:
              format: int64
              type: integer
description: OK
"400":
  content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns count of product offers.
tag: Offers
/consume/api/v8/offers/{id}:
delete:
  operationId: deleteOffer
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a product offer
tags:
- Offers
get:
  operationId: getOffer
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
type: string
style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: e3733184-09fa-4dc1-90e2-9ca233d5999a
          name: branches
          label: cisco.consume.service.vbranch.offer.name
description: cisco.consume.service.vbranch.offer.description
          productId: 46bad1ba-2704-419d-b9b4-f1cdef79da4f
          version: 1
          displayOrder: 1
image: /services/vbranch/images/icons/image_vbranch_service.svg

supportedProperties:
  - Basic-small

supportedOptions:
  - name: Template_Development_Environment
    value: "Yes"
  - name: Zero_Touch_Deployment
    value: "Yes"
  - name: Custom_Service_Chaining
    value: "Yes"
  - name: Third_Party
    value: "Yes"

schema:
  $ref: '#/components/schemas/Offer'

description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns a product offer.
tags:
  - Offers
put:
operationId: updateOffer
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        name: branches
        label: cisco.consume.service.vbranch.offer.name
        description: cisco.consume.service.vbranch.offer.description
        productId: 46bad1ba-2704-419d-b9b4-f1cdf79da4f
        version: 1
        displayOrder: 1
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        supportedProperties:
          - name: Template_Development_Environment
            value: "Yes"
          - name: Zero_Touch_Deployment
            value: "Yes"
          - name: Custom_Service_Chaining
            value: "Yes"
          - name: Third_Party
            value: "Yes"
        schema:
          $ref: '#/components/schemas/OfferUpdate'
        required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: e3733184-09fa-4dc1-90e2-9ca233d5999a
          name: branches
          label: cisco.consume.service.vbranch.offer.name
          description: cisco.consume.service.vbranch.offer.description
          productId: 46bad1ba-2704-419d-b9b4-f1cdf79da4f
          version: 1
          displayOrder: 1
image: /services/vbranch/images/icons/image_vbranch_service.svg

supportedProperties:
- Basic-small

supportedOptions:
- name: Template_Development_Environment
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Custom_Service_Chaining
  value: "Yes"
- name: Third_Party
  value: "Yes"

schema:
  $ref: '#/components/schemas/Offer'

description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Update a product offer.

tags:
  - Offers
/manage/api/v8/devices:
  get:
    operationId: getDevicesPage
    parameters:
    - explode: true
      in: query
      name: deviceIds
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: serviceIds
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: types
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: serialKeys
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: serviceTypes
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: models
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
name: subtypes
required: false
schema:
  - $ref: '#/components/schemas/StringArray'
  style: form
  - explode: true
in: query
name: names
required: false
schema:
  - $ref: '#/components/schemas/StringArray'
  style: form
  - explode: true
in: query
name: versions
required: false
schema:
  - $ref: '#/components/schemas/StringArray'
  style: form
  - explode: true
in: query
name: tenantIds
required: false
schema:
  - $ref: '#/components/schemas/UuidArray'
  style: form
  - explode: true
in: query
name: severities
required: false
schema:
  - $ref: '#/components/schemas/StringArray'
  style: form
  - explode: true
in: query
name: page
required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
  - explode: true
in: query
name: pageSize
required: true
schema:
example: 10
format: int32
maximum: 1000
minimum: 1
type: integer
style: form
- explode: true
in: query
name: sortBy
required: false
schema:
  example: name
type: string
style: form
- explode: true
in: query
name: sortOrder
required: false
schema:
  enum:
  - asc
  - desc
type: string
style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 3
          hasNext: true
          hasPrevious: false
          contents:
            - id: 57ace99e-5301-44b1-87d8-9383feb705c3
              name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
              model: CISCO CSR 1000v
              type: CISCO CSR 1000v
              serialKey: CLctKw8azMR
              version: "123"
              serviceType: manageddevice
              managed: true
              onboardType: direct
              onboardInformation:
                serviceType: manageddevice
                variables:
"\"ONBOARDING_INTERFACE\"":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$IH9SrDINF1YkYD7/a9FSYHmoxeAY4AEcmcCGbe1ZWGOGx1nkn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8SB
nSiQUd4kW5VqGe/6jLziV59kU3n4DKKumlBgVGMCRIV6deRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS": "$8$Tx9ngrtcjB+i9ihlUJTAYFE10GhI+8IB43he/4SGbnr45Bi0ETyP9Wq90km3gbeh","ENABLE_SECRET": "$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME": "vmsmd33"}

address: 10.254.0.3
always-allocate-ip: "true"
ned-id: cisco-ios
onboarding-template-done: "true"
password: "$8$H9srDINF1YkYD7/x9FSYHnoxeAY4AEncCGbe1ZWGOGx1nkn6+EdsPYacwXUdhport: "22"
secondary-password: "$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
value: FAIR
severity: "5"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:
healthStatus:
value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
pnpStatus:
value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
deviceLifeCycleStatus:
value: UNREGISTERED
severity: "5"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
tunnelStatus:
value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7be0266
userId: f8eb77d2-de36-43b7-a021-adea3901e23a
createdOn: 2020-08-06T17:40:50Z
modifiedOn: 2020-08-06T17:40:50Z
- id: 2d3f45a6-4862-4ecf-b228-4736f0a678e5
  name: device-name-27a878a4-721e-4758-82b3-c05de0c7de0b
  model: CISCO CSR 1000v
  type: CISCO CSR 1000v
  serialKey: 36unrHXMXmhr
  version: "123"
  serviceType: manageddevice
  managed: true
  onboardType: direct
  onboardInformation:
    serviceType: manageddevice
    variables:
      "{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEcncCGbe1ZWOGx1kn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQud4kW5VqGe/6jLziV59kU3n4DkKumlB9VGMCRIV6deRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrcjB+i9hhlUJTAYFE10GhI+81B43he/+SGbnr45Bi0ETYp9Wq90km3gbeh","ENABLE_SECRET":"$8$smaC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXoBvG0d","CUSTOMER_USERNAME":"vmsmd33"}"
  address: 10.254.0.3
  always-allocate-ip: "true"
  ned-id: cisco-ios
  onboardInformation: true
  password: $8$IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEcncCGbe1ZWOGx1kn6+EdsPYacwXUdh
  port: "22"
  secondary-password: $8$smaC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXoBvG0d
  device-type: cli
  original-address: 3.134.83.79
  username: vmsmd33
  status:
    value: FAIR
    severity: "5"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by system
  statusDetails:
    healthStatus:
      value: UNKNOWN
      severity: "3"
    lastUpdated: 2020-08-06T18:17:21Z
    lastUpdatedMessage: Updated by superuser
    pnpStatus:
      value: UNKNOWN
      severity: "3"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser
lifeCycleStatus:
  value: UNREGISTERED
  severity: "5"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser
syncStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser
tunnelStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser

tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:21Z
modifiedOn: 2020-08-06T18:21Z

- id: 83a38a3e-5b26-4d87-b1c7-6729641a8e51
  name: device-name-145611c2-f09c-4624-9b03-98fdd9c6d830
  model: CISCO CSR 1000v
  type: CISCO CSR 1000v
  serialKey: vvKqftXraGq
  version: "123"
  serviceType: manageddevice
  managed: true
  onboardType: direct
  onboardInformation:
    serviceType: manageddevice
  variables:
    "ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$/lH9SrDINFIYkYD7/a9FSYHnoxeAY4AEcncCGbe1ZWGOGx1nk6n6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQUd4kW5qGe/6jLziV59kU3n4DKKumlBgVGMCRIV6dcrZybuN1J6cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+9ihUlJUTAYFE10GhI+8lB43he/+SGbm45Bi0ETYp9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}

address: 10.254.0.3
always-allocate-ip: "true"
ned-id: cisco-ios
onboarding-template-done: "true"
password: "$8$/lH9SrDINFIYkYD7/a9FSYHnoxeAY4AEcncCGbe1ZWGOGx1nk6n6+EdsPYacwXUdh
port: "22"
secondary-password:
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
  value: FAIR
  severity: "5"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by system
statusDetails:
  healthStatus:
    value: UNKNOWN
    severity: "3"
    lastUpdated: 2020-08-06T18:17:21Z
    lastUpdatedMessage: Updated by superuser
pnpStatus:
  value: UNKNOWN
  severity: "3"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
lifeCycleStatus:
  value: UNREGISTERED
  severity: "5"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
syncStatus:
  value: UNKNOWN
  severity: "3"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
tunnelStatus:
  value: UNKNOWN
  severity: "3"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser

tenantId: a76407a2-d293-4e19aaea-d5d4da4f4b2f
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3ff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:17:21Z
modifiedOn: 2020-08-06T18:17:21Z

schema:
  $ref: '#/components/schemas/DevicesPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a page of devices.
tag:
  - Devices
post:
  operationId: createDevice
requestBody:
  application/json:
    example:
      tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
      name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
      model: CISCO CSR 1000v
      type: CISCO CSR 1000v
      serviceType: manageddevice
      serialKey: CLctKw8azMR
      version: "123"
      managed: true
      onboardType: direct
      onboardInformation:
        serviceType: manageddevice
        variables:
          "ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$IH9SrDINF1YkYD7/a9FSYHmxoeAY4AecncCGbe1ZWGOGx1nk6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQUd4kW5VqGe/6jLzV59kU3n4DKKumIBgVGMCRIV6dcRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+I9hiUJTAYFE10Ghi+8IB43he/+SGbm45Bi0ETYP9Wq90km3geh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBsx9+h5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"']
  address: 10.254.0.3
always-allocate-ip: "true"
bed-id: cisco-ios
onboarding-template-done: "true"
password: "$8$IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEnecnCGbe1ZWGOGX1nk6+EdsPYacwXUdh
port: "22"
secondary-password:
$8$maC3mSZ0hY4c25G7M6bWBxs9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33

response:

201:
content:
application/json:

e:
id: 57ace99e-5301-44b1-87d8-9383feb705c3
name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
model: CISCO CSR 1000v
type: CISCO CSR 1000v
serialKey: CLctKw8azMR
version: "123"
serviceType: manageddevice
managed: true
onboardType: direct
onboardInformation:
serviceType: manageddevice
variables:
{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$IH9SrDINF1Yk
YD7/x9FSYHnoxeAY4AEnecnCGbe1ZWGOGX1nk6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$B
nSiQud4kW5qGe/6jLiV59kU3n4DkkUmlBgVGMCR1V6dCRzybuN16cGZE+G+A","onboarding-template-
id":"cisco-ios-secure-
onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+i9hhlUIJAYFE10Gh1+8IB43he/+SGbar45Bi0ETYP
9Wq90km3gbh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBxs9+b5ys1Ehin/SJFIuwNjh50BQpR0s
SpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}"
address: 10.254.0.3
always-allocate-ip: "true"
bed-id: cisco-ios
onboarding-template-done: "true"
password: "$8$IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEnecnCGbe1ZWGOGX1nk6+EdsPYacwXUdh
port: "22"
secondary-password:
$8$maC3mSZ0hY4c25G7M6bWBxs9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a device.
tags:
- Devices
/manage/api/v8/devices/{id}:
delete:
  operationId: deleteDevice
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
summary: Deletes a device.
tags:
- Devices
get:
  operationId: getDevice
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
            name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
            model: CISCO CSR 1000v
            type: CISCO CSR 1000v
            tags:
              resourceProvider: nso
              serialKey: 97K7C3YDPY1
              version: 16.9.5
              serviceInstanceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
              subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
              serviceType: manageddevice
              managed: true
              onboardType: pnp
              onboardInformation:
                serviceType: manageddevice
                variables: {"ONBOARDING_INTERFACE":"GigabitEthernet1","CPE_HOSTNAME":"CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3"}
day0-file: CPE_day0_base_config.txt,CPE_day0_tunnel_config.txt
always-allocate-ip: "true"
ned-id: cisco-ios
encryptedVariables:
'{"CPE_SNMP_V3_AUTH_PASS":"$8$ZZFx9L6bG368G/fSSluSkpScU2u86Ecsii5ieia61JKk05ah/L157ggRNcJhIn
vp0","CPE_SNMP_V3_PRIV_PASS":"$8$s5IODLmeuGnar7jFwDmat58fsa5vCR4YcKqrnonPfj2q2+9bdvoxMPR
UGKLVIEk7"}'}
platform-device-subtype: ISR
password: $8$2NB0CYn0o97Kf3yUcaQavEo+R2URp2N6fPLAv14GblLJzbGvaQVlssfMtBfw6Pjn
port: "22"
platform-device-category: CPE
secondary-password:
$8$ipNL0lYbqWf/k7DtnLdv1YsoqSmpndAxEayJT9qA0cQriDByU9AmWtixjIMpve
platform-device-type: CPE
device-type: cli
serialKey: 97K7C3YDPY1
username: vmsmd33
attributes:
templateDetails: '[{"templateId":"7919b9e2-cbb-4f4-9dd-f29f37d91144","templateName":"managed-
device-regression-test-template-80f3f736-1692-4128-92f1-
b109c1bf12d3","deviceParams":[]}]]
address: {'address1"":"88 Queens Quay W, Toronto, ON M5J, Canada","lat":"43.6411344","lng":-79.37703469999997'}
deviceTypeName: CISCO CSR 1000v
siteName: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
deviceInterfaces:
'[{"name":"GigabitEthernet1","roles":['onboard','wan']},"snmp":"GigabitEthernet1","nedId":"cisco-ios"]'
deviceId: CPE-828dc6b2-2345-4b8f-b5af-5db230a95cd3
deviceName: CPE-828dc6b2-2345-4b8f-b5af-5db230a95cd3
deviceSerial: 97K7C3YDPY1
tenantDisplayName: 'display-name-d5c9dc30-0232-499b-a8f3-3962c3138159'
tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
siteDisplayName: HvE8gXV1YUUW07u5ryymi9MmUdoqCsDGcb9W04VlhaUsgwyoVOgyVgwKR7NkuF
name: CPE-828dc6b2-2345-4b8f-b5af-5db230a95cd3
model: CISCO CSR 1000v
serialKey: 97K7C3YDPY1
devicePassword: $8$euuSrkJp/hr7j1+ujf4IQqy08uX0Rqln+82plXTxDL6d23duMVvkho05DpxYeM/VBT
status:
value: GOOD
severity: "1"
lastUpdated: 2020-08-04T21:01:46Z
lastUpdatedMessage: Updated by system
statusDetails:
lifeCycleStatus:
  value: Onboarded
  severity: "1"
lastUpdated: 2020-08-04T21:01:46Z
lastUpdatedMessage: Updated by system
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: e0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-04T20:59:34Z
modifiedOn: 2020-08-04T21:01:46Z
schema:
  $ref: '#/components/schemas/Device'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a device.
tags:
- Devices
/manage/api/v8/devices/{id}/config:

get:

operationId: getDeviceConfig

parameters:

- explode: false

  in: path

  name: id

  required: true

schema:

  type: string

  style: simple

responses:

  "200":

  content:

  application/json:

    example: "Building configuration...

    Current configuration : 9574\n
    Last configuration change at 20:36:57 UTC Tue Aug 4\n
    service timestamps debug datetime msec

    service timestamps log datetime msec

    service password-encryption

    service call-home

    platform qfp utilization monitor load 80\n
    no platform punt-keepalive disable-kernel-core

    platform console virtual

    platform hardware throughput level MB 100

    !hostname CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3

    !no boot-start-marker

    !no boot-compact-marker

    !nvrf definition MGMT-OVERLAY

    !address-family ipv4

    !exit-address-family

    !unlogging buffered

    !no logging console

    enable secret 5 $1$rN$5rN/$zSrp3tqUpuFrU3vowyxj.

    !aaa authentication login default local\n
    !aaa authorization login default local

    !aaa authorization exec default none

    !aaa authorization network default local

    !aaa authentication configuration default

    !aaa session-id common

    !call-home

    !If contact email address in call-home is configured as sch-smart-licensing@cisco.com\n
    !the email address configured in Cisco Smart License Portal will

    !be used as contact email address to send SCH notifications\n
    !contact-email-address

    !sch-smart-licensing@cisco.com\n
    !source-interface GigabitEthernet1

    !profile "CiscoTAC-1"

    !active

    !destination transport-method

    !no destination transport-method email\n
    !no ip source-route

    !no ip bootp server

    !ip name-server

    !ip domain name

    !ip admission watch-list

    !login on-success log

    !unsubsriber templating

    !multilink

    !bundle-name authenticated

    !enrollment

    !enrollment pkcs12

    !revocation-check

    !ncs enrollment terminal

    !trusted pki

    !trustpoint SLA-TrustPoint

    !enrollment pkcs12

    !revocation-check

    !ncs enrollment pki certificate chain ncs\n
    !certificate ca

7D4D1247F4401502FD7418ABC43328389FC402B

\3082058C 30820374 A0030201 0202147D 4D1247F4 4011502F D7418ABC\n
43328389 A0 FC402B30 0D06092A 864886F7 0D01010D 500305E 310B309A\n
06035504 06130255 53310B30 09060355 04081302 43413111 300F0603\n
55040713 0853616E 204A6F73 5310C30 0A060355 040A1303 564D3311\n
11300F06 0355040B 13085365 72766963 6573310E 300C0603 55040313\n
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Copy of Network Configuration:

```bash
\0B050030 \n 32310E30 0C060355 040A1305 43697363 6F312030 1E060355\04031317 43697363 6F624C69 666E7E3 696E6720 526F6F74 204341130\1E170D31 33030333 30313934 \n 3834375A 170D3338 303535330 31393438\34375A30 32310E30 0C060355 040A1305 \n 3834375A 526F6F74 204341130\04031317 43697363 6F624C69 666E7E3 696E6720 526F6F74 204341130\82012230 0D06092A 846886F7 0D010100 05000382 010F0030 \n 82010A02 \82010A02 \A6BCBD96 131E05F7 145EAE72 C26D86E6 17222EA1 F1EFF64D \n \CBB4C798 212A147 C6553BD7 9471380D 8711441E 1AAFF071 9CAEE6388\8A3EE520 \n 1C394D8F 462E2F39 C6597F15 B98COA59 5BB5B5C8 0CFE6EA3\700A8BF7 D8F256EE \n 4AAA8E0D DB6FDC19 60B1FD1F 8FC69C9 6FA68957\A2617DE7 104DFC5F EA2956AC \n 7390A3EB 2B5436AD C847A2C5 DAB53EB8\69A9A535 58E9F3E3 C0BD23CF 58BD7188 \n 68E69491 20F32E07 94871E7D\A3BCC84 F10684C7 4BC8E00F 539BA42B 42C68BB7 \n C7479096 B4C6B2D6\EA2F505D C7B062A4 6811D95B E8250FC4 5D5DFB8 8F27D191 \n C5F0D76E\61F9A4CD 3D992327 A8BB03BD 46ED7069 7CBADFB8 5F5D4368 95135E44\ADFCC6CF 04D7EF1D 02030100 01A34230 40300E06 03551D0F 0101FF04\04030301 \n 06300F06 03551D13 0101FF04 05300301 01FF301D 0603551D\0E041604 1449DC85 \n 4B3D31E5 1B3E6A17 606AF333 3D3B4C73 E8300D00\092A8648 86F7D0D1 010B0500 \n 03820100 00507F24 D392A666 86025DF9\E838AE6C 64D4F6B0 49631C78 240DA905 \n 604EDCDE FF4FED2B 77FC460E\CD636FD8 DD4468E1 3A5673AB 9093D3B1 6C93E8DB \n D98987BF E40CB9DE\1AECAC02 2189BB5C 8FA85686 CD9B8646 557B1468 8DF66A8A \n 467A3DF4\4D565700 6AD0F0FD CF830515 3C04FF7C 21E878AC 11BA9CD2 55A9232C\7CAC7B67 C1AF7F46 15E299B7 1B1CF9BB E973DE7F 5BBDE8B6 C71E3B49\1765308B \n 5FB0DA06 B92AEF7F 494E8A9E 07B85737 F3A58BE1 1A48A229\C37C1E69 39F08678 \n 80D2CD16 D6BAECA EEBCCF9 842B787B 35202CDA\60E4616A B623CDBD 230EA3FB \n 418616A9 4093E049 4D10AB75 27E86F73\932E35B8 862FDAE2 0275156F 719BB2F0 \n D697DF7F 28\n quit\n!unredundancy\n!crypto ike2 authorization policy default\n!route set\n!interface\n!crypto ike2 redirect\n!crypto ike2 proposal\n!IKEv2-prop1 \n encryption aes-cbc-256 aes-cbc-128\n integrity sha256\n!sha1 group 2 5\n!crypto ike2 policy IKEv2-pol \n proposal IKEv2-prop1\n!\n!crypto ike2 profile MGMT-OVERLAY\n match identity remote fqdn\n!domain cloudvpn.com\n identity local address 10.254.0.1\n!authentication\n!remote pre-share key Cisco1234Admin\n!authentication local pre-share\n!key Cisco1234Admin\n!dpd 600 2 periodic\n!nat keepalive 25\n!aaa\n!authorization group psk list default default\n!crypto ike2 client\n!flexvpn OVERLAY\n! peer 1 192.171.16.177 client connect Tunnel0\n\n!time 600\n!crypto ipsec security-association\n!idle-time 600\n!crypto ipsec transform-set MGMT-ENCР esp-aes esp-sha-hmac\n!mode transport\n!crypto ipsec profile MGMT-OVERLAY\n set transform-set\n!MGMT-ENCР\n!set crypto ike2-profile MGMT-OVERLAY\n!crypto call\n
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```

License:
```
license udi pid CSR1000V sn 97K7C3YDPY 1\nlicense smart enable\n```

Username & Password:
```
username admin privilege 15 password\nusername msx-user privilege 15 password\n```

Ikev2 Policy:
```
IKEv2-prop1 \n encryption aes-cbc-256 aes-cbc-128\n integrity sha256\n!sha1 group 2 5\n!crypto ike2 policy IKEv2-pol \n proposal IKEv2-prop1\n!\n!crypto ike2 profile MGMT-OVERLAY\n match identity remote fqdn\n!domain cloudvpn.com\n identity local address 10.254.0.1\n!authentication\n!remote pre-share key Cisco1234Admin\n!authentication local pre-share\n!key Cisco1234Admin\n!dpd 600 2 periodic\n!nat keepalive 25\n!aaa\n!authorization group psk list default default\n!crypto ike2 client\n!flexvpn OVERLAY\n! peer 1 192.171.16.177 client connect Tunnel0\n\n!time 600\n!crypto ipsec security-association\n!idle-time 600\n!crypto ipsec transform-set MGMT-ENCР esp-aes esp-sha-hmac\n!mode transport\n!crypto ipsec profile MGMT-OVERLAY\n set transform-set\n!MGMT-ENCР\n!set crypto ike2-profile MGMT-OVERLAY\n!crypto call\n```
admission limit ike in-negotiation-sa 30

interface Tunnel0
 vrf forwarding MGMT-OVERLAY
 ip address 10.254.0.1 255.255.255.255
 ip mtu 1400
 ip tcp adjust-mss 1360
 tunnel

source GigabitEthernet1 tunnel mode ipsec ipv4
 tunnel destination

dynamic tunnel protection ipsec profile MGMT-OVERLAY
 GigabitEthernet1
 description WAN interface
 ip address dhcp
 negotiation auto
 no mop enabled
 no mop sysid

nd uno ip http server
 uno ip http secure-server
 uno http client

source-interface GigabitEthernet1
 tunnel ipsec profile MGMT-OVERLAY

interface
 GigabitEthernet1
 description WAN interface
 ip address dhcp
 negotiation auto
 no mop enabled
 no mop sysid

ip forward-protocol nd
 no ip http server
 no ip http secure-server
 ip http client

ip route vrf MGMT-OVERLAY 0.0.0.0 Tunnel0

ip ssh version 2
 ip ssh pubkey-chain
 username

ip scp server enable

snmp-server group ciscogroup
 v3 auth
 snmp-server community ciscodp RW

control-plane

line con 0
 exec-timeout 5
 privilege level 15
 authorization exec none
 logging synchronous
 stopbits 1

line vty 0 4
 exec-timeout 0
 privilege level 15
 authorization exec none
 length 0
 transport input ssh

line vty 5 15
 exec-timeout 30
 privilege level 15
 authorization exec none
 logging synchronous
 transport input ssh

transport https ipv4 192.171.16.174 port 8443

end

CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3#
Internal Server Error

Returns the running configuration for a device.

- Devices

/manage/api/v8/devices/{id}/templates:
delete:
operationId: detachDeviceTemplates
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
content:
  application/json:
    schema:
      items:
        $ref: '#/components/schemas/DeviceTemplateHistory'
      type: array
    description: OK
"400":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Bad Request
"401":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Unauthorized
"404":
content:
Detach device templates that are already attached to a device.

tags:
- Devices

get:
operationId: getDeviceTemplateHistory
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
  content:
    application/json:
      schema:
        items:
          $ref: '#/components/schemas/DeviceTemplateHistory'
        type: array
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns device template history.
tags:
  - Devices
post:
  operationId: attachDeviceTemplates
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  requestBody:
    content:
      application/json:
        example:
          templateDetails:
            - templateId: e7e20070-9d67-40a8-a21d-f655606b7421
templateParams:
              - name: name1
                value: value10461b304-da18-42bd-a48b-502d8e5166a4
              - name: name2
                value: value217c83dd3-f732-4a36-ae27-d86599c7f513
            - templateId: 87710499-3431-4c53-8ce2-c28170c261e7
templateParams:
              - name: name1
                value: value1fc9ca565-8a74-401a-9dce-5fe35d203150
              - name: name2
                value: value2bfde5275-8d32-4e2c-b023-7b987cb9a1ff
  schema:
    $ref: '#/components/schemas/DeviceTemplateAttachRequest'
required: true
responses:
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Attaches one or more device templates to a device instance.
tags:
- Devices
put:
  operationId: updateDeviceTemplates
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/DeviceTemplateUpdateRequest'
      required: true
responses:
  "200":
    content:
      application/json:
        schema:
          items:
            $ref: '#/components/schemas/DeviceTemplateHistory'
type: array
description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
  "403":
  "404":
  "405":
  "406":
  "407":
  "408":
  "409":
  "410":
  "411":
  "412":
  "413":
  "414":
  "415":
  "416":
  "417":
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  "421":
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  "499":

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Update device templates that are already attached to a device.

tags:
- Devices

/manage/api/v8/devices/{id}/templates/{templateId}:
delete:

operationId: detachDeviceTemplate

parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: false
  in: path
  name: templateId
  required: true
  schema:
    format: uuid
    type: string
    style: simple

responses:
"200":

content:
Detaches a template from a device.

**/manage/api/v8/devices/{id}/redeploy:**

- **operationId:** redeployDevice
- **parameters:**
  - **explode:** false
  - **in:** path
  - **name:** id
  - **required:** true
  - **schema:**
type: string
style: simple
responses:
  "200":
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "409":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Conflict
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Dedeports a device.
tags:
- Devices
/manage/api/v8/devicetemplates:
post:
  operationId: createDeviceTemplate
requestBody:
  content:
    application/json:
      example:
        name: name-8d4a2628-06c0-436b-8a90-d90027917405
        version: v1
        serviceType: manageddevice
tenantAccess:
  global: true
schema:
  $ref: '#/components/schemas/DeviceTemplateCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          name: name-8d4a2628-06c0-436b-8a90-d90027917405
          version: v1
          serviceType: manageddevice
          configContent: string
          templateStandard: nso
          tenantAccess:
            templateId: beaf0bee-bdf9-4ade-993a-de352fa38bc7
            global: true
            id: beaf0bee-bdf9-4ade-993a-de352fa38bc7
            userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f
            createdOn: 2020-08-06T19:37:55.615Z
            schema:
              $ref: '#/components/schemas/DeviceTemplate'
            description: Created
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
$ref: "#/components/schemas/Error"

description: Internal Server Error

summary: Creates a device template.

tags:
- Device Templates

/manage/api/v8/devicetemplates/list:

get:

operationId: getDeviceTemplatesList

parameters:
- example: manageddevice
  explode: true
  in: query
  name: serviceType
  required: false
  schema:
    type: string
    style: form

- example: 2664f157-18d8-4ecd-8c78-66b7cb7e1e25
  explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
    type: string
    style: form

responses:
  "200":
    content:
      application/json:
        example:
          - name: name-8d4a2628-06c0-436b-8a90-d90027917405
            version: v1
            serviceType: manageddevice
            templateStandard: nso
            id: beaf0bee-bdf9-4ade-993a-de352fa38bc7
            userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f
            createdOn: 2020-08-06T19:37:55.615Z
          - name: name-5cba2b31-93e7-4968-8a3a-a20552bc527b
            version: v1
            serviceType: manageddevice
            templateStandard: nso
            id: 1f3098f9-884d-485a-b1cb-501067f5142a
            userId: c0c3cfff-0d5d-11ea-b88a-a7053c652ef4
            createdOn: 2020-08-06T19:40:41.316Z
          - name: name-54852468-0eca-4d60-9764-5f207090954d
            version: v1
            serviceType: manageddevice
templateStandard: nso
id: 5af62fa7-c753-43a9-8b69-be87e08ab8f7
userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T19:40:41.235Z
- name: name-c24fe522-ca69-4be1-829b-518478e4d2ee
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: e7e20070-9d67-40a8-a21d-f655606b7421
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T18:26:28.021Z
- name: name-42e1aabb-45cf-4209-8de0-250aaaf88715
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: f3b096d8-5633-4956-bb2f-1aa8f0f5b122
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T19:40:41.092Z
- name: name-38bc5ad4-a94e-4904-a1ff-12add574efb
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 87710499-3431-4c53-8ce2-c28170c261e7
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T18:26:28.131Z
- name: managed-device-regression-test-template-80f3f736-1692-4128-92f1-b109c1bf12d3
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 7919b9e2-cbbb-44f4-9dd1-f29f37d91144
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-04T20:30:52.486Z
- name: name-f3f300c9-94e5-46ac-88d8-f8bb5cbb4b1a
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 5a6e44b7-987c-476f-9b52-b7506dfd0ac4
  userId: b77fb077-997a-401b-b6c8-08a4b89e383a

schema:

items:
  $ref: '#/components/schemas/DeviceTemplate'
type: array

description: OK
"400":
content:
  application/json:
    schema:
$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:
application/json:
schema:

$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:
application/json:
schema:

$ref: '#/components/schemas/Error'

description: Unauthorized

"500":

content:
application/json:
schema:

$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns a list of device templates.

tags:
- Device Templates

/manage/api/v8/devicetemplates/{id}:
delete:

operationId: deleteDeviceTemplate

parameters:

- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
  style: simple

responses:

"204":

description: No Content

"400":

content:
application/json:
schema:

$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Deletes a device template.
tags:
- Device Templates
get:
  operationId: getDeviceTemplate
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            name: name-de8f846f-199e-48e4-ad85-831f284329bb
            version: v1
            serviceType: manageddevice
            configContent: string
            templateStandard: nso
            tenantAccess:
              tenantIds: []
              global: true
            id: 031c3a01-8419-41ac-b356-5f98eb53f944
summary: Returns a device template.
tags:
- Device Templates

/manage/api/v8/devicetemplates/{id}/access:
put:
operationId: updateDeviceTemplateAccess
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
```json

type: string
style: simple
requestBody:
  content:
    application/json:
      example:
        templateId: 49baa22e-9c25-4adc-ae30-21153965ea66
        tenantIds:
          - e6d0e662-ed66-43ab-977a-35efc6cafe10
      schema:
        $ref: '#/components/schemas/DeviceTemplateAccess'
        required: true

responses:
  "200":
    content:
      application/json:
        example:
          successListOfTenants:
            - e6d0e662-ed66-43ab-977a-35efc6cafe10
          failureListOfTenants: []
        schema:
          $ref: '#/components/schemas/DeviceTemplateAccessResponse'
        description: OK

  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request

  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized

  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized

  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found

  "500":
```

content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates device template access.
tags:
- Device Templates
/manage/api/v8/services:
  get:
    operationId: getServicesPage
    parameters:
    - allowEmptyValue: false
      explode: true
      in: query
      name: tenantIds
      required: false
      schema:
        items:
          format: uuid
          type: string
        type: array
        style: form
    - explode: true
      in: query
      name: page
      required: true
      schema:
        example: 0
        format: int32
        minimum: 0
        type: integer
        style: form
    - explode: true
      in: query
      name: pageSize
      required: true
      schema:
        example: 10
        format: int32
        maximum: 1000
        minimum: 1
        type: integer
        style: form
    responses:
      "200":
        content:
          application/json:
example:
page: 0
pageSize: 10
hasNext: false
hasPrevious: false
contents:
- id: 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: 3d99211e-3095-489f-a5df-87780bbb99fd
  userId: fbcf7fa8-7cf8-42ce-8704-c66cfa42df9d
  subscriptionId: 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
  tenantName: 3d99211e-3095-489f-a5df-87780bbb99fd
  createdOn: 2020-08-06T20:26:45.956Z
  status:
    lifeCycleStatus: Ordering
  definitionAttributes:
    name: manageddevice
  id: 5872e764-c459-11e7-abc4-cec278b6b50a
  offerName: cisco.consume.service.manageddevice.label
  type: manageddevice
  attributes:
    template: manageddevice-2.0.ftl
    orchestrator: ncs
    incomplete: "true"
    version: "1"
- id: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
  userId: 876a8f91-ba41-40e5-813d-c2688baebd1a
  subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
  tenantName: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
  createdOn: 2020-08-06T20:22:56.414Z
  status:
    lifeCycleStatus: Ordering
  definitionAttributes:
    name: manageddevice
  id: 5872e764-c459-11e7-abc4-cec278b6b50a
  offerName: cisco.consume.service.manageddevice.label
  type: manageddevice
  attributes:
    template: manageddevice-2.0.ftl
    orchestrator: ncs
    incomplete: "true"
    version: "1"
- id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
  userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
subscriptionId: d5e9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

tenantName: d5e9dc30-0232-499b-a8f3-3962c3138159

createdOn: 2020-08-04T21:01:47.148Z

provisionedOn: 2020-08-04T21:01:47.093Z

status:
  lifeCycleStatus: Provisioned

definitionAttributes:
  name: Managed Device
  id: 5872e764-c459-11e7-abc4-cec278b6b50a
  offerName: Managed Device
  type: manageddevice

attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  platform-service-instance-id: d5e9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

  devices: 
    
    
    
    "status-message": "Operation ADD on device CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3 with serial number 97K7C3YDYPY1 was a SUCCESS", 
    "name": "CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3", 
    "attributes": 
      
      
      
      "ipaddress", "hostname", "subtype", "name", "ned-id", "model", "serialKey", "category", "version", "status"

    
    name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
    provisionTimestamp: Tue Aug 04 21:01:47 UTC 2020
    provisionTimestampNumber: "1596574907112"
  version: "1"

  - id: b33666428865-5d0511e7935d41dc8288f7c76a4f0b3c-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10a7b0266
  tenantId: b3366642-8865-407f-a8e3-5f56868f745f
  userlD: 5915c0c4-8b9b-4480-b30e-5fca26e6e7c7
  subscriptionId: b33666428865-5d0511e7935d41dc8288f7c76a4f0b3c-manageddevice
  tenantName: b3366642-8865-407f-a8e3-5f56868f745f
  createdOn: 2020-08-06T20:26:44.819Z

status:
  lifeCycleStatus: Ordering

definitionAttributes:
  name: manageddevice
  id: 5872e764-c459-11e7-abc4-cec278b6b50a
  offerName: cisco.consume.service.manageddevice.label
  type: manageddevice

attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  incomplete: "true"
  version: "1"

schema:
$ref: '#/components/schemas/ServicesPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of services.
tags:
  - Services
post:
  operationId: submitOrder
  parameters:
  - explode: true
    in: query
    name: productId
    required: true
    schema:
      format: uuid
      type: string
      style: form
  - explode: true
    in: query
    name: offerId
    required: true
    schema:
      format: uuid
      type: string
      style: form
requestBody:
  content:
    application/json:
      example:
        type: request
        serviceType: manageddevice
        action: orderOffer
        payload:
          service:
            template: manageddevice-2.0.ftl
            orchestrator: ncs
            incomplete: "true"
            name: manageddevice
            id: 5872e764-c459-11e7-abc4-cc978b6b50a
            type: manageddevice
            version: "1"
          tenant:
            id: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
            name: b2b77db8-dbd9-46b4-8db5-6da58b36984e
          user:
            name: Super
            id: superuser
          provider:
            id: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
            name: CiscoSystems
          offer:
            id: 627a75ec-c459-11e7-abc4-cc978b6b50a
            name: cisco.consume.service.manageddevice.label
            type: full
            label: cisco.consume.manageddevice.offer.manageddevice.full
          cost:
            deviceTotal: "0"
            deviceTotalType: USD
            serviceTotal: "0"
            serviceTotalType: USD
          subscriptionDetail:
            sites: []
          serviceInstanceDetail:
            tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
            tenantName: b2b77db8-dbd9-46b4-8db5-6da58b36984e
          serviceDowngrade: {}
          nsorResponseTypes:
            createOperation: pnp
            updateOperation: pnp
            deleteOperation: pnp
          schema:
            $ref: '#/components/schemas/LegacyServiceOrder'
        required: true
responses:
"201":
  content:
    application/json:
      example:
        message: Order submitted successfully.
        transactionUUID: a25a8111-bced-4446-a9ad-d681b13d1b2d
        subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
        url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-cec278b6b50a
        status: success
        serviceInstanceIds:
          - 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
        sites: []
      schema:
        $ref: '#/components/schemas/LegacyServiceOrderResponse'
      description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Submits an order.
tags:
- Services
put:
  operationId: updateOrder
  parameters:
  - explode: true
in: query
name: productId
required: true
schema:
  format: uuid
  type: string
  style: form
  explode: true
in: query
name: offerId
required: true
schema:
  format: uuid
  type: string
  style: form
requestBody:
  content:
    application/json:
      example:
        type: request
        serviceType: manageddevice
        action: orderOffer
        payload:
          service:
            template: manageddevice-2.0.ftl
            orchestrator: ncs
            incomplete: "true"
            name: manageddevice
            id: 5872e764-c459-11e7-abc4-cec278b6b50a
            type: manageddevice
            version: "1"
          tenant:
            id: b3366642-8865-407f-a8e3-5fa56868f74f
            name: 717fc5a0-e515-40dd-a2a9-2436d0b7af74
          user:
            name: Super
            id: superuser
          provider:
            id: fe3ad89e-449f-42f2-b4f8-b10ab7bc0266
            name: CiscoSystems
          offer:
            id: 627a75ec-c459-11e7-abc4-cec278b6b50a
            name: cisco.consume.service.manageddevice.label
            type: full
            label: cisco.consume.manageddevice.offer.manageddevice.full
            cost:
              deviceTotal: "0"
              deviceTotalType: USD
serviceTotal: "0"
serviceTotalType: USD
subscriptionDetail:
sites: []
serviceInstanceDetail:
tenantId: b3366642-8865-407f-a8e3-5fa56868f74f
tenantName: 717fc5a0-e515-40dd-a2a9-2436d0b7a7f4
serviceDowngrade: {}
nsoResponseTypes:
createOperation: pnp
updateOperation: pnp
deleteOperation: pnp

schema:
$ref: '#/components/schemas/LegacyServiceOrder'
required: true
responses:
"200":
  content:
    application/json:
      example:
        message: Edit order submitted successfully.
        transactionUUID: 15acc700-dcba-4ece-85f5-0e2da9034019
        url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-cec278b6b50a
        status: success
        serviceInstanceIds:
          - 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
        sites: []
    schema:
      $ref: '#/components/schemas/LegacyServiceOrderResponse'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates an order.
tags:
- Services
/manage/api/v8/services/{id}:
delete:
  operationId: deleteService
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Unauthorized
    "404":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Deletes a service.
      tags:
        - Services
      get:
        operationId: getService
        parameters:
          - explode: false
            in: path
            name: id
            required: true
            schema:
              type: string
              style: simple
        responses:
          "200":
            content:
              application/json:
                example:
                  id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
                  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
                  tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
                  userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
                  subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
                  tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
                  createdOn: 2020-08-04T21:01:47.148Z
                  provisionedOn: 2020-08-04T21:01:47.093Z
                  status:
                    lifeCycleStatus: Provisioned
                    definitionAttributes:
                      name: Managed Device
                      offerName: Managed Device
                      id: 5872e76d-c459-11e7-abc4-cec278b6b50a
                      type: manageddevice
                      attributes:
                        template: manageddevice-2.0.ftl
                        orchestrator: ncs
                        platform-service-instance-id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
                        devices: [{"status-message":"Operation ADD on device CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3 with serial number 97K7C3YDPY1 was a SUCCESS","name":"CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3","attributes":[]}]
type: string
style: form
- explode: true
in: query
name: serviceId
required: false
schema:
  type: string
  style: form
- explode: true
in: query
name: serviceType
required: false
schema:
  type: string
  style: form
- explode: true
in: query
name: deviceId
required: false
schema:
  type: string
  style: form
- explode: true
in: query
name: parentId
required: false
schema:
  type: string
  style: form
- explode: true
in: query
name: type
required: false
schema:
  type: string
  style: form
- explode: true
in: query
name: managingControlPlaneId
required: false
schema:
  type: string
  style: form
- explode: true
in: query
name: showImage
required: false
schema:
  default: false
  type: boolean
  style: form
- explode: true
  in: query
  name: page
  required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
- explode: true
  in: query
  name: pageSize
  required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 10
          hasNext: false
          hasPrevious: false
          contents:
            - id: 83e31860-d699-11ea-ab1f-85a66520c057
              tenantId: 3ae1903b-a43e-4c18-9d01-983ef3b82eb5
              name: Site One
              description: A great description of site one.
              image: ""
              devices: []
              status:
                type: health
                name: healthStatus
                value: unknown
                severity: "3"
              lastUpdated: 2020-08-04T21:29:01.927Z
              lastUpdatedMessage: unknown
description: Unauthenticated
"403":
  content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of Sites. Only one filter is supported at a time.
tags:
- Sites
post:
  operationId: createSite
  requestBody:
    content:
      application/json:
        example:
          tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
          deviceIds: []
          name: Your Site Name
          description: A description of the site.
        schema:
          $ref: '#/components/schemas/SiteCreate'
        required: true
  responses:
    "201":
      content:
        application/json:
          example:
            id: fa1872f0-d824-11ea-ab1f-85a66520c057
            tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
            name: Your Site Name
            description: A description of the site.
            attributes: {}
            devices: []
            status:
              type: health
              name: healthStatus
              value: unknown
              severity: "3"
            lastUpdated: 2020-08-06T20:39:31.457707Z
            lastUpdatedMessage: unknown

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summary: Creates a new site.
tags:
- Sites
/manage/api/v8/sites/{id}:
delete:
operationId: deleteSite
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
type: string
style: simple
responses:
  "204":
description: No Content
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a site.
tags:
- Sites
get:
  operationId: getSite
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
type: string
style: simple
  - explode: true
    in: query
    name: showImage
required: false
schema:
  default: false
type: boolean
style: form
responses:
  "200":
    content:
      application/json:
        example:
          id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
name: Site Two
description: A great description of site two.
image: ""
attributes:
  tenantName: d5e9dc30-0232-499b-a8f3-3962c3138159
  contactEmail: ""
  contactName: ""
  latitude: "43.6411344"
siteDescription: A great description of site two.
location: 88 Queens Quay W, Toronto, ON M5J, Canada
longitude: -79.3770346999997
devices:
  - deviceId: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
    serviceId: d5e9dc300232-4e86777d462dd49cb5298731a94c2da0-manageddevice
    serviceType: manageddevice
    location:
      latitude: 43.6411344
      longitude: -79.3770346999997
status:
  type: health
  name: healthStatus
  value: unknown
  severity: "3"
lastUpdated: 2020-08-04T20:59:35.071Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T20:59:35.084Z
createdBy: superuser
modifiedOn: 2020-08-04T20:59:35.084Z
modifiedBy: superuser
schema:
  $ref: '#/components/schemas/Site'
description: OK
"400":
  content:
    application/json:
      schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a site.
tags:
- Sites

put:
  operationId: updateSite
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  - explode: true
    in: query
    name: sendNotification
    required: false
    schema:
      default: false
      type: boolean
      style: form
requestBody:
content:
application/json:
example:
  name: Site Three
  description: A new description with better words.
  attributes: {}
schema:
  $ref: '#/components/schemas/SiteUpdate'
required: true
responses:
  "200":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Site'
      description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Updates a site.
tags:
- Sites

/manage/api/v8/sites/{id}/devices/{deviceId}:
delete:
opera7ionId: removeDeviceFromSite
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
- explode: false
  in: path
  name: deviceId
  required: true
  schema:
    type: string
    style: simple
responses:
"204":
description: No Content
"400":

cntent:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
        summary: Removes a device from a site.
        tags:
         - Sites
        put:
          operationId: addDeviceToSite
          parameters:
           - explode: false
             in: path
             name: id
             required: true
             schema:
               format: uuid
               type: string
               style: simple
           - explode: false
             in: path
             name: deviceId
             required: true
             schema:
               type: string
               style: simple
           - explode: true
             in: query
             name: sendNotification
             required: false
             schema:
               default: false
               type: boolean
               style: form
          responses:
           "200":
             content:
               application/json:
                 example:
                   id: ec53d570-d828-11ea-ab1f-85a66520c057
                   tenantId: 66290b34-91cb-42fe-9821-c2f8007b8af3
                   name: Site Three
                   description: This is the best site description.
                   devices:
                    - deviceId: 8352c1f7-6683-4514-8ab3-1dfe8d74d800
                      serviceId: Unknown
                      serviceType: manageddevice
status:
  type: health
  name: healthStatus
  value: unknown
  severity: "3"
lastUpdated: 2020-08-06T21:08:06.345Z
lastUpdatedMessage: unknown
createdOn: 2020-08-06T21:08:06.348Z
createdBy: superuser
modifiedOn: 2020-08-06T21:08:07.230928Z
modifiedBy: a2de0081-3fe1-4c99-8daf-736bfdab7546
schema:
  $ref: '#/components/schemas/Site'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Adds a device to a site.
tags:
  - Sites
/monitor/api/v8/health/devices/list:
get:
  operationId: getDevicesHealthList
parameters:
- explode: true
  in: query
  name: ids
  required: true
  schema:
    items:
      type: string
      minItems: 1
    type: array
    style: form
responses:
  "200":
    content:
      application/json:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/ResourceHealth'
          description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Internal Server Error
tags:
- Health
/monitor/api/v8/health/services/list:
   get:
      operationId: getServicesHealthList
      parameters:
      - explode: true
        in: query
        name: ids
        required: true
        schema:
          items:
            type: string
            minItems: 1
          type: array
          style: form
      responses:
        "200":
          content:
            application/json:
              schema:
                items:
                  $ref: '#/components/schemas/ResourceHealth'
                type: array
              description: OK
        "400":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Bad Request
        "401":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Unauthenticated
        "403":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Unauthorized
        "500":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Internal Server Error
      tags:
- Health

/idm/v2/token:

post:

operationId: getAccessToken

parameters:

- explode: false
  in: header
  name: Authorization
  required: true

schema:

  type: string
  style: simple

requestBody:

content:

  application/x-www-form-urlencoded:

schema:

  $ref: '#/components/schemas/body'

responses:

"200":

content:

  application/json:

schema:

  $ref: '#/components/schemas/AccessToken'

description: OK

default:

description: Failed

summary: Returns an access token.
tags:

- Security

/idm/api/v8/roles/list:

get:

operationId: getRolesList

parameters:

- explode: true
  in: query
  name: ids
  required: true

schema:

  items:

  format: uuid
  type: string
  type: array
  style: form

responses:

"200":

content:

  application/json:

example:
- id: c0895f00-d5d5-11ea-b88a-a7053c652ef4
  name: CONSUMER
  description: Tenant Administrators have Tenant Operator-level permissions, and can also perform more advanced tasks like managing service policies and configurations.
  permissions:
  - DEVICE_MANAGEMENT
  - EXPORT_SERVICE
  - MANAGE_CATEGORY
  - MANAGE_DEVICES
  - MANAGE_DEVICE_SECRET
  - MANAGE_INCIDENT
  - MANAGE_MD_DEVICE_MODELS
  - MANAGE_MD_SITES
  - MANAGE_REMOTE_USERS
  - MANAGE_SCHEDULE_TASK
  - MANAGE_SERVICES
  - MANAGE_SERVICE_CONFIG_APPLICATION
  - MANAGE_SITES
  - MANAGE_TARGET
  - MANAGE_WORKFLOW
  - MANAGE_WORKFLOW_INSTANCE
  - ORDER_SERVICE
  - SWITCH_TENANT
  - SWITCH_TENANT_UI
  - VBRANCH_DEVICE_ACCESS
  - VBRANCH_MANAGE_SITE
  - VBRANCH_MANAGE_TEMPLATE
  - VBRANCH_MANAGE_TEMPLATE_DATA
  - VBRANCH_VIEW_SITES
  - VIEW_ALERT_SERVICE
  - VIEW_ALL_TEMPLATES
  - VIEW_BUILD_INFO
  - VIEW_CATEGORY
  - VIEW_CONTACT
  - VIEW_CONTROL_PLANE
  - VIEW_DASHBOARD
  - VIEW_DEVICES
  - VIEW_DEVICE_RUNNING_CONFIG
  - VIEWDEVICE_SECRET
  - VIEW_DOCUMENTATION
  - VIEW_END_USER
  - VIEW_EVENTLOG
  - VIEW_EXTENSION_PARAMETERS
  - VIEW_INCIDENT
  - VIEW_INTEGRATION
  - VIEW_LOCALE
  - VIEW_LOCALE_STRING
id: c08874a0-d5d5-11ea-b88a-a7053c652ef4
name: OPERATOR
description: Service Provider Operators support multiple customers by maintaining service information and settings, viewing / monitoring the SP-DNA platform, remediating basic customer issues and escalating more serious ones.
permissions:
- ACCESS_ALL_TENANTS
- ACCESS_DEVICE_TERMINAL
- DEVICE_MANAGEMENT
- EXPORT_SERVICE
- MANAGE_ALERT_SERVICE
- MANAGE_BULK_IMPORT
- MANAGE_CONTROL_PLANE
- MANAGE_DEVICES
- MANAGE_DEVICE_SECRETS
- MANAGE_INCIDENT
- MANAGE_INTEGRATION
- MANAGE_MAINTENANCE_INFO
- MANAGE_MD_DEVICE_MODELS
- MANAGE_MD_SITES
- MANAGE_METADATA
- MANAGE_METRICS
- MANAGE_METRIC_TEMPLATES
- MANAGE_NOTIFICATION
- MANAGE_NS
- MANAGE_PROVIDER
- MANAGE_SCHEDULE_TASK
- MANAGE_SECRET_POLICIES
- MANAGE_SERVICES
- MANAGE_SERVICETYPES
- MANAGE_SERVICE_CONFIG_APPLICATION
- MANAGE_SERVICE_CONFIG_ASSET
- MANAGE_SERVICE_CONFIG_ASSIGNMENT
- MANAGE_SITES
- MANAGE_SLM
- MANAGE_SYSTEM_SECRETS
- MANAGE_TARGET
- MANAGE_TEMPLATES
- MANAGE_TENANT
- MANAGE_TERMS_CONDITIONS
- MANAGE_WORKFLOW_EVENT
- MANAGE_WORKFLOW_INSTANCE
- MANAGE_WORKFLOW_RUNTIME_USER
- MANAGE_WORKFLOW_SCHEDULE
- MANAGE_WORKFLOW_TABLE
- MANAGE_WORKFLOW_TABLE_TYPE
- MANAGE_WORKFLOW_VARIABLE
- ORDER_SERVICE
- REGISTER_DEVICES
- REGISTER_DEVICE_ACTION
- SUSPEND_TENANT
- SWITCH_TENANT
- SWITCH_TENANT_UI
- UPGRADE_DEVICES
- VBRANCH_DEVICE_ACCESS
- VBRANCH_MANAGE_SETTINGS
- VBRANCH_MANAGE_SITE
- VBRANCH_MANAGE_TEMPLATE
- VBRANCH_MANAGE_TEMPLATE_DATA
- VBRANCH_VIEW_SITES
- VIEW_ALERT_SERVICE
- VIEW_ALL_TEMPLATES
- VIEW_BUILD_INFO
- VIEW_BULK_IMPORT
- VIEW_COMPONENT_METRICS
- VIEW_COMPONENT_STATUS
- VIEW_CONTACT
- VIEW_TERMS_CONDITIONS
- VIEW_WORKFLOW_EVENT
- VIEW_WORKFLOW_INSTANCE
- VIEW_WORKFLOW_RUNTIME_USER
- VIEW_WORKFLOW_SCHEDULE
- VIEW_WORKFLOW_TABLE
- VIEW_WORKFLOW_TABLE_TYPE
- VIEW_WORKFLOW_VARIABLE

```
schema:
  items:
    $ref: '#/components/schemas/Role'
    type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a list of roles.
tags:
- Roles

/idm/api/v8/roles/name/{name}:
  get:
    operationId: getRoleByName
    parameters:
      - example: CONSUMER
        explode: false
        in: path
        name: name
required: true
schema:
  type: string
  style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: c0895f00-d5d5-11ea-b88a-a7053c652ef4
          name: CONSUMER
          description: Tenant Administrators have Tenant Operator-level permissions, and can also perform more advanced tasks like managing service policies and configurations.
          permissions:
            - DEVICE_MANAGEMENT
            - EXPORT_SERVICE
            - MANAGE_CATEGORY
            - MANAGE_DEVICES
            - MANAGE_DEVICE_SECRETS
            - MANAGE_INCIDENT
            - MANAGE_MD_DEVICE_MODELS
            - MANAGE_MD_SITES
            - MANAGE_REMOTE_USERS
            - MANAGE_SCHEDULE_TASK
            - MANAGE_SERVICES
            - MANAGE_SERVICE_CONFIG_APPLICATION
            - MANAGE_SITES
            - MANAGE_TARGET
            - MANAGE_WORKFLOW
            - MANAGE_WORKFLOW_INSTANCE
            - ORDER_SERVICE
            - SWITCH_TENANT
            - SWITCH_TENANT_UI
            - VBRANCHDEVICEACCESS
            - VBRANCHMANAGE_SITE
            - VBRANCHMANAGE_TEMPLATE
            - VBRANCHMANAGE_TEMPLATE_DATA
            - VBRANCHVIEW_SITES
            - VIEW_ALERT_SERVICE
            - VIEW_ALL_TEMPLATES
            - VIEW_BUILD_INFO
            - VIEW_CATEGORY
            - VIEW_CONTACT
            - VIEW_CONTROL_PLANE
            - VIEW_DASHBOARD
            - VIEW_DEVICES
            - VIEWDEVICE_RUNNING_CONFIG
- VIEW_DEVICE_SECRETS
- VIEW_DOCUMENTATION
- VIEW_END_USER
- VIEW_EVENTLOG
- VIEW_EXTENSION_PARAMETERS
- VIEW_INCIDENT
- VIEW_INTEGRATION
- VIEW_LOCALE
- VIEW_LOCALE_STRING
- VIEW_MAINTENANCE_INFO
- VIEW_MD_DEVICE_MODELS
- VIEW_MD_METRICS
- VIEW_MD_PARAMETERS
- VIEW_MD_SITES
- VIEW_METRICS
- VIEW_PRICE_PLAN
- VIEW_PROVIDER
- VIEW_REMOTE_USERS
- VIEW_RESOURCES_UI
- VIEW_RUNNING_CONFIG
- VIEW_SCHEDULE_TASK
- VIEW_SECURITY_SETTING
- VIEW_SENSITIVE_SERVICE_CONFIG_ASSET_DETAIL
- VIEW_SERVICES
- VIEW_SERVICE_CONFIG_APPLICATION
- VIEW_SERVICE_CONFIG_ASSET
- VIEW_SERVICE_CONFIG_ASSIGNMENT
- VIEW_SERVICE_CONFIG_AUDIT
- VIEW_SERVICE_EXTENSION
- VIEW_SITES
- VIEW_STATUS
- VIEW_SUBSCRIPTIONS_UI
- VIEW_TARGET
- VIEW_TENANT
- VIEW_TERMS_CONDITIONS
- VIEW_WORKFLOW
- VIEW_WORKFLOW_INSTANCE

schema:
  $ref: '#/components/schemas/Role'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
open source used in MSX Enterprise Access Service Pack 4.0.0

```
... application/json:
    schema:
      $ref: '#/components/schemas/Error'
      description: Unauthenticated
      "403":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Unauthorized
            "404":
              content:
                application/json:
                  schema:
                    $ref: '#/components/schemas/Error'
                    description: Not Found
                  "500":
                    content:
                      application/json:
                        schema:
                          $ref: '#/components/schemas/Error'
                          description: Internal Server Error
                    summary: Returns a role by name.
                    tags:
                      - Roles
        /idm/api/v8/tenants:
          get:
            operationId: getTenantsPage
            parameters:
              - explode: true
                in: query
                name: parentId
                required: false
                schema:
                  format: uuid
                  type: string
                  style: form
              - explode: true
                in: query
                name: showImage
                required: false
                schema:
                  default: false
                  type: boolean
                  style: form
              - explode: true
                in: query
                name: page
...```
required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
- explode: true
  in: query
  name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
- explode: true
  in: query
  name: sortBy
required: false
schema:
  example: name
  type: string
  style: form
- explode: true
  in: query
  name: sortOrder
required: false
schema:
  enum:
  - asc
  - desc
  type: string
  style: form
responses:
"200":
  content:
    application/json:
      example:
        page: 0
        pageSize: 3
        hasNext: true
        hasPrevious: false
        contents:
          - id: ea7e39f2-863a-41b8-a6eb-6d730bc200b0
            createdAt: 2020-08-05T21:29:46.782Z
description: Internal Server Error
summary: Returns a page of tenants.
tags:
- Tenants
post:
operationId: createTenant
requestBody:
content:
application/json:
example:
  name: Acme Company
  description: An anvil for every roadrunner.
  url: https://cisco.com
schema:
  $ref: '#/components/schemas/TenantCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: b980988a-e418-494e-98d6-6cf2b80c9e73
          createdOn: 2020-08-06T21:43:17.941Z
          modifiedOn: 2020-08-06T21:43:17.941Z
          name: Acme Company
          description: An anvil for every roadrunner.
          url: https://cisco.com
        schema:
          $ref: '#/components/schemas/Tenant'
description: Created
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Creates a new tenant.
      tags:
        - Tenants
      /idm/api/v8/tenants/list:
        get:
          operationId: getTenantsList
          parameters:
            - explode: true
              in: query
              name: ids
              required: true
              schema:
                items:
                  format: uuid
                  type: string
                type: array
                style: form
            - explode: true
              in: query
              name: showImage
              required: false
              schema:
                default: false
                type: boolean
                style: form
          responses:
            "200":
              content:
                application/json:
                  example:
                    - id: ea7e39f2-863a-41b8-a6eb-6d730bc200b0
                      createdOn: 2020-08-05T21:29:46.782Z
                      modifiedOn: 2020-08-05T21:29:46.782Z
                      suspended: false
                      name: Acme Company
                      description: An anvil for every roadrunner.
                      url: https://cisco.com
                      numberOfChildren: 0
                    - id: b32fc309-1e42-4769-81be-dfda6a249b6f
                      createdOn: 2020-08-06T20:59:52.19Z
                      modifiedOn: 2020-08-06T20:59:52.19Z
                      suspended: false
name: Monsters Incorporated
description: Things that go bump in the night.
url: https://cisco.com
numberOfChildren: 0
- id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
  createdOn: 2020-08-04T21:28:03.665Z
  modifiedOn: 2020-08-04T21:28:03.665Z
  suspended: false
name: Alta Motors
description: The future of fast.
url: https://cisco.com
numberOfChildren: 0
schema:
  items:
    $ref: '#/components/schemas/Tenant'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of tenants.
tags:
- Tenants
/idm/api/v8/tenants/{id}:
delete:
  operationId: deleteTenant
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/Error"
      description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/Error"
      description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/Error"
      description: Unauthorized
    "404":
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/Error"
      description: Not Found
    "409":
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/Error"
      description: Conflict
    "500":
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/Error"
      description: Internal Server Error
  summary: Deletes a tenant by id.
tags:
- Tenants
get:
operationId: getTenant
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
          createdOn: 2020-08-04T21:28:03.665Z
          modifiedOn: 2020-08-04T21:28:03.665Z
          suspended: false
          name: Alta Motors
          description: The future of fast.
          url: https://cisco.com
          numberOfChildren: 0
          schema:
            $ref: '#/components/schemas/Tenant'
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":

content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns a tenant by id.
tags:
- Tenants
put:
  operationId: updateTenant
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
  requestBody:
    content:
      application/json:
        example:
          name: Acme Company
          description: We sell rocket powered rollerskates.
          url: https://cisco.com
  schema:
    $ref: '#/components/schemas/TenantUpdate'
    required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
          createdOn: 2020-08-04T21:28:03.665Z
          modifiedOn: 2020-08-04T21:28:03.665Z
          suspended: false
          name: Acme Company
          description: We sell rocket powered rollerskates.
          url: https://cisco.com
          numberOfChildren: 0
schema:
  $ref: '#/components/schemas/Tenant'

description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Updates a tenant by id.

tags:
  - Tenants

/idm/api/v8/users:

get:
  operationId: getUsersPage
  parameters:
    - explode: true
      in: query
      name: tenantId
      required: false
      schema:
        format: uuid
        type: string
        style: form
- explode: true
  in: query
  name: deleted
  required: false
  schema:
    type: boolean
    style: form
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
  required: true
  schema:
    example: 10
    format: int32
    maximum: 1000
    minimum: 1
    type: integer
    style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 3
          totalItems: 47
          hasNext: false
          hasPrevious: false
          contents:
            - id: 2415ed27-5d23-4888-8757-a33acad12eed
              status: "true"
              deleted: "false"
              username: TBaker
              firstName: Tom
              lastName: Baker
              email: noreply@cisco.com
              roleIds:
                - c08b33c0-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
- 11af2b16-90ec-4fef-b8a4-2e57945fe0a2
passwordPolicyName: ppolicy_default
- id: cf95696-1e3d-42f8-9a1d-9d219f08b944
  status: "true"
deleted: "false"
username: JPertwee
firstName: John
lastName: Pertwee
email: noreply@cisco.com
roleIds:
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4
  tenantIds:
  - ec56632e-92bc-4d30-b626-f9ee37ee3e0
    passwordPolicyName: ppolicy_default
  - id: 9349f90e-b5f8-4c1a-b302-3fda5182123e
    status: "true"
deleted: "false"
username: PDavidson
firstName: Peter
lastName: Davidson
email: noreply@cisco.com
roleIds:
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4
  tenantIds:
  - 4cc13c9c-61be-4dd1-b50b-bbcd5f40a3c4
    passwordPolicyName: ppolicy_default
  - id: 4cc13c9c-61be-4dd1-b50b-bbcd5f40a3c4
    status: "true"
deleted: "false"
username: PDavidson
firstName: Peter
lastName: Davidson
email: noreply@cisco.com
roleIds:
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4
  tenantIds:
  - ec56632e-92bc-4d30-b626-f9ee37ee3e0
    passwordPolicyName: ppolicy_default
  - id: 9349f90e-b5f8-4c1a-b302-3fda5182123e
    status: "true"
deleted: "false"
username: PDavidson
firstName: Peter
lastName: Davidson
email: noreply@cisco.com
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
    summary: Returns a page of users.
  tags:
    - Users
  post:
    operationId: createUser
    requestBody:
      content:
        application/json:
          example:
            firstName: Tom
            lastName: Baker
            email: noreply@cisco.com
            roleIds:
              - c0895f00-d5d5-11ea-b88a-a7053c652ef4
            tenantIds:
              - 18992931-6ced-4133-9101-da6e4b83a5df
            passwordPolicyName: ppolicy_default
            username: TBaker
            password: Password@1
        schema:
          $ref: '#/components/schemas/UserCreate'
          required: true
    responses:
      "201":
        content:
          application/json:
            example:
              id: b6c6e42a-d930-4e3b-ac28-2a337ec570ae
              status: "true"
              deleted: "false"
              username: TBaker
              firstName: Tom
              lastName: Baker
              email: noreply@cisco.com
              roleIds:
                - c0895f00-d5d5-11ea-b88a-a7053c652ef4
              tenantIds:
                - 18992931-6ced-4133-9101-da6e4b83a5df
              passwordPolicyName: ppolicy_default
              schema:
                $ref: '#/components/schemas/User'
          description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Creates a new user.
tags:
- Users
/idm/api/v8/users/{id}:
delete:
  operationId: deleteUser
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
responses:
"204":
  description: No Content
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Deletes a user by id.
tags:
- Users
get:
  operationId: getUser
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
"200":
  content:
    application/json:
      example:
        id: 9349f90e-b5f8-4c1a-b302-3fda5182123e
        status: "true"
        deleted: "false"
        username: PDavidson
        firstName: Peter
lastName: Davidson
email: noreply@cisco.com
roleIds:
  - c08b33c0-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
  - 4cc13c9c-61be-4dd1-b50b-bbcd5f40a3c4
passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/User'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns an existing user.
tags:
  - Users
put:
  operationId: updateUser
parameters:
  - explode: false
    in: path
name: id
required: true
schema:
  format: uuid
type: string
style: simple
requestBody:
  content:
    application/json:
      example:
        firstName: Christopher
        lastName: Eccleston
        email: noreply@cisco.com
        roleIds:
        - c0895f00-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
        - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
        passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/UserUpdate'
required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 271eaf78-b805-492a-8af8-a53183912728
          status: "true"
          deleted: "false"
          username: CEccleston
          firstName: Christopher
          lastName: Eccleston
          email: noreply@cisco.com
          roleIds:
          - c0895f00-d5d5-11ea-b88a-a7053c652ef4
          tenantIds:
          - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
          passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/User'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":

summary: Updates an existing user.
tags:
- Users
/idm/api/v8/users/current:
get:
operationId: getCurrentUser
responses:
"200":
content:
application/json:
example:
id: 271eaf78-b805-492a-8afb-a53183912728
status: "true"
deleted: "false"
username: JWhittaker
firstName: Jodie
lastName: Whittaker
eemail: noreply@cisco.com
roleIds:
- c0895f00-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
- 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
passwordPolicyName: ppolicy_default
schema:
$ref: '#/components/schemas/User'
description: OK
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Returns the current user.
tags:
- Users

/iidm/api/v8/users/updatepassword:
  put:
    operationId: updateUserPassword
    requestBody:
      content:
        application/json:
          example:
            username: JWhittaker
            oldPassword: Password@1
            newPassword: Password@2
          schema:
            $ref: '#/components/schemas/UpdatePassword'
          required: true
    responses:
      "204":
        description: No Content
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
          description: Bad Request
      "401":
        content:
          application/json:
            schema:
Update a user password.

/api/v8/workflows:

post:

operationId: importWorkflow

parameters:

- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    items:
      format: uuid
      type: string
      type: array
  style: form

- explode: true
  in: query
  name: global
  required: false
  schema:
    type: boolean
    style: form

requestBody:

content:
  application/json:
    example:
      workflow:
        unique_name: definition_workflow_1fwhkwsayquzQyyfgz6tdRoyK2
        name: Health Check Atomic
        title: Health Check Atomic
        type: generic.workflow
        base_type: workflow
variables:
- schema_id: 1flwhm42MFVKT16QCVpnzTV3NDL
  properties:
    value: ""
    scope: input
    name: service_name
    type: datatype.string
  unique_name: variable_workflow_1flwhkauAJQe4uzBvUDvCBdY2HM
  object_type: variable_workflow
  properties:
    atomic:
      is_atomic: false
    delete_workflow_instance: false
    display_name: Health Check Atomic
    favorite: false
    target:
      target_type: web-service.endpoint
      target_id: definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2
      execute_on_workflow_target: true
      object_type: definition_workflow
      actions:
        - unique_name: definition_activity_1flwhq819QYFkMjAfPWDcg4zliI
          name: HTTP Request
          title: HTTP Request
          type: web-service.http_request
          base_type: activity
          properties:
            accept: application/json
            action_timeout: 180
            allow_auto_redirect: true
            content_type: application/json
            continue_on_error_status_code: false
            continue_on_failure: false
            custom_headers:
              - name: Content-type
                value: application/vnd.spring-boot.actuator.v1+json
              - name: HTTP Request
                display_name: HTTP Request
                relative_url: /$workflow.definition_workflow_1flwhkwsayquzQyyfgz6tdRoyK2.input.variable_workflow_1flwhkauAJQe4uzBvUDvCBdY2HM$/admin/health
                runtime_user:
                  override_target_runtime_user: false
                target_default: true
                target:
                  override_workflow_target: false
                  use_workflow_target: true
                object_type: definition_activity
targets:
definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2:
  unique_name: definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2
  name: Router Service
title: Router Service
type: web-service.endpoint
base_type: target
object_type: definition_target
properties:
  description: Router Service
disable_certificate_validation: true
display_name: Router Service
host: dev-plt-aio1.lab.ciscomsx.com
no_runtime_user: true
port: -1
protocol: https
schema:
  additionalProperties:
    type: object
    type: object
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: 01HTTXYUA72Ej3V0UjsjI3ik4QlyNTB2cvM
          tenantIds:
            - c1c7ae2f-9435-41b8-a76e-b23a14c761df
          uniqueName: definition_workflow_1flwhksayquzQyyfz6tdRoyK2
          createdBy: 46dce7f6-12f1-4c72-a44a-e7964dd8a43e
          createdOn: 2020-08-07 13:15:10+0000
          modifiedBy: 46dce7f6-12f1-4c72-a44a-e7964dd8a43e
          modifiedOn: 2020-08-07 13:15:10+0000
          schema:
            $ref: '#/components/schemas/WorkflowMapping'
description: Created
"400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
"401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Imports a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/list:
get:
  operationId: getWorkflowsList
parameters:
- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
    type: string
    style: form
- explode: true
  in: query
  name: atomic
  required: false
  schema:
    default: false
    type: boolean
    style: form
responses:
"200":
content:
  application/json:
    example:
    - id: 01HTTZQ6KG8BQ2tvgrxwB2O1NEQ5pTvXjDJ
      name: Health Check Atomic
      type: generic.workflow
      properties:
        atomic:
          is_atomic: false
delte_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTTZQI11KK03IHNhzTPwT6MuUfHywECEw
target_type: 01HQR507N90PR0y96F1u2if6rdLwOPvMc7Ub
valid: true
owner: aoadmin
categories:
- 01HQR5WWLT5ZZ6VMtGUNGjscsbZOE3psRVR
metadata:
git_info:
  target_id: ""
  commit_hash: ""
status:
  state: import_completed
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hiil559TOg
unique_name: definition_workflow_1flwzKmCj9692j0FZRigZxne0fF
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:17:28Z
created_by: aoadmin
updated_on: 2020-08-07T13:17:30Z
updated_by: system
- id: 01HTTZRH15EAQ5PJbiIXaIFmAUySyzw5hUR
  name: Health Check Atomic
type: generic.workflow
properties:
  atomic:
    is_atomic: false
    delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTTZRR8X3C35c2F9PUF1OBwSVcMDpT86x
target_type: 01HQR507N90PR0y96F1u2if6rdLwOPvMc7Ub
valid: true
owner: aoadmin
categories:
- 01HQR5WWLT5ZZ6VMtGUNGjscsbZOE3psRVR
metadata:
git_info:
  target_id: ""
  commit_hash: ""
status:
  state: import_completed
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hiil559TOg
unique_name: definition_workflow_1flwzgjQExHVTiT1n9p9to2LsEP
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:17:30Z
created_by: aoadmin
updated_on: 2020-08-07T13:17:32Z
updated_by: system

schema:
  items:
    $ref: '#/components/schemas/Workflow'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflows.
tags:
- Workflows
/workflow/api/v8/workflows/{id}:
delete:
  operationId: deleteWorkflow
  parameters:
  - explode: false
    in: path
    name: id
    required: true
  schema:
Delete a workflow.

### Responses

- **204**: No Content
- **400**: Bad Request
- **401**: Unauthenticated
- **403**: Unauthorized
- **404**: Not Found
- **500**: Internal Server Error

### Summary

Delete a workflow.

### Tags

- Workflows

### Get

**operationId**: getWorkflow

**parameters**:

- **explode**: false
  - **in**: path
  - **name**: id
  - **required**: true
  - **schema**:
    - **type**: string
    - **style**: simple
responses:
"200":
content:
application/json:
example:
id: 01HTU0GSER51k2zXv2yeLADwvAW8tUbTF6F
name: Health Check Atomic
title: Health Check Atomic
type: generic.workflow
properties:
  atomic:
    is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTU0H426Rsc17R6ryJsiaeukVTZOBgQPT
target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub
valid: true
owner: aoadmin
categories:
- 01HQR5WWLT5Z6VMtGUNGjscsbZOE3psRVR
metadata:
git_info:
  target_id: ""
  commit_hash: ""
status:
  state: import_completed
permissions:
- manage
- run
variables:
- id: 01HTU0GT1SE035ThRGKqPtnNX7hteloFasr
  properties:
    value: ""
    scope: input
    name: service_name
    type: datatype.string
    is_required: false
    unique_name: variable_workflow_1flx6VoqQUeE8TsCa8sPZpYiumZ
  created_by: aoadmin
  created_on: 2020-08-07T13:18:25Z
  updated_by: aoadmin
  updated_on: 2020-08-07T13:18:27Z
  schema_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhAW
  object_type: variable_workflow
actions:
id: 01HTU0HMMQ1LL1U6HB1qddmFrZFP2UEdHoC
name: HTTP Request
title: HTTP Request
type: web-service.http_request
status:
  state: created
base_type: activity
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii559TOg
unique_name: definition_workflow_1f1x6VX6P91ZUhHJmH2IDqAhr2m
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:18:26Z
created_by: aoadmin
updated_on: 2020-08-07T13:18:27Z
updated_by: system
schema:
  $ref: '#/components/schemas/Workflow'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow.

tag: Workflows

payload:

operationId: updateWorkflow

parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    items:
      format: uuid
      type: string
type: array
    style: form
- explode: true
  in: query
  name: global
  required: false
  schema:
    type: boolean
    style: form

requestBody:
content:
  application/json:
    schema:
      additionalProperties:
        type: object
        type: object
    required: true

responses:
"200":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/WorkflowMapping'
      description: OK
"400":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/export:
  get:
    operationId: exportWorkflow
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
    responses:
      "200":
        content:
          application/json:
            example:
              workflow:
                unique_name: definition_workflow_1flxysOQP8K57CCL1jR7JIBgdoi
                name: Health Check Atomic
                title: Health Check Atomic
                type: generic.workflow
                base_type: workflow
                variables:
                - schema_id: datatype.string
categories:
- category_1BMfMXSnJMyt5Ihqi7rWJr5N8cf
targets:
definition_target_1flxytXPvWWHm2IP8toycnGNFh:
  unique_name: definition_target_1flxytXPvWWHm2IP8toycnGNFh
  name: Router Service
title: Router Service
type: web-service.endpoint
base_type: target
object_type: definition_target
properties:
description: Router Service
disable_certificate_validation: true
display_name: Router Service
host: dev-plt-aio1.lab.ciscomsx.com
no_runtime_user: true
port: -1
protocol: https

schema:
type: string
description: OK
"400":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Exports a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/start:
  post:
    operationId: startWorkflow
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
    - explode: true
      in: query
      name: sync
      required: false
      schema:
        type: boolean
        style: form
    requestBody:
      content:
        application/json:
          example:
            input_variables:
            - id: 01HTU6QBKWSWC7cJcKEAKXek3cjLJoZGYLYK
              schema_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhAW
              properties:
                value: ""
              scope: input
              name: service_name
              type: datatype.string
              is_required: false
            created_on: 2020-08-07T13:26:36Z
            created_by: aoadmin
            updated_on: 2020-08-07T13:26:38Z
            updated_by: aoadmin
            unique_name: variable_workflow_1fly6IL9DWN9dCwPA6W713ef62M
      schema:
        $ref: '#/components/schemas/WorkflowStartConfig'
      required: true
    responses:
      "200":
        content:
application/json:
  example:
  - id: 01HTU6T8HR4BR2I7fjYz3ByMqmFGN4Hse9P
    type: generic.workflow
    status:
      state: created
      version: 1.0.0
    definition_id: 01HTU6QAYFTCA3epU8esiR4c2anJIZejaVu
    schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii559TOg
    base_type: workflow
    created_by: aoadmin
    created_on: 2020-08-07T13:26:43Z
  schema:
    items:
      $ref: '#/components/schemas/StartWorkflowResponse'
    type: array
    description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
  summary: Starts a workflow.
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns a workflow start config.
tags:
  - Workflows
/workflow/api/v8/workflows/{id}/validate:
  post:
    operationId: validateWorkflow
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
    responses:
      "200":
        content:
          application/json:
            example:
              total_actions: 2
              total_valid: 2
              workflow_valid: true
            schema:
              $ref: '#/components/schemas/ValidateWorkflowResponse'
              description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Validates a workflow.
tags:
- Workflows
/workflow/api/v8/categories:
post:
operationId: createWorkflowCategory
parameters:
- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
type: string
style: form
requestBody:
content:
application/json:
example:
  name: Category One
title: Category One
description: A description of category one.
schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
schema:
$ref: '#/components/schemas/WorkflowCategoryCreate'
required: true
responses:
"201":
content:
application/json:
example:
id: 01HTUHZLGD1G44uidVhVUuellFkdpoN2aP3
name: Category One
title: Category One
type: basic.category
description: A description of category one.
owner: aoadmin
schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
base_type: category
category_type: custom
created_on: 2020-08-07T13:41:19Z
created_by: aoadmin
updated_on: 2020-08-07T13:41:19Z
updated_by: aoadmin
unique_name: category_01HTUHZLWOMFM4mm9sgaP3yGST4UDPXWMat
schema:
$ref: '#/components/schemas/WorkflowCategory'
description: Created
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new workflow category.
tags:
- Workflow Categories
/workflow/api/v8/categories/list:
get:
operationId: getWorkflowCategoriesList
parameters:
- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
type: string
style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HTUOXAQLT3B4ddnGJ3JG1Yy3eGEu8kh99
            name: Category One
            title: Category One
            type: basic.category
description: A description of category one.
            owner: aoadmin
            schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
            base_type: category
category_type: custom
            created_on: 2020-08-07T13:50:22Z
            created_by: aoadmin
            updated_on: 2020-08-07T13:50:22Z
            updated_by: aoadmin
            unique_name: category_01HTUOXB3RHY61AvZ3WyHq2FJc6n64d3aR1
            schema:
              items:
                $ref: '#/components/schemas/WorkflowCategory'
description: OK
"400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
"401":
    content:
      application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns a list of workflow categories.
tags:
- Workflow Categories
/workflow/api/v8/categories/{id}:
delete:
  operationId: deleteWorkflowCategory
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
  responses:
    "204":
      description: No Content
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Unauthenticated
"403":
  content:
    application/json:
      schema:
summary: Deletes a workflow category.
tags:
- Workflow Categories
get:
  operationId: getWorkflowCategory
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: 01HTUQ4UK2ON01Pxm88QXs1Q65X3bb22I0A
            name: Category One
            title: Category One
            type: basic.category
            description: A description of category one.
            owner: aoadmin
            schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
            base_type: category
            category_type: custom
            created_on: 2020-08-07T13:51:57Z
            created_by: aoadmin
            updated_on: 2020-08-07T13:51:57Z
            updated_by: aoadmin
            unique_name: category_01HTUQ4UY5RQL38MHgO1rEb2nI57kYwMOio
            schema:
              $ref: '#/components/schemas/WorkflowCategory'
description: OK
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow category.
tags:
- Workflow Categories
put:
operationId: updateWorkflowCategory
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
name: New Category Name

title: New Category Title

description: A much better description than before.

schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6

schema:

$ref: '#/components/schemas/WorkflowCategoryUpdate'

required: true

responses:

"200":

content:

application/json:

example:

id: 01HTUQXABYWQ00Pe1CG88H4AU5vNgVWrOzz
name: New Category Name

title: New Category Title

description: A much better description than before.

owner: aoadmin

schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6

base_type: category

category_type: custom

created_on: 2020-08-07T13:52:59Z

created_by: aoadmin

updated_on: 2020-08-07T13:53:01Z

updated_by: aoadmin

unique_name: category_01HTUQXANSV4T7Dj4fqBqjAMsoMkYGVCLFY

schema:

$ref: '#/components/schemas/WorkflowCategory'

description: OK

"400":

content:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

created_on: 2020-08-07T13:56:55Z
created_by: aoadmin
updated_on: 2020-08-07T13:56:55Z
updated_by: aoadmin
unique_name: event_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKVq

schema:
$ref: '#/components/schemas/WorkflowEvent'
description: Created
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Creates a new workflow event.
tags:
- Workflow Events

/workflow/api/v8/events/list:
get:
operationId: getWorkflowEventsList
responses:
"200":
content:
application/json:
example:
- id: 01HTUTXM9WJYO68qlCTXsVTsMvzwBOU3NTm
  name: Event One
  title: Event One
  type: kafka.event

properties:
target_id: 01HTUSVW1CT4X66ht5sueGVRoatrKeh8wkK
title: Event One
topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T13:56:55Z
created_by: aoadmin
updated_on: 2020-08-07T13:56:55Z
updated_by: aoadmin
unique_name: event_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKVq
- id: 01HTV20GBCN0U42AUaJriRfiJzhpzVmtAsO
  name: Event Two
title: Event Two
type: kafka.event
properties:
  target_id: 01HTV201F5UPB7Zvq80qNEcvl1x0jYjR11
title: Event Two
topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T14:07:28Z
created_by: aoadmin
updated_on: 2020-08-07T14:07:28Z
updated_by: aoadmin
unique_name: event_01HTV20GWV12S2RMHdz8v0FQApd0RIsdHJ
- id: 01HTV20MCM3BS6ZkhyC6bdLEc5B8HWe1whS
  name: Event Three
title: Event Three
type: kafka.event
properties:
  target_id: 01HTV201F5UPB7Zvq80qNEcvl1x0jYjR11
title: Event Three
topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T14:07:28Z
created_by: aoadmin
updated_on: 2020-08-07T14:07:28Z
updated_by: aoadmin
unique_name: event_01HTV20MVVVRU29seKlnaJlQovPpaKFJLVm
schema:
  items:
    $ref: '#/components/schemas/WorkflowEvent'
type: array
description: OK
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow events.
tags:
- Workflow Events
/workflow/api/v8/events/{id}:
delete:
operationId: deleteWorkflowEvent
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"204":
  description: No Content
"400":
  content:
    application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Bad Request
"401":
  content:
    application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthenticated
summary: Deletes a workflow event.

tags:
- Workflow Events

get:
operationId: getWorkflowEvent

parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple

responses:
"200":
content:
  application/json:
  example:
    id: 01HTV4I8YRWDG35I3IL4q3ek3kGOLiVSHLL
    name: Event One
    title: Event One
    type: kafka.event
    properties:
      target_id: 01HTV4HQDNNXX37YDZ6g9p7n1T1aVHd3WgL5
      title: Event One
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```
topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T14:10:43Z
created_by: aoadmin
updated_on: 2020-08-07T14:10:43Z
updated_by: aoadmin
unique_name: event_01HTV4I9L6CBI5ujNxAybYv2G2nz8W1Au7c
schema:
  $ref: '#/components/schemas/WorkflowEvent'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow event.
tags:
- Workflow Events
put:
  operationId: updateWorkflowEvent
parameters:
```
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
  requestBody:
    content:
      application/json:
        example:
          title: New Title
          description: All singing, all dancing event description.
          target_id: 01HTV56f9BGYf7TPAc3p1WaP5ASSxPjvWkO
          schema_id: 01HQR51UJFSML2CKLOFmnYq7YgGQIgzmvHx
          properties:
            title: New Title
            target_id: 01HTV56f9BGYf7TPAc3p1WaP5ASSxPjvWkO
            topic_name: TEST_TOPIC
          schema:
            $ref: '#/components/schemas/WorkflowEventUpdate'
          required: true
          responses:
            "200":
              content:
                application/json:
                  example:
                    id: 01HTV56VQQZUC4mWipHYh796PL3wOrxtRaD
                    name: New Title
                    title: New Title
                    type: kafka.event
                    properties:
                      target_id: 01HTV56f9BGYf7TPAc3p1WaP5ASSxPjvWkO
                      title: New Title
                      topic_name: TEST_TOPIC
                    owner: aoadmin
                    base_type: event
                    schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
                    created_on: 2020-08-07T14:11:37Z
                    created_by: aoadmin
                    updated_on: 2020-08-07T14:11:38Z
                    updated_by: aoadmin
                    unique_name: event_01HTV56WB51FN58TvJUqNktaErVKaADwtN7
                    schema:
                      $ref: '#/components/schemas/WorkflowEvent'
                    description: OK
            "400":
              content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates a workflow event.
tags:
  - Workflow Events
/workflow/api/v8/workflows/{id}/instances/list:
  get:
    operationId: getWorkflowInstancesList
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  - explode: true
    in: query
    name: dateFrom
    required: false
    schema:
      format: date
type: string
style: form
- explode: true
in: query
name: dateTo
required: false
schema:
  format: date
type: string
style: form
- explode: true
in: query
name: page
required: true
schema:
  example: 0
  format: int32
  minimum: 0
type: integer
style: form
- explode: true
in: query
name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 100
  minimum: 1
type: integer
style: form
responses:
  "200":
  content:
    application/json:
      example:
        - id: 01HTVA5WUVLV30XX6289x6F5Uw6i6fHxQ9f
          name: Health Check Atomic
          version: 1.0.0
type: generic.workflow
properties:
  atomic:
    is_atomic: false
    delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTVA4PZGZ9P4Bt32dTETiTQJ7S2qj0LdYZ
target_type: 01HQR507N9OPR0y96Flu2i6rdLwOPvMc7Ub
status:
  state: failed
owner: aoadmin
definition_id: 01HTVA4EWNF712PFaDpffGaiWmjyC014C3b5
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii559TOg
base_type: workflow
started_on: 2020-08-07T14:18:07Z
ended_on: 2020-08-07T14:18:07Z
created_on: 2020-08-07T14:18:06Z
created_by: aoadmin
updated_on: 2020-08-07T14:18:07Z
updated_by: aoadmin

schema:
  items:
    $ref: '#/components/schemas/WorkflowInstance'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow instances.
tags:
- Workflow Instances
/workflow/api/v8/workflows/instances/{id}:
delete:
  operationId: deleteWorkflowInstance
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
  
"200":
  content:
    application/json:
    example: {}
    schema:
      $ref: '#/components/schemas/WorkflowInstanceDeleteResponse'
  description: OK

"400":
  content:
    application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Bad Request

"401":
  content:
    application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthorized

"403":
  content:
    application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthorized

"404":
  content:
    application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Not Found

"500":

content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a workflow instance.
tags: 
- Workflow Instances
get:
  operationId: getWorkflowInstance
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS
            name: Health Check Atomic
            version: 1.0.0
            type: generic.workflow
            properties:
              atomic:
                is_atomic: false
                delete_workflow_instance: false
              display_name: Health Check Atomic
              favorite: false
              target:
                execute_on_workflow_target: true
                target_id: 01HTVFPQO55C44B5cEs1Pm6RPSl0wfKqQ0w
                target_type: 01HQR507N9OPR0y96F1u2f6rdLwOPvMc7Ub
              actions:
                - id: 01HTVFR07JOP33cYL4zqZB8TiAlOebkBy
                  name: HTTP Request
                  title: HTTP Request
                  type: web-service.http_request
                  status:
                    state: failed
                    workflow_id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS
                    definition_id: 01HTVFQ8HCPZD7mxQWMo9aRK4SN8F2zaZ3j
                    base_type: activity
                    variables:
id: 01HTVFPGTKONV65tDGJ7ZFNthVlpPmbfD1b
properties:
  value: ""
scope: input
name: service_name
type: datatype.string
is_required: false
unique_name: variable_workflow_1fm5F8Z51f98fLESfVpRNN0BceN
created_by: aoadmin
created_on: 2020-08-07T14:25:21Z
updated_by: aoadmin
updated_on: 2020-08-07T14:25:22Z
schema_id: 01HQR50TZJK3M3d09kDOqL7nYSywRwovUhAW
object_type: ""
status:
  state: failed
owner: aoadmin
definition_id: 01HTVFPGZY5N7GeJgQODnmN1e4I2v5uk8
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii1559T0g
base_type: workflow
started_on: 2020-08-07T14:25:24Z
ended_on: 2020-08-07T14:25:25Z
created_on: 2020-08-07T14:25:24Z
updated_on: 2020-08-07T14:25:25Z
updated_by: aoadmin
schema:
  $ref: '#/components/schemas/WorkflowInstance'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":

content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns a workflow instance.
tag:
  - Workflow Instances
/workflow/api/v8/workflows/instances/{id}/cancel:
post:
  operationId: cancelWorkflowInstance
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
  "200":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/WorkflowInstance'
          description: OK
"400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Bad Request
"401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthenticated
"403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthenticated
$ref: '#/components/schemas/Error'

description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error

summary: Cancels a workflow instance.

tags:
  - Workflow Instances

/workflow/api/v8/workflows/instances/{id}/actions/{actionId}:
  get:
    operationId: getWorkflowInstanceAction
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
      - explode: false
        in: path
        name: actionId
        required: true
        schema:
          type: string
          style: simple
    responses:
      "200":
        content:
          application/json:
            example:
              id: 01HTVKBEMJ03T6AXY12enM1fHaqbc5CTXC
              name: HTTP Request
              title: HTTP Request
              type: web-service.http_request
              properties:
                accept: application/json
                action_timeout: 180
                allow_auto_redirect: true
content_type: application/json
continue_on_error_status_code: false
continue_on_failure: false
custom_headers:
  - name: Content-type
    value: application/vnd.spring-boot.actuator.v1+json
disable_certificate_validation: true
display_name: HTTP Request
host: dev-plt-aio1.lab.ciscomsx.com
method: GET
no_runtime_user: true
port: -1
protocol: https
relative_url: //admin/health
runtime_user:
  override_target_runtime_user: false
target_default: true
skip_execution: false
target:
  override_workflow_target: false
  use_workflow_target: true
status:
  state: failed
output:
  error:
    code: "404"
    message: "action execution errored for type web-service.http_request\n    \err:code:404 message::<html>
    <head><title>404 Not Found</title></head>
    <body><h1>404 Not Found</h1>
    <hr><center>nginx</center>
    </body>
    </html>"
response:
  elapsed_time: 0.235917361
  end_time: 2020-08-07T14:31:22.97397746Z
  start_time: 2020-08-07T14:31:22.738060099Z
  succeeded: false
workflow_id: 01HTVKBEKMJJF3YhZeIIt6O4GkrP9Fyo7gd
definition_id: 01HTVKAN0L9R23bhwyDxQHUEb4KAFAP4IKP
schema_id: 01HQR5TKRB3L0262ioJhatOKRw8sJnTMfY
adapter_id: 01HQR4XDDJP841AL5bYoKqfH9LDFRIV7ndt
base_type: activity
started_by: aoadmin
started_on: 2020-08-07T14:31:22Z
ended_on: 2020-08-07T14:31:22Z
schema:
  $ref: '#/components/schemas/WorkflowAction'
description: OK
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow instance action.
tags:
- Workflow Instances
/workflow/api/v8/schemas/list:
  get:
    operationId: getWorkflowSchemasList
parameters:
- explode: true
  in: query
  name: baseType
  required: true
  schema:
    default: category
type: string
style: form
- explode: true
  in: query
  name: schemaType
  required: false
  schema:
default: view
type: string
style: form
- explode: true
in: query
name: variableType
required: false
schema:
  default: false
type: boolean
style: form
responses:
"200":
  content:
    application/json:
      example:
        - id: 01HQR51GF9YPY4qc0yoinLF7qPwG5RRw5y4
          name: AMQP Event
title: AMQP Event
description: AMQP Event
type: amqp.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.server_event
base_type: event
created_on: 2020-08-03T22:25:21Z
created_by: system
updated_on: 2020-08-03T22:25:21Z
updated_by: system
access_meta:
  adapter:
    id: 01HQR4W50QF586jo6uMoPzD7jmoKZASTDHc
type: adapter.amqp
version: 1.0.0
targets:
  - id: 01HQR4XL0F2XR2a2gY4xVFGwyoVaX39eHm
type: amqp.endpoint
version: 1.0.0
- id: 01HQR51LCBPSZ2s8uQvretFwX9giX7kNPET
name: Approval Task Event
title: Approval Task Event
description: Approval Task Event
type: approval_task.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.event
type: adapter.kafka
version: 1.0.0
targets:
- id: 01HQR4YUO8XZF4QKY5qtM47OyHL0epbm43
type: kafka.endpoint
version: 1.0.0
- id: 01HQR520APZM96G6JkrnZctwy3tMtVfojPy
name: Webhook Event
title: Webhook Event
description: Webhook Event
type: webhook.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.event
base_type: event
created_on: 2020-08-03T22:25:22Z
created_by: system
updated_on: 2020-08-03T22:25:22Z
updated_by: system
access_meta: {}
schema:
  items:
    $ref: '#/components/schemas/WorkflowSchema'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow schemas.
tags:
- Workflow Schemas
/workflow/api/v8/schemas/{id}:
get:
operationId: getWorkflowSchema
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: true
  in: query
  name: schemaType
  required: false
  schema:
    default: view
    type: string
    style: form
responses:
  "200":
    content:
      application/json:
        example:
          view_schema:
            name: Generic Category
            title: Generic Category
            description: Generic Category
            type: basic.category
            version: 1.0.0
            invisible: false
            owner: system
            schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
            base_type: category
            created_on: 2020-08-03T22:25:02Z
            created_by: system
            updated_on: 2020-08-03T22:25:02Z
            updated_by: system
            property_schema:
              properties:
                description:
                  component: textarea
                  maxLength: 1024
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow schema.
tags:
  - Workflow Schemas
/workflow/api/v8/targets:
  post:
    operationId: createWorkflowTarget
    requestBody:
      content:
        application/json:
          example:
            name: MSX Kafka
            description: A most excellent description.
            title: Target One
            type: kafka.endpoint
            properties:
              disable_certificate_validation: false
display_name: MSX Kafka
host: kafka.vms.svc.cluster.local
no_runtime_user: true
port: 9092
ssl_enable: false
schema:
  $ref: '#/components/schemas/WorkflowTargetCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
type: kafka.endpoint
properties:
  disable_certificate_validation: false
display_name: MSX Kafka
host: kafka.vms.svc.cluster.local
no_runtime_user: true
port: 9092
ssl_enable: false
owner: aoadmin
valid: true
schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43
adapter_id: 01HQR4WT4TZ0X3NzZLl7wGkIR7wKsAZpBLq
base_type: target
created_on: 2020-08-03T22:29:57Z
created_by: aoadmin
updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
  is_internal: false
unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2IIO8gZXhN
schema:
  $ref: '#/components/schemas/WorkflowTarget'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new workflow target.
tags:
  - Workflow Targets
/workflow/api/v8/targets/list:
get:
  operationId: getWorkflowTargetsList
parameters:
  - explode: true
    in: query
name: internal
required: false
schema:
  type: boolean
  style: form
- explode: true
  in: query
  name: type
  required: false
  schema:
    type: string
    style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
            name: MSX Kafka
            type: kafka.endpoint
            properties:
              disable_certificate_validation: false
              display_name: MSX Kafka
              host: kafka.vms.svc.cluster.local
              no_runtime_user: true
              port: 9092
              ssl_enable: false
            owner: aoadmin
            valid: true
            schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbxm43
            adapter_id: 01HQR4WT4TZ0X3NzZL7wGkR7wKsAzPbLq
            base_type: target
            created_on: 2020-08-03T22:29:57Z
            created_by: aoadmin
            updated_on: 2020-08-03T22:29:57Z
            updated_by: aoadmin
            def_access_meta:
              is_internal: false
              unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2II08gZXbN
            schema:
              items:
                $ref: '#/components/schemas/WorkflowTarget'
              type: array
            description: OK
            "400":
              content:
                application/json:
                  schema:
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$.ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $.ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $.ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $.ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow targets.
tag:
  - Workflow Targets
/workflow/api/v8/targets/{id}:
delete:
  operationId: deleteWorkflowTarget
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $.ref: '#/components/schemas/Error'
description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $.ref: '#/components/schemas/Error'
description: Unauthorized
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a workflow target.
tags:
- Workflow Targets
get:
operationId: getWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
        name: MSX Kafka
        type: kafka.endpoint
        properties:
          disable_certificate_validation: false
          display_name: MSX Kafka
          host: kafka.vms.svc.cluster.local
          no_runtime_user: true
          port: 9092
          ssl_enable: false
          owner: aoadmin
valid: true
schema_id: 01HQR4YU08XZF4QKY5qtM47OyHL0pbm43
adapter_id: 01HQR4WT4TZ0X3NzZL7wGktR7wKsAzPbLq
base_type: target
created_on: 2020-08-03T22:29:57Z
created_by: aoadmin
updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
  is_internal: false
  unique_name: definition_target_01AN9H4AF7F5C2l6Fs7niv02II08gZXbN
schema:
  $ref: '#/components/schemas/WorkflowTarget'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow target.
tags:
- Workflow Targets
put:
operationId: updateWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        name: MSX Kafka
        description: A most excellent description.
        type: kafka.endpoint
        properties:
          disable_certificate_validation: false
          display_name: MSX Kafka
          host: kafka.vms.svc.cluster.local
          no_runtime_user: true
          port: 9092
          ssl_enable: false
      schema:
        $ref: '#/components/schemas/WorkflowTargetUpdate'
  required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
            port: 9092
            ssl_enable: false
          owner: aoadmin
          valid: true
          schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43
          adapter_id: 01HQR4WT4TZ0X3NzZL17wGkfR7wKsAztPbLq
          base_type: target
          created_on: 2020-08-03T22:29:57Z
          created_by: aoadmin
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updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
is_internal: false
unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2IIO8gZXbN

schema:
  $ref: '#/components/schemas/WorkflowTarget'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Updates a workflow target.
tags:
- Workflow Targets

/manageddevice/api/v1/templates:
get:
  operationId: getManagedDeviceTemplatesList
responses:
  "200":
    content:
      application/json:
schema:
  items:
    $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of managed device templates.
tags:
- Managed Device Templates
post:
  operationId: createManagedDeviceTemplate
requestBody:
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
        required: true
responses:
  "201":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
description: OK
  "400":
summary: Creates a managed device template.

tags:
- Managed Device Templates

/manageddevice/api/v3/sites:

get:

operationId: getManagedDeviceSites

parameters:
- explode: true
  in: query
  name: filters
  required: false

schema:
  items:
    type: string
    type: array
    style: form

responses:

"200":

content:
  application/json:
    schema:
      items:
        $ref: '#/components/schemas/ManagedDeviceSiteDTO'
        type: array
      description: OK
"400":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of managed device sites.
tags:
  - Managed Devices Sites
components:
parameters:
  workflowPage:
    explode: true
    in: query
    name: page
    required: true
    schema:
      example: 0
      format: int32
      minimum: 0
      type: integer
      style: form
  workflowPageSize:
    explode: true
    in: query
    name: pageSize
    required: true
    schema:
      example: 10
      format: int32
maximum: 100
minimum: 1
type: integer
style: form
page:
explode: true
in: query
name: page
required: true
schema:
example: 0
format: int32
minimum: 0
type: integer
style: form
pageSize:
explode: true
in: query
name: pageSize
required: true
schema:
example: 10
format: int32
maximum: 1000
minimum: 1
type: integer
style: form
sortBy:
explode: true
in: query
name: sortBy
required: false
schema:
example: name
type: string
style: form
sortOrder:
explode: true
in: query
name: sortOrder
required: false
schema:
enum:
- asc
- desc
type: string
style: form
responses:
"204":
  description: No Content
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Not Found
"409":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Conflict
"412":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Precondition Failed
"422":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unprocessable Entity
"500":
  content:
    application/json:
      schema:
$ref: ‘#/components/schemas/Error’
description: Internal Server Error

schemas:
Product:
  allOf:
  - $ref: ‘#/components/schemas/Product_allOf’
  - $ref: ‘#/components/schemas/ProductCreate’
ProductCreate:
  allOf:
  - $ref: ‘#/components/schemas/ProductUpdate’
ProductUpdate:
  example:
    image: image
    multipleInstanceAllowed: true
    configuration:
      key: configuration
      hasChildren: true
    serviceExtensions:
      - serviceType: serviceType
        serviceInstanceXPath: serviceInstanceXPath
        possibleXPathLocations:
          - possibleXPathLocations
          - possibleXPathLocations
        serviceType: serviceType
        serviceInstanceXPath: serviceInstanceXPath
        possibleXPathLocations:
          - possibleXPathLocations
          - possibleXPathLocations
    displayOrder: 6
    orderLimit: 1
    description: description
    active: true
    uiConfig:
      bannerImage: bannerImage
      links:
        - address: address
          label: label
          type: type
          target: target
        - address: address
          label: label
          type: type
          target: target
      label: label
      version: 0
      parentId: parentId
      price: price
      serviceConfigQueryRootXPaths:
- serviceConfigQueryRootXPaths
- serviceConfigQueryRootXPaths
name: name
options:
- hidden: true
dynamicData: true
childElements:
- null
- null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
periodicPrice: periodicPrice
includedQuantity: 7
oneTimePrice: oneTimePrice
unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
additionalQuantity: 9
additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{}'
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{}'
  - '{}'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
- hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{}'
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{}'
  - '{}'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
isResource: true
properties:
  - hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{}'
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{}'
  - '{}'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
additionalQuantity: 9
additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{ }'
  - key: '{ }'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{ }'
  - '{ }'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
properties:
  name:
    maxLength: 128
    minLength: 1
type: string
label:
  maxLength: 128
  minLength: 1
type: string
version:
  type: integer
description:
  maxLength: 512
  minLength: 1
type: string
image:
  type: string
multipleInstanceAllowed:
type: boolean
price:
  type: string
displayOrder:
  type: integer
active:
  type: boolean
orderLimit:
  type: integer
options:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
properties:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
configuration:
  additionalProperties:
    type: string
type: object
isResource:
  type: boolean
hasChildren:
  type: boolean
parentId:
  format: UUID
type: string
serviceExtensions:
  items:
    $ref: '#/components/schemas/NSOConfigDataXPath'
type: array
serviceConfigQueryRootXPaths:
  items:
    type: string
type: array
uiConfig:
  $ref: '#/components/schemas/ServiceUIConfig'
required:
- configuration
- description
- hasChildren
- image
- isResource
- label
- name
- options
- price
- properties
- serviceId
- version
type: object
ServiceElement:
example:
  hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '\{\}'
  - key: '\{\}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '\{\}'
  - '\{\}'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
type: boolean
dynamicData:
  type: boolean
minValue:
  type: integer
maxValue:
  type: integer
stepSize:
  type: integer
pricingAttributes:
  $ref: '#/components/schemas/ServiceElementPrice'
childElements:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
type: object
ServiceElementPrice:
example:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
properties:
  oneTimePrice:
    type: string
  periodicPrice:
    type: string
  timePeriod:
    type: string
  unitOfMeasure:
    type: string
  includedQuantity:
    type: integer
  additionalOneTimePrice:
    type: string
  additionalPeriodicPrice:
    type: string
  additionalQuantity:
    type: integer
type: object
NSOConfigDataXPath:
example:
  serviceType: serviceType
  serviceInstanceXPath: serviceInstanceXPath
possibleXPathLocations:
  - possibleXPathLocations
  - possibleXPathLocations
properties:
serviceInstanceXPath:
  minLength: 1
  type: string
serviceType:
  type: string
possibleXPathLocations:
  items:
    type: string
type: array
required:
  - serviceInstanceXPath
type: object
ServiceUIConfig:
  example:
    bannerImage: bannerImage
    links:
      - address: address
        label: label
        type: type
        target: target
      - address: address
        label: label
        type: type
        target: target
    properties:
      bannerImage:
        type: string
      links:
        items:
          $ref: '#/components/schemas/ServiceUILink'
        type: array
    type: object
ServiceUILink:
  example:
    address: address
    label: label
    type: type
    target: target
  properties:
    type:
      type: string
    label:
      type: string
    address:
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- $ref: '#/components/schemas/DeviceCreate'

DeviceCreate:
allOf:
- $ref: '#/components/schemas/DeviceCreate_allOf'
- $ref: '#/components/schemas/DeviceUpdate'

DeviceUpdate:
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
  model:
    maxLength: 128
    minLength: 1
    type: string
  type:
    maxLength: 128
    minLength: 1
    type: string
  subType:
    maxLength: 128
    type: string
  serviceType:
    maxLength: 128
    type: string
  tags:
    additionalProperties:
      type: string
  serialKey:
    maxLength: 128
    minLength: 11
    type: string
  version:
    maxLength: 128
    minLength: 1
    type: string
  managed:
    default: false
    type: boolean
  onboardType:
    maxLength: 128
    type: string
  onboardInformation:
    additionalProperties:
      type: string
  attributes:
additionalProperties:
  type: string
  type: object
billing:
  $ref: '#/components/schemas/DeviceBilling'
required:
- managed
- model
- name
- serialKey
- type
- version
  type: object
DeviceBilling:
properties:
  deviceSpeedGrade:
    minLength: 1
    type: string
deviceVnfSource:
  minLength: 1
  type: string
vnfFlavor:
  minLength: 1
  type: string
vnfImage:
  minLength: 1
  type: string
vnfName:
  minLength: 1
  type: string
vnfValue:
  minLength: 1
  type: string
required:
- deviceSpeedGrade
- deviceVnfSource
- vnfFlavor
- vnfImage
- vnfName
- vnfValue
  type: object
DevicesPage:
allOf:
- $ref: '#/components/schemas/PageHeader'
- $ref: '#/components/schemas/DevicesPage_allOf'
DeviceTemplateHistory:
example:
  modifiedOn: 2000-01-23T04:56:07.000+00:00
statusError: statusError

templateParams:
- name: name
  value: value
- name: name
  value: value

id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceId: deviceId
userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
status: Applied

properties:
  id:
    format: uuid
    type: string
deviceId:
  type: string
templateId:
  format: uuid
  type: string
userId:
  format: uuid
  type: string
status:
  enum:
  - Applied
  - Applying
  - Apply Failed
  - Detached
  - Detaching
  - Detach Failed
  type: string
statusError:
  type: string
templateParams:
  items:
    $ref: '#/components/schemas/NameValue'
type: array
modifiedOn:
  format: date-time
  type: string
type: object

DeviceTemplateAttachRequest:
example:
  templateDetails:
  - templateParams:
    - name: name
      value: value
- name: name
  value: value
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
- templateParams:
  - name: name
    value: value
  - name: name
    value: value
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
properties:
  templateDetails:
    items:
      $ref: '#/components/schemas/DeviceTemplateDetails'
    type: array
    type: object
DeviceTemplateDetails:
example:
  templateParams:
    - name: name
      value: value
    - name: name
      value: value
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
properties:
  templateId:
    format: uuid
    type: string
  templateParams:
    items:
      $ref: '#/components/schemas/NameValue'
    type: array
    type: object
DeviceTemplateUpdateDetails:
example:
  templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
  templateParams:
    - name: name
      value: value
    - name: name
      value: value
properties:
  templateHistoryId:
    format: uuid
    type: string
  templateParams:
    items:
      $ref: '#/components/schemas/NameValue'
    type: array
DeviceTemplateUpdateRequest:

element:

templateDetails:
  - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  templateParams:
    - name: name
      value: value
    - name: name
      value: value
  templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  templateParams:
    - name: name
      value: value
    - name: name
      value: value

properties:
  templateDetails:
    items:
      $ref: '#/components/schemas/DeviceTemplateUpdateDetails'
    type: array

DeviceTemplate:

allOf:
  - $ref: '#/components/schemas/DeviceTemplateCreate'
  - $ref: '#/components/schemas/DeviceTemplate_allOf'

DeviceTemplateCreate:

example:

  serviceType: serviceType
  configContent: configContent
  deviceModels:
    - deviceModels
    - deviceModels
  templateStandard: templateStandard
  name: name
  tenantAccess:
    global: true
    templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    tenantIds:
      - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
      - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  resourceProvider: resourceProvider
  version: version

properties:
  name:
    type: string
  version:
    type: string
serviceType:
  type: string
deviceModels:
  items:
    type: string
type: array
configContent:
  minLength: 1
type: string
resourceProvider:
  type: string
templateStandard:
  type: string
tenantAccess:
  $ref: '#/components/schemas/DeviceTemplateAccess'
required:
  - configContent
type: object
DeviceTemplateAccess:
example:
  global: true
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
tenantIds:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateId:
    format: uuid
    type: string
tenantIds:
    description: List of tenants to grant access. Mutually exclusive from global flag field.
    items:
      format: uuid
      type: string
type: array
  global:
    description: Determines if the template is globally accessible. Mutually exclusive from tenant list field.
type: boolean
type: object
DeviceTemplateAccessResponse:
example:
  successListOfTenants:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  global: true
  failureListOfTenants:
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91

properties:
  failureListOfTenants:
    items:
      format: uuid
      type: string
      type: array
  global:
    type: boolean
  successListOfTenants:
    items:
      format: uuid
      type: string
      type: array
  type: object

Service:
  example:
    modifiedOn: 2000-01-23T04:56:07.000+00:00
    provisionedOn: 2000-01-23T04:56:07.000+00:00
    tenantName: tenantName
    providerId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  definition:
    Attributes:
      key: '{ }'
      attributes:
        key: '{ }'
        id: id
      subscriptionId: subscriptionId
      userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    createdOn: 2000-01-23T04:56:07.000+00:00
    status:
      key: status
      properties:
        id:
          readOnly: true
          type: string
        providerId:
          format: uuid
          type: string
        tenantId:
          format: uuid
          type: string
        userId:
          format: uuid
          type: string
        subscriptionId:
          type: string
tenantName:
  type: string
createdOn:
  format: date-time
  readOnly: true
  type: string
modifiedOn:
  format: date-time
  readOnly: true
  type: string
provisionedOn:
  format: date-time
  readOnly: true
  type: string
status:
  additionalProperties:
    type: string
  type: object
definitionAttributes:
  additionalProperties:
    type: object
type: object
attributes:
  additionalProperties:
    type: object
type: object
type: object
ServicesPage:
  allOf:
    - $ref: '#/components/schemas/PageHeader'
    - $ref: '#/components/schemas/ServicesPage_allOf'
LegacyServiceOrder:
  example:
    serviceType: serviceType
    schedule:
      method: method
      absolute:
        dateTime: 2017-08-01 13:56:44 -0700
      relative:
        scheduleIn: 2h 10m 30s
    transactionUUID: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    payload:
      offer:
        key: offer
        cost:
          key: cost
        serviceDowngrade:
          key: '{}'
provider:
  key: provider
service:
  key: service
subscriptionName: subscriptionName
subscriptionId: subscriptionId
user:
  key: user
subscriptionDetail:
  offerSelection:
    key: '{}'
siteCount: '{}'
dealerCode: dealerCode
configuration:
  key: configuration
priceDetail:
  key: '{}'
termsAndConditionId: termsAndConditionId
sites:
- operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
    display_name: display_name
devices:
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
    managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
  - operationalStatus: operationalStatus
    address:
      country: country
      address2: address2
      city: city
      address1: address1
      name: name
      company: company
      postCode: postCode
      state: state
display_name: display_name
devices:
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
        key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
  key: '{}'
pricePlanId: pricePlanId
tenant:
  key: tenant
nsorResponseTypes:
deleteOperation: deleteOperation
updateOperation: updateOperation
createOperation: createOperation
messageId: messageId
action: action
type: type
properties:
  messageId:
    type: string
type:
    type: string
serviceType:
  type: string
action:
  type: string
schedule:
  $ref: '#/components/schemas/LegacyScheduleConfig'
payload:
  $ref: '#/components/schemas/LegacyServiceOrderDetail'
transactionUUID:
  format: uuid
  type: string
  type: object
LegacyScheduleConfig:
  example:
    method: method
    absolute:
      dateTime: 2017-08-01 13:56:44 -0700
    relative:
      scheduleIn: 2h 10m 30s
    properties:
      method:
        type: string
      relative:
        $ref: '#/components/schemas/LegacyRelativeConfig'
      absolute:
        $ref: '#/components/schemas/LegacyAbsoluteConfig'
    type: object
LegacyRelativeConfig:
  example:
    scheduleIn: 2h 10m 30s
  properties:
    scheduleIn:
      example: 2h 10m 30s
      type: string
  type: object
LegacyAbsoluteConfig:
  example:
    dateTime: 2017-08-01 13:56:44 -0700
  properties:
    dateTime:
      example: 2017-08-01 13:56:44 -0700
      type: string
  type: object
LegacyServiceOrderDetail:
  example:
    offer:
      key: offer
    cost:
      key: cost
    serviceDowngrade:
      key: '{}'
    provider:
      key: provider
    service:
      key: service
    subscriptionName: subscriptionName
subscriptionId: subscriptionId
user:
  key: user
subscriptionDetail:
  offerSelection:
    key: '{}'
siteCount: '{}'
dealerCode: dealerCode
configuration:
  key: configuration
priceDetail:
  key: '{}'
termsAndConditionId: termsAndConditionId
sites:
  - operationalStatus: operationalStatus
    address:
      country: country
      address2: address2
city: city
      address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
devices:
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
        key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
        key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
- operationalStatus: operationalStatus
address:
  country: country
  address2: address2
city: city
  address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
devices:
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
  key: '
pricePlanId: pricePlanId
tenant:
  key: tenant
nsoreponseTypes:
deleteOperation: deleteOperation
updateOperation: updateOperation
createOperation: createOperation
properties:
  service:
    additionalProperties:
      type: string
type: object
tenant:
    additionalProperties:
      type: string
type: object
user:
  additionalProperties:
    type: string
type: object
provider:
  additionalProperties:
    type: string
type: object
offer:
  additionalProperties:
    type: string
type: object
cost:
   additionalProperties:
      type: string
      type: object
subscriptionId:
   type: string
subscriptionName:
   type: string
subscriptionDetail:
   $ref: '#/components/schemas/LegacySubscriptionDetail'
serviceDowngrade:
   additionalProperties:
      type: object
      type: object
nsorResponseTypes:
   $ref: '#/components/schemas/LegacyNsoResponseTypes'
type: object
LegacySubscriptionDetail:
example:
   offerSelection:
      key: '{}'
siteCount: '[]'
dealerCode: dealerCode
configuration:
   key: configuration
priceDetail:
   key: '{}'
termsAndConditionId: termsAndConditionId
sites:
   - operationalStatus: operationalStatus
     address:
        country: country
        address2: address2
        city: city
        address1: address1
        name: name
        company: company
        postCode: postCode
        state: state
        display_name: display_name
     devices:
        - deviceOnboarding:
            deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
siteName: siteName
delete: true
- operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
display_name: display_name
devices:
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{}'
    managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
  key: '{}'
pricePlanId: pricePlanId
properties:
siteCount:
  type: object
sites:
  items:
    $ref: '#/components/schemas/LegacySite'
type: array
offerSelection:
  additionalProperties:
    type: object
type: object
serviceInstanceDetail:
additionalProperties:
  type: object
priceDetail:
  additionalProperties:
    type: object
dealerCode:
  type: string
pricePlanId:
  type: string
termsAndConditionId:
  type: string
configuration:
  additionalProperties:
    type: string
type: object
LegacyNsoResponseTypes:
example:
  deleteOperation: deleteOperation
  updateOperation: updateOperation
  createOperation: createOperation
properties:
  createOperation:
    type: string
  updateOperation:
    type: string
  deleteOperation:
    type: string
type: object
LegacySite:
example:
  operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
    display_name: display_name
devices:
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
siteName: siteName
delete: true
properties:
siteId:
  format: uuid
type: string
siteName:
  type: string
displayName:
  type: string
address:
  $ref: '#/components/schemas/LegacyAddress'
devices:
items:
  $ref: '#/components/schemas/LegacySiteDevice'
type: array
siteAttributes:
  additionalProperties:
    type: object
    type: object
delete:
  type: boolean
operationalStatus:
  type: string
required:
  - address
  - siteId
  - siteName
type: object
LegacyAddress:
example:
country: country
address2: address2
city: city
address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
properties:
  name:
    type: string
display_name:
    type: string
company:
  type: string
address1:
  type: string
address2:
  type: string
city:
  type: string
state:
  type: string
country:
  type: string
postCode:
  type: string
type: object
LegacySiteDevice:
example:
deviceOnboarding:
deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
properties:
deviceId:
  type: string
name:
  type: string
model:
  type: string
type:
  type: string
deviceAttributes:
  additionalProperties:
    type: object
    type: object
deviceOnboarding:
  $ref: '#/components/schemas/LegacySiteDeviceOnboard'
delete:
  type: boolean
required:
- name
type: object
LegacySiteDeviceOnboard:
example:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
properties:
  deviceId:
    type: string
tenantId:
  format: uuid
  type: string
deviceName:
  minLength: 1
  type: string
managed:
  default: true
  type: boolean
deviceModel:
  type: string
deviceOnboardingType:
  type: string
deviceOnboardInformation:
  type: object
  additionalProperties:
    type: object
    type: object
LegacyServiceOrderResponse:
  example:
    transactionUUID: transactionUUID
    serviceInstanceIds:
      - serviceInstanceIds
      - serviceInstanceIds
devices:
  - '{ }'
  - '{ }'
sites:
  - '{ }'
  - '{ }'
message: message
subscriptionId: subscriptionId
url: url
status: status
properties:
  message:
    type: string
  transactionUUID:
    format: uuid
    type: string
  subscriptionId:
    type: string
url:
  type: string
status:
  type: string
serviceInstanceIds:
  items:
type: string

sites:
  items:
    type: object

devices:
  items:
    type: object

type: object

Site:

eample:

image: image

address:
  country: country
  address2: address2
  city: city
  address1: address1
  name: name
  company: company
  postCode: postCode
  state: state

devices:
  - serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
  - serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
description: description
type: type
createdOn: 2000-01-23T04:56:07.000+00:00

parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
modifiedOn: 2000-01-23T04:56:07.000+00:00

createdBy: createdBy

contact:
  phone: phone
  name: name
  email: email

tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

name: name

attributes:
  key: attributes

location:
  latitude: -75.5850925717018
  longitude: 36.988422590534526

modifiedBy: modifiedBy
$ref: '#/components/schemas/SiteStatus'
createdOn:
  format: date-time
  readOnly: true
  type: string
createdBy:
  readOnly: true
  type: string
modifiedOn:
  format: date-time
  readOnly: true
  type: string
modifiedBy:
  readOnly: true
  type: string
type: object
DeviceSummary:
  example:
    serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
  properties:
    deviceId:
      type: string
    serviceId:
      type: string
    serviceType:
      type: string
  type: object
SiteStatus:
  example:
    severity: severity
    lastUpdated: 2000-01-23T04:56:07.000+00:00
    name: unknown
    lastUpdatedMessage: lastUpdatedMessage
    value: unknown
  properties:
    type:
      default: unknown
      maxLength: 128
      minLength: 1
      type: string
    name:
      default: unknown
      maxLength: 128
      minLength: 1
      type: string
value:
  default: unknown
  maxLength: 128
  minLength: 1
  type: string
severity:
  maxLength: 128
  minLength: 1
  type: string
lastUpdated:
  format: date-time
  type: string
lastUpdatedMessage:
  maxLength: 128
  minLength: 1
  type: string
required:
  - lastUpdatedMessage
  - name
  - severity
  - type
  - value
type: object
SiteCreate:
  allOf:
    - $ref: '#/components/schemas/SiteCreate_allOf'
    - $ref: '#/components/schemas/SiteUpdate'
SiteUpdate:
  example:
    image: image
    address:
      country: country
      address2: address2
      city: city
      address1: address1
      name: name
    company: company
    postCode: postCode
    state: state
    contact:
      phone: phone
      name: name
      email: email
    name: name
    description: description
    location:
      latitude: -75.5850925717018
      longitude: 36.988422590534526
attributes:
  key: attributes
type: type
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  parentId:
    format: uuid
type: string
name:
  maxLength: 128
  minLength: 1
type: string
description:
  maxLength: 256
type: string
type:
  maxLength: 128
  pattern: ^[-_a-zA-Z0-9]*$
type: string
address:
  $ref: '#/components/schemas/SiteAddress'
contact:
  $ref: '#/components/schemas/SiteContact'
location:
  $ref: '#/components/schemas/SiteLocation'
image:
  maxLength: 40000
type: string
attributes:
  additionalProperties:
    type: string
type: object
required:
- name
type: object
SiteAddress:
example:
country: country
address2: address2
city: city
address1: address1
name: name
company: company
postCode: postCode
state: state
properties:
  name:
    type: string
company:
  type: string
address1:
  minLength: 1
type: string
address2:
  type: string
city:
  minLength: 1
type: string
state:
  minLength: 1
type: string
country:
  minLength: 1
type: string
postCode:
  minLength: 1
type: string
required:
- address1
- city
- country
- postCode
- state
type: object
SiteContact:
example:
  phone: phone
  name: name
  email: email
properties:
  name:
    type: string
  phone:
    type: string
  email:
    format: email
type: string
required:
- name
- phone
type: object
SiteLocation:
example:
  latitude: -75.5850925717018
  longitude: 36.988422590534526
properties:
latitude:
  format: double
  maximum: 90
  minimum: -90
  type: number
longitude:
  format: double
  maximum: 180
  minimum: -180
  type: number
required:
  - latitude
  - longitude
  type: object
SitesPage:
  allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/SitesPage_allOf'
ResourceType:
  enum:
  - service
  - device
  type: string
ResourceStatus:
  enum:
  - up
  - down
  - unknown
  type: string
ResourceHealth:
  example:
    description: description
    id: id
properties:
  id:
    type: string
type:
  $ref: '#/components/schemas/ResourceType'
status:
  $ref: '#/components/schemas/ResourceStatus'
description:
  maxLength: 256
  type: string
required:
  - id
  - status
  - type
type: object
AccessToken:
example:
  access_token: access_token
firstName: firstName
lastName: lastName
scope: scope
roles:
  - roles
  - roles
id_token: id_token
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
token_type: token_type
expires_in: 0
email: email
username: username
properties:
  access_token:
    type: string
token_type:
    type: string
expires_in:
    type: integer
scope:
    type: string
firstName:
    type: string
lastName:
    type: string
roles:
  items:
    type: string
type: array
id_token:
  type: string
tenantId:
  format: uuid
type: string
email:
  format: email
type: string
username:
  type: string
type: object
body:
properties:
  grant_type:
    type: string
username:
type: string
password:
  format: password
type: string
access_token:
  type: string
switch_username:
  type: string
tenant_id:
  format: uuid
type: string
scope:
  type: string
nonce:
  type: string
tenant_name:
  type: string
required:
  - grant_type
type: object
Role:
  example:
    permissions:
    - permissions
    - permissions
    name: name
description: description
id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  id:
    format: uuid
type: string
name:
  type: string
description:
  type: string
permissions:
  items:
    type: string
type: array
type: object
Tenant:
  allOf:
    - $ref: '#/components/schemas/Tenant_allOf'
    - $ref: '#/components/schemas/TenantCreate'
TenantCreate:
  example:
    image: image
numberOfChildren: 0
name: name
description: description
url: url
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
description:
    maxLength: 512
    minLength: 1
    type: string
url:
  type: string
image:
  maxLength: 40000
  type: string
parentId:
  format: uuid
type: string
numberOfChildren:
  format: int64
  readOnly: true
  type: integer

required:
- name
type: object

TenantUpdate:
example:
  image: image
  numberOfChildren: 0
  name: name
description: description
url: url
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
description:
    maxLength: 512
    minLength: 1
    type: string
url:
  type: string
tenantIds:
  - type: string
  - format: uuid
  - type: array
passwordPolicyName:
  - type: string
required:
  - email
  - lastName
  - passwordPolicyName
type: object
UpdatePassword:
  example:
    oldPassword: oldPassword
    newPassword: newPassword
    username: username
properties:
  username:
    - type: string
  oldPassword:
    - format: password
    - type: string
  newPassword:
    - format: password
    - type: string
required:
  - newPassword
  - oldPassword
  - username
type: object
UsersPage:
allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/UsersPage_allOf'
WorkflowFooter:
properties:
  created_on:
    - type: string
  created_by:
    - type: string
  updated_on:
    - type: string
  updated_by:
    - type: string
owner:
type: string
unique_name:
type: string
type: object
StartWorkflowResponse:
example:
definition_id: definition_id
base_type: base_type
created_on: created_on
schema_id: schema_id
id: id
type: type
version: version
created_by: created_by
status:
  key: '{}'
properties:
id:
type: string
definition_id:
type: string
schema_id:
type: string
type:
type: string
base_type:
type: string
status:
  additionalProperties:
    type: object
type: object
version:
type: string
created_by:
type: string
created_on:
type: string
type: object
ValidateWorkflowResponse:
example:
  workflow_valid: true
  total_valid: 6
  total_actions: 0
  invalid_action_ids:
  - invalid_action_ids
  - invalid_action_ids
properties:
total_actions:
type: integer
total_valid:
type: integer
workflow_valid:
type: boolean
invalid_action_ids:
items:
type: string
type: array
type: object
Workflow:
allOf:
- $ref: '#/components/schemas/Workflow_allOf'
- $ref: '#/components/schemas/WorkflowFooter'
WorkflowMetadata:
properties:
git_info:
  $ref: '#/components/schemas/WorkflowMetadata_git_info'
type: object
WorkflowVariable:
allOf:
- $ref: '#/components/schemas/WorkflowVariable_allOf'
- $ref: '#/components/schemas/WorkflowFooter'
WorkflowAction:
example:
  workflow_id: workflow_id
  ended_on: ended_on
  object_type: object_type
blocks:
- unique_name: unique_name
  workflow_id: workflow_id
  base_type: base_type
  object_type: object_type
  subworkflow_id: subworkflow_id
  name: name
  schema_id: schema_id
  title: title
  type: type
  version: version
  actions:
    - null
    - null
  properties:
    key: '{}'
  - unique_name: unique_name
    workflow_id: workflow_id
    base_type: base_type
    object_type: object_type
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type: string
createdBy:
  type: string
createdOn:
  type: string
modifiedBy:
  type: string
modifiedOn:
  type: string
type: object
WorkflowStartConfig:
example:
  input_variables:
    - null
    - null
type_of_target_needed: type_of_target_needed
target_id: target_id
properties:
  input_variables:
    items:
      $ref: '#/components/schemas/WorkflowVariable'
type: array
type_of_target_needed:
  type: string
target_id:
  type: string
type: object
WorkflowCategory:
allOf:
  - $ref: '#/components/schemas/WorkflowCategory_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'
WorkflowCategoryCreate:
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
description: description
title: title
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
title:
    maxLength: 128
    minLength: 1
    type: string
description:
WorkflowCategoryUpdate:

```
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
  description: description
  title: title

properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
  title:
    maxLength: 128
    minLength: 1
    type: string
  description:
    maxLength: 256
    minLength: 1
    type: string
  schema_id:
    type: string
  unique_name:
    type: string
required:
  - description
  - name
  - schema_id
  - title

WorkflowEvent:
```

```
allOf:
  - $ref: '#/components/schemas/WorkflowEvent_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'

WorkflowEventCreate:
```
allOf:
  - $ref: '#/components/schemas/WorkflowEventUpdate'
WorkflowEventUpdate:
  example:
    schema_id: schema_id
    description: description
    target_id: target_id
    title: title
    properties:
      key: '{}'
      properties:
        title:
          type: string
        description:
          type: string
        target_id:
          type: string
        schema_id:
          type: string
    properties:
      additionalProperties:
        type: object
        type: object
  required:
  - properties
  - schema_id
  - target_id
  - title
  type: object
WorkflowInstance:
  allOf:
  - $ref: '#/components/schemas/WorkflowInstance_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'
WorkflowInstanceDeleteResponse:
  example:
    deleted_child_workflow_instance_ids:
    - deleted_child_workflow_instance_ids
    - deleted_child_workflow_instance_ids
  properties:
    deleted_child_workflow_instance_ids:
      items:
        type: string
        type: array
      type: object
WorkflowSchema:
  allOf:
  - $ref: '#/components/schemas/WorkflowSchema_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'
WorkflowAccessMeta:
properties:
adapters:
  $ref: '#/components/schemas/WorkflowAccessMetaType'
runtime_users:
  items:
    $ref: '#/components/schemas/WorkflowAccessMetaType'
type: array
targets:
  items:
    $ref: '#/components/schemas/WorkflowAccessMetaType'
type: array
is_integration:
type: boolean
is_internal:
type: boolean
type: object
WorkflowAccessMetaType:
properties:
id:
type: string
type:
type: string
version:
type: string
type: object
WorkflowSchemaByTypeResponse:
example: {}
properties:
  view_schema:
    $ref: '#/components/schemas/WorkflowSchema'
data_schema:
    $ref: '#/components/schemas/WorkflowSchema'
type: object
WorkflowTarget:
allOf:
  - $ref: '#/components/schemas/WorkflowTarget_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'
WorkflowDefAccessMeta:
properties:
is_integration:
type: boolean
is_internal:
type: boolean
type: object
WorkflowTargetCreate:
allOf:
  - $ref: '#/components/schemas/WorkflowTargetUpdate'
WorkflowTargetUpdate:
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
  description: description
  title: title
  type: type
  properties:
    key: '{ }'
    properties:
      name:
        type: string
      description:
        type: string
      title:
        type: string
      schema_id:
        type: string
      type:
        type: string
      properties:
        additionalProperties:
          type: object
      type: object
  unique_name:
    type: string
  required:
  - name
  - properties
  type: object
WorkflowMetadata_git_info:
properties:
  target_id:
    type: string
  commit_hash:
    type: string
  committed_by:
    type: string
  committed_on:
    type: string
  commit_message:
    type: string
  type: object
ErrorDTO:
properties:
code:
  readOnly: true
type: string
message:
  readOnly: true
type: string
type: object
ManagedDeviceSiteDTO:
  example:
    templateDetails:
      - templateName: templateName
deviceParams:
      - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
templateId: templateId
- templateName: templateName
deviceParams:
  - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
templateId: templateId
deviceNedId: deviceNedId
deviceType: deviceType
deviceInstanceId: deviceInstanceId
deviceUsername: deviceUsername
siteName: siteName
siteDescription: siteDescription
deviceInterfaces:
- nedId: nedId
  roles:
  - roles
  - roles
  name: name
  snmp: snmp
- nedId: nedId
  roles:
  - roles
  - roles
  name: name
  snmp: snmp
enableSecureTunnel: enableSecureTunnel
siteInfo:
  key: siteInfo
deviceIpAddress: deviceIpAddress
deviceSerial: deviceSerial
modifiedOn: modifiedOn
tenantName: tenantName
tenantDisplayName: tenantDisplayName
tenantId: tenantId
siteId: siteId
devicePort: devicePort
deviceModel: deviceModel
subscriptionId: subscriptionId
deviceOnboardingType: deviceOnboardingType
deviceSecondaryPassword: deviceSecondaryPassword
devicePassword: devicePassword
properties:
templateDetails:
  items:
    $ref: '#/components/schemas/ManagedDeviceTemplateDetailsDTO'
type: array
tenantId:
  type: string
siteId:
  type: string
siteName:
  type: string
tenantName:
  type: string
tenantDisplayName:
  type: string
siteDescription:
  type: string
subscriptionId:
  type: string
deviceInstanceId:
  type: string
deviceInterfaces:
  items:
    $ref: '#/components/schemas/ManagedDeviceDeviceInterfaceDTO'
type: array
siteInfo:
  additionalProperties:
    type: string
type: object
deviceSerial:
  type: string
deviceModel:
  type: string
deviceOnboardingType:
  type: string
deviceIpAddress:
  type: string
devicePort:
  type: string
deviceUsername:
  type: string
devicePassword:
  type: string
deviceSecondaryPassword:
  type: string
deviceNedId:
  type: string
deviceType:
  type: string
enableSecureTunnel:
  type: string
modifiedOn:
  type: string
type: object
ManagedDeviceTemplateDetailsDTO:
example:
  templateName: templateName
deviceParams:
  - allowedValues: allowedValues
displayType: displayType
  hintText: hintText
  name: name
  label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
templateId: templateId
properties:
templateId:
type: string
templateName:
type: string
deviceParams:
items:
  $ref: '#/components/schemas/ManagedDeviceParameter'
type: array
type: object
ManagedDeviceParameter:
example:
  allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
properties:
  name:
    type: string
  hintText:
    type: string
  label:
    type: string
type:
    type: string
displayType:
    type: string
  allowedValues:
  type: string
value:
  type: string
toolTipText:
ManagedDeviceDeviceInterfaceDTO:
example:
  nedId: nedId
  roles:
  - roles
  - roles
  name: name
  snmp: snmp
  properties:
    name:
      type: string
    roles:
      type: string
    items:
      type: string
    type: array
  snmp:
  type: string
  nedId:
  type: string
type: object

ManagedDeviceTemplateDTO:
example:
  sitesList:
  - sitesList
  - sitesList
  templateName: templateName
  payload: payload
  validators:
  - '{ }'
  - '{ }'
  tenantList:
  - tenantList
  - tenantList
  description: description
  templateId: templateId
  properties:
    templateId:
      type: string
    templateName:
      type: string
    payload:
      type: string
    description:
      type: string
  sitesList:
  items:
tenantList:
    items:
        type: string
        type: array
validators:
    items:
        type: object
        type: array
        type: object
Error:
    properties:
        code:
            readOnly: true
            type: string
        message:
            readOnly: true
            type: string
        type: object
NameValue:
    example:
        name: name
        value: value
    properties:
        name:
            type: string
        value:
            type: string
        type: object
StringArray:
    items:
        type: string
        type: array
UuidArray:
    items:
        format: uuid
        type: string
        type: array
PageHeader:
    properties:
        page:
            format: int32
            readOnly: true
            type: integer
        pageSize:
            format: int32
            readOnly: true
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- type: integer
totalItems:
  format: int64
  readOnly: true
type: integer
hasNext:
nullable: true
readOnly: true
type: boolean
hasPrevious:
nullable: true
readOnly: true
type: boolean
sortBy:
  readOnly: true
type: string
sortOrder:
  enum:
  - asc
  - desc
  readOnly: true
type: string
type: object
Name:
  maxLength: 128
  minLength: 1
type: string
Label:
  maxLength: 128
  minLength: 1
type: string
Description:
  maxLength: 512
  minLength: 1
type: string
Product_allOf:
  properties:
    id:
      format: uuid
      readOnly: true
type: string
ProductsPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Product'
type: array
Offer_allOf:
properties:
  id:
    format: uuid
    type: string
OffersPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Offer'
        type: array
Device_allOf:
  properties:
    id:
      type: string
    userId:
      format: uuid
      type: string
    providerId:
      format: uuid
      type: string
    createdOn:
      format: date-time
      type: string
    modifiedOn:
      format: date-time
      type: string
DeviceCreate_allOf:
  properties:
    serviceId:
      type: string
    subscriptionId:
      type: string
    tenantId:
      format: uuid
      type: string
    required:
      - tenantId
DevicesPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Device'
        type: array
DeviceTemplate_allOf:
  properties:
    id:
      format: uuid
      readOnly: true
type: string
userId:
  format: uuid
  readOnly: true
  type: string
createdOn:
  format: date-time
  readOnly: true
type: string

ServicesPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Service'
        type: array

SiteCreate_allOf:
  properties:
    tenantId:
      format: uuid
      type: string
deviceIds:
      items:
        type: string
type: array
required:
- deviceIds
- tenantId

SitesPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Site'
        type: array

Tenant_allOf:
  properties:
    id:
      format: uuid
      readOnly: true
      type: string
createdOn:
      format: date-time
      readOnly: true
type: string
modifiedOn:
  format: date-time
  readOnly: true
type: string
suspended:
readOnly: true

type: boolean

TenantsPage_allOf:
properties:
  contents:
    items:
      $ref: '#/components/schemas/Tenant'
    type: array

User_allOf:
properties:
  id:
    format: uuid
    readOnly: true
    type: string
  status:
    type: string
  deleted:
    type: string

UserCreate_allOf:
properties:
  username:
    type: string
  password:
    format: password
    type: string
  required:
    - password

UsersPage_allOf:
properties:
  contents:
    items:
      $ref: '#/components/schemas/User'
    type: array

Workflow_allOf:
properties:
  id:
    type: string
  schema_id:
    type: string
  name:
    type: string
  title:
    type: string
  type:
    type: string
  base_type:
    type: string
  object_type:
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type: string
properties:
  additionalProperties:
    type: object
    type: object
valid:
  type: boolean
workflow_valid:
  type: boolean
categories:
  items:
    type: string
type: array
metadata:
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status:
  additionalProperties:
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    type: object
permissions:
  items:
    type: string
type: array
variables:
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type: array
actions:
  items:
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type: array
WorkflowVariable_allOf:
  properties:
    id:
      type: string
type:
      type: string
base_type:
  type: string
schema_id:
  type: string
object_type:
  type: string
properties:
  additionalProperties:
    type: object
type: object
data_type:
type: string
scope:
  type: string
WorkflowCategory_allOf:
properties:
  id:
    type: string
  schema_id:
    type: string
  name:
    type: string
  title:
    type: string
  type:
    type: string
  base_type:
    type: string
  description:
    type: string
  category_type:
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  title:
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  type:
    type: string
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  schema_id:
    type: string
properties:
  additionalProperties:
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  type: object
WorkflowInstance_allOf:
properties:
  id:
    type: string
  definition_id:
    type: string
  name:
type: string
schema_id:
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version:
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type:
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base_type:
type: string
properties:
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type: object
actions:
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type: array
variables:
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type: array
status:
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WorkflowSchema_allOf:
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    schema_id:
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type: object
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view_config:
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    type: object
type: object
attributes:
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    type: object
type: object
WorkflowTarget_allOf:
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schema_id:
    type: string
adapter_id:
    type: string
name:
    type: string
title:
    type: string
type:
    type: string
base_type:
    type: string
properties:
  additionalProperties:
    type: object
type: object
valid:
  type: boolean
def_access_meta:
Open Source Used In MSX Enterprise Access Service Pack 4.0.0 4459

1.663 spring-cloud-loadbalancer
2.2.3.RELEASE
1.663.1 Available under license :
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Found in path(s):
* /opt/cola/permits/1138169228_1614268302.55/0/spring-cloud-loadbalancer-2-2-3-release-jar/META-INF/maven/org.springframework.cloud/spring-cloud-loadbalancer/pom.xml

1.664 jctools-core 3.0.0
1.664.1 Available under license :
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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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  <artifactId>jctools-core</artifactId>
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  <packaging>bundle</packaging>

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</plugin>

<plugin>
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<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
<executions>
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No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1578049665284
Build-Jdk: 1.8.0_232
Built-By: yak
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jctools.maps;version=3.0.0,org.jctools.util;version=3.0.0,org.jctools.queues;version=3.0.0,org.jctools.queues.spec;version=3.0.0,org.jctools.queues.atomic;version=3.0.0
Import-Package: sun.misc;resolution=optional
Require-Capability: osgi.ee;filter=(osgi.ee=JavaSE)(version=1.6))
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1150945500_1617726836.89/0/jctools-core-3.0.0-4.jar/META-INF/MANIFEST.MF

1.665 ucf 3.0038+nmu1
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Upstream-Name: ucf
Upstream-Contact: Manoj Srivastava <srivasta@debian.org>
Source: https://anonscm.debian.org/users/srivasta/debian/ucf.git
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Files: *
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1.666 prometheus-common v0.7.0

1.666.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/ReflectiveAsyncFeign.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/options/OptionalDecoder.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/AsyncInvocation.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign/stream/StreamDecoder.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/codec/ErrorDecoder.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/HeaderMap.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Util.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Types.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/template/UriUtils.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/feign/Feign.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/feign/Feign.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/feign/QueryMapEncoder.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/feign/QueryMapEncoder.java

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.688 security-web 3.2.9

1.689 java-common 0.71
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1.693 sysv-init 2.93 8

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1.jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1.jar/com/google/gson/stream/Scope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1.jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1.jar/com/google/gson/stream/JsonReader.java

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  jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java

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1.700 jwt-go 3.2.0+incompatible

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1.705 debian-archive-keyring 2019.1+deb10u1
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/remoting/jaxws/JaxWsPortProxyFactoryBean.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/support/LiveBeansViewServlet.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/util/pattern/SubSequence.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/RequestPath.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/jaxws/JaxWsPortClientInterceptor.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/ServletRequestUtils.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletResponse.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletResponse.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletResponse.java

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 */

/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
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Found in path(s):
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/adapter/DefaultServerWebExchange.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/client/RestOperationsExtensions.kt
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/client/HttpStatusCodeException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/CacheControl.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/CacheControl.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/CacheControl.java
jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java

* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/client/OkHttpClientHttpRequestFactory.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/util/HtmlUtils.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/server/adapter/ForwardedHeaderTransformer.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/client/HttpClientErrorException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/support/ServletContextScope.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/MediaTypeFactory.java

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jar/org/springframework/http/codec/HttpMessageWriter.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/InterceptingClientHttpRequest.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/filter/reactive/ServerWebExchangeContextFilter.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/ServerHttpResponse.java
*/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/HttpMediaTypeException.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
# ==================================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+xml
# application/batch-smtip
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/ccxml
# application/ccmp+xml
application/ccxml+xml
# application/cctx+xml
# application/cdmi-capability+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmiq
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrf+xml
# application/coap-group+xml
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/estadata+xml
# application/csvm+xml
application/cu-seeme cu
# application/cybercash
# application/cyberdelta
application/davmount+xml
davmount
# application/dca-rft
dc
dc
# application/dicom
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# application/dii
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# application/dit
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# application/dns
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application/dssc+xml
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# application/dvcs
dvcs
dvcs
application/ecmascript
ecmascript
ecmascript
ecmascript
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
efi
efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
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# application/emotionml+xml
# application/encaprtp
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# application/eshop
# application/example
example
application/exi
# application/fastinfoset
# application/fastsoap
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application/gpx+xml
gpx
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application/gxf
gxf
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# application/gzip
gzip
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# application/h224
# application/held+xml
# application/http
application/oda
# application/odx
application/oebps-package+xml
application/ogg
application/omdoc+xml
application/onenote onetoc onetoc2 onetocmp onetmp onetopkg
application/oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml
application/pdf
# application/pdx
application/pgp-encrypted
# application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10
# application/pkcs12
application/pkcs7-mime p7m
application/pkcs7-signature p7s
application/pkcs8
application/pkix-attr-certac
application/pkix-certcere
application/pkix-certcer
application/pkix-crl crl
application/pkix-pkipath pkipath
application/pkixcmpki
application/pls+xml
# application/poc-settings+xml
application/postscript eps ps
# application/pspp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww
# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml
# application/pssig
# application/raptorfec
# application/rdap+json
application/rdf+xml
application/registry+xml
application/relax-ng-compact-syntax
# application/remote-printing
# application/reputon+json
application/resource-lists+xmlrl
application/resource-lists-diff+xmlrld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xmlrls
application/rpki-ghostbusters+gbr
application/rpki-manifest+mft
application/rpki-roar+roa
# application/rpki-updown
application/rsd+xmlrlsd
application/rss+xmlxmlrss
application/rtf+rtf
# application/rtloopback
# application/rtx
# application/samllassertion+xml
# application/samlmetadata+xml
application/sbml+xmlsbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-request+scq
application/scvp-cv-response+scs
application/scvp-vp-request+spq
application/scvp-vp-response+spp
application/sdp+sdp
# application/se+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation+setpay
# application/set-registration
application/set-registration-initiation+setreg
# application/smg
# application/smg-open-catalog
application/shf+xmlxmlshf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smilo
application/smilo+xmlxmlsmilo
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
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1.733 spring-security-core 3.2.9

1.734 brave-instrumentation-http 5.12.3

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-impl
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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*/

Found in path(s):
/*
*/

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/*
*/

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/*
*/

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Open Source Used In MSX Enterprise Access Service Pack 4.0.0 4856
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/MediaTypes.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelRef.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterMerger.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ResponseMessageBuilder.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Example.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassPresentInClassPathCondition.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ListVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersionCapability.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassNotPresentInClassPathCondition.java

1.739 libxi 1.7.9-1

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1.740 zipkin 2.21.1
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2
Bnd-LastModified: 1586931162540
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin (Parent)
Bundle-DocURL: http://zipkin.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Core Library
Bundle-SymbolicName: io.zipkin.zipkin2.zipkin
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.21.1
Export-Package: zipkin2;version="2.21.1";uses:="zipkin2.codec,zipkin2.in ternal",zipkin2.codec;version="2.21.1";uses:="zipkin2.zipkin2.internal" ,zipkin2.storage;version="2.21.1";uses:="zipkin2.zipkin2.internal",zip k in2.v1;version="2.21.1";uses:="zipkin2.zipkin2.internal",zipkin2.intern al;zipkin2internal=true;mandatory:="zipkin2internal;version="2.21.1";use s:="zipkin2.zipkin2.storage.zipkin2.v1"
Import-Package: zipkin2;version="[2.21,3)",zipkin2.codec;version="[2.21, 3)",zipkin2.internal;version="[2.21,3)",zipkin2internal=true.zipkin2.st orage;version="[2.21,3)",zipkin2.v1;version="[2.21,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695204_1601878596.36/0/zipkin-2-21-1-jar/META-INF/MANIFEST.MF
1.741.1 groovy-json 2.5.7

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#
org.apache.groovy.json.DefaultFastStringServiceFactory

Found in path(s):
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/META-INF/services/org.apache.groovy.json.FastStringServiceFactory

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Found in path(s):
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Sys.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/DefaultFastStringService.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/FastStringUtils.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/ValueMapImpl.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/JsonFastParser.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/FastStringServiceFactory.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/JsonStringDecoder.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Type.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonToken.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/SimpleCache.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/NumberValue.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/DefaultJsonGenerator.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Value.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/JsonDelegate.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonBuilder.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/CharSequenceValue.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Dates.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/JsonParserLax.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/JsonSlurper.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/FastStringService.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/JsonOutput.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/BaseJsonParser.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/Cache.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/internal/CharBuf.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/JsonTokenType.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/JsonSlurperClassic.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/CharScanner.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/ValueContainer.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/CacheType.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/StringEscapeUtils.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/JsonParserCharArray.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/JsonLexer.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/MapItemValue.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/ByteScanner.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/ReaderCharacterSource.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/JsonException.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/LazyValueMap.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/JsonParserType.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/Exceptions.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/groovy/json/StreamingJsonBuilder.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1.jar/org/apache/groovy/json/internal/ArrayUtils.java
1.742 base64-js 1.5.1

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1.743 e2fsprogs 1.45.5-2~bpo10+1

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:	$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`echo $(my_dir) \| sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$((INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ @-$(LDCONFIG)

install-shlibs-strip:: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <ttyp@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

```plaintext
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
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 This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

 Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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1.747 jackson-jaxrs-json-provider 2.7.9

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### 1.748 spring-context 3.2.13.RELEASE

### 1.749 pipe 2.0.0-20140414041502-3c2ca4d52544

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 */
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/**
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 * not use this constructor</i>. Instead, they must use the {@link #SourceInterpreter(int)}
 * version.
 */

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1.753 aop-alliance 6.5.0

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1.755 shadow 4.5-1.1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |
The `'/sys/license` endpoint is used to view and update the license used in Vault.
---

# `/sys/license`
**Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

### Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

#### Sample Request

```
$ curl
   --header "X-Vault-Token: ...
   http://127.0.0.1:8200/v1/sys/license
```

#### Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

### Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>
### Parameters

- `text` *(string: <required>)*  - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)*  - DR operation token used to authorize this request.

### Sample Payload

```json

```json
{
  "text": "01ABCDEFG...
}
```json

### Sample Request

```bash

curl 
  --header "X-Vault-Token: ..." 
  --request PUT 
  --data @payload.json 
  http://127.0.0.1:8200/v1/sys/license
```

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mgo - MongoDB driver for Go

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BSON library for Go

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"
    SHA       *string  `json:"sha,omitempty"
    Size        *int     `json:"size,omitempty"
    URL         *string  `json:"url,omitempty"
    HTMLURL     *string  `json:"html_url,omitempty"
    GitURL      *string  `json:"git_url,omitempty"
    DownloadURL *string  `json:"download_url,omitempty"
    Type        *string  `json:"type,omitempy"
    Content     *string  `json:"content,omitempy"
    Encoding    *string  `json:"encoding,omitempy"
    License     *License `json:"license,omitempy"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempy"
    Name *string `json:"name,omitempy"
    URL  *string `json:"url,omitempy"
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    licenses := make([][]*License, 0)
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, nil
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package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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1.757 rcrowley-go-metrics v0.0.0-
20190826022208-cac0b30c2563

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1.758 netty-buffer 4.1.17.Final

1.759 hash.js 1.1.7

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# hash.js ![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)

Just a bike-shed.

```sh
```

### Install

```sh
npm install hash.js
```

### Usage

```js

var hash = require('hash.js')
```
hash.sha256().update('abc').digest('hex')
```

## Selective hash usage

```
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
```

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1.760 spring-web 4.3.19
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1.763 zstd 1.3.8+dfsg 3

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
---

**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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**Apache**

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

---

**MortBay**

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
- org.apache.tomcat:tomcat-jsp-api
- org.apache.tomcat:tomcat-el-api
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-api
- org.apache.tomcat:tomcat-util-scan
- org.apache.tomcat:tomcat-util
- org.mortbay.jasper:apache-el
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-el-api

---

**Mortbay**

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

- org.eclipse.jetty.toolchain:jetty-schemas
The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.783 xorg 7.7+19
1.783.1 Available under license:

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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.784 spring-aop 4.3.19

1.785 pcsc-lite 1.9.1-1~bpo10+1
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888       8   888   .d88'    Y888..8P
888       8   888ooo88P'      `8888'
888       8   888   .8PY888.
`88.    .8'   888           d8'  `888b
`YbodP'    o888o        o888o  o88888o

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 package build.tools.clrconverter;
 import java.util.Calendar;
 +import java.util.Date;
 import java.util.GregorianCalendar;
 import java.util.Locale;
 import java.util.TimeZone;
 @@ -150,8 +151,14 @@
 }
 private static int getYear() {
 -    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
 -        Locale.US).get(Calendar.YEAR);
 +    Date date = new Date();
 +    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
 +        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
 +    }
 +    
 +    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
 +    calendar.setTime(date);
```java
import java.util.Calendar;
import java.util.Date;
import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.TimeZone;
import java.util.TreeMap;

private static String getOpenJDKCopyright() {
    int year = ZonedDateTime.now(ZoneId.of("America/Los_Angeles")).getYear();
    Date date = new Date();
    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
    }
    Calendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
    calendar.setTime(date);
    int year = calendar.get(Calendar.YEAR);
    return String.format(Locale.US, COPYRIGHT, year);
}
```

1.795 pierrec-lz4 v2.4.1+incompatible

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 */
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 * Retrieves constraint related meta data for the parameters of the given executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6.1.5-final-sources-1-
  jar/org/hibernate/validator/internal/util/TypeHelper.java
No license file was found, but licenses were detected in source scan.

/*
 * Hibernate Validator, declare and validate application constraints
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6.1.5-final-sources-1-
  jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6.1.5-final-sources-1-
  jar/org/hibernate/validator/internal/metadata/aggregated/rule/ReturnValueMayOnlyBeMarkedOnceAsCascadedPerHierarchyLine.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6.1.5-final-sources-1-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForShort.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6.1.5-final-sources-1-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6.1.5-final-sources-1-
jar/org/hibernate/validator/internal/messageinterpolation/el/RootResolver.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/Incubating.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/util/privilegedactions/GetResources.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/engine/resolver/AbstractTraversableHolder.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/engine/ServiceLoaderBasedConstraintMappingContributor.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethodHandle.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/NIPValidator.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfFloat.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/engine/valueextraction/OptionalLongValueExtractor.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/cfg/context/ConstraintDefinitionContext.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/constraints/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/cfg/defs/DurationMinDef.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/PredefinedScopeHibernateValidator.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/engine/groups/Sequence.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertValidator.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/engine/valueextraction/ListValueExtractor.java
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jar/org/hibernate/validator/internal/constraintvalidators/hv/URLValidator.java
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jar/org/hibernate/validator/internal/cfg/context/ConstructorConstraintMappingContextImpl.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate.validator/internal/engine/messageinterpolation/parser/Signature.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate.validator/internal/util/logging/formatter/ObjectArrayFormatter.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate.validator/internal/context/GroupConversionTargetContextImpl.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate.validator/messageinterpolation/HibernateMessageInterpolatorContext.java
Hibernate Validator, declare and validate application constraints

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/*
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 */
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated

* executable.

* Script expressions can be written in any scripting or expression language, for which a `<a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>`

* "Scripting for the Java™ Platform") compatible engine can be found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active

* `{@link javax.validation.ParameterNameProvider}. The default provider will return the actual parameter names, if the -parameters compiler option has been enabled, and `{@code arg0}, `{@code arg1} etc. otherwise.

* The following listing shows an example using the JavaScript engine which comes with the JDK:

* Can be specified on any method or constructor.

* @author Gunnar Morling

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

1.801 netty-resolver 4.1.17.Final

1.802 threedotslabs-watermill-kafka v2.2.0

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1.803 ngclipboard 1.1.1

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1.811 jetty-annotations 9.4.29.v20200521

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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* /opt/cola/permits/1135880253_1613624225.6/0/spring-cloud-context-2-2-3-release-sources-1-
jar/org/springframework/cloud/util/random/CachedRandomPropertySource.java
* /opt/cola/permits/1135880253_1613624225.6/0/spring-cloud-context-2-2-3-release-sources-1-
jar/org/springframework/cloud/autoconfigure/ConfigurationPropertiesRebinderAutoConfiguration.java
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jar/org/springframework/cloud/context/properties/ConfigurationPropertiesRebinder.java
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1.824 spring-cloud-stream-binder-kafka

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  jar/com/jayway/awaitility/core/HamcrestExceptionIgnorer.java
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1.830 spring-web-mvc 3.2.13

1.831 d3 3.5.17

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<!-- start of server/head-include-1.html -->
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rel="made" href="mailto:webmasters@gnu.org" />
<link rel="icon" type="image/png" href="/graphics/gnu-head-mini.png" />
<meta name="ICBM" content="42.355469,-71.058627" />
<meta name="DC.title" content="gnu.org" />
<link rel="stylesheet" href="/combo.css" media="screen" />
<link rel="stylesheet" href="/mini.css" media="handheld" />
<link rel="stylesheet" href="/layout.min.css" media="screen" />
<link rel="stylesheet" href="/print.min.css" media="print" />
<!-- end of server/head-include-1.html -->

<!-- end of server/header.html -->
<div id="toplinks">
<a href="#content">Skip to main text</a>
</div>

<form method="get" action="/cgi-bin/estseek.cgi" class="header">
<div>
<input name="phrase" id="phrase" type="text" size="18" accesskey="s"
</div>
</form>
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Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rémi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich MÅ¼ller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

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2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.841 netty-codec-http 4.1.17.Final
1.842 spring-cloud-starter-vault-config

2.2.3.RELEASE

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.846 brorand 1.1.0

1.847 split-js 1.6.4
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1.849 pcsc-lite 1.8.26-3~bpo10+1
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jar/org/springframework/transaction/support/SmartTransactionObject.java

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jar/org/springframework/transaction/transaction/NonTransientDataAccessResourceException.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-
jar/org/springframework/transaction/transaction/transaction/transaction/Event/TransactionPhase.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-
jar/org/springframework/transaction/transaction/transaction/Support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-
1.860 springfox-spi 3.0.0
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  jar/springfox/documentation/spi/service-contexts/Orderings.java

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jar/springfox/documentation/spi/service/contexts/SecurityContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/OperationContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/ResponseContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/PathContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/schema/contexts/ModelContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/Defaults.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
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jar/springfox/documentation/spi/schema/UniqueTypeNameAdapter.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
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1.866 spring-boot 1.5.12

1.867 oklog-ulid v1.3.1

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1.868 atomic 1.6.0

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.890 grpc-netty 1.9.0

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1.896 watermill-sql 1.3.4
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1.897 spring-webmvc-portlet 4.3.19

1.898 jackson-databind 2.11.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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1.899 @babel/runtime 7.5.0

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1.900 byte-buddy 1.10.11

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1.901 spec 0.20.3
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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

---
var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
  "name": "the name",
  "url": "the url",
  "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import (  
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (*License) UnmarshalJSON(data []byte) (err error) {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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jar/io/opentracing/contrib/tracerresolver/PriorityComparator.java
* /opt/cola/permits/1112585941_1607115048.25/0/opentracing-tracerresolver-0-1-4-sources-1-
jar/io/opentracing/contrib/tracerresolver/TracerResolver.java
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1.904 spring-context-support
3.2.13.RELEASE

1.905 bn.js 5.2.0
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1.906 xorg-randr 1.20.8

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java

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jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/MimeMailMessage.java

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jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/JavaMailSender.java

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# Defaults for the Java Activation Framework (revised).
#
# Modified extensions registered in this file:
# text/plain java c c++ cpp pl cc h
# image/png png
# image/svg+xml svg
# text/html html HTML HTM
text/plain txt TEXT TXT java c c++ cpp pl cc h
image/gif GIF
image/iefief
image/jpeg jpeg jpg jpeg JPG
image/tiff tif
dimage/x-xwindowdump xwd
dapplication/postscriptai eps ps
dapplication/rtf rtf
dapplication/x-textx

Open Source Used In MSX Enterprise Access Service Pack 4.0.0 5771
# PGM (UNIX PPM package)
image/x-portable-graymap
# PBM (UNIX PPM package)
image/x-portable-bitmap
# PNM (UNIX PPM package)
image/x-portable-anymap
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-raster
# Kodak Photo-CD
image/x-photo-cd
# Computer Graphics Metafile
image/cgm
# CALS Type 1 or 2
image/x-cals
# Fractal Image Format (Iterated Systems)
image/fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsf
# CMX vector image (Corel)
image/x-cmx
# Wavelet-compressed (Summus)
image/wavelet
# AutoCad Drawing (SoftSource)
image/vnd.dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# "basic" audio - 8-bit u-law PCM
audio/basic
# Macintosh audio format (Apple)
audio/x-aiff
# Microsoft audio
audio/x-wav
# MPEG audio
audio/x-mpeg
# MPEG-2 audio
audio/x-mpeg-2
# compressed speech (Echo Speech Corp.)
audio/echo
# Toolvox speech audio (Voxware)
audio/voxware
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midimidi
# Koan music data (SSEyo)
application/vnd.koan skp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpeg mpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpeg mpg mpv2
# Macintosh Quicktime
video/quicktime mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movieovic
# VDOlive streaming video (VDOnet)
video/vdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscript ai eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF application/pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif
# Troff document
application/x-troff ft roff
# Troff document with MAN macros
application/x-troff-manman
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript ls mocha
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcltcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash
# mBED multimedia data (mBED)
application/mbedlet
# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint
# ASAP WordPower (Software Publishing Corp.)
application/x-asap
# Astound Web Player multimedia data (GoldDisk)
application/astound

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript
# OLE Object (Microsoft/NCompass)
application/x-oleobject
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape
# Visual Basic objects (Amara)
application/x-webbasic
# Specialized data entry forms (Alpha Software)
application/x-alpha-form
# client-server objects (Wayfarer Communications)
x-script/x-wfxclient
# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcnpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excel xlsx
# PowerPoint (Microsoft)
application/vnd.ms-powerpoint ppt
# Microsoft Project (Microsoft)
application/vnd.ms-project mpp
# SourceView document (Dataware Electronics)
application/vnd.svd svd
# Net Install - software install (20/20 Software)
application/x-net-install ins
# Carbon Copy - remote control/access (Microcom)
application/cc ccv
# Spreadsheets (Visual Components)
workbook/formulaone vts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrml wrl vrm
# WIRL - VRML data (VREAM)
x-world/x-vreamv rw
# Play3D 3d scene data (Play3D)
application/x-p3d p3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svsv svr
# WebActive 3d data (Plastic Thought)
x-world/x-wrvrv wvr
# QuickDraw3D scene data (Apple)
x-world/x-3d m f3d m

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica ma
# Computational meshes for numerical simulations
x-model/x-mesh msh
# Vis5D 5-dimensional data
application/vis5d v5d
# IGES models -- CAD/CAM (CGM) data
application/iges iges
# Autocad WHIP vector drawings
drawing/x-dwf dwf
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  jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
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  jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
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* /opt/cola/permissions/1135880196_1613624430.75.0/spring-context-support-5.2-7-release-sources-1.jar/org/springframework/mail/javamail/MimeMessagePreparator.java

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailAuthenticationException.java
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jar/org/springframework/scheduling/commonj/DelegatingWork.java
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jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
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1.918 diffie-hellman 5.0.3

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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1.924 spring-security-crypto 5.3.3.RELEASE

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* /opt/cola/permits/1135880092_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/DelegatingPasswordEncoder.java
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* @since 3.0
* @deprecated Use java.util.Base64
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jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/InternalLogger.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/JdkLogger.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsCommandListener.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Timer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/OnCompletionAsyncListener.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimeredRunnable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/TimeredCallable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmMemory.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaClientMetrics.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/util/JsonUtils.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/logging/LoggingMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaConsumerMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/HttpUrlConnectionSender.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/OkHttpSender.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/ReactorNettySender.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/HttpStatusClass.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/HttpSender.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/push/PushRegistryConfig.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Meter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepRegistryConfig.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeDistributionSummary.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/NoopGauge.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/Mergeable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Measurement.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/InternalLogLevel.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/AbstractInternalLogger.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLogger.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/JdkLoggerFactory.java

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jar/io/micrometer/core/instrument/Counter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/lang/NonNullApi.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/jvm/JvmThreadMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/util/MeterEquivalence.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/jvm/DiskSpaceMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/logging/LogbackMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/util/DoubleFormat.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/cache/HazelcastIMapAdapter.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/HttpRequestTags.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/HttpContextUtils.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/InvalidReason.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultUriMapper.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/db/JooqExecuteListener.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/DefaultHttpServletRequestTagsProvider.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpClientInterceptor.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmHeapPressureMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jpa/HibernateQueryMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettySslHandshakeMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/Outcome.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTags.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/OutOfOrder.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/db/MetricsDSLContext.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/ValidationException.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpInterceptor.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTagsProvider.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/distribution/TimeWindowSum.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmHeapPressureMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/distribution/FixedBoundaryVictoriaMetricsHistogram.java
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```typescript
/**
 * @description
 * Registers a function called when the control value changes.
 *
 * @param fn The callback function
 * @param value The value to write to the control
 */
CheckboxControlValueAccessor.prototype.writeValue = function (value) {
    this.writeValueFn = fn => this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
    fn.call(this);
}
```
CheckboxControlValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; }

/*
 * Sets the `disabled` property on the input element.
 */

/*
 * @param isDisabled The disabled value
 */

CheckboxControlValueAccessor.prototype.disabledState = function (isDisabled) { this._renderer.setProperty(this._elementRef.nativeElement, `disabled`, isDisabled); }

CheckboxControlValueAccessor = __decorate([
    core.Directive({
        selector: `input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]`,
        host: {
            `(change)`: `onChange($event.target.checked)'`, `(blur)`: `onTouched()'
        }
    }, [core.ɵɵProvidersForCore([{ CHECKBOX_VALUE_ACCESSOR }])]),
    __metadata("design:paramtypes", [core.ɵɵCoreTypes, core.ɵɵElementRef])
], CheckboxControlValueAccessor);

return CheckboxControlValueAccessor;

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DEFAULT_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.ɵɵforwardRef(function () { return DefaultValueAccessor; }),
    multi: true
};

/*
 * We must check whether the agent is Android because composition events * behave differently between iOS and Android.
 */

function _isAndroid() {
    var userAgent = window.navigator.userAgent;
    return /android (\d+)/.test(userAgent.toLowerCase());
}

COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');

DefaultValueAccessor = /** @class */ (function () {
    function DefaultValueAccessor(_renderer, _elementRef, _compositionMode) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._compositionMode = _compositionMode;
        /**
         * The registered callback function called when an input event occurs on the input element.
         */
        this.onChange = function (_) { };
        /**
         * The registered callback function called when a blur event occurs on the input element.
         */
        this.onTouched = function () { };
        /**
         * Whether the user is creating a composition string (IME events).
         */
        this._composing = false;
        if (this._compositionMode == null) {
            this._compositionMode = !_isAndroid();
        }
        /*
         * @param value The checked value
         */
        this.writeValue = function (value) {
            var normalizedValue = value == null ? '' : value;
            this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
        };
        /**
         * Registers a function called when the control value changes.
         */
        this.registerOnChange = function (fn) {
            this.onChange = fn;
        };
        /**
         * Registers a function called when the control is touched.
         */
        this.registerOnTouched = function (fn) {
            this.onTouched = fn;
        };
        /*
         * Sets the `disabled` property on the input element.
         */
        this.setDisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, `disabled`, isDisabled);
        };
        /** @internal */
        this._handleInput = function (value) {
            if (!this._compositionMode || (this._compositionMode && !this._composing)) {
                this.onChange(value);
            }
        };
        /** @internal */
        this._compositionStart = function () { this._composing = true; };
    }
    return DefaultValueAccessor;
})();

checkboxcontrolvalueaccessor.prototype.registeronTouched = function (fn) { this.onTouched = fn; }

/*
 * Sets the `disabled` property on the input element.
 */

/*
 * @param isDisabled The disabled value
 */

CheckboxControlValueAccessor.prototype.setDisabledState = function (isDisabled) { this._renderer.setProperty(this._elementRef.nativeElement, `disabled`, isDisabled); }

CheckboxControlValueAccessor = __decorate([
    core.Directive({
        selector: `input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]`,
        host: {
            `(change)`: `onChange($event.target.checked)'`, `(blur)`: `onTouched()'
        }
    }, [core.ɵɵProvidersForCore([{ CHECKBOX_VALUE_ACCESSOR }])]),
    __metadata("design:paramtypes", [core.ɵɵCoreTypes, core.ɵɵElementRef])
], CheckboxControlValueAccessor);

return CheckboxControlValueAccessor;

/**
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 */

DEFAULT_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.ɵɵforwardRef(function () { return DefaultValueAccessor; }),
    multi: true
};

/*
 * We must check whether the agent is Android because composition events * behave differently between iOS and Android.
 */

function _isAndroid() {
    var userAgent = window.navigator.userAgent;
    return /android (\d+)/.test(userAgent.toLowerCase());
}

COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');

DefaultValueAccessor = /** @class */ (function () {
    function DefaultValueAccessor(_renderer, _elementRef, _compositionMode) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._compositionMode = _compositionMode;
        /**
         * The registered callback function called when an input event occurs on the input element.
         */
        this.onChange = function (_) { };
        /**
         * The registered callback function called when a blur event occurs on the input element.
         */
        this.onTouched = function () { };
        /**
         * Whether the user is creating a composition string (IME events).
         */
        this._composing = false;
        if (this._compositionMode == null) {
            this._compositionMode = !_isAndroid();
        }
        /*
         * @param value The checked value
         */
        this.writeValue = function (value) {
            var normalizedValue = value == null ? '' : value;
            this._renderer.setProperty(this._elementRef.nativeElement, `value`, normalizedValue);
        };
        /**
         * Registers a function called when the control value changes.
         */
        this.registerOnChange = function (fn) {
            this.onChange = fn;
        };
        /**
         * Registers a function called when the control is touched.
         */
        this.registerOnTouched = function (fn) {
            this.onTouched = fn;
        };
        /*
         * Sets the `disabled` property on the input element.
         */
        this.setDisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, `disabled`, isDisabled);
        };
        /** @internal */
        this._handleInput = function (value) {
            if (!this._compositionMode || (this._compositionMode && !this._composing)) {
                this.onChange(value);
            }
        };
        /** @internal */
        this._compositionStart = function () { this._composing = true; };
    }
    return DefaultValueAccessor;
})();


/** @internal */
        DefaultValueAccessor.prototype._compositionEnd = function (value) {
            this._composing = false;
            this._compositionMode && this.onChange(value);
        };

        DefaultValueAccessor = __decorate([
            core.Directive({
                selector:
                    'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl]
            ,textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',

            // TODO: vsavkin replace the above selector with the one below it once
            // https://github.com/angular/angular/issues/3011 is implemented
            // selector:
                '[ngModel],[formControl],[formControlName],
            host: {
                '(input)':
                    'any(this)._handleInput($event.target.value)',
                '(blur)': 'onTouched()',
                '(compositionstart)': 'any(this)._compositionStart()',
                '(compositionend)':
                    'any(this)._compositionEnd($event.target.value)'
            },
            providers:
                [DEFAULT_VALUE_ACCESSOR]
        ], DefaultValueAccessor);
        return DefaultValueAccessor;
    }());

/**
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @description
 * Base class for control directives.
 *
 * This class is only used internally in the
 * `ReactiveFormsModule` and the `FormsModule`.
 *
 * @publicApi
 */
    var AbstractControlDirective
    = /** @class */ (function () {
        function AbstractControlDirective() {
        }

        Object.defineProperty(AbstractControlDirective.prototype, "value", {
            /**
             * @description
             * Reports the value of the control if it is present, otherwise null.
             */
            get: function () { return this.control ? this.control.value : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "valid", {
            /**
             * @description
             * Reports whether the control is valid. A control is considered valid if no
             * validation errors exist with the current value.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.valid : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * Reports whether the control is invalid, meaning that an error exists in the input value.
             * If the control
             * is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "pending", {
            /**
             * @description
             * Reports whether a control is pending, meaning that that async validation is occurring and
             * errors are
             * not yet available for the input value. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "disabled", {
            /**
             * @description
             * Reports whether the control is disabled, meaning that the control is disabled
             * in the UI and is exempt from validation checks and excluded from aggregate
             * values of ancestor controls.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.disabled : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "enabled", {
            /**
             * @description
             * Reports whether the control is enabled, meaning that the control is included in ancestor
             * calculations
             * of validity or value. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.enabled : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "errors", {
            /**
             * @description
             * Reports the control's validation errors. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.errors : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractControlDirective.prototype, "pristine", {
            /**
             * @description
             * Reports whether the control is pristine, meaning that the user has not yet changed
             */
            get: function () { return this.control ? this.control.pristine : null; },
            enumerable: true,
            configurable: true
        });

        return AbstractControlDirective;
    }());
* the value in the UI. If the control is not present, null is returned.
          * @usageNotes
          * For example, for the given error is present in the control at the given path.
          * If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Reports whether the control is untouched, meaning that the user has not yet triggered
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable that emits a validation status whenever it is
          * calculated for the control. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * time the
          * value of the control changes in the UI or programmatically.
          * If the control is not present, null is returned.
          * @description
          * Returns the validation status of the control. Possible values include:
          * 'VALID', 'INVALID',
          * 'DISABLED', and 'PENDING'.
          * If the control is not present, null is returned.
          * @description
          * Reports whether the control is dirty, meaning that the user has changed
          * the value in the UI. If the control is not present, null is returned.
          * @description
          * Returns whether the control is touched, meaning that the user has triggered
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Returns an array that represents the path from the top-level form to this control.
          * Each index is the string
          * name of the control on that level.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * time the
          * value of the control changes in the UI or programmatically.
          * If the control is not present, null is returned.
          * @description
          * Returns whether the control is untouchable, meaning
          * that the control has not triggered
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable that emits a validation status whenever it is
          * calculated for the control. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * time the
          * value of the control changes in the UI or programmatically.
          * If the control is not present, null is returned.
          * @description
          * Returns the validation status of the control. Possible values include:
          * 'VALID', 'INVALID',
          * 'DISABLED', and 'PENDING'.
          * If the control is not present, null is returned.
          * @description
          * Reports whether the control is dirty, meaning that the user has changed
          * the value in the UI. If the control is not present, null is returned.
          * @description
          * Returns whether the control is touched, meaning that the user has triggered
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable that emits a validation status whenever it is
          * calculated for the control. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * time the
          * value of the control changes in the UI or programmatically.
          * If the control is not present, null is returned.
          * @description
          * Returns whether the control is untouched, meaning that the user has not yet triggered
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable that emits a validation status whenever it is
          * calculated for the control. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * time the
          * value of the control changes in the UI or programmatically.
          * If the control is not present, null is returned.
          * @description
          * Returns the validation status of the control. Possible values include:
          * 'VALID', 'INVALID',
          * 'DISABLED', and 'PENDING'.
          * If the control is not present, null is returned.
          * @description
          * Reports whether the control is dirty, meaning that the user has changed
          * the value in the UI. If the control is not present, null is returned.
          * @description
          * Returns whether the control is touched, meaning that the user has triggered
          * a ‘blur’ event on it. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable that emits a validation status whenever it is
          * calculated for the control. If the control is not present, null is returned.
          * @description
          * Returns a multicasting observable of value changes for the control that emits every
          * time the
          * value of the control changes in the UI or programmatically.
### AbstractControlDirective

#### get: function () {
    return this._cd.control ? this._cd.control.touched : false;
},
#### enumerable: true,
#### configurable: true

Object.defineProperty(AbstractControlStatus.prototype, "ngClassTouched", {
    get: function () { return this._cd.control ? this._cd.control.untouched : false; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(AbstractControlStatus.prototype, "ngClassUntouched", {
    get: 
});

AbstractControlStatus = /** @class */ (function () {
    function AbstractControlStatus(cd) {
        this._cd = cd;
    }
    __extends(AbstractControlStatus, _super);
    return AbstractControlStatus;
});

### ControlContainer

#### get: function () {
    return this.control.getError(errorCode, path) : null;
},
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to this group.

#### formDirective: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to the 'street' control.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to this group.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to the 'street' control.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to this group.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to the 'street' control.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to this group.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to the 'street' control.

#### path: string = null;
#### enumerable: true,
#### configurable: true

Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(ControlContainer.prototype, "formDirective", {
    get: function () { return null; },
    enumerable: true,
    configurable: true
});

The path to this group.

#### path: string = null;
#### enumerable: true,
get: function () { return this._cd.control ? this._cd.control.pristine : false; },
        enumerable: true,
        configurable: true
    );
    Object.defineProperty(AbstractControlStatus.prototype, "ngClassDirty", {
        get: function () { return this._cd.control ? this._cd.control.dirty : false; },
        enumerable: true,
        configurable: true
    );
    Object.defineProperty(AbstractControlStatus.prototype, "ngClassValid", {
        get: function () { return this._cd.control ? this._cd.control.valid : false; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlStatus.prototype, "ngClassInvalid", {
        get: function () { return this._cd.control ? this._cd.control.invalid : false; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlStatus.prototype, "ngClassPending", {
        get: function () { return this._cd.control ? this._cd.control.pending : false; },
        enumerable: true,
        configurable: true
    });
    return AbstractControlStatus;
}();

var ngControlStatusHost = {
    '\[class.ng-untouched\]': 'ngClassUntouched',
    '\[class.ng-touched\]': 'ngClassTouched',
    '\[class.ng-pristine\]': 'ngClassPristine',
    '\[class.ng-dirty\]': 'ngClassDirty',
    '\[class.ng-valid\]': 'ngClassValid',
    '\[class.ng-invalid\]': 'ngClassInvalid',
    '\[class.ng-pending\]': 'ngClassPending',
} ;

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * * based on control status. * *
 * * ng-untouched
 * * ng-touched
 * * ng-pristine
 * * ng-dirty
 * * ng-valid
 * * ng-invalid
 * * ng-pending
 * *
 * @ngModule ReactiveFormsModule *
 * @ngModule FormsModule *
 * @publicApi *
 */
var NgControlStatus = /** @class */ (function (_super) {
    __extends(NgControlStatus, _super);
    function NgControlStatus(cd) {
        return _super.call(this, cd) || this;
    }
    NgControlStatus = __decorate([
        core.Directive({ selector: '[formControlName], [ngModel], [formControl]', host: ngControlStatusHost }),
        __param(0, core.Self()),
        __metadata("design:paramtypes", [NgControl])
    ], NgControlStatus);
    return NgControlStatus;
} (AbstractControlStatus));

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * * based on control status (valid/invalid/dirty/etc).
 * *
 * * ng-untouched
 * * ng-touched
 * * ng-pristine
 * * ng-dirty
 * * ng-valid
 * * ng-invalid
 * * ng-pending
 * *
 * @ngModule ReactiveFormsModule *
 * @ngModule FormsModule *
 * @publicApi *
 */
var NgControlStatusGroup = /** @class */ (function (_super) {
    __extends(NgControlStatusGroup, _super);
    function NgControlStatusGroup(cd) {
        return _super.call(this, cd) || this;
    }
    NgControlStatusGroup = __decorate([
        core.Directive({
            selector: '[formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm]',
            host: ngControlStatusHost
        }),
        __param(0, core.Self()),
        __metadata("design:paramtypes", [ControlContainer])
    ], NgControlStatusGroup);
    return NgControlStatusGroup;
} (AbstractControlStatus));

/**
 * A regular expression that matches valid e-mail addresses.
 * *
 * At a high level, this regexp matches e-mail addresses of the format 'local-part@tld', where:
 * * 'local-part' consists of one or more of the allowed

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characters (alphanumeric and some punctuation symbols). - `local-part` cannot begin or end with a period (`.`).

- `tld` consists of one or more `labels` separated by periods (`.`). For example, `localhost` or `foo.com`.

- A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).

- A `label` cannot begin or end with a dash (`-`) or a period (`.`).

- The whole address cannot be longer than 254 characters.

### Implementation background

This regexp was ported over from AngularJS (see there for git history):

https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27

It is based on the HTML5's [WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address). The main differences from the WHATWG version are:

- Disallow `local-part` to begin or end with a period (`.`).

- Disallow `local-part` length to exceed 64 characters.

- Disallow total address length to exceed 254 characters.

- See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.

```typescript
var EMAIL_REGEXP = /^\w*[\w\.-]+@\w+(?:\.[\w\.-]+)*$/;
```
Validators.compose = function (validators) {
    if (!validators)
        return null;
    var presentValidators = validators.filter(isPresent);
    if (presentValidators.length == 0)
        return null;
    return function (control) {
        var observables = _executeAsyncValidators(control, presentValidators);
        return
            observables.map(toObservable);
    };
}

Validators.composeAsync = function (validators) {
    if (!validators)
        return null;
    var presentValidators = validators.filter(isPresent);
    if (presentValidators.length == 0)
        return function (control) { return null; };
    return function (control) {
        return _mergeErrors(_executeValidators(control, presentValidators));
    };
}.

### Validate that the field only contains letters or spaces

```typescript
const control = new FormControl('1', Validators.pattern('[a-zA-Z ]*'));
```
```typescript
var NUMBER_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return NumberValueAccessor; }),
    multi: true
};

/**
 * The `ControlValueAccessor` for writing a number value and listening to number input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * Using a number input with a reactive form.
 * The following example shows how to use a number input with a reactive form.
 */

const totalCountControl = new FormControl();

var NumberValueAccessor = /** @class */ (function () {
    function NumberValueAccessor(_renderer, _elementRef) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;

        /**
         * The registered callback function called when a blur event occurs on the input element.
         */
        this.onTouched = function () { };

        /**
         * Sets the `value` property on the input element.
         */
        NumberValueAccessor.prototype.writeValue = function (value) {
            // The value needs to be normalized for IE9, otherwise it is set to 'null' when null
            var normalizedValue = value == null ? '' : value;
            this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
        };

        /**
         * Registers a function called when the control value changes.
         */
        NumberValueAccessor.prototype.registerOnChange = function (fn) {
            this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };
        };

        /**
         * Registers a function called when the control is touched.
         */
        NumberValueAccessor.prototype.registerOnTouched = function (fn) {
            this.onTouched = fn;
        };

        /**
         * Sets the `disabled` property on the input element.
         */
        NumberValueAccessor.prototype.setDisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

        NumberValueAccessor = __decorate([core.Directive({
            selector: '[type=number][formControl], [type=number][formControlName], [type=number][ngModel]',
            host: {
                '(change)': 'onChange($event.target.value)',
                '(blur)': 'onTouched($event.target.value)',
                '(input)': 'onChange($event.target.value)',
                '(blur)': 'onTouched($event.target.value)'
            },
            providers: [NUMBER_VALUE_ACCESSOR]
        })), NumberValueAccessor;

        return NumberValueAccessor;
    }();

```
this._accessors.forEach(function (c) {
    if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
    }
});

RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control) return false;
    return controlPair[0].name === accessor.name;
};

RadioControlRegistry = __decorate([core.Injectable()], RadioControlRegistry);

/**
 * @description
 * The `ControlValueAccessor` for writing radio control values and listening to radio control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @usageNotes
 * ### Using radio buttons with reactive form directives
 * When using radio buttons in a reactive form, radio buttons in the same group should have the same `formControlName`.
 * Providing a `name` attribute is optional.
 * @example
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 * */

var RadioControlValueAccessor = /** @class */ (function () {
    function RadioControlValueAccessor(_renderer, _elementRef, _registry, _injector) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._registry = _registry;
        this._injector = _injector;
        this.onChange = function () { };
        this.onTouched = function () { };
    }

    RadioControlValueAccessor.prototype.ngOnInit = function () {
        this._control = this._injector.get(NgControl);
        this._checkName();
        this._registry.add(this._control, this);
    };

    RadioControlValueAccessor.prototype.ngOnDestroy = function () {
        this._registry.remove(this);
    };

    RadioControlValueAccessor.prototype.writeValue = function (value) {
        this._state = value === this.value;
        this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
    };

    RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
        this._fn = fn;
        this.onChange = function () {
            fn(this.value);
            this._registry.select(this);
        };
    };

    RadioControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };

    RadioControlValueAccessor.prototype._checkName = function () {
        if (this.name && this.formControlName && this.name !== this.formControlName) {
            this._throwNameError();
        }
        if (!this.name && this.formControlName)
            this.name = this.formControlName;
    };

    RadioControlValueAccessor.prototype._throwNameError = function () {
        throw new Error("If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type="radio" formControlName="\"food\"" name="\"food\"">\n    ");
    };

    RadioControlValueAccessor.prototype._decorator = (fn) => fn;

    RadioControlValueAccessor.prototype._getFormControl = (control) => control;

    RadioControlValueAccessor.prototype._getFormControlName = (control) => control.name;

    RadioControlValueAccessor.prototype._getInstanceOf = (control) => control;

    return RadioControlValueAccessor;
}());
RadioControlValueAccessor.prototype, \"formControlName\", void 0);\n
__decorate([\n
core.Input(),\n
__metadata(\"design:type\", Object)\n
], RadioControlValueAccessor.prototype, \"value\", void 0);\n
RadioControlValueAccessor = __decorate([\n
core.Directive({\n
selector:
'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',\n
host: { '(change)': 'onChange()', '(blur)': 'onTouched()' },\n
providers: [RADIO_VALUE_ACCESSOR]\n
}),\n
__metadata(\"design:paramtypes\", [core.Renderer2, core.ElementRef,\n
RadioControlRegistry, core.Injector])\n
], RadioControlValueAccessor);\n
return
RadioControlValueAccessor;\n }());\n\n /**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n var RANGE_VALUE_ACCESSOR = {\n
provide:
NG_VALUE_ACCESSOR,\n
useExisting: core.forwardRef(function () { return RangeValueAccessor; }),\n
multi: true\n };\n /**\n * @description\n * The `ControlValueAccessor` for writing a range value and
listening to range input changes.\n * The value accessor is used by the `FormControlDirective`,
`FormControlName`, and `NgModel`\n * directives.\n *\n * @usageNotes\n *\n * ### Using a range
input with a reactive form\n *\n * The following example shows how to use a range input with a reactive
form.\n *\n * ```ts\n * const ageControl = new FormControl();\n * ```\n *\n * ```\n * <input
type=\"range\" [formControl]=\"ageControl\">\n * ```\n *\n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n * @publicApi\n */\n var RangeValueAccessor = /** @class */ (function () {\n
function RangeValueAccessor(_renderer, _elementRef) {\n
this._renderer = _renderer;\n
this._elementRef = _elementRef;\n
/**\n
* @description\n
* The registered callback function
called when a change or input event occurs on the input\n
* element.\n
*/\n
this.onChange =
function (_) { };\n
/**\n
* @description\n
* The registered callback function called when a
blur event occurs on the input element.\n
*/\n
this.onTouched = function () { };\n
}\n
/**\n
* Sets the \"value\" property on the input element.\n
*\n
* @param value The checked value\n
*/\n
RangeValueAccessor.prototype.writeValue = function (value) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));\n
};\n
/**\n
*
@description\n
* Registers a function called when the control value changes.\n
*\n
* @param fn The
callback function\n
*/\n
RangeValueAccessor.prototype.registerOnChange = function (fn) {\n
this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };\n
};\n
/**\n
*
@description\n
* Registers a function called when the control is touched.\n
*\n
* @param fn The
callback function\n
*/\n
RangeValueAccessor.prototype.registerOnTouched = function (fn) {
this.onTouched = fn; };\n
/**\n
* Sets the \"disabled\" property on the range input element.\n
*\n
* @param isDisabled The disabled value\n
*/\n
RangeValueAccessor.prototype.setDisabledState =
function (isDisabled) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n
};\n
RangeValueAccessor = __decorate([\n
core.Directive({\n
selector:
'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',\n
host: {\n
'(change)': 'onChange($event.target.value)',\n
'(input)':
'onChange($event.target.value)',\n
'(blur)': 'onTouched()'\n
},\n
providers:
[RANGE_VALUE_ACCESSOR]\n
}),\n
__metadata(\"design:paramtypes\", [core.Renderer2,
core.ElementRef])\n
], RangeValueAccessor);\n
return RangeValueAccessor;\n }());\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
FormErrorExamples = {\n
formControlName: \"\\n <div [formGroup]=\\\"myGroup\\\">\\n
<input
formControlName=\\\"firstName\\\">\\n </div>\\n\\n In your class:\\n\\n this.myGroup = new FormGroup({\\n
firstName: new FormControl()\\n });\",\n
formGroupName: \"\\n <div [formGroup]=\\\"myGroup\\\">\\n
<div formGroupName=\\\"person\\\">\\n
<input formControlName=\\\"firstName\\\">\\n
</div>\\n
</div>\\n\\n In your class:\\n\\n this.myGroup = new FormGroup({\\n
person: new FormGroup({ firstName:
new FormControl() })\\n });\",\n
formArrayName: \"\\n <div [formGroup]=\\\"myGroup\\\">\\n
<div

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In your class:

```typescript
this.cityArray = new FormArray([new FormControl('SF')]);
```

In your template:

```html
<form>
  <div ngModelGroup="person">
    <input [(ngModel)]="person.name" name="firstName">
  </div>
</form>
```

In your class:

```typescript
this.myGroup = new FormGroup({
  cities: this.cityArray
});
```

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---

**ReactiveErrors**

```typescript
function ReactiveErrors() {
  this.controlParentException = function () {
    throw new Error('formControlName must be used with a parent formGroup directive. You’ll want to add a formGroup
    directive and pass it an existing FormGroup instance (you can create one in your class).
  }
  this.ngModelGroupException = function () {
    throw new Error('formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents
    that also have a `form` prefix: formGroupName, formArrayName, or formGroup.
  }
  this.missingFormException = function () {
    throw new Error('formGroupName must be used with a parent formGroup directive. You’ll want to add a formGroup
    directive and pass it an existing FormGroup instance (you can create one in your class).
  }
  this.arrayParentException = function () {
    throw new Error('formArrayName must be used with a parent formGroup directive. You’ll want to add a formGroup
    directive and pass it an existing FormGroup instance (you can create one in your class).
  }
  this.disabledAttrWarning = function () {
    console.warn('It looks like you’re using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid “changed after checked” errors.
  }
  this.ngModelWarning = function (directiveName) {
    console.warn('It looks like you’re using ngModel on the same form field as ' + directiveName + '. Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.
  }
}
```
Using select controls in a reactive form.

- Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

- To customize the default option comparison algorithm, `<select>` supports `compareWith` input. `'compareWith` takes a **function** which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects option by the return value of the function.

### Using select controls in a reactive form

```ts
const selectedCountriesControl = new FormControl();
```

```ts
*\[\text{compareFn}(c1: \text{Country}, c2: \text{Country}): boolean \{ return c1 !== c2 \}]*
```

**Note:** We listen to the `change` event because 'input' events aren't fired for selects in Firefox and IE:

https://bugzilla.mozilla.org/show_bug.cgi?id=1024350


@ngModule
ReactiveFormsModule
@ngModule
FormsModule
@publicApi
*/

```
```
SelectControlValueAccessor.prototype._registerOption = function() { return (this._idCounter++).toString(); };
/** @internal */
SelectControlValueAccessor.prototype._getOptionId = function(value) {
    var id = (this._idCounter++).toString();
    var id = this._extractId(value); /* var id = _extractId(value); */
    return id;
}
/** @internal */
SelectControlValueAccessor.prototype._getOptionValue = function(valueString) {
    var id = this._extractId(valueString);
    if (this._optionMap.has(id)) return this._optionMap.get(id);
    return valueString;
}]

__decorate([
    core.Input(),
    __metadata("design:type", Function),
    __metadata("design:paramtypes", [Function])
], SelectControlValueAccessor.prototype, "compareWith", null);
SelectControlValueAccessor = __decorate([
    core.Directive({ selector: 'select:not([multiple])[formControlName], select:not([multiple])[formControl], select:not([multiple])[ngModel]' },
    host: { '(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()' },
    providers: [SELECT_VALUE_ACCESSOR]
], SelectControlValueAccessor);

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
var NgSelectOption = /** @class */ (function() {
    function NgSelectOption(_element, _renderer, _select) {
        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;
        if (this._select)
            this.id = this._select._registerOption();
    }
    Object.defineProperty(NgSelectOption.prototype, "ngValue", {
        /**
         * @description
         * Tracks the value bound to the option element. Unlike the value binding, ngValue supports binding to objects.
         */
        set: function(value) {
            if (this._select
                return this._select.writeValue(this._select.value);
                this._optionMap.delete(this.id);
                this._select.writeValue(this._select.value);
            }
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(NgSelectOption.prototype, "value", {
        /**
         * @description
         * Tracks simple string values bound to the option element.
         */
        set: function(value) {
            this._setElementValue(value);
            if (this._select)
                this._select.writeValue(this._select.value);
            }
        },
        enumerable: true,
        configurable: true
    });

    __decorate([
        core.Input('ngValue'),
        __metadata("design:type", Object),
        __metadata("design:paramtypes", [Object])
    ], NgSelectOption.prototype, "ngValue", null);

    __decorate([
        core.Input('value'),
        __metadata("design:type", Object),
        __metadata("design:paramtypes", [Object])
    ], NgSelectOption.prototype, "value", null);

    NgSelectOption = __decorate([
        core.Directive({ selector: 'option' }),
        __param(2, core.Optional()),
        __param(2, core.Host()),
        __metadata("design:paramtypes", [core.ElementRef, core.Renderer2,
            SelectControlValueAccessor])
    ], NgSelectOption);

    /**
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     *
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     * found in the LICENSE file at https://angular.io/license
     */
    var SELECT_MULTIPLE_VALUE_ACCESSOR = {
        provide: NG_VALUE_ACCESSOR,
        useExisting: core.forwardRef(function() { return SelectMultipleControlValueAccessor; }),
        multi: true
    };

    function
* @param isDisabled The disabled value

SelectMultipleControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
/** @internal */
SelectMultipleControlValueAccessor.prototype._registerOption = function (value) {
    var id = (this._idCounter++).toString();
    this._optionMap.set(id, value);
    return id;
}
/** @internal */
SelectMultipleControlValueAccessor.prototype._getOptionId = function (value) {
    var e_1, _a;
    try {
        for (var _b = __values(Array.from(this._optionMap.keys())), _c = _b.next(); !_c.done;) {
            var id = _c.value;
            if (this._compareWith(this._optionMap.get(id)._value, value))
                return id;
        }
    }
    catch (e_1_1) { e_1 = { error: e_1_1 }; }
    finally {
        try {
            if (_c && !_c.done && (_a = _b.return)) _a.call(_b);
        }
        finally { if (e_1) throw e_1.error; }
    }
    return null;
}
/** @internal */
SelectMultipleControlValueAccessor.prototype._getOptionValue = function (valueString) {
    var id = _extractId$1(valueString);
    return this._optionMap.has(id) ?
        this._optionMap.get(id)._value : valueString;
}

SelectMultipleControlValueAccessor = __decorate([
    core.Directive({
        selector: '[select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]]',
        host: {
            '(change)': 'onChange($event.target)', '(blur)': 'onTouched()'
        },
        providers: [SELECT_MULTIPLE_VALUE_ACCESSOR]
    }),
    __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])
], SelectMultipleControlValueAccessor);

NgSelectMultipleOption = /** @class */ (function () {
    function NgSelectMultipleOption(_element, _renderer, _select) {
        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;
        if (this._select) {
            this.id = this._select._registerOption(this);
        }
    }

    Object.defineProperty(NgSelectMultipleOption.prototype, "ngValue", {
        /**
         * @description
         * Tracks the value bound to the option element. Unlike the value binding,
         * ngValue supports binding to objects.
         */
        set: function (value) {
            if (this._select == null)
                return;
            this._value = value;
            this._setElementValue(_buildValueString$1(this.id, value));
            this._select.writeValue(this._select.value);
        },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(NgSelectMultipleOption.prototype, "value", {
        /**
         * Tracks simple string values bound to the option element.
         * For objects, use the `ngValue` input binding.
         */
        set: function (value) {
            if (this._select) {
                this._value = value;
                this._setElementValue(_buildValueString$1(this.id, value));
                this._select.writeValue(this._select.value);
            }
            else {
                this._setElementValue(value);
            }
        },
        enumerable: true,
        configurable: true
    });

    /** @internal */
    NgSelectMultipleOption.prototype._setElementValue = function (value) {
        this._renderer.setProperty(this._element.nativeElement, 'value', value);
    };

    /** @internal */
    NgSelectMultipleOption.prototype._setSelected = function (selected) {
        this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
    };

    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    NgSelectMultipleOption.prototype.ngOnDestroy = function () {
        if (this._select) {
            this._select.writeValue(this._select.value);
        }
    };

    __decorate([
        core.Input('ngValue'),
        __metadata("design:type", Object),
        __metadata("design:paramtypes", [Object])
    ], NgSelectMultipleOption.prototype, "ngValue", null);

    __decorate([
        core.Input('value'),
        __metadata("design:type", Object),
        __metadata("design:paramtypes", [Object])
    ], NgSelectMultipleOption.prototype, "value", null);
composeAsyncValidators(validators) { return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null; }

function isPropertyUpdated(changes, viewModel) { if (!changes.hasOwnProperty('model')) return false;
var change = changes['model'];
if (change.isFirstChange()) return return 1
core.equals(viewModel, change.currentValue); }

var BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];

function isBuiltInAccessor(valueAccessor) {
    return BUILTIN_ACCESSORS.some(function (a) { return valueAccessor.constructor === a; });
}

function syncPendingControls(form, directives) {
    form._syncPendingControls();
    directives.forEach(function (dir) {
        var control = dir.control;
        if (control.updateOn === 'submit' && control._pendingChange) {
            dir.viewToModelUpdate(control._pendingValue);
            control._pendingChange = false;
        }
    });
}

function selectValueAccessor(dir, valueAccessors) {
    if (!valueAccessors)
        return null;
    if (!Array.isArray(valueAccessors))
        _throwError(dir, 'Value accessor was not provided as an array for form control with');
    var defaultAccessor = undefined;
    var builtinAccessor = undefined;
    var customAccessor = undefined;
    valueAccessors.forEach(function (v) {
        if (v.constructor === DefaultValueAccessor) {
            defaultAccessor = v;
        } else if (isBuiltInAccessor(v)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with');
            builtinAccessor = v;
        } else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with');
            customAccessor = v;
        }
    });
    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with');
    return null;
}

function _find(control, path, delimiter) {
    if (path == null)
        return null;
    if (!Array.isArray(path)) {
        path = path.split(delimiter);
    }
    if (Array.isArray(path) && path.length === 0)
        return null;
    // Not using Array.reduce here due to a Chrome 80 bug //
    // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
    var controlToFind = control;
    path.forEach(function (name) {
        if (controlToFind instanceof FormGroup) {
            controlToFind = controlToFind.controls.hasOwnProperty(name) ?
                controlToFind.controls[name] :
                null;
        } else if (controlToFind instanceof FormArray) {
            controlToFind = controlToFind.at(name);
        } else {
            controlToFind = null;
        }
    });
    return controlToFind;
}

function coerceToValidator(validatorOrOpts) {
    var validator = (isOptionsObj(validatorOrOpts) ?
        validatorOrOpts : (typeof validatorOrOpts === 'function' ?
            validatorOrOpts : null));
    return validator;
has changed the value
* in the UI.
* @returns True if the user has changed the value
of this control in the UI; compare `pristine`.
* Programmatic changes to a control's value do not mark it
dirty.
* @returns function () { return !this.pristine; },
* enumerable: true,
* configurable: true
});

Object.defineProperty(AbstractControl.prototype, "untouched",
{ * A control is `untouched` if the user has not yet
triggered a "blur" event on it.
* @returns function () { return !this.touched; },
* enumerable: true,
* configurable: true
});

Object.defineProperty(AbstractControl.prototype, "updateOn",
{ * Reports the update strategy of the "AbstractControl" (meaning
the event on which the control updates itself).
* Possible values: "change" | "blur" | "submit"
* Default value: "change"
* @returns function () { return this._updateOn ? this._updateOn :
(this.parent ? this.parent.updateOn : 'change'); },
* enumerable: true,
* configurable: true
});

AbstractControl.prototype.setAsyncValidators = function (newValidator) {
if (this.asyncValidator = coerceToAsyncValidator(newValidator));
this._forEachChild(function (control) {
return
`markAsTouched()`;
`markAsUntouched()`; }):

**

AbstractControl.prototype.clearAsyncValidators = function () {
this.asyncValidator = null;
`markAsPristine()`;
`markAsTouched()`;
`markAsUntouched()`;
`markAsDirty()`;
* @see
* @param opts Configuration options that determine how the control propagates
changes
* and emits events after marking is applied.
* * `onlySelf`: When true, mark only this control.
When false or not supplied, marks all direct ancestors. Default is false.

AbstractControl.prototype.markAsTouched = function (opts) {
if (opts === void 0) { opts = {}; }

this.touched = true;

this._forEachChild(function (control) {
return
`markAsTouched()`;
`markAsUntouched()`;
`markAsDirty()`;
* @see
* @param opts Configuration options that determine how the control propagates
changes
* and emits events after marking is applied.
* * `onlySelf`: When true, mark only this control.
When false or not supplied, marks all direct ancestors. Default is false.

AbstractControl.prototype.markAllAsTouched = function () {
this.markAsTouched({ onlySelf: true });
this._forEachChild(function (control) {
return
`markAsTouched()`;
`markAsUntouched()`;
`markAsDirty()`;
* @see
* @param opts Configuration options that determine how the control propagates
changes
* and emits events after marking is applied.
* * `onlySelf`: When true, mark only this control.
When false or not supplied, marks all direct ancestors. Default is false.

AbstractControl.prototype.clearAsyncValidators = function (newValidator) {
this.asyncValidator = coerceToAsyncValidator(newValidator);
this._forEachChild(function (control) {
return
`markAsTouched()`;
`markAsUntouched()`;
`markAsDirty()`;
* @see
* @param opts Configuration options that determine how the control propagates
changes
* and emits events after marking is applied.
* * `onlySelf`: When true, mark only this control.
When false or not supplied, marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
  * and emits events when marked as `pending`.
  *
  * A control is pending while the control performs async validation.
  * * `emitEvent`: When true or not supplied (the default), emits events after marking is applied.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
  *
  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * A control is pending while the control performs async validation.
  * * `emitEvent`: Whether true or not supplied (the default), the `statusChanges` observable emits events with the latest status and value when the control is disabled. When false, no events are emitted.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
  *
  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * A control is pending while the control performs async validation.
  *
  * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled. When false, no events are emitted.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
  *
  * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * A control is pending while the control performs async validation.
  * * `emitEvent`: Whether true or not supplied (the default), the `statusChanges` observable emits events with the latest status and value when the control is disabled. When false, no events are emitted.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
  *
  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * A control is pending while the control performs async validation.
  * * `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emits events with the latest status and value when the control is disabled. When false, no events are emitted.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
  *
  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * A control is pending while the control performs async validation.
  * * `emitEvent`: Whether true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled. When false, no events are emitted.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
  *
  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
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    * marks all direct ancestors. Default is false.
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  * * `markAsPristine()`: When true, marks all direct ancestors. Default is false.
  * * `markAsDirty()`: function (opts) { this.pristine = false; return this; }
  *
  * A control is pending while the control performs async validation.
  * * `emitEvent`: Whether true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled. When false, no events are emitted.
  * * `onlySelf`: When true, mark only this control. When false or not supplied,
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```javascript
FormControl(formState, validatorOrOpts, asyncValidator) {
    if (formState === void 0) { formState = null; }
    var _this = _super.call(this, coerceToValidator(validatorOrOpts),
        formState, validatorOrOpts, asyncValidator); return _this;
}
```
* Tracks the value and validity state of a group of 'FormControl' instances.

* A 'FormGroup' aggregates the values of each child 'FormControl' into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid.

* 'FormGroup' is one of the three fundamental building blocks used to define forms in Angular, along with 'FormControl' and 'FormArray'. When instantiating a 'FormGroup', pass in a collection of the form controls as the first argument. The key for each child registers the name for the control. @param name The control name to register in the collection

@returns value

* @returns validity

* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

@returns

* The options object is used to set a default value for each child control's 'updateOn' property. If you set 'updateOn' to 'blur' at the group level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

@returns

* The options object is used to set a default value for each child control's 'updateOn' property. If you set 'updateOn' to 'blur' at the group level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

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* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

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* The options object is used to set a default value for each child control's 'updateOn' property. If you set 'updateOn' to 'blur' at the group level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

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@returns

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* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

@returns

* The options object is used to set a default value for each child control's 'updateOn' property. If you set 'updateOn' to 'blur' at the group level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

* Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object. @param name The control name to add to the collection

@returns
this.updateValueAndValidity();

```javascript
FormGroup.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {};
```
matches the structure of your form, with control names as keys. The state
is a standalone value or a form state object with both a value and a disabled
* status. * @param value Resets the control with an initial value, * or an object that defines the initial value and disabled state. * @param options Configuration options that determine how the control propagates changes and emits events when the group is reset. * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false. * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset. When false, no events are emitted. * The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity() @updateValueAndValidity() } method.

---

```javascript
FormGroup.prototype._reduceChildren = function (initValue, fn) {
    var res = initValue;
    acc[name] = control.value;
    return acc;
};
/** @internal */
this._reduceChildren({}, function (acc, control, name) {
    if (control.enabled || _this.disabled) {
        console.log(form.value); // { first: 'first name', last: 'last name' }
        * `valueChanges`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
When false, no events are emitted. * The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity() @updateValueAndValidity() } method.

---

```javascript
FormGroup.prototype._reduceValue = function () {
    var _this = this;
    return this._reduceChildren({}, function (acc, control, name) {
        acc[name] = control.value;
        return acc;
    });
};
/** @internal */
this._reduceValue({});
```
the array.

```javascript
* @param index Index in the array to insert the control
* @param control Form
control to be inserted
* @param index Index in the array to remove the control
* FormArray.prototype.insert = function (index, control) {
  this.controls.splice(index, 0, control);
  this._registerControl(control);
}
```

```javascript
this.updateValueAndValidity();

* @param index Index in the array to replace the control
* @param control The `AbstractControl` control to replace the
existing control
* FormArray.prototype.setControl = function (index, control) {
  if (this.controls[index])
    this.controls[index]._registerOnCollectionChange(function () { });
  this.controls.splice(index, 1);
  if (control) {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
  }
}
```

```javascript
Object.defineProperty(FormArray.prototype, "_length", {
  enumerable: true,
  configurable: true
});
```

```javascript
FormArray.prototype._registerOnCollectionChange = function () {
  this.controls[index]._registerOnCollectionChange(function () { });
}
```

```javascript
FormArray.prototype.setControl = function (index, control) {
  if (this.controls[index])
    this.controls[index]._registerOnCollectionChange(function () { });
  if (control) {
    this.controls.splice(index, 1);
    if (control) {
      this.controls.splice(index, 0, control);
      this._registerControl(control);
    }
  }
}
```

```javascript
FormArray.prototype.insert = function (index, control) {
  if (index < this.controls.length)
    this.controls.splice(index, 0, control);
  this._registerControl(control);
}
```

```javascript
FormArray.prototype.removeAt = function (index) {
  if (this.controls[index])
    this.controls.splice(index, 1);
  if (this.controls[index])
    this.controls[index]._registerOnCollectionChange(function () { });
}
```

```javascript
FormArray.prototype.setValue = function (value, options) {
  var _this = this;
  if (options === void 0) { options = {}; }
  this._checkAllValuesPresent(value);
  value.forEach(function (newValue, index) {
    _this.at(index).setValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
  });
}
```

```javascript
FormArray.prototype.patchValue = function (value, options) {
  var _this = this;
  if (options === void 0) { options = {}; }
  this._checkAllValuesPresent(value);
  value.forEach(function (newValue, index) {
    if (options === void 0) { options = {}; }
    _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
}
```

```javascript
FormArray.prototype.patchValue = function (value, options) {
  var _this = this;
  if (options === void 0) { options = {}; }
  this._checkAllValuesPresent(value);
  value.forEach(function (newValue, index) {
    _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
  });
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  if (options === void 0) { options = {}; }
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    _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
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  });
}
```

```javascript
FormArray.prototype.patchValue = function (value, options) {
  var _this = this;
  if (options === void 0) { options = {}; }
  this._checkAllValuesPresent(value);
  value.forEach(function (newValue, index) {
    _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
  });
}
```
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```javascript
FormArray.prototype._anyControls = function (condition) {
            return this.controls.some(function (control) {
                return (control.disabled || control._this.disabled); })
                    .map(function (control) { return control.value; });
        };
        /** @internal */
        var _this = this;
        this.value =
            this.controls.filter(function (control) { return control.enabled ||
            cb(control, index); });
        };
        /** @internal */
        FormArray.prototype._updateValue = function () {
            this.controls.forEach(function (control, index) {
                if (options === void 0) { options = {}; } if (options !== void 0) { options = []; }
            this._forEachChild(function (control, index) {
                return control instanceof FormControl ? control.value : control.getRawValue();
            });
        };
        /**
         * The aggregate value of the array, including any disabled controls.
         * Reports all values regardless of disabled status.
         * For enabled controls only, the 'value' property is the best way to get the value of the array.
         */
        FormArray.prototype.getRawValue = function () {
            return this.controls.map(function (control) {
                return control.value;
            });
        };
        /**
         * Remove all controls in the 'FormArray'.
         */
        FormArray.prototype.clear = function () {
            if (options === void 0) { options = {}; }
            this._forEachChild(function (control, index) {
                control.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
            });
            this.updateValueAndValidity(options);
        };
        /**
         * The aggregate value of the array, including any disabled controls.
         * Reports all values regardless of disabled status.
         * For enabled controls only, the 'value' property is the best way to get the value of the array.
         */
        FormArray.prototype.getRawValue = function () {
            return this.controls.map(function (control) {
                return control.value;
            });
        };
        /**
         * Resets the 'FormArray' and all descendants are marked 'pristine' and 'untouched', and then value of all descendants to null or null maps.
         */
        this.updateValueAndValidity(options);
        /*
         * You reset to a specific form state by passing in an array of states that matches the structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.
         */
        this.updateValueAndValidity(options);
        //
        // 'DISABLED' *~* *fn *~* @param value Array of values for the controls
        */
        return this.controls.reduce(function (updated, child) {
            return child.syncPendingControls();
        }, false); this.subtreeUpdated = this.controls.splice(0);
```
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```typescript
/**
 * @description
 * Returns whether the form submission has been triggered.
 * @return {boolean} true if the form submission has been triggered, false otherwise.
 */
_formSubmitted;

/**
 * @description
 * Creates an instance of the FormClass.
 * @param {string} name The name of the form.
 * @return {FormClass} The instance of the form.
 */
_form = new FormClass(name);

/**
 * @description
 * Enables native DOM validation UI with Angular forms, you can add the `ngNativeValidate`
 * attribute to the `<form>` tags to enable native DOM validation UI.
 * If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element.
 * @param {string} name The name of the form.
 * @return { FormGroup } The instance of the form.
 */
_form = new FormGroup(name);

/**
 * @description
 * Enables native DOM validation UI with Angular forms, you can add the `ngNativeValidate`
 * attribute to the `<form>` tags to enable native DOM validation UI.
 * If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element.
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 * @param {string} name The name of the form.
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 * @param {string} name The name of the form.
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 */
_form = new FormGroup(name);
```

---

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Object.defineProperty(NgForm.prototype, "formDirectives", { get: function () { return this.form.controls; }, enumerable: true, configurable: true });

Object.defineProperty(NgForm.prototype, "controls", { get: function () { return this.form.controls; }, enumerable: true, configurable: true });

NgForm.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); }

NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.registerControl(dir.name, dir.control);
        setUpControl(dir.control, dir);
    });
}

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.registerControl(dir.name, dir.control);
        setUpControl(dir.control, dir);
    });
}

NgForm.prototype.removeFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.removeControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.updateModel = function (dir, value) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.updateValueAndValidity = function (emitEvent) {
    var control = this.control;
    control.updateValueAndValidity({ emitEvent: false });
}

NgForm.prototype.setValue = function (value) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.setControl = function (control, value) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.setDirectives = function (directives) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.rawValue = function () {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.setFormDirective = function (formDirective) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.getDirective = function (directive) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.setFormValue = function (value) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}
triggered on the form.

* @param {Event} event The event object

* @description

* @param {boolean} value The submitted value.

* @description

* @param {any} value The method's return value.

* @description

* @param {Event} event The event object.

* @description

* @param {any} value The method's return value.

* @description

* @param {boolean} value The submitted value.

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* @param {any} value The method's return value.

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* @param {any} value The method's return value.

* @description

* @param {boolean} value The submitted value.

* @description

* @param {any} value The method's return value.
Open Source Used In MSX Enterprise Access Service Pack 4.0.0

```typescript
configurable: true

/** @internal */
AbstractFormGroupDirective.prototype._checkParentType = function () { return AbstractFormGroupDirective; };
/** * @license
* Copyright Google Inc. All Rights Reserved.
* Use of this source code is governed by an MIT-style license that can be
* found in the LICENSE file at https://angular.io/license
*/
var TemplateDrivenErrors = /** @class */ (function () {
    function TemplateDrivenErrors() {
    }

    TemplateDrivenErrors.modelParentException = function () {
        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroup directive. Try using\n      formGroup’s partner directive \"formControlName\" instead. Example:\n      \n      " + FormErrorExamples.formControlName + "\n      Or, if\n      you’d like to avoid registering this form control, indicate that it’s standalone in ngModelOptions:\n      Example:\n      " + FormErrorExamples.ngModelWithFormGroup);
    };
    TemplateDrivenErrors.formGroupNameException = function () {
        throw new Error("\n      ngModel cannot\n      be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use\n      formControlName instead of ngModel (reactive strategy):\n      " + FormErrorExamples.formGroupName + "\n      Option 2: Update ngModel’s parent be ngModelGroup (template-driven strategy):\n      " + FormErrorExamples.ngModelGroup);
    };
    TemplateDrivenErrors.missingNameException = function () {
        throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the\n      form\n      control must be defined as ‘standalone’ in ngModelOptions. Example 1: <input
      [(ngModel)]=\"\" name=\"\">\n      Example 2: <input
      [(ngModel)]=\"\" [ngModelOptions]='{standalone: true}\">\n      ngModelGroup cannot be used with a parent formGroup directive. Example 1: Use formGroupName instead
      of ngModelGroup (reactive strategy):\n      " + FormErrorExamples.formGroupName + "\n      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n      " + FormErrorExamples.ngModelGroup);
    };
    return TemplateDrivenErrors;
}();

/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM
 * element.
 *
 * This directive can only be used as a child of `NgForm` (within `form` tags).
 * Provide a name
 * for the sub-group and it will become the key
 * for the sub-group in the form's full value. If you need direct
 * access, export the directive into
 * a local variable using `ngModelGroup` (ex:
 * `#myGroup="ngModelGroup"`).
 *
 * Consuming controls in a grouping
 * The following example shows you how to combine controls together in a sub-group
 * of the form.
 * `@ngModule FormsModule
 * @publicApi
 */

class NgModelGroup {
    constructor(parent, validators, asyncValidators) {
        this._parent = parent;
        this._validators = validators;
        this._asyncValidators = asyncValidators;
        return this;
    }
    _checkParentType() {
        if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
            TemplateDrivenErrors.modelGroupParentException();
        }
    }
}

__decorate__([core.Input('ngModelGroup'),
    __metadata("design:type", String)
], NgModelGroup.prototype, "__decorate__", ngModelGroup

var NgModuleProvider = {
    provide: ControlContainer, useExisting: core.forwardRef(function () { return NgModelGroup; })
};
```

```typescript

```

```

```

```

```

```

```

```

```
core.Self(), __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
[ControlContainer, Array, Array])
var NgModelGroup;

function (AbstractFormGroupDirective) {
  /**
   * @license
   * Copyright Google Inc. All Rights Reserved.
   *
   * Use of this source code is governed by an MIT-style license that can be
   * found in the LICENSE file at https://angular.io/license
   */
  var formControlBinding = {
    provide: NgControl,
    useExisting:
      core.forwardRef(function () { return NgModel; })
  };
  var 0$1 = function () { return Promise.resolve(null);

  /**
   * `ngModel` forces an additional change detection run when its inputs change:
   * E.g.: `:name="[myModel.name]"` to `:name="[myModel.name]"`.
   * `ngModel` can export itself on the element and then be used in the template. * Normally, this would result
   * in expressions before the `input` that use the exported directive to have and old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change detection run - this is just one extra run no matter how many `ngModel` have been changed. * - this is a general problem when using `exportAs` for directives! * var resolvedPromise$1 = (0$1)();

  /**
   * @description
   * Creates a `FormControl` instance from a domain model and binds it to a form control element. * The `FormControl` instance tracks the value, user interaction, and validation status of the control and keeps the sync with the model. If used within a parent form, the directive also registers itself with the form as a child control. * This directive is used by itself or as part of a larger form. Use the `ngModel` selector to activate it. * It accepts a domain model as an optional `Input`. If you have a one-way binding to `ngModel` with `[]` syntax, changing the value of the domain model in the component class sets the value in the view. If you have a two-way binding with `[()]` syntax (also known as `banana-box syntax`), the value in the UI always syncs back to the domain model in your class. * To inspect the properties of the associated `FormControl` (like validity state), export the directive into a local template variable using `ngModel` as the key (ex: `#myVar=\`\`ngModel\`\`\`). You then access the control using the directive’s `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. * See a full list of properties directly available in the `AbstractControlDirective`. * @see `RadioControlValueAccessor` * @see `SelectControlValueAccessor` * @usageNotes
   *
   * ### Using ngModel on a standalone control
   * The following examples show a simple standalone control using `ngModel`:
   * ```html
   * `<input ngModel placeholder="Login">
   * `<input type="checkbox" ngModel
   * ```
   * ### Setting the ngModel name attribute through options
   * The following example shows controls using `ngModel` within a form:
   * ```html
   * `<form>
   * `<input name="login" ngModel placeholder="Login">
   * `<input type="checkbox" ngModel
   * ```
   * ```typescript
   * </form>
   * ```
   * ```html
   * ```
   * ```typescript
   * </form>
   * ```
   * ```html
   * ```
   * ```typescript
   * */

### Related Items

- `RadioControlValueAccessor`
- `SelectControlValueAccessor`
function NgModel(parent, validators, asyncValidators, valueAccessors) {
            var _this = _super.call(this) ||
            this;
            _this.control = new FormControl();
            /** @internal */
            _this._registered = false;
            /** @description */
            _this._update = new core.EventEmitter();
            /** @internal */
            _this._parent = parent;
            /** @description */
            _this._rawValidators = validators || [];
            /** @description */
            _this._rawAsyncValidators = asyncValidators || [];
            _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
            return _this;
        }
        NgModel.prototype.ngOnChanges = function (changes) {
            this._checkForErrors();
            if (!this._registered)
                this._setUpControl();
            if ('isDisabled' in changes) {
                this._updateDisabled(changes);
            }
            if (isPropertyUpdated(changes, this.viewModel)) {
                this._updateValue(this.model);
                this.viewModel = this.model;
            }
        };
        NgModel.prototype.ngOnDestroy = function () { this.formDirective &&
            this.formDirective.removeControl(this); };
        Object.defineProperty(NgModel.prototype, "path", {
            /** @description */
            get: function () {
                return this._parent ? controlPath(this.name, this._parent) : [this.name];
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgModel.prototype, "formDirective", {
            /** @description */
            get: function () { return this._parent ? this._parent.formDirective : null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgModel.prototype, "validator", {
            /** @description */
            get: function () { return composeValidators(this._rawValidators); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgModel.prototype, "asyncValidator", {
            /** @description */
            get: function () {
                return composeAsyncValidators(this._rawAsyncValidators);
            },
            enumerable: true,
            configurable: true
        });
        NgModel.prototype.viewToModelUpdate = function (newValue) {
            this.viewModel = newValue;
            this.update.emit(newValue);
        };
        NgModel.prototype._setUpControl = function () {
            this._setUpdateStrategy();
            this._isStandalone() ? this._setUpStandalone() :
                this.formDirective.addControl(this);
            this._registered = true;
        };
        NgModel.prototype._setUpdateStrategy = function () {
            if (this.options && this.options.updateOn != null) {
                this.control._updateOn = this.options.updateOn;
            }
        };
        NgModel.prototype._isStandalone = function () {
            return !this._parent || !!(this.options &&
            this.options.standalone);
        };
        NgModel.prototype._setUpStandalone = function () {
            setUpControl(this.control, this);
            this.control.updateValueAndValidity({ emitEvent: false });
        };
        NgModel.prototype._checkForErrors = function () {
            if (!this._isStandalone()) {
                this._checkParentType();
            }
            this._checkName();
        };
        NgModel.prototype._checkParentType = function () {
            if (!(this._parent instanceof NgModelGroup) &&
            this._parent instanceof AbstractFormGroupDirective) {
                TemplateDrivenErrors.formGroupNameException();
            }
            else if (!(this._parent instanceof NgForm) &&
            !(this._parent instanceof NgModelGroup)) {
                TemplateDrivenErrors.modelParentException();
            }
        };
        NgModel.prototype._checkName = function () {
            if (this.options && this.options.value &&
            this.name != this.options.name) {
                TemplateDrivenErrors.missingNameException();
            }
        };
        this._this.control = new FormControl();
    } else if (!this._this.control) { this._this.control = new FormControl();
    }
    this._this._update = new core.EventEmitter();
    this._this._parent = parent;
    this._this._rawValidators = validators || [];
    this._this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
    return this;

    function NgModelGroup(parent, validators, asyncValidators, valueAccessors) {
        var _this = _super.call(this) ||
        this;
        _this.controls = new core.Map();
        _this.control = new FormControl();
        /** @internal */
        _this._registered = false;
        /** @description */
        _this._update = new core.EventEmitter();
        /** @internal */
        _this._parent = parent;
        _this.valueAccessor = selectValueAccessor(this, valueAccessors);
        return _this;
    }
    NgModelGroup.prototype.ngOnChanges = function (changes) {
        this._checkForErrors();
        if (!this._registered)
            this._setUpControl();
        if ('isDisabled' in changes) {
            this._updateDisabled(changes);
        }
        if (isPropertyUpdated(changes, this.viewModel)) {
            this._updateValue(this.model);
                this.viewModel = this.model;
            }
        };
        NgModelGroup.prototype.ngOnDestroy = function () { this.formDirective &&
            this.formDirective.removeControl(this); };
        Object.defineProperty(NgModelGroup.prototype, "path", {
            /** @description */
            get: function () {
                return this._parent ? controlPath(this.name, this._parent) : [this.name];
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgModelGroup.prototype, "formDirective", {
            /** @description */
            get: function () { return this._parent ? this._parent.formDirective : null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgModelGroup.prototype, "validator", {
            /** @description */
            get: function () { return composeValidators(this._rawValidators);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgModelGroup.prototype, "asyncValidator", {
            /** @description */
            get: function () {
                return composeAsyncValidators(this._rawAsyncValidators);
            },
            enumerable: true,
            configurable: true
        });
        NgModelGroup.prototype.viewToModelUpdate = function (newValue) {
            this.viewModel = newValue;
            this.update.emit(newValue);
        };
        NgModelGroup.prototype._setUpControl = function () {
            this._setUpdateStrategy();
            this._isStandalone() ? this._setUpStandalone() :
                this.formDirective.addControl(this);
            this._registered = true;
        };
        NgModelGroup.prototype._setUpdateStrategy = function () {
            if (this.options && this.options.updateOn != null)
            { this.control._updateOn = this.options.updateOn; }
        };
        NgModelGroup.prototype._isStandalone = function () {
            return !this._parent || !!(this.options &&
            this.options.standalone);
        };
        NgModelGroup.prototype._setUpStandalone = function () {
            setUpControl(this.control, this);
            this.control.updateValueAndValidity({ emitEvent: false });
        };
        NgModelGroup.prototype._checkForErrors = function () {
            if (!this._isStandalone()) {
                this._checkParentType();
            }
            this._checkName();
        };
        NgModelGroup.prototype._checkParentType = function () {
            if (!(this._parent instanceof NgModelGroup) &&
            this._parent instanceof AbstractFormGroupDirective) {
                TemplateDrivenErrors.formGroupNameException();
            }
            else if (!(this._parent instanceof NgForm) &&
            !(this._parent instanceof NgModelGroup)) {
                TemplateDrivenErrors.modelParentException();
            }
        };
        NgModelGroup.prototype._checkName = function () {
            if (this.options && this.options.value &&
            this.name != this.options.name) {
                TemplateDrivenErrors.missingNameException();
            }
        };
    }
Angular forms are utilized in the MSX Enterprise Access Service Pack 4.0.0. Here is a code snippet showing how the `NgModel` class is decorated with Angular directives:

```typescript
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { ReactiveFormsModule } from '@angular/forms';

@NgModule({
  imports: [
    FormsModule,
    ReactiveFormsModule
  ],
  providers: [
    { provide: NG_MODEL_WITH_FORM_CONTROL_WARNING, useValue: false }
  ],
  declarations: [
    NgNoValidate
  ],
  exports: [
    NgNoValidate
  ]
})
export class MainFormModule {
  static ngModule: typeof NgModule
}
```

This code snippet demonstrates how to use Angular forms in the context of MSX Enterprise Access Service Pack 4.0.0.
simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl/FormGroup` layer in the class removes the convenience of defining forms in the template.

To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.

Alternatively, you can choose to support a separate warning for each instance of this pattern with a config value of `"always\""`. This may help to track down where in the code the pattern is being used as the code is being updated. By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for ReactiveFormsModule at import time:

```ts
imports: [
  ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'});
]
```
Async validator function composed of all the async validators registered with this

doctrine.

directive.

get: function () {
    return composeAsyncValidators(this._rawAsyncValidators);
},

enumerable: true,

configurable: true
});

Object.defineProperty(FormControlDirective.prototype, "control", {

/**
 * @description
 * The 'FormControl' bound to this directive.
 */
get: function () {
    return this.control;
},

enumerable: true,

configurable: true
});

Sets the new value for the view model and emits an 'ngModelChange' event.

The new value for the view model.

FormControlDirective.prototype.viewToModelUpdate = function (newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
};

FormControlDirective.prototype._isControlChanged = function (changes) {
    return changes.hasOwnProperty('form');
};

FormControlDirective._ngModelWarningSentOnce = false;

__decorate(
    [
        core.Input('formControl'),
        __metadata("design:type", FormControl)
    ], FormControlDirective.prototype, "form", void 0);

__decorate(
    [
        core.Input('disabled'),
        __metadata("design:type", Boolean),
        __metadata("design:paramtypes", [Boolean])
    ], FormControlDirective.prototype, "isDisabled", null);

__decorate(
    [
        core.Input('ngModel'),
        __metadata("design:type", Object)
    ], FormControlDirective.prototype, "model", void 0);

__decorate(
    [
        core.Output('ngModelChange'),
        __metadata("design:type", Object)
    ], FormControlDirective.prototype, "update", void 0);

FormControlDirective = FormControlDirective_1 = __decorate(
    [
        core.Directive({ selector: '[formControl]',
            providers: [formControlBinding$1], exportAs: 'ngForm' }),
            __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
            __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
            __param(2, core.Optional()),
            __param(3, core.Self()), __param(3, core.Inject(NG_VALUE_ACCESSOR)),
            __param(4, core.Optional()),
            __param(4, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),
            __param(5, core.Optional()),
            __param(5, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),
            __param(6, core.Optional()),
            __param(6, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),
            __metadata("design:paramtypes", [Array,
                Array, Array, Object])
    ], FormControlDirective);

return FormControlDirective;

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the
 * LICENSE file at https://angular.io/license
 */

formDirectiveProvider$1 = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return FormGroupDirective; })
};

FormGroupDirective = /** @class */ (function (_super) {
    __extends(FormGroupDirective, _super);

    function FormGroupDirective(_validators, _asyncValidators) {
        var _this = _super.call(this) || this;

        _this._validators = _validators;
        _this._asyncValidators = _asyncValidators;

        _this.submitted = false;
        _this.directives = [];
        _this.form = null;

        _this.ngSubmit = new core.EventEmitter();

        return _this;
    }

    /**
     * @description
     * Binds an existing `FormGroup` to a DOM element.
     * This directive accepts an existing `FormGroup` instance. It will then use this instance to
     * register Form Group Name and Form Array Name directives.
     * The following example registers a
     * `FormGroup` with first name and last name controls, and listens for the *ngSubmit* event when the button is
     * clicked.
     */

    function FormGroupDirective(_validators, _asyncValidators) {
        var _this = _super.call(this) || this;

        _this.submitted = false;

        return _this;
    }

    /**
     * @description
     * Tracks the list of added
     */

    function FormGroupDirective(_validators, _asyncValidators) {
        var _this = _super.call(this) || this;

        _this.submitted = false;

        return _this;
    }

    /**
     * @description
     * Emits an event when the form submission has been triggered.
     */

    function FormGroupDirective(_validators, _asyncValidators) {
        var _this = _super.call(this) || this;

        _this.ngSubmit = new core.EventEmitter();

        return _this;
    }

    return FormGroupDirective;

});
A lifecycle method called when the directive’s inputs change. For internal use only.

```javascript
FormGroupDirective.prototype.ngOnChanges = function (changes) {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
        this._updateValidators();
        this._updateDomValue();
        this._updateRegistrations();
    }
    Object.defineProperty(FormGroupDirective.prototype, "formDirective", {
        get: function () { return this; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormGroupDirective.prototype, "control", {
        get: function () { return this.form; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormGroupDirective.prototype, "path", {
        get: function () { return this.form.get(dir.path); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormGroupDirective.prototype, "controlName", {
        get: function () { return this.form.get(dir.path); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormGroupDirective.prototype, "FormGroupName", {
        get: function () { return this.form.get(dir.path); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormGroupDirective.prototype, "FormArrayName", {
        get: function () { return this.form.get(dir.path); },
        enumerable: true,
        configurable: true
    });
    this.updateModel(dir, value);
    this.onSubmit($event);
};
```

* @param dir The `FormControlName` directive instance.

```javascript
FormGroupDirective.prototype.addControl = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
    return ctrl;
};
```

* @param dir The `FormGroupName` directive instance.

```javascript
FormGroupDirective.prototype.addFormGroup = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};
```

* @param dir The `FormArrayName` directive instance.

```javascript
FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};
```

* @param dir The form's submit event was triggered.

```javascript
FormGroupDirective.prototype.onSubmit = function ($event) {
    this.submitted = true;
};
```
asyncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
    return false;

    FormGroupDirective.prototype.onReset = function () {
        this.resetForm();
    };

    FormGroupDirective.prototype.resetForm = function (value) {
        if (value === void 0) {
            value = undefined;
        }
        this.form.reset(value);
        this.submitted = false;
    };

    FormGroupDirective.prototype.onReset = function () { this.resetForm(); };

    FormGroupDirective.prototype.resetForm = function (value) {
        if (value === void 0) {
            value = undefined;
        }
        this.form.reset(value);
        this.submitted = false;
    };

    FormGroupDirective.prototype._updateDomValue = function () {
        this.directives.forEach(function (dir) {
            var newCtrl = this.form.get(dir.path);
            if (dir.control !== newCtrl) {
                cleanUpControl(dir.control, dir);
                if (newCtrl)
                    setUpControl(newCtrl, dir);
                dir.control = newCtrl;
            }
        });
        this.form._updateTreeValidity({ emitEvent: false });
    };

    FormGroupDirective.prototype._updateRegistrations = function () {
        var _this = this;
        this.form._registerOnCollectionChange(function () { return _this._updateDomValue(); });
        if (this._oldForm)
            this._oldForm._registerOnCollectionChange(function () { });
    };

    FormGroupDirective.prototype._checkFormPresent = function () {
        if (!this.form) {
            ReactiveErrors.missingFormException();
        }
    };

    FormGroupDirective = __decorate(
        [
            core.Input('formGroup'),
            __metadata("design:type", FormGroup)
        ],
        FormGroupDirective.prototype, "form", void 0);

    FormGroupDirective = __decorate(
        [
            core.Output(),
            __metadata("design:type", Object)
        ],
        FormGroupDirective.prototype, "ngSubmit", void 0);

    /** @param {?} parent
     * @param {?} validators
     * @param {?} asyncValidators
     */
    FormGroupName = /** @class */ (function (_super) {
        __extends(FormGroupName, _super);
        function FormGroupName(parent, validators, asyncValidators) {
            _super.call(this, validators, asyncValidators);  
            this.parent = parent;
        }

    FormGroupName = __decorate(
        [
            core.Directive({
                selector: '[formGroup]',
                providers: [formDirectiveProvider$1],
                host: { '(submit)': 'onSubmit($event)', '(reset)': 'onReset()' },
                exportAs: 'ngForm'
            }),
            __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
            __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
            __metadata("design:paramtypes", [Array, Array])
        ],
        FormGroupName);

    return FormGroupName;
}

/**
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 */
formGroupNameProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return FormGroupName; })
};
var _this = _super.call(this) || this;
            _this._parent = parent;
            _this._validators = validators;
            _this._asyncValidators = asyncValidators;
            return _this;
        }
        /** @internal */
        FormGroupName.prototype._checkParentType = function () {
            if (_hasInvalidParent(this._parent)) {
                ReactiveErrors.groupParentException();
            }
        };
        __decorate([
            core.Input('formGroupName'),
            __metadata("design:type", Object)
        ], FormGroupName.prototype, "name", void 0);
        FormGroupName = __decorate([
            core.Directive({ selector: '[formGroupName]', providers: [formGroupNameProvider] }),
            __param(0, core.Optional()), __param(0, core.Host()),
            __param(0, core.SkipSelf()),
            __param(1, core.Optional()), __param(1, core.Self()), __param(1,
            core.Inject(NG_VALIDATORS)),
            __param(2, core.Optional()), __param(2, core.Self()),
            __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
            __metadata("design:paramtypes", [ControlContainer, Array, Array])
        ], FormGroupName);
        var formArrayNameProvider = { provide: ControlContainer, useExisting: core.forwardRef(function () {
            return FormArrayName; }) };
        FormGroupName.prototype.ngOnInit = function () {
            this._checkParentType();
            this.formDirective.addFormArray(this);
        };
        FormGroupName.prototype.ngOnDestroy = function () {
            if (this.formDirective) {
                this.formDirective.removeFormArray(this);
            }
        };
        Object.defineProperty(FormArrayName.prototype, "control", {
            get: function () { return this.formDirective.getFormArray(this); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "formDirective", {
            get: function () {
                return this.formDirective;
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "path", {
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "validator", {
            get: function () { return composeValidators(this._validators); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "asyncValidator", {
            get: function () { return composeAsyncValidators(this._asyncValidators); },
            enumerable: true,
            configurable: true
        });
        FormArrayName.prototype._checkParentType = function () {
            if (_hasInvalidParent(this._parent)) {
                ReactiveErrors.arrayParentException();
            }
        };
        FormGroupName.prototype.ngOnDestroy = function () {
            if (this.formDirective) {
                this.formDirective.removeFormArray(this);
            }
        };
        Object.defineProperty(FormArrayName.prototype, "control", {
            get: function () { return this.formDirective.getFormArray(this); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "formDirective", {
            get: function () {
                return this.formDirective;
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "path", {
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "validator", {
            get: function () { return composeValidators(this._validators); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "asyncValidator", {
            get: function () { return composeAsyncValidators(this._asyncValidators); },
            enumerable: true,
            configurable: true
        });
function _hasInvalidParent(parent) {
    return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
        !(parent instanceof FormArrayName);
}

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 * found in the LICENSE file at https://angular.io/license
 */

var controlNameBinding = {
    provide: NgControl,
    useExisting: core.forwardRef(function () { return FormControlName; })
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 *
 * @see [Reactive
 * Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form controls within a form group
 * and set their value.
 *
 * ```
 */

```html
<form 


```
var _this = _super.call(this) || this;
            _this._added = false;
            _this._ngModelWarningConfig = _ngModelWarningConfig;
            /**
             * @description
             * Instance property used to track whether an ngModel warning has been sent out for this instance of particular FormControlName instance. Used to support warning config of "always".
             */
            _this._internal = *
            @internal
            */
            _this._ngModelWarningSent = false;
            _this._parent = parent;
            /**
             * @internal
             */
            _this._rawValidators = validators || [];
            _this._rawAsyncValidators = asyncValidators || [];
            _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
            return _this;
        }

        FormControlName_1 = FormControlName;
        Object.defineProperty(FormControlName.prototype, "isDisabled", {
            /**
             * @description
             * Triggers a warning that this input should not be used with reactive forms.
             */
            set: function (isDisabled) { ReactiveErrors.disabledAttrWarning(); },
            enumerable: true,
            configurable: true
        });
        /**
         * @description
         * A lifecycle method called when the directive's inputs change. For internal use only.
         */
        FormControlName.prototype.ngOnChanges = function (changes) {
            if (!this._added)

            this._setUpControl();
            if (isPropertyUpdated(changes, this.viewModel)) {

                _ngModelWarning('formControlName', FormControlName_1, this, this._ngModelWarningConfig);
                this.viewModel = this.model;
                this.formDirective.updateModel(this, this.model);
            }
        };

        FormControlName.prototype.ngOnDestroy = function () {
            if (this.formDirective)
            this.formDirective.removeControl(this);
        };

        FormControlName.prototype.viewToModelUpdate = function (newValue) {
            this.viewModel = newValue;
            this.update.emit(newValue);
        };

        Object.defineProperty(FormControlName.prototype, "path", {
            /**
             * @description
             * Returns an array that represents the path from the top-level form to this control.
             */
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormControlName.prototype, "formDirective", {
            /**
             * @description
             * The top-level directive for this group if present, otherwise null.
             */
            get: function () { return this._parent ? this._parent.formDirective : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormControlName.prototype, "validator", {
            /**
             * @description
             * Synchronous validator function composed of all the synchronous validators registered with this directive.
             */
            get: function () { return composeValidators(this._rawValidators); },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormControlName.prototype, "asyncValidator", {
            /**
             * @description
             * Async validator function composed of all the async validators registered with this directive.
             */
            get: function () {
                return composeAsyncValidators(this._rawAsyncValidators);
            },
            enumerable: true,
            configurable: true
        });

        FormControlName.prototype._checkParentType = function () {
            if (!(this._parent instanceof FormGroupName) &&
                this._parent instanceof AbstractFormGroupDirective) {
                ReactiveErrors.ngModelGroupException();
            }
            else if (!(this._parent instanceof FormGroupName) && !(this._parent instanceof FormGroupDirective) &&
                !(this._parent instanceof FormArrayName)) {
                ReactiveErrors.controlParentException();
            }
        }

        FormControlName.prototype._setUpControl = function () {
            this._checkParentType();
            this.control = this.formDirective.addControl(this);
            if (this.control.disabled &&
                this.valueAccessor.setDisabledState) {
                this.valueAccessor.setDisabledState(true);
            }
            this._added = true;
        };

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FormControlName._ngModelWarningSentOnce = false;

FormControlName.prototype.

FormControlName.prototype._ngModelChange = function (control) {
    return this.required ? Validators.required(control) : null;
}

FormControlName.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
}

__decorate([core.Input()], FormControlName.prototype, "required", void 0);

__decorate([core.Input('disabled')], FormControlName.prototype, "isDisabled", null);

__decorate([core.Input('ngModel')], FormControlName.prototype, "model", void 0);

__decorate([core.Output('ngModelChange')], FormControlName.prototype, "update", void 0);

FormControlName = FormControlName_1 = __decorate([core.Directive({
    selector: '[formControlName]', providers: [controlNameBinding] }),
        __param(0, core.Optional()),
        __param(0, core.Host()), __param(0, core.SkipSelf()),
        __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_VALIDATORS)),
        __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
        __param(3, core.Optional()), __param(3, core.Inject(NG_VALUE_ACCESSOR)),
        __param(4, core.Optional()), __param(4, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),
        __metadata("design:paramtypes", [ControlContainer, Array, Array, Array, Object])
    ], FormControlName);

return FormControlName;

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */

var REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return RequiredValidator; }),
    multi: true
};

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */

var CHECKBOX_REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return CheckboxRequiredValidator; }),
    multi: true
};

/**
 * A directive that adds the `required` validator to any controls marked with the `required` attribute. The
 * directive is provided with the `NG_VALIDATORS` multi-provider list.
 */

var RequiredValidator = /** @class */ (function () {
    function RequiredValidator() {
    }

    Object.defineProperty(RequiredValidator.prototype, "required", {
        /**
         * @description
         * Tracks changes to the required attribute bound to this directive.
         */
        get: function () { return this._required; },
        set: function (value) {
            this._required = value != null && value !== false && "" + value !== 'false';
            if (this._onChange)
                this._onChange();
        },
        enumerable: true,
        configurable: true
    });

    RequiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.required(control) : null;
    };

    RequiredValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };

    __decorate([core.Input()], RequiredValidator.prototype, "required", void 0);

    RequiredValidator = __decorate([core.Directive({
        selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][ngModel]',
        providers: [REQUIRED_VALIDATOR]
    }),
        __attr('required')
    ], RequiredValidator.prototype, "required", null);

    RequiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.required(control) : null;
    };

    __decorate([core.Input()], RequiredValidator.prototype, "required", void 0);

    RequiredValidator = __decorate([core.Directive({
        selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][ngModel]',
        providers: [REQUIRED_VALIDATOR]
    }),
        __attr('required'),
        __param(fn)
    ], RequiredValidator.prototype, "required", fn);

    RequiredValidator.prototype.registerOnValidatorChange = function (fn) {
        this._on_change = fn;
    };

    RequiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.required(control) : null;
    };
Validation](guide/form-validation)

```javascript
Validation\n
```
/** @class */ (function () {
    function MinLengthValidator() {
    }
    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For internal use
     * only.
     * @param changes A object of key/value pairs for the set of changed inputs.
     * @return Returns the validation result if enabled, otherwise null.
     */
    MinLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('minlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value meets a minimum length requirement.
     * @return Returns the validation result if enabled, otherwise null.
     */
    MinLengthValidator.prototype.validate = function (control) {
        return this.minlength == null ? null : this._validator(control);
    };
    /**
     * @description
     * Registers a callback function to call when the validator inputs change.
     * @param fn The callback function
     */
    MinLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    MinLengthValidator.prototype._createValidator = function () {
        this._validator = Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
    };
    __decorate([core.Input(), __metadata("design:type", Object)], MinLengthValidator.prototype, "minlength", void 0);
    MinLengthValidator = __decorate([core.Directive({
                selector: 'input[formControlName], input[formControl], input[ngModel], input[maxlength]',
                providers: [MIN_LENGTH_VALIDATOR],
                host: { '[attr.minlength]': 'minlength ? minlength : null '}
            })], MinLengthValidator);
    return MinLengthValidator;
});

/**
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * ### Adding a maximum length validator
 *
 * The following example shows how to add a maximum length validator to an input attached to an
 * `ngModel` binding.
 *
 * ```html
 * <input name="firstName" ngModel maxlength="25">
 * ```
 *
 * @ngModule
 * ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
MaxLengthValidator = /** @class */ (function () {
    function MaxLengthValidator() {
    }
    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For internal use
     * only.
     * @param changes A object of key/value pairs for the set of changed inputs.
     * @return Returns the validation result if enabled, otherwise null.
     */
    MaxLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('maxlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value exceeds the maximum length requirement.
     * @return Returns the validation result if enabled, otherwise null.
     */
    MaxLengthValidator.prototype.validate = function (control) {
        return this.maxlength != null ? this._validator(control) : null;
    };
    /**
     * @description
     * Registers a callback function to call when the validator inputs change.
     * @param fn The callback function
     */
    MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    MaxLengthValidator.prototype._createValidator = function () {
        this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
    };
    __decorate([core.Input(), __metadata("design:type", Object)], MaxLengthValidator.prototype, "maxlength", void 0);
    MaxLengthValidator = __decorate([core.Directive({
                selector: 'input[formControlName], input[formControl], input[ngModel], input[maxlength]',
                providers: [MAX_LENGTH_VALIDATOR],
                host: { '[attr.maxlength]': 'maxlength ? maxlength : null '}
            })], MaxLengthValidator);
    return MaxLengthValidator;
});

/**
 * @description
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * ### Adding a pattern validator
 *
 * The following example shows how to add a pattern validator to an input with a regular
 * expression.
 *
 * ```html
 * <input name="email" ngModel pattern="^[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$">
 * ```
 *
 * @ngModule
 * ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
PatternValidator = /** @class */ (function () {
    function PatternValidator() {
    }
    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For internal use
     * only.
     * @param changes A object of key/value pairs for the set of changed inputs.
     * @return Returns the validation result if enabled, otherwise null.
     */
    PatternValidator.prototype.ngOnChanges = function (changes) {
        if ('pattern' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value matches the pattern requirement.
     * @return Returns the validation result if enabled, otherwise null.
     */
    PatternValidator.prototype.validate = function (control) {
        return this.pattern == null ? null : this._validator(control);
    };
    /**
     * @description
     * Registers a callback function to call when the validator inputs change.
     * @param fn The callback function
     */
    PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    PatternValidator.prototype._createValidator = function () {
        this._validator = Validators.pattern(typeof this.pattern === 'string' ? this.pattern : null);
    };
    __decorate([core.Input(), __metadata("design:type", Object)], PatternValidator.prototype, "pattern", void 0);
    PatternValidator = __decorate([core.Directive({
                selector: 'input[formControlName], input[formControl], input[ngModel], input[pattern]',
                providers: [PATTERN_VALIDATOR],
                host: { '[attr.pattern]': 'pattern ? pattern : null '}
            })], PatternValidator);
    return PatternValidator;
});
A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value. The directive is provided with the `NG_VALIDATORS` multi-provider list. The following example shows how to add a pattern validator to an input attached to an ngModel binding.

```html
<input name="firstName" ngModel pattern="^[a-zA-Z ]*$">
```

### Adding a pattern validator

```html
<input name="firstName" ngModel pattern="^[a-zA-Z ]*$">
```

```html
<
```
* @param options Configuration options object for the `FormGroup`. The object can
  have two shapes:

  1. `AbstractControlOptions` object (preferred), which consists of:
     * `validators`: A synchronous validator function, or an array of validator functions.
     * `asyncValidators`: A single async validator or array of async validator functions.
   * `updateOn`: The event upon which the control should be updated (options: `change` | `blur` | `submit`).
     * `asyncValidator`: A synchronous validator function, or an array of validator functions.

   2. Legacy configuration object, which consists of:
     * `'validator': A synchronous validator function, or an array of validator functions.

   FormBuilder.prototype.group = function (controlsConfig, options) {
       var controls = this._reduceControls(controlsConfig);
       var validators = null;
       var asyncValidators = null;
       var updateOn = undefined;
       if (options != null) {
           return new FormGroup(controls, {
               asyncValidators: asyncValidators,
               updateOn: updateOn,
               validators: validators
           });
       }
   
   FormBuilder.prototype.control = function (formState, validatorOrOpts, asyncValidator) {
       return new FormControl(formState, validatorOrOpts, asyncValidator);
   }

   FormBuilder.prototype.array = function (controlsConfig, options) {
       return new FormArray(controlsConfig, validatorOrOpts, asyncValidator);
   }

   FormBuilder.prototype._createControl = function (controlConfig) {
       if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup ||
           controlConfig instanceof FormArray) {
           return controlConfig;
       } else if (Array.isArray(controlConfig)) {
           var value = controlConfig[0];
           var validator = controlConfig.length > 1 ? controlConfig[1] : null;
           var asyncValidator = controlConfig[2] != null ?
               this.control(value, validator, asyncValidator) : null;
           var this = this;
           var controls = this._reduceControls(controlConfig);
           var keys = Object.keys(controlConfig).forEach(function (controlName) {
               var controls = this._createControl(controlsConfig[controlName]);
           });
           return new FormArray(controls, validatorOrOpts, asyncValidator);
       } else if (controlConfig instanceof FormArray) {
           return controlConfig;
       }
   }

   FormBuilder.prototype._reduceControls = function (controlsConfig) {
       var _this = this;
       var controls = controlsConfig.map(function (c) {
           return _this._createControl(c);
       });
       return new FormArray(controls, validatorOrOpts, asyncValidator);
   }

   FormBuilder.prototype._createControl = function (controlConfig) {
       var this = this;
       var controls = controlConfig.map(function (c) {
           return _this._createControl(c);
       });
   }

   FormBuilder.prototype._reduceControls = function (controlsConfig) {
       var _this = this;
       var controls = controlsConfig.map(function (c) {
           return _this._createControl(c);
       });
   }

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   */
   */
   */
```javascript
    var VERSION = new core.Version('9.0.7');

    /**
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     * found in the LICENSE file at https://angular.io/license
     */

    /**
     * Exports the required providers and directives for template-driven forms,
     * making them available for import by NgModules that import this module.
     *
     * @see [Forms Guide](guide/forms)
     *
     * @publicApi
     */
    var FormsModule = /** @class */ (function () {
        function FormsModule() {
        }
        FormsModule = __decorate(
            [core.NgModule({
                declarations: TEMPLATE_DRIVEN_DIRECTIVES,
                providers: [RadioControlRegistry],
                exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
            })
        ], FormsModule);
        return FormsModule;
    }());

    /**
     * Exports the required infrastructure and directives for reactive forms,
     * making them available for import by NgModules that import this module.
     * @see [Forms](guide/reactive-forms)
     * @see [Reactive Forms Guide](/guide/reactive-forms)
     *
     * @publicApi
     */
    var ReactiveFormsModule = /** @class */ (function () {
        function ReactiveFormsModule() {
        }
        ReactiveFormsModule = __decorate(
            [core.NgModule({
                declarations: REACTIVE_DRIVEN_DIRECTIVES,
                providers: [FormBuilder, RadioControlRegistry],
                exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
            })
        ], ReactiveFormsModule);
        return ReactiveFormsModule;
    }());

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     * found in the LICENSE file at https://angular.io/license
     */

    /**
     * Generated bundle index. Do not edit.
     */

    exports.AbstractControl = AbstractControl;
    exports.COMPOSITION_BUFFER_MODE = COMPOSITION_BUFFER_MODE;
    exports.CheckboxControlValueAccessor = CheckboxControlValueAccessor;
    exports.CheckboxRequiredValidator = CheckboxRequiredValidator;
    exports.CheckboxValueAccessor = CheckboxValueAccessor;
    exports.CheckboxValueAccessor = CheckboxValueAccessor;
    exports.CheckboxValueAccessor = CheckboxValueAccessor;
    exports.CheckboxValueAccessor = CheckboxValueAccessor;
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    exports.CheckboxValueAccessor = CheckboxValueAccessor;
    exports.CheckboxValueAccessor = CheckboxValueAccesso
exports.NumberValueAccessor = NumberValueAccessor;
exports.PatternValidator = PatternValidator;
exports.RangeValueAccessor = RangeValueAccessor;
exports.RadioControlValueAccessor = RadioControlValueAccessor;
exports.RequiredValidator = RequiredValidator;
exports.SelectControlValueAccessor = SelectControlValueAccessor;
exports.SelectMultipleControlValueAccessor = SelectMultipleControlValueAccessor;
exports.VERSION = VERSION;
exports.Validators = Validators;
exports.NgNoValidate = NgNoValidate;
exports.NgSelectMultipleOption = NgSelectMultipleOption;
exports.angular_packages_forms_forms_a = SHARED_FORM_DIRECTIVES;
exports.angular_packages_forms_forms_b = TEMPLATE_DRIVEN_DIRECTIVES;
exports.angular_packages_forms_forms_ba = CHECKBOX_REQUIRED_VALIDATOR;
exports.angular_packages_forms_forms_bb = EMAIL_VALIDATOR;
exports.angular_packages_forms_forms_bc = MIN_LENGTH_VALIDATOR;
exports.angular_packages_forms_forms_bd = MAX_LENGTH_VALIDATOR;
exports.angular_packages_forms_forms_be = RADIO_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_bf = CheckboxValueAccessor;
exports.angular_packages_forms_forms_bg = AbstractControlStatus;
exports.angular_packages_forms_forms_bh = NgControlStatusHost;
exports.angular_packages_forms_forms_bi = formDirectiveProvider;
exports.angular_packages_forms_forms_bj = formControlBinding;
exports.angular_packages_forms_forms_bl = modelGroupProvider;
exports.angular_packages_forms_forms_bm = RADIO_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_bn = RadioControlRegistry;
exports.angular_packages_forms_forms_bo = RANGE_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_bp = REQUIRED_VALIDATOR;
Object.defineProperty(exports, '__esModule', { value: true });

//# sourceMappingURL=forms.umd.js.map

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js.map
No license file was found, but licenses were detected in source scan.

["version":3,"file":"forms.js","sources":[]]
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```
export interface ControlValueAccessor {

  /**
   * @description
   * Writes a new value to the element.
   *
   * @param obj
   */
  writeValue(obj: any): void;

  /**
   * @description
   * Registers a callback function that is called by the forms API when
   * the control's value
   * changes in the UI.
   *
   * This method is called by the forms API on initialization to update the form
   * model when values propagate from the view to the model.
   *
   * The new value for the element
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function is
   * called by the forms API when
   * the control's value
   * changes in the UI.
   *
   * This method is called by the forms API on initialization to update the form
   * model when values propagate from the view to the model.
   *
   * The new value for the element
   */
  registerOnTouched(fn: any): void;

  /**
   * @description
   * Function that is called by the forms API when
   * the control's value
   * changes in the UI.
   *
   * This method is called by the forms API on initialization to update the form
   * model when values propagate from the view to the model.
   *
   * The new value for the element
   */
  setDisabledState?(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /**
   * @description
   * Function that is called by the forms API when
   * the control's value
   * changes in the UI.
   *
   * This method is called by the forms API on initialization to update the form
   * model when values propagate from the view to the model.
   *
   * The new value for the element
   */
  registerOnTouched(fn: any): void {
    this._onTouched = fn;
  }

  /**
   * @description
   * Function that is called by the forms API when
   * the control's value
   * changes in the UI.
   *
   * This method is called by the forms API on initialization to update the form
   * model when values propagate from the view to the model.
   *
   * The new value for the element
   */
  registerOnChange(fn: (_: any) => void): void {
    this._onChange = fn;
  }
}
```

---

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void;

used to provide a `ControlValueAccessor` for form controls.

See 'DefaultValueAccessor' for how to implement one.

`NG_VALUE_ACCESSOR` is a new `InjectionToken<ControlValueAccessor>()`.

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```typescript
import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

export const CHECKBOX_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => CheckboxControlValueAccessor),
  multi: true,
};

/**
 * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input.
 * @description
 * The registered callback function called when a change event occurs on the input element.
 * @param value The checked value
 */
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}

/**
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

/**
 * Registers a function called when the control is touched.
 * @param fn The callback function
 */
registerOnTouched(fn: () => {}): void { this.onTouched = fn; }

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
 * The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
 * The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @param value The checked value
 */
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}

/**
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

/**
 * Registers a function called when the control is touched.
 * @param fn The callback function
 */
registerOnTouched(fn: () => {}): void { this.onTouched = fn; }

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
 * The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
 * The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @param value The checked value
 */
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}

/**
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

/**
 * Registers a function called when the control is touched.
 * @param fn The callback function
 */
registerOnTouched(fn: () => {}): void { this.onTouched = fn; }

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
 * The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
 * The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @param value The checked value
 */
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}

/**
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

/**
 * Registers a function called when the control is touched.
 * @param fn The callback function
 */
registerOnTouched(fn: () => {}): void { this.onTouched = fn; }

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
import { Observable } from 'rxjs';
import { AbstractControl } from '../model';
import { ValidationErrors } from './validators';

/**
 * @description
 * Base class for control directives.
 *
 * This class is only used internally in the `ReactiveFormsModule` and the `FormsModule`.
 *
 * @publicApi
 */
export abstract class AbstractControlDirective {
  /**
   * @description
   * A reference to the underlying control.
   *
   * @returns the control that backs this directive. Most properties fall through to that
   * instance.
   */
  abstract get control(): AbstractControl|null;

  /**
   * @description
   * Reports the value of the control if it is present, otherwise null.
   */
  get value(): any { return this.control ? this.control.value : null; }

  /**
   * @description
   * Reports whether the control is valid. A control is considered valid if no validation errors
   * exist with the current value.
   * If the control is not present, null is returned.
   */
  get valid(): boolean|null { return this.control ? this.control.valid : null; }

  /**
   * @description
   * Reports whether the control is invalid, meaning that an error exists in the input value.
   * If the control is not present, null is returned.
   */
  get invalid(): boolean|null { return this.control ? this.control.invalid : null; }

  /**
   * @description
   * Reports whether a control is pending, meaning that that async validation is occurring and
   * errors are not yet available for the input value. If the control is not present, null is returned.
   */
  get pending(): boolean|null { return this.control ? this.control.pending : null; }

  /**
   * @description
   * Reports whether the control is disabled, meaning that the control is disabled in the
   * UI and is exempt from validation checks and excluded from aggregate values of ancestor controls. If the control is not present, null is returned.
   */
  get disabled(): boolean|null { return this.control ? this.control.disabled : null; }

  /**
   * @description
   * Reports whether the control is enabled, meaning that the control is included in ancestor
   * calculations of validity or value. If the control is not present, null is returned.
   */
  get enabled(): boolean|null { return this.control ? this.control.enabled : null; }
}
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```typescript
import {AbstractControlDirective} from...
import {Form} from './form_interface';

/**
 * @description
 * A base class...
 */

import {AbstractControlDirective} from...

get valueChanges(): any {
  return this.control ? this.control.valueChanges : null;
}

/**
 * @description
 * Returns a multicasting observable that emits a validation status whenever it is...
 * @returns Returns an array that represents the path from the top-level form to the control.
 */

@@ -929,7 +929,7 @@
    return this.control ? this.control.valueChanges : null;
  }

  /**
-   * @description
+   * @description
   * Reports whether the control is pristine, meaning that the user has not yet changed...
 * value in the UI. If the control is not present, null is returned.
* 
```
@publicApi
export abstract class ControlContainer extends AbstractControlDirective {
  /**
   * The name for the control
   */
  name: string | number | null;

  /**
   * The path to this group.
   */
  path: string[] | null;

  /**
   * The top-level form directive for the control.
   */
  formDirective: FormDirective | null;

  /**
   * The parent form for the control.
   */
  parentForm: ControlContainer | null;

  /**
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor | null;

  /**
   * The uncomposed array of synchronous validators for the control
   */
  rawValidators: Array<Validator | ValidatorFn> = [];

  /**
   * The uncomposed array of async validators for the control
   */
  rawAsyncValidators: Array<AsyncValidator | AsyncValidatorFn> = [];

  /**
   * The registered synchronous validator function for the control
   */
  validator: ValidatorFn | null = null;

  /**
   * The registered async validator function for the control
   */
  asyncValidator: AsyncValidatorFn | null = null;

  /**
   * The callback method to update the model from the view when requested
   */
  viewToModelUpdate(newValue: any): void;
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

/**
 * @description
 * A base class that all control FormControl-based directives extend. It binds a FormControl object to a DOM element.
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * The parent form for the control.
   */
  parentForm: ControlContainer | null = null;

  /**
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor | null = null;

  /**
   * The uncomposed array of synchronous validators for the control
   */
  rawValidators: Array<Validator | ValidatorFn> = [];

  /**
   * The uncomposed array of async validators for the control
   */
  rawAsyncValidators: Array<AsyncValidator | AsyncValidatorFn> = [];

  /**
   * The registered synchronous validator function for the control
   */
  validator: ValidatorFn | null = null;

  /**
   * The registered async validator function for the control
   */
  asyncValidator: AsyncValidatorFn | null = null;

  /**
   * The callback method to update the model from the view when requested
   */
  viewToModelUpdate(newValue: any): void;
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, Self} from '@angular/core';

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {NgControl} from './ng_control';

export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes valid/invalid/dirty/etc.
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]', host: ngControlStatusHost})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) {
    super(cd);
  }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes based on control status
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]', host: ngControlStatusHost})
export class NgControlGroupStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) {
    super(cd);
  }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes based on control status
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]', host: ngControlStatusHost})
export class NgControlGroupStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) {
    super(cd);
  }
}
```typescript
@NgModule({
  FormsModule
} * @publicApi
 * @NgModule({
  // ...
})
@Directive({
  selector:
    `[formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm],
    host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) {
    super(cd);
  }
}

/**
 * @license
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 *
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 */

import {InjectionToken, Observable as isObservable, Promise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or `foo.com`.
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)) and
 * - A `label` cannot begin or end with a dash (`-`) or a period (`.`) and
 * - The whole address cannot be longer than 254 characters.
 *
 * ## Implementation
 *
 * This regexp was ported over from AngularJS (see there for git history):
 * https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27
 * It is based on the
 * [WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).
 *
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
 */
const EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9\-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9](?:[a-zA-Z0-9\-]{0,61}[a-zA-Z0-9])?)*$/;

/**
 * @description
 * Provides a set of built-in validators that can be used by form controls.
 *
 * A validator is a function that processes a `FormControl` or collection of controls and returns an error map or null. A null map means that validation has passed.
 *
 * @see [Form Validation](/guide/form-validation)
 *
 * @publicApi
 */
export class Validators {
  /**
   *
   * @description
   * Validator that requires the control's value to be greater than or equal to the provided number.
   *
   * @usageNotes
   *
   * ### Validate against a minimum of 3
   *
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * console.log(control.errors); // {min: {min: 3, actual: 2}}
   * ```
   *
   * @returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static min(min: number): ValidatorFn {
    return (control:
```
AbstractControl): ValidationErrors | null => {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  const value = parseFloat(control.value);
  // Controls with NaN values after parsing should be treated as not having a
  // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
  return isNaN(value) && & value < min ? {'min': {'min': min, 'actual': control.value}} : null;
}

static max(max: number): ValidatorFn {
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value = parseFloat(control.value);
    // Controls with NaN values after parsing should be treated as not
    // having a maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max
    return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
  };

  static required(control: AbstractControl): ValidationErrors | null {
    return isEmptyInputValue(control.value) ? {'required': true} : null;
  }

  static requiredTrue(control: AbstractControl): ValidationErrors | null {
    return control.value === true ? null : {'required': true};
  }

  static email(control: AbstractControl): ValidationErrors | null {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    return EMAIL_REGEXP.test(control.value) ? null : {'email': true};
  }

  static minLength(minLength: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const length = control.value.length;
      // Controls with NaN values after parsing should be treated as not having a
      // minimum length, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
      return length < minLength ? {'minlength': {'minlength': minLength, 'actual': control.value}} : null;
    };
  }

  static maxLength(maxLength: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const length = control.value.length;
      // Controls with NaN values after parsing should be treated as not having a
      // maximum length, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max
      return length > maxLength ? {'maxlength': {'maxlength': maxLength, 'actual': control.value}} : null;
    };
  }

  static pattern(pattern: string): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = control.value;
      // Controls with NaN values after parsing should be treated as not having a
      // pattern, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-pattern
      return !EMAIL_REGEXP.test(value) ? {'pattern': {'pattern': pattern, 'actual': value}} : null;
    };
  }

  static compare(control: AbstractControl, cmp: any, message: string): ValidatorFn {
    return (control2: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(control2.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = control.value;
      // Controls with NaN values after parsing should be treated as not having a
      // comparison, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-compare
      return value.toString() !== cmp.toString() ? {'compare': {'message': message, 'expected': cmp, 'actual': value}} : null;
    };
  }

  static validate(control: AbstractControl): ValidationErrors | null {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value = control.value;
    // Controls with NaN values after parsing should be treated as not having a
    // validation, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-validate
    return validateValueAndValidity(control.value) ? null : {'validate': {'validate': value}};
  }

  static validators(): ValidatorFn[] {
    return [Validators.required, Validators.minLength(minLength), Validators.maxLength(maxLength), Validators.pattern(pattern), Validators.email, Validators.compare(control, cmp, message), Validators.validate(control)];
  }
}

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AsyncValidatorFn[] = validators.filter(isPresent) as any;\n if (presentValidators.length == 0) return null;\n\n
return function(control: AbstractControl) {\n
const observables = _executeAsyncValidators(control,
presentValidators).map(toObservable);\n return forkJoin(observables).pipe(map(_mergeErrors));\n };\n
}\n}\n\nfunction isPresent(o: any): boolean {\n return o != null;\n}\n\nexport function toObservable(r: any):
Observable<any> {\n const obs = isPromise(r) ? from(r) : r;\n if (!(isObservable(obs))) {\n throw new
Error(`Expected validator to return Promise or Observable.`);\n }\n return obs;\n}\n\nfunction
_executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {\n return validators.map(v =>
v(control));\n}\n\nfunction _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]):
any[] {\n return validators.map(v => v(control));\n}\n\nfunction _mergeErrors(arrayOfErrors: ValidationErrors[]):
ValidationErrors|null {\n let res: {[key: string]: any} = {};\n\n // Not using Array.reduce here due to a Chrome 80
bug\n // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982\n arrayOfErrors.forEach((errors:
ValidationErrors | null) => {\n res = errors != null ? {...res !, ...errors} : res !;\n });\n\n return
Object.keys(res).length === 0 ? null : res;\n}\n","/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nimport {AbstractControl} from '../model';\nimport {AsyncValidator,
AsyncValidatorFn, Validator, ValidatorFn} from './validators';\n\nexport function normalizeValidator(validator:
ValidatorFn | Validator): ValidatorFn {\n if ((<Validator>validator).validate) {\n return (c: AbstractControl) =>
(<Validator>validator).validate(c);\n } else {\n return <ValidatorFn>validator;\n }\n}\n\nexport function
normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator):\n AsyncValidatorFn {\n if
((<AsyncValidator>validator).validate) {\n return (c: AbstractControl) =>
(<AsyncValidator>validator).validate(c);\n } else {\n return <AsyncValidatorFn>validator;\n }\n}\n","/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MITstyle license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
ElementRef, Renderer2, forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor,
NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const NUMBER_VALUE_ACCESSOR:
any = {\n provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => NumberValueAccessor),\n multi:
true\n};\n\n/**\n * @description\n * The `ControlValueAccessor` for writing a number value and listening to
number input changes.\n * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel`\n * directives.\n *\n * @usageNotes\n *\n * ### Using a number input with a reactive form.\n *\n * The
following example shows how to use a number input with a reactive form.\n *\n * ```ts\n * const totalCountControl
= new FormControl();\n * ```\n *\n * ```\n * <input type=\"number\" [formControl]=\"totalCountControl\">\n * ```\n
*\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({\n
selector:\n
'input[type=number][formControlName],input[type=number][formControl],input[type=number][ngModel]',\n host:
{\n '(change)': 'onChange($event.target.value)',\n '(input)': 'onChange($event.target.value)',\n '(blur)':
'onTouched()'\n },\n providers: [NUMBER_VALUE_ACCESSOR]\n})\nexport class NumberValueAccessor
implements ControlValueAccessor {\n /**\n * @description\n * The registered callback function called when a
change or input event occurs on the input\n * element.\n */\n onChange = (_: any) => {};\n\n /**\n *
@description\n * The registered callback function called when a blur event occurs on the input element.\n */\n
onTouched = () => {};\n\n constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}\n\n
/**\n * Sets the \"value\" property on the input element.\n *\n * @param value The checked value\n */\n
writeValue(value: number): void {\n // The value needs to be normalized for IE9, otherwise it is set to 'null' when
null\n const normalizedValue = value == null ? '' : value;\n
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n }\n\n /**\n *
@description\n * Registers a function called when the control value changes.\n *\n * @param fn The callback
function\n */\n registerOnChange(fn: (_: number|null) => void): void {\n this.onChange = (value) => { fn(value
== '' ? null : parseFloat(value)); };\n }\n\n /**\n * @description\n * Registers a function called when the control
is touched.\n *\n * @param fn The callback function\n */\n registerOnTouched(fn: () => void): void {

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this.onTouched = fn; }\n
/**\n * Sets the "disabled" property on the input element.\n * @param isDisabled The disabled value\n * @param setDisabledState(isDisabled: boolean): void {\n * this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n * }\n */

/**\n * Sets the "disabled" property on the input element.\n *\n * @param isDisabled The disabled value\n * @param setDisabledState(isDisabled: boolean): void {\n * this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n * }\n */

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import {Directive, ElementRef, Injectable,\n    Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '@angular/forms';\n
export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**\n * @description\n * Class used by Angular to track radio buttons. For internal use only.\n */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**\n   * @description\n   * Adds a control to the internal registry. For internal use only.\n   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**\n   * @description\n   * Removes a control from the internal registry. For internal use only.\n   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
        return;
      }
    }
  }

  /**\n   * @description\n   * Selects a radio button. For internal use only.\n   */
  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(
      controlPair: [NgControl, RadioControlValueAccessor],
      accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0]._parent === accessor._control._parent &&
        controlPair[1].name === accessor.name;
  }
}

/**\n * @description\n * The `ControlValueAccessor` for writing radio control values and listening to radio\n * control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and\n * `NgModel` directives.\n *\n * @usageNotes\n *\n * ### Using radio buttons with reactive form directives\n *\n * The following example shows how to use radio buttons in a reactive form. When using radio buttons in\n * a reactive form, radio buttons in the same group should have the same `formControlName`. Providing a `name` attribute is\n * optional.\n *\n * @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'\n */
@Directive({\n  selector: 'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor,\n    OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state !: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control !: NgControl;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _fn !: Function;

  /**\n   * The registered callback function called when a change event occurs on the input element.\n   */
  onChange = () => {};

  /**\n   * The registered callback function called when a blur event occurs on the input element.\n   */
  onTouched = () => {};

  /**\n   * Tracks the name\n   */
  // TODO(issue/24571): remove '!'.
  @Input() name !: string;

  /**\n   * Tracks the name of the `FormControl` bound to the directive. The name corresponds\n   * to a key in the parent `FormGroup` or `FormArray`.\n   */
  // TODO(issue/24571): remove '!'.
  @Input() formControlName !: string;

  /**\n   * Tracks the value of the radio input element\n   */
  @Input() value: any;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

  /**\n   * A lifecycle\n   */
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  /**\n   * Lifecycle method called before the directive's instance is destroyed. For internal use only.\n   */
  ngOnDestroy(): void {
    this._registry.remove(this);
  }

  /**\n   * Sets the 'checked' property value on the radio input element.\n   */
  setDisabledState(isDisabled: boolean): void {\n    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n  }
}
this._state);\n }\n\n /**\n * @description\n * Registers a function called when the control value changes.\n *\n
* @param fn The callback function\n */\n registerOnChange(fn: (_: any) => {}): void {\n this._fn = fn;\n
this.onChange = () => {\n
fn(this.value);\n
this._registry.select(this);\n };\n }\n\n /**\n * Sets the \"value\"
on the radio input element and unchecks it.\n *\n * @param value\n */\n fireUncheck(value: any): void {
this.writeValue(value); }\n\n /**\n * @description\n * Registers a function called when the control is touched.\n
*\n * @param fn The callback function\n */\n registerOnTouched(fn: () => {}): void { this.onTouched = fn; }\n\n
/**\n * Sets the \"disabled\" property on the input element.\n *\n * @param isDisabled The disabled value\n
*/\n setDisabledState(isDisabled: boolean): void {\n this._renderer.setProperty(this._elementRef.nativeElement,
'disabled', isDisabled);\n }\n\n private _checkName(): void {\n if (this.name && this.formControlName &&
this.name !== this.formControlName) {\n
this._throwNameError();\n }\n if (!this.name &&
this.formControlName) this.name = this.formControlName;\n }\n\n private _throwNameError(): void {\n throw
new Error(`\n
If you define both a name and a formControlName attribute on your radio button, their values\n
must match. Ex: <input type=\"radio\" formControlName=\"food\" name=\"food\">\n `);\n }\n}\n","/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MITstyle license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
ElementRef, Renderer2, StaticProvider, forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor,
NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const RANGE_VALUE_ACCESSOR:
StaticProvider = {\n provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() =>
RangeValueAccessor),\n multi: true\n};\n\n/**\n * @description\n * The `ControlValueAccessor` for writing a
range value and listening to range input changes.\n * The value accessor is used by the `FormControlDirective`,
`FormControlName`, and `NgModel`\n * directives.\n *\n * @usageNotes\n *\n * ### Using a range input with a
reactive form\n *\n * The following example shows how to use a range input with a reactive form.\n *\n * ```ts\n *
const ageControl = new FormControl();\n * ```\n *\n * ```\n * <input type=\"range\"
[formControl]=\"ageControl\">\n * ```\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n
* @publicApi\n */\n@Directive({\n selector:\n
'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',\n host: {\n
'(change)': 'onChange($event.target.value)',\n '(input)': 'onChange($event.target.value)',\n '(blur)':
'onTouched()'\n },\n providers: [RANGE_VALUE_ACCESSOR]\n})\nexport class RangeValueAccessor
implements ControlValueAccessor {\n /**\n * @description\n * The registered callback function called when a
change or input event occurs on the input\n * element.\n */\n onChange = (_: any) => {};\n\n /**\n *
@description\n * The registered callback function called when a blur event occurs on the input element.\n */\n
onTouched = () => {};\n\n constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}\n\n
/**\n * Sets the \"value\" property on the input element.\n *\n * @param value The checked value\n */\n
writeValue(value: any): void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'value',
parseFloat(value));\n }\n\n /**\n * @description\n * Registers a function called when the control value
changes.\n *\n * @param fn The callback function\n */\n registerOnChange(fn: (_: number|null) => void): void
{\n this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };\n }\n\n /**\n * @description\n *
Registers a function called when the control is touched.\n *\n * @param fn The callback function\n */\n
registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n\n /**\n * Sets the \"disabled\" property on the
range input element.\n *\n * @param isDisabled The disabled value\n */\n setDisabledState(isDisabled:
boolean): void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n
}\n}\n","/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nexport const FormErrorExamples = {\n formControlName: `\n <div [formGroup]=\"myGroup\">\n
<input formControlName=\"firstName\">\n </div>\n\n In your class:\n\n this.myGroup = new FormGroup({\n
firstName: new FormControl()\n });`,\n\n formGroupName: `\n <div [formGroup]=\"myGroup\">\n
<div
formGroupName=\"person\">\n
<input formControlName=\"firstName\">\n
</div>\n </div>\n\n In
your class:\n\n this.myGroup = new FormGroup({\n
person: new FormGroup({ firstName: new FormControl()

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reactive form

* Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

* To customize the default option comparison algorithm, `<select>` supports `compareWith` input.

* `compareWith` takes a function which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects option by the return value of the function.

```ts
const selectedCountriesControl = new FormControl();
```
* @description
  * Marks `<option>` as dynamic, so Angular can be notified when options change.

  @see
  * `SelectControlValueAccessor` * @ngModule ReactiveFormsModule
  * @ngModule FormsModule
  * @publicApi
  * @annotation Directive({ selector: 'option' })

  * export class NgSelectOption implements OnDestroy {
    * @constructor
    * private _element: ElementRef, private _renderer: Renderer2
    * @Optional() @Host() private _select: SelectControlValueAccessor
    * if (this._select) this.id = this._select.registerOption(this);
    * @description
    * ID of the option element
    * @ngModule ReactiveFormsModule
    * @ngModule FormsModule
    * @publicApi
    * */

    @Directive({selector: 'option'})
    export class NgSelectOption implements OnDestroy {
      /**
       * @description
       * ID of the option element
       */
      // TODO(issue/24571): remove '!'.
      id!: string;

      constructor(
          private _element: ElementRef, private _renderer: Renderer2,
          @Optional() @Host() private _select: SelectControlValueAccessor) {
        if (this._select) this.id = this._select.registerOption(this);
      }

      /**
       * @description
       * Tracks the value bound to the option element. Unlike the value binding, * ngValue supports
       * binding to objects.
       * @Input(*ngValue)
       * set ngValue(value: any) {
       * if (this._select == null) return;
       * this._select.optionMap.set(this.id, value);
       * this._setElementValue(_buildValueString(this.id, value));
       * this._select.writeValue(this._select.value);
       * }
      
      /**
       * @description
       * Tracks simple string values bound to the option element.
       * For objects, use the `ngValue` input binding.
       * @Input(*value)
       * set value(value: any) {
       * this._setElementValue(value);
       * if (this._select) this._select.writeValue(this._select.value);
       * }
      
      /**
      * Lifecycle method called before the directive's instance is
      * destroyed. For internal use only.
      * @ngModule ReactiveFormsModule
      * @ngModule FormsModule
      * @publicApi
      */
      ngOnDestroy(): void {
        if (this._select) {
          this._select.optionMap.delete(this.id);
          this._select.writeValue(this._select.value);
        }
      }
    }

    function _buildValueString(id: string, value: any): string {
      if (id == null) return `${value}`;
      if (typeof value === 'string') value = `'${value}'`;
      if (value && typeof value === 'object') value = 'Object';
      return `${id}: ${value}`.slice(0, 50);
    }

    function _extractId(valueString: string): string {
      return valueString.split(':') [0];
    }

    /** Mock interface for HTML Options */
    interface HTMLOption {
      value: string;
      selected: boolean;
    }

    /** Mock interface for HTMLCollection */
    abstract class HTMLCollection {
      // TODO(issue/24571): remove '!'.
      length!: number;
      abstract item(_: number): HTMLOption;
    }

    /**
     * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
     * control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
     * `NgModel` directives.
     * @usageNotes
     * 
     * ### Using a multi-select control
     * 
     * The follow example shows you how to use a multi-select control with a reactive form.
     *
     *
     * ```ts
     * const countryControl = new FormControl();
     * ```
     *
     * ```
     * <select multiple
     * name="countries" 
     * [formControl]="countryControl">
     *   <option *ngFor="let country of countries"
     * [ngValue]="country">
     *     {{ country.name }}
     * </option>
     * </select>
     * ```
     * 
     * ### Customizing option selection
     *  
     * To customize the default option comparison algorithm, `<select>` supports `compareWith`
     * input.
     * @see SelectControlValueAccessor
     */
    export class SelectMultipleControlValueAccessor implements
      SelectControlValueAccessor, ControlValueAccessor {
      value: any;

      _optionMap: Map<string, any> = new Map();
      _idCounter: number = 0;

      onChange = (_: any) => {};
      onTouched = () => {};

      @Input()
      set compareWith(fn: (o1: any, o2: any) => boolean) {
        if (typeof fn

```typescript
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove '!'.
  id!: string;
  /**
   * @internal */
  _value: any;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks simple string values bound to the option element.
   * For objects, use the `ngValue` input binding.
   */
  @Input('value')
  set value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(_buildValueString(this.id, value));
      this._select.writeValue(this._select.value);
    } else {
      this._setElementValue(value);
    }
  }

  /**
   * @internal */
  _setElementValue(value: string): void {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
  }

  /**
   * @internal */
  _setSelected(selected: boolean) {
    this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
    }
  }
}

export {ɵNgSelectMultipleOption as

```
```
FormArray, dir: AbstractFormGroupDirective | FormArrayName) {\n  if (control == null) _throwError(dir, 'Cannot find control with');\n  control.validator = Validators.compose([control.validator || Validators.empty, dir.reactive]);\n  control.asyncValidator = Validators.composeAsync([control.asyncValidator || Validators.empty, dir.asyncValidator || Validators.empty]);\n}\n\nfunction _noControlError(dir: NgControl) {\n  return _throwError(dir, 'There is no FormControl instance attached to form control element with');\n}\n\nfunction _throwError(dir: AbstractControlDirective, message: string) {\n  let messageEnd: string;\n  if (dir.path != undefined) {\n    if (dir.path.length > 1) {\n      messageEnd = `path: '${dir.path.join(' -> ')}'`;\n    } else if (dir.path !== undefined) {\n      messageEnd = `name: '${dir.path}'`;
    } else { \n      messageEnd = 'unspecified name attribute';\n    }\n  }\n  throw new Error(`${message} ${messageEnd}`);
}\n
export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {\n  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}\n\nexport function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {\n  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}\n
export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {\n  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];\n  if (change.isFirstChange()) return true;\n  return !looseIdentical(viewModel, change.currentValue);
}\n
const BUILTIN_ACCESSORS = [\n  CheckboxControlValueAccessor,\n  RangeControlValueAccessor,\n  NumberValueAccessor,\n  SelectControlValueAccessor,\n  SelectMultipleControlValueAccessor,\n  RadioControlValueAccessor,\n];\n\nexport function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {\n  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}\n\nexport function syncPendingControls(form: FormGroup, directives: NgControl[]): void {\n  form._syncPendingControls();\n  directives.forEach(dir => {\n    const control = dir.control as FormControl;\n    if (control.updateOn === 'submit' && control._pendingChange) {\n      dir.viewToModelUpdate(control._pendingValue);\n      control._pendingChange = false;\n    }
  });\n}\n
// TODO: vsavkin remove it once
export function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {\n  if (!valueAccessors) return null;
  if (!Array.isArray(valueAccessors)) \n    _throwError(dir, 'Value accessor was not provided as an array for form control with');\n  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let builtinAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;
  valueAccessors.forEach((v: ControlValueAccessor) => {\n    if (v.constructor === DefaultValueAccessor) \n      defaultAccessor = v;
    else if (isBuiltInAccessor(v)) \n      if (builtinAccessor) \n        _throwError(dir, 'More than one built-in value accessor matches form control with');\n      else \n        builtinAccessor = v;\n    else \n      if (customAccessor) \n        _throwError(dir, 'More than one custom value accessor matches form control with');\n      else \n        customAccessor = v;
  });\n  if (customAccessor) return customAccessor;\n  if (builtinAccessor) return builtinAccessor;\n  if (defaultAccessor) return defaultAccessor;\n  // No valid value accessor for form control with;\n  return null;\n}\n\nexport function removeDir<T>(list: T[], el: T): void {\n  const index = list.indexOf(el);\n  if (index > -1) list.splice(index, 1);\n}\n// TODO: kara: remove after deprecation period\nexport function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {\n  if (!isDevMode() || warningConfig === 'never') return;\n  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) \n    ReactiveErrors.ngModelWarning(name);
  type._ngModelWarningSentOnce = true;
  instance._ngModelWarningSent = true;
}\n
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid, meaning that no errors exist in the input value.
 * @see \n */
export const VALID = 'VALID';

/**
 * Appends changes to the Observable representing the model it is observing.
 * @param changes
 * @param viewModel
 * @return Observable
 */
export function applyChangesToModel(changes: {[key: string]: any}, viewModel: any): Observable {\n  \n}
* Reports that a FormControl is invalid, meaning that an error exists in the input value.
* @export const INVALID = 'INVALID';
* @see `status`

* Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.
* @see `status`
* @export const PENDING = 'PENDING';
* @see `status`

* Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.
* @see `markAsDisabled`
* @export const DISABLED = 'DISABLED';

* Reports that a FormControl is invalid, meaning that an error exists in the input value.
* @see `status`
*/
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.
 * @see `markAsPending`
 * @see `status`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string | number> | string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0) return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl | null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
        controlToFind.controls[name] :
        null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn | null {
  const validator = isOptionsObj(validatorOrOpts) ?
    (validatorOrOpts as AbstractControlOptions).validators :
    validatorOrOpts as ValidatorFn |
    ValidatorFn[] | null;

  return Array.isArray(validator) ? composeValidators(validator) : validator ||
    null;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn | null {
  const origAsyncValidator = isOptionsObj(validatorOrOpts) ?
    (validatorOrOpts as AbstractControlOptions).asyncValidators :
    asyncValidator as AsyncValidatorFn |
    AsyncValidatorFn | null;

  return Array.isArray(origAsyncValidator) ?
    composeAsyncValidators(origAsyncValidator) :
    origAsyncValidator;
}

export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an `AbstractControl`.
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn | ValidatorFn[] | null;
  /**
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn | AsyncValidatorFn[] | null;
  /**
   * The event name for control to update upon.
   */
  updateOn?: 'change' | 'blur' | 'submit';
}

function isOptionsObj(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&
    typeof validatorOrOpts === 'object';
}

/**
 * This is the base class for FormControl, FormGroup, and FormArray.
 * It provides some of the shared behavior that all controls and groups of controls have, like running validators, calculating status, and resetting state. It also defines the properties that are shared between all sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be instantiated directly.
 * @see [Forms Guide](/guide/forms)
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 * @see [Dynamic Forms Guide](/guide/dynamic-form)
 */
constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}

/**
 * The parent control.
 */

*@
get parent(): FormGroup|FormArray {
  return this._parent;
}*@n

* The validation status of the control. There are four possible validation status values:

* **VALID**: This control has passed all validation checks.

* **INVALID**: This control has failed at least one validation check.

* **PENDING**: This control is in the midst of conducting a validation check.

* **DISABLED**: This control is exempt from validation checks.

* These status values are mutually exclusive, so a control cannot be
  both valid AND invalid or invalid AND disabled.

*/

**Run time, you must call**

* `updateValueAndValidity()` for the new validation to take effect.

/*
 * When you add or remove a validator at run time, you must call
 * overwrites any existing async validators.

* When you add or remove a validator at run time, you must call
 * without passing along

* A control is `disabled` when its `status` is `DISABLED`.

* Disabled controls are exempt from validation checks and
  are not included in the aggregate value of their ancestor controls.

* A control is `pristine` if the user has not yet changed the value in the UI;
  compare `dirty`. A control is `dirty` if the user has changed the value
  in the UI; compare `pristine`.

* A control is `dirty` if the user has not yet changed the value in the UI;
  compare `pristine`.

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  compare `pristine`.

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  compare `pristine`.

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  compare `pristine`.

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  compare `pristine`.

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  compare `pristine`.

* A control is `dirty` if the user has not yet changed the value in the UI;
  compare `pristine`.

* A control is `dirty` if the user has not yet changed the value in the UI;
  compare `pristine`.

*/

**Set the async validators that are active on this control.**

* Sets the async validators that are active on this control.

* When you add or remove a validator at run time, you must call
  without passing along

* A control is `disabled` when its `status` is `DISABLED`.

*/

**Run time, you must call**

* `updateValueAndValidity()` for the new validation to take effect.

/*
coerceToAsyncValidator(newValidator: Validator): void {
  @param opts
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

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  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

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  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

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  marks all direct ancestors. Default is false.

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  and emits events after marking is applied.

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  marks all direct ancestors. Default is false.

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  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

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  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

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  marks all direct ancestors. Default is false.

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  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

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  and emits events after marking is applied.

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  and emits events after marking is applied.

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  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

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  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
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  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.

  @param options
  Configuration options that determine how the control propagates changes*
  and emits events after marking is applied.

  ** `onlySelf`: When true, mark only this control. When false or not supplied, 
  marks all direct ancestors. Default is false.
* If the control has children, all children are also disabled.

@ see: `AbstractControl.status`

* @param opts Configuration options that determine how the control propagates

* changes and emits events after the control is disabled.

* `onlySelf`: True when the control is disabled. When false or not supplied,

* marks all direct ancestors. Default is false.

* `emitEvent`: When true or not supplied (the default), both the

* `statusChanges` and

* `valueChanges` observable emit events with the latest status and value when the

* control is disabled.

* When false, no events are emitted.

* `disable(optim: onlySelf?: boolean, emitEvent?: boolean) = {}): void {} // If parent has been marked artificially dirty we don't want to re-calculate the

// parent's dirtiness based on the children.

const skipPristineCheck = this._parentMarkedDirty(optim.onlySelf);

(this as {status: string}).status = DISABLED;

(this as {errors: ValidationErrors | null}).errors = null;

this._forEachChild((control: AbstractControl) => {
  control.disable(optim); });

if (optim.emitEvent !== false) {
  (this.valueChanges as EventEmitter<any>).emit(this.value);
  (this.statusChanges as EventEmitter<string>).emit(this.status);
}

this._updateAncestors(optim);

// If parent has been marked artificially dirty we don't want to re-calculate the

// parent's dirtiness based on the children.

const skipPristineCheck = this._parentMarkedDirty(optim.onlySelf);

(this as {status: string}).status = VALID;

(this as {errors: ValidationErrors | null}).errors = null;

this._forEachChild((control: AbstractControl) => {
  control.enable(optim); });

this.updateValueAndValidity(optim);

this._updateAncestors(optim);

if (this._parent && !optim.onlySelf) {
  this._parent.updateValueAndValidity(optim);
}

private _updateAncestors(optim: {
  onlySelf?: boolean, emitPristineCheck?: boolean
}) {

  if (this._parent && !optim.onlySelf) {
    this._parent._updatePristine();
    this._parent._updateTouched();
  }

  this._parent.updateValueAndValidity(optim);

  if (optim.skipPristineCheck) {
    this._parent._updatePristine();
  }

  this._parent._updateTouched();

  if (optim.onlySelf) {
    return;
  }

  this._parent.updateValueAndValidity(optim);

  if (optim.skipPristineCheck) {
    this._parent._updatePristine();
  }

  this._parent._updateTouched();

  return;
}

/**
 * Sets the parent of the control.
 */

setParent(parent: FormGroup|FormArray): void {

  this._parent = parent;
}

/**
 * Sets the value of the control. Abstract method (implemented in sub-classes).
 */

setValue(value: any, options?: Object): void;

/**
 * Patch the value of the control. Abstract method (implemented in sub-classes).
 */

patchValue(value: any, options?: Object): void;

/**
 * Recalculates the value and validation status of the control.
 */

reset(value?: any, options?: Object): void;

/**
 * Recalculates the value and validation status of the control.
 */

setInitialStatus(): void;

updateValueAndValidity(optim: {
  onlySelf?: boolean, emitEvent?: boolean
} = {}): void {

  if (this.enabled) {
    this._cancelExistingSubscription();

    (this as {errors: ValidationErrors | null}).errors = null;

    if (this._runAsyncValidator(optim.emitEvent)) {
      (this as {status: string}).status = VALID;
    }

    if (optim.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }

    if (this._parent && !optim.onlySelf) {
      this._parent.updateValueAndValidity(optim);
    }
  }

/**
 * Recalculates the value and validation status of the control.
 */

runAsyncValidator(optim: boolean, emitEvent?: boolean): void {

  if (this.enabled) {
    this._cancelExistingSubscription();

    (this as {errors: ValidationErrors | null}).errors = null;

    if (this._runValidator()) {
      (this as {status: string}).status = VALID;
    }

    if (optim.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }

    if (this._parent && !optim.onlySelf) {
      this._parent.updateValueAndValidity(optim);
    }
  }

  return;
}
console.log(control.value); // 'Drew'
 * @param formState Initializes the control with an initial value,
 * or an object that defines the initial value and disabled state.
 * @param validatorOrOpts A synchronous validator function,
 * or an array of fn's such functions, or an 'AbstractControlOptions' object that contains validation functions
 * and a validation trigger.

* @param asyncValidator A single async validator or array of async validator functions

* constructor(formState: any = null, validatorOrOpts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null, asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null) { super(coerceToValidator(validatorOrOpts),
coerceToAsyncValidator(asyncValidator, validatorOrOpts));
 this._applyFormState(formState);
 this._setUpdateStrategy(validatorOrOpts);
 this.updateValueAndValidity({onlySelf: true, emitEvent: false});
 this._initObservables();

* Sets a new value for the form control.

* @param value The new value for the control.

* @param options Configuration options that determine how the control propagates changes
 * and emits events when the value changes.
 * @configuration options are passed to the

* @link AbstractControl#updateValueAndValidity
 * updateValueAndValidity() method.

* 'onlySelf': When true, each change only affects this control, and not its parent. Default is false.

* 'emitEvent': When true or not supplied (the default), both the 'statusChanges' and

* 'valueChanges' observables emit events with the latest status and value when the control value is updated.

* When false, no events are emitted.

* 'emitModelToViewChange': When true or not supplied (the default), each change triggers an
 * 'onChange'

* `onViewToModelChange`: When true or not supplied (the default), each change triggers an
 * 'ngModelChange'

* event to update the model.

* @param options:
 * @see 'setViewToModelChange'

* @param options:

* 'onlySelf': boolean,

* 'emitEvent': boolean,

* 'emitModelToViewChange': boolean,

* 'emitViewToModelChange': boolean,

* 'emitModelToViewChange': boolean,

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control name to add to the collection
* @param control Provides the control for the given name
* @param addControl(name: string, control: AbstractControl): void
** Remove a control from this group.
* @param name The control name to remove from the collection
* @removeControl(name: string): void
** Remove an existing control.
* @param name The control name to replace in the collection
* @param control Provides the control for the given name
* @setControl(name: string, control: AbstractControl): void
** Replace an existing control.

```typescript
addControl(name: string, control: AbstractControl): void {
    this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
}

removeControl(name: string): void {
    if (this.controls.hasOwnProperty(name))
        delete this.controls[name];
    this.updateValueAndValidity();
    this._onCollectionChange();
}

setControl(name: string, control: AbstractControl): void {
    if (this.controls.hasOwnProperty(name))
        delete this.controls[name];
    if (control) this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
}
```

* @checkCollectionChange(): void
** Checks whether there is an enabled control with the given name in the group.
* @returns false for disabled controls. If you'd like to check for existence in the group
  * @checkForExistence(name: string): boolean
** Returns false for disabled controls, true otherwise.

```typescript
setValue(value: {
* @param value The new value for the control that matches the structure of the group
* @param controlName The control name to check for existence
** Sets the value of the `FormGroup`. It accepts an object that matches
* the structure of the group, with control names as keys.
* @returns boolean
** Sets the complete value for the form group
** Accepts both super-sets and sub-sets of the group without throwing an error.
** When true, each change only affects this control, and not
* its parent. Default is true.
** When true or not supplied (the default), both the
* `statusChanges` and
* `valueChanges` observables emit events with the latest status and value when the
* control value is updated.
** When false, no events are emitted.
** If the control value is already set, it is updated with the new value.
** When false, no events are emitted.
** If the control value is already set, it is updated with the new value.

```typescript
setValue(value: {
* @param value The object that matches the structure of the group.
* @param options Configuration options that determine how the control propagates changes
* and emits events after the value is updated.
** When true, each change only affects this control and not
* its parent. Default is true.
** When true or not supplied (the default), both the
* `statusChanges` and
* `valueChanges` observables emit events with the latest status and value when the
* control value is updated.
** When false, no events are emitted.

```typescript
patchValue(value: {
* @param value The new value for the control that matches the structure of the group
* @param options Configuration options that determine how the control propagates changes
* and emits events after the value is updated.
** When true, each change only affects this control and not
* its parent. Default is true.
** When true or not supplied (the default), both the
* `statusChanges` and
* `valueChanges` observables emit events with the latest status and value when the
* control value is updated.
** When false, no events are emitted.

```typescript
patchValue(value: {
* @param value The object that matches the structure of the group.
* @param options Configuration options that determine how the control propagates changes
* and emits events after the value is updated.
** When true, each change only affects this control and not
* its parent. Default is true.
** When true or not supplied (the default), both the
* `statusChanges` and
* `valueChanges` observables emit events with the latest status and value when the
* control value is updated.
** When false, no events are emitted.
by passing in a map of states. *matches the structure of your form, with control names as keys. The state
* is a standalone value or a form state object with both a value and a disabled status.
* @param value
 Resets the control with an initial value, or an object that defines the initial value and disabled state.
* @param options Configuration options that determine how the control propagates changes and emits events
when the group is reset.
* *onlySelf* : When true, each change only affects this control, and not its parent.

Default is false. *emitEvent* : When true or not supplied (the default), both the `statusChanges` and
'valueChanges' observables emit events with the latest status and value when the control is reset.
* When false, no events are emitted. *The configuration options are passed to the [@link
AbstractControl#updateValueAndValidity](xyAbstractControl#updateValueAndValidity) method.
* *usageNotes*

### Reset

**Reset the form group values**

* Retrieves all values regardless of disabled status.

* The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`.

* `const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});

* `this.controls[name].form.reset(value);`

* `this.controls[name].form.setValue(value);`

* `this.controls[name].form.setValueFromEvent(event);`

* `this.controls[name].form.setValueIFn(valueFn, {onlySelf: true});`

* `this.controls[name].form.setValueIf(event);`

* `this.controls[name].form.setValueIfIf(event);`

* `this.controls[name].form.setValueIfFn(valueFn, {onlySelf: true});`

* `this.controls[name].form.setValueIfFnIf(event);`

* `this.controls[name].form.setValueIfFnIfIf(event);`
 FormGroup` or `FormArray` instances. A `FormArray` aggregates the values of each child `FormControl` into an array. It calculates its status by reducing the status values of its children. For example, if one of its controls in a `FormArray` is invalid, the entire array becomes invalid. `FormArray` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormGroup`.

* A `FormArray` aggregates the values of each child `FormControl` into an array. It calculates its status by reducing the status values of its children. For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.

* You include array-level validators and async validators. These come in handy when you want to perform validation that considers the value of more than one control.

The two types of validators are passed in as the second and third arg respectively, or together as part of an options object.

### Create an array of form controls

```typescript
const arr = new FormArray([new FormControl('Nancy', Validators.minLength(2)), new FormControl('Drew')]);
```

### Create a form array with array-level validators

You include array-level validators and async validators. These come in handy when you want to perform validation that considers the value of more than one child control.

```typescript
const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});
```

### Set the updateOn property for all controls in a form array

The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to "blur" at the array level, all child controls default to 'blur', unless the child has specified a different 'updateOn' value.

### Adding or removing controls from a form array

To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that result in strange and unexpected behavior such as broken change detection.

The two types of validators are passed in as the second and third arg respectively, or together as part of an options object.

### Create an array of form controls

```typescript
const arr = new FormArray([new FormControl('Nancy', Validators.minLength(2)), new FormControl('Drew')]);
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You include array-level validators and async validators. These come in handy when you want to perform validation that considers the value of more than one child control.

```typescript
const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});
```

### Set the updateOn property for all controls in a form array

The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to "blur" at the array level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

### Adding or removing controls from a form array

To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that result in strange and unexpected behavior such as broken change detection.

The two types of validators are passed in as the second and third arg respectively, or together as part of an options object.
error if you try\n  * to set the value of a control that doesn't exist or if you exclude the\n  * value of a control.\n
  * @usageNotes\n  * ### Set the values for the controls in the form array\n  * \n  */

  * const arr = new FormArray([\n    new FormControl(),\n    new FormControl()\n  ]);\n  console.log(arr.value); // [null, null]\n  arr.setValue(['Nancy', 'Drew']);\n  console.log(arr.value); // ['Nancy', 'Drew'] \n
  * @param value Array of values for the controls\n  */

  * The configuration options are passed to the \{@link AbstractControl#updateValueAndValidity\n  updateValueAndValidity\} method.\n
  * @param value Array of latest values for the controls\n  * @param options Configure options that determine how the\n  * control propagates changes and emits events after the value changes\n  * \n  */

  * const arr = new FormArray([\n    new FormControl(),\n    new FormControl()\n  ]);\n  console.log(arr.value); // [null, null]\n  arr.setValue(['Nancy']);\n  console.log(arr.value); // ['Nancy', null] \n
  * @param value Array of latest values for the controls\n  * @param options Configure options that determine how the\n  * control propagates changes and emits events after the value changes\n  * \n  */

  * arr.reset(['name', 'last name']);
  console.log(arr.value); // ['name', 'last name']\n
  * @param options Configure options that determine how the control propagates changes and emits events after the value changes\n  * \n  */

  * the structure of the control. The state is a standalone value\n  * or a form state object with both a value and a disabled status.\n
  * @param value Array of values for the controls\n  * @param options Configure options that determine how the control propagates changes and emits events after the value changes\n  * \n  */

  * The configuration options are passed to the \{@link AbstractControl#updateValueAndValidity\n  updateValueAndValidity\} method.\n
  * @param value Array of latest values for the controls\n  * @param options Configure options that determine how the control propagates changes and emits events after the value changes\n  * \n  */

  * The aggregate value of the array, including any disabled controls.\n  * \n  */
disabled status.

* For enabled controls only, the `value` property is the best way to get the value of the array.

* `getRawValue()`: any[]
  
  return this.controls.map(control: AbstractControl) => {
    return control instanceof FormControl ? control.value : (<any>control).getRawValue();
  }

  /**
   * Remove all controls in the 'FormArray'.
   *
   * @usageNotes
   * # Remove all elements from a FormArray
   *
   * new FormArray().push();
   * new FormArray().push();
   * this.controls.splice(0);
   *
   * It's a simpler and more efficient alternative to removing all elements one by one:
   *
   * this.controls.forEach(control => control.clear());
   */
  clear(): void {
    if (this.controls.length < 1) return;

    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));

    this.controls.splice(0);
    this.updateValueAndValidity();
  }

  /** @internal */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return child._syncPendingControls() ? true : updated;
    }, false);
    if (subtreeUpdated)
      this.updateValueAndValidity({onlySelf: true});
    return subtreeUpdated;
  }

  /** @internal */
  _throwIfControlMissing(index: number): void {
    if (!this.controls.length) {
      throw new Error(`
        There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
    }
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index ${index}`);
    }
  }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }

  // For enabled controls only, the `value` property is the best way to get the value of the array.

  // Get the value of the array.

  // Iterate over the controls and return the value of the FormControl.

  // Clear all controls in the FormArray.

  // Check if all controls are disabled.

  // Register the controls with the FormArray.

  // Check if all controls have a value.

  // Check if all controls are disabled.

  // Register the controls with the FormContainer.

  // Set the parent of the FormContainer.

  // Sync pending controls.

  // Throw if control missing.

  // Set up controls.

  // Check all values present.

  // Check all controls disabled.

  // Register controls with FormContainer.

  // Set the parent of FormContainer.

  // Sync pending controls.


  // Use the FormControl, FormControl, FormGroup, FormHooks from ../model/imports NG_ASYNC_VALIDATORS, NG_VALIDATORS from ../validators/imports ControlContainer from ../control_container/imports Form from ../form_interface/imports NgControl from ../ng_control/imports NgModel from ../ng_model_group/imports [composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls] from ../shared/imports const formDirectiveProvider: any = {
    provide: ControlContainer, useExisting: forwardRef(() => NgForm),
  };

  // Resolve null.

  // Creates a top-level 'FormGroup' instance and binds it to a form

  // to track aggregate form value and validation status.

  // As soon as you import the 'FormsModule', this directive becomes active by default on all `<form>` tags.

  // You don't need to add a special selector.

  // Optionally export the directive into a local template variable using `ngForm` as the key.

  // This is optional, but useful.

  // Many properties from the underlying form are duplicated on the directive itself, so a reference to it gives you access to the aggregate value and validation status of the form, as well as user interaction properties like 'dirty' and 'touched'.

  // To register child controls with the form, use 'NgModel' with a 'name' attribute. You may use 'NgModelGroup' to create sub-groups within the form.

  // If necessary, listen to the directive's 'ngSubmit' event to be notified when the user has triggered a form submission. The 'ngSubmit' event emits the original form's submission event.
* In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.

* To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` directive.

* In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.

* In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever a `FormModule` or `ReactiveFormsModule` are imported into the application.

* If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element.

* The `FormGroup` instance created for this form.

* Lifecycle method called after the view is initialized. For internal use only.

* Returns the form submission has been triggered.

* Returns whether the form submission has been triggered.

* The `FormControl` instance.

* The internal `FormGroup` instance.

* The `FormGroup` instance.

* Lifecycle method called after the view is initialized. For internal use only.

* Returns a map of the controls in this group.

* Method that sets up the control directive in this group, re-calculates its value and validity, and adds the instance to the internal list of directives.
**NgModelGroup** directive instance to the form.

```typescript
@Param(dir: NgModelGroup): void {
  const container = this._findContainer(dir.path);
  const group = new FormGroup({});
  setUpFormContainer(group, dir);
  container.registerControl(dir.name, group);
  group.updateValueAndValidity({emitEvent: false});
}

getFormGroup(dir: NgModelGroup): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

removeFormGroup(dir: NgModelGroup): void {
  const container = this._findContainer(dir.path);
  if (container) {
    container.removeControl(dir.name);
  }
}

resetForm(value: any = undefined): void {
  this.form.reset(value);
}

updateModel(dir: NgControl, value: any): void {
  this.control.setValue(value);
}

onSubmit($event: Event): boolean {
  syncPendingControls(this.form, this.directives);
  this.ngSubmit.emit($event);
  return false;
}

onReset(): void {
  this.resetForm();
}

setValue(value: { [key: string]: any }): void {
  this.control.setValue(value);
}
```

* `getFormGroup(dir: NgModelGroup): FormGroup` returns the `FormGroup` for a provided `NgModelGroup` directive instance.
* `removeFormGroup(dir: NgModelGroup): void` removes the `NgModelGroup` directive instance from the form.
* `resetForm(value: any = undefined): void` resets the form to an initial value and resets its submitted status.
* `updateModel(dir: NgControl, value: any): void` updates the model for the provided `NgControl` directive.
* `onSubmit($event: Event): boolean` triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
* `onReset(): void` resets the form to an initial value and resets its submitted status.
* `setValue(value: { [key: string]: any }): void` sets the value for the provided `NgControl` directive.
* `onSubmit($event: Event): boolean` is called when the "submit" event is triggered on the form.
* `resetForm(value: any = undefined): void` is called when the "reset" event is triggered on the form.
* `updateModel(dir: NgControl, value: any): void` is called when the "update" event is triggered on the form.

---

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```
* Copyright Google Inc. All Rights Reserved.*
*
* Use of this source code is governed by an MIT-style license that can be
* found in the LICENSE file at https://angular.io/license
```
validator(): ValidatorFn|null { return composeValidators(this._validators); }

async validators registered with this group.

get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}

The async validators register with this group.

get '*internal':

 composeAsyncValidators(this._asyncValidators);
}

validator(): ValidatorFn|null { return composeValidators(this._validators); }

async validators registered with this group.

get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}

The async validators register with this group.

get '*internal':

 composeAsyncValidators(this._asyncValidators);
}
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alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```typescript
@Input() name!: string;
```

Defaults to `false`. To define a form control with a default name of `Nancy`:

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">
  </my-person-control>
</form>
```

The `@Input` property serves a different purpose.

```typescript
@Input() name!: string;
```

Use `@Input` to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.
/**
 * @description
 * Async validator function composed of all the async validators registered with this
 * directive.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * @description
 * Sets the new value for the view model and emits an
 * `ngModelChange` event.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * @description
 * Sets the new value for the view model and emits an
 * `ngModelChange` event.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * @description
 * Async validator function composed of all the async validators registered with this
 * directive.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * @description
 * Async validator function composed of all the async validators registered with this
 * directive.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

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 * @description
 * Async validator function composed of all the async validators registered with this
 * directive.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * @description
 * Async validator function composed of all the async validators registered with this
 * directive.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}
NgControl,

```typescript
useExisting: forwardRef(() => FormControlDirective)

ngModelChange: Event,

\n
\n
// TODO(issue/24571): remove next 4 properties once deprecation period is over
```

\n
\n
\n
\n
\n
```typescript
// TODO(kara): remove next 4 properties once deprecation period is over

\n
\n
\n
```
/**
 * @description
 * A lifecycle method called when the directive's inputs change. For
 * internal use only. @param changes A object of key/value pairs for the set of
 * changed inputs. @/n ngOnChanges(changes: SimpleChanges): void {
 * if (this._isControlChanged(changes)) {
 * setUpControl(this.form, this);
 * if (this.control.disabled && this.valueAccessor!.setDisabledState) {
 * this.valueAccessor!.setDisabledState !(true);
 * this.form.updateValueAndValidity({emitEvent: false});
 * if (isPropertyUpdated(changes, this.viewModel)) {
 * _ngModelWarning(
 * 'formControl', FormControlDirective, this, this._ngModelWarningConfig);
 * this.form.setValue(this.model);
 * this.viewModel = this.model;
 * }
 * }
 * }
 * )
 * @/n
 * @description
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level. get(path: string[]): any {
 * return this.form.get(path);
 * }
 * @/n
 * @description
 * Synchronous validator function composed of all the synchronous validators registered with this directive.
 * @/n
 * @description
 * Async validator function composed of all the async validators registered with this directive.
 * @/n
 * The `FormControl` bound to this directive. @/n
 * @/n
 * @description
 * Reports whether the form submission has been triggered. @/n
 * @/n
 * @description
 * Tracks the list of added `FormControl` instances to this directive.
 * @/n
 * @description
 * Emits an event when the form submission has been
*ngSubmit = new EventEmitter();

constructor(@Optional() @Self())

@Optional() @Self()

@Inject(NG_VALIDATORS) private_validators: any[];

@Inject(NG_ASYNC_VALIDATORS) private_asyncValidators: any[];

super();

*/

@Output() ngSubmit = new EventEmitter();

constructor(

@Optional() @Self()

@Inject(NG_VALIDATORS) private_validators: any[];

@Inject(NG_ASYNC_VALIDATORS) private_asyncValidators: any[];

super();

*/

@Output() ngSubmit = new EventEmitter();

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@Optional() @Self()

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super();

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constructor(

@Optional() @Self()

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@Output() ngSubmit = new EventEmitter();

constructor(

@Optional() @Self()

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super();

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super();

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constructor(

@Optional() @Self()

@Inject(NG_VALIDATORS) private_validators: any[];

@Inject(NG_ASYNC_VALIDATORS) private_asyncValidators: any[];

super();

*/

@Output() ngSubmit = new EventEmitter();

constructor(

@Optional() @Self()
`cleanUpControl(dir.control, dir);` if (newCtrl) setUpControl(newCtrl, dir); (dir as FormControl).control = newCtrl;

`private _updateRegistrations() {...` if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

`this.form._updateTreeValidity({emitEvent: false});` if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

This directive can only be used with a parent FormDirective. It accepts the string name of the nested 'FormGroup' to link, and looks for a 'FormGroup' registered with that name in the parent's 'FormGroup' instance you passed into FormDirective. Use nested form groups to validate a sub-group of an * form separately from the rest or to group the values of certain * controls into their own nested object.

```ts
this.form.get('name');
```

The following example uses the [Reactive Forms Guide](guide/reactive-forms).

### Access the group by name

The following example uses the [Reactive Forms Guide](guide/reactive-forms) to access the associated `FormGroup`.

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing `FormGroup` instance you passed into FormDirective.

```
{@example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
```

@ngModule
ReactiveFormsModule

@publicApi

```ts
@Directive({selector: 'formGroupName', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {...` if (newCtrl) setUpControl(newCtrl, dir); if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

This directive can only be used with a parent FormDirective. It accepts the string name of the nested 'FormGroup' to link, and looks for a 'FormGroup' registered with that name in the parent's 'FormGroup' instance you passed into FormDirective. Use nested form groups to validate a sub-group of an * form separately from the rest or to group the values of certain * controls into their own nested object.

```ts
this.form.get('name');
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```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing `FormGroup` instance you passed into FormDirective.

```
{@example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
```

@ngModule
ReactiveFormsModule

@publicApi

```ts
@Directive({selector: 'formGroupName', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {...` if (newCtrl) setUpControl(newCtrl, dir); if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

This directive can only be used with a parent FormDirective. It accepts the string name of the nested 'FormGroup' to link, and looks for a 'FormGroup' registered with that name in the parent's 'FormGroup' instance you passed into FormDirective. Use nested form groups to validate a sub-group of an * form separately from the rest or to group the values of certain * controls into their own nested object.

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this.form.get('name');
```

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```ts
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```

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The following example registers a nested *name* `FormGroup` within an existing `FormGroup` instance you passed into FormDirective.

```
{@example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
```

@ngModule
ReactiveFormsModule

@publicApi

```ts
@Directive({selector: 'formGroupName', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {...` if (newCtrl) setUpControl(newCtrl, dir); if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

This directive can only be used with a parent FormDirective. It accepts the string name of the nested 'FormGroup' to link, and looks for a 'FormGroup' registered with that name in the parent's 'FormGroup' instance you passed into FormDirective. Use nested form groups to validate a sub-group of an * form separately from the rest or to group the values of certain * controls into their own nested object.

```ts
this.form.get('name');
```

The following example uses the [Reactive Forms Guide](guide/reactive-forms) to access the associated `FormGroup`.

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this.form.get('name.first');
```

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The following example registers a nested *name* `FormGroup` within an existing `FormGroup` instance you passed into FormDirective.

```
{@example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
```

@ngModule
ReactiveFormsModule

@publicApi

```ts
@Directive({selector: 'formGroupName', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {...` if (newCtrl) setUpControl(newCtrl, dir); if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

This directive can only be used with a parent FormDirective. It accepts the string name of the nested 'FormGroup' to link, and looks for a 'FormGroup' registered with that name in the parent's 'FormGroup' instance you passed into FormDirective. Use nested form groups to validate a sub-group of an * form separately from the rest or to group the values of certain * controls into their own nested object.

```ts
this.form.get('name');
```

The following example uses the [Reactive Forms Guide](guide/reactive-forms) to access the associated `FormGroup`.

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing `FormGroup` instance you passed into FormDirective.

```
{@example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
```

@ngModule
ReactiveFormsModule

@publicApi

```ts
@Directive({selector: 'formGroupName', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {...` if (newCtrl) setUpControl(newCtrl, dir); if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});

This directive can only be used with a parent FormDirective. It accepts the string name of the nested 'FormGroup' to link, and looks for a 'FormGroup' registered with that name in the parent's 'FormGroup' instance you passed into FormDirective. Use nested form groups to validate a sub-group of an * form separately from the rest or to group the values of certain * controls into their own nested object.

```ts
this.form.get('name');
```

The following example uses the [Reactive Forms Guide](guide/reactive-forms) to access the associated `FormGroup`.

```ts
this.form.get('name.first');
```
Guide](guide/reactive-forms)\n
* @see `AbstractControl`\n* @usageNotes\n* # Example **\n* [example forms/ts/nestedFormArray/nested_form_array_example.ts region=Component] \n* @ngModule \n* [ReactiveFormsModule] \n* @publicApi \n* /\n* /\n* @Directive({selector: '[formArrayName]', providers: \n[\n* [formArrayNameProvider]}]) export class FormArrayName extends ControlContainer implements OnInit, OnDestroy \n* /** \n* @internal */\n* _parent: ControlContainer; \n* /** \n* @internal */ \n* _validators: any[]; \n* /** \n* @internal */ \n* _asyncValidators: any[]; \n* /** \n* @description \n* * Tracks the name of the 'FormArray' bound to the directive. The name corresponds to a key in the parent 'FormGroup' or 'FormArray'. \n* * Accepts a name as a string or a number. \n* * The name in the form of a string is useful for individual forms, \n* * while the numerical form allows for form arrays to be bound \n* * to indices when iterating over arrays in a 'FormArray'. \n* */ \n* // TODO(issue/24571): remove '%\n* @Input('formArrayName') name !: string | number | null; \n* @Optional() @Host() @SkipSelf() parent: ControlContainer; \n* @Optional() @Self() \n* @Inject(NG_VALIDATORS) validators: any[]; \n* @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) \n* asyncValidators: any[]; \n* @super(); \n* this._parent = parent; \n* this._validators = validators; \n* this._asyncValidators = asyncValidators; \n* ] \n* /** \n* * @description \n* * A lifecycle method called when the directive's inputs are initialized. For internal use only. \n* * @throws If the directive does not have a valid parent. \n* */ \n* ngOnInit(): void \n* { \n* this._checkParentType(); \n* this.formDirective.getFormArray(this); \n* \n* */ \n* * @description \n* * A lifecycle method called before the directive's instance is destroyed. For internal use \n* only. \n* */ \n* ngOnDestroy(): void \n* { \n* if (this.formDirective) \n* \n* this.formDirective.removeFormArray(this); \n* \n* this._checkParentType(); \n* \n* } \n* }

private _checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, 
* @Optional, @Output, @Self, @SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath,
* isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.\n* @see [Reactive Forms Guide](guide/reactive-forms)\n* @see `FormControl`\n* @see `AbstractControl`\n* @see `NgControl`\n* useExisting: forwardRef(() => FormControlName)\n* */

### Register `FormControl` within a group

The following example shows how to register multiple form controls within a form group and set their value.

```typescript
.forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
```

To see 'formControlName' examples with different form control types, see: 

```typescript
RadioControlValueAccessor
```

Selects: `SelectControlItemValueAccessors`

### Use with ngModel

Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version of Angular. Now deprecated:

```html
<form [formGroup]="form">
  <input formControlName="first" [(ngModel)]="value">
</form>
```

```typescript
this.value = 'some value';
```

This has been deprecated for a few reasons.

First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template. To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to `AngularFormsModule` at import time:

```html
<form [formGroup]="form">
  <input [(ngModel)]="value">
</form>
```

```typescript
this.value = 'some value';
```
@Inject(NG_VALIDATORS) validators: Array<ValidatorFn>,

@Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) asyncValidators:
      Array<AsyncValidatorFn>,

@Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],

@Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) valueAccessors: ControlValueAccessor[]

private_ngModelWarningConfig: string

private _ngModelWarning = validators || [];

private this.valueAccessor = selectValueAccessor(this,

valueAccessors);

private _parent = parent;

private this._rawValidators = validators || [];

private this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

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this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

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valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccessor(this,

valueAccessors);

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = validators || [];

this.valueAccessor = selectValueAccesso
An `@Directive` which adds a `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.

```typescript
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};
```

A `Directive` that adds the `required` validator to checkbox controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive({
  selector: 'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl],input[type=checkbox][required][ngModel]',
  providers: [CHECKBOX_REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}
```

A `Provider` which adds a `EmailValidator` to the `NG_VALIDATORS` multi-provider list.

```typescript
export const EMAIL_VALIDATOR: any = {
};
```

A `Provider` which adds a `checkboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.

```typescript
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};
```

A `Provider` which adds a `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive({
  selector: 'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl],input[type=checkbox][required][ngModel]',
  providers: [CHECKBOX_REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}
```


```typescript

/**
 * A directive that adds the `email` validator to controls marked with the `email` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see [Form Validation](guide/form-validation)
 */

@Directive({
  selector: '[email][formControlName], [email][formControl], [email][ngModel]',
  providers: [EMAIL_VALIDATOR]
})
export class EmailValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _enabled !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether an email address is valid.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.email(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * For internal use only.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 * @publicApi
 */
export interface ValidatorFn { (control: AbstractControl): ValidationErrors|null;
}

/**
 * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null.
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * Provider which adds
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};

/**
 * A directive that adds minimum length validation to controls marked with the `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see [Form Validation](guide/form-validation)
 */

@Directive({
  selector: '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',
  providers: [MIN_LENGTH_VALIDATOR],
  host: {'[attr.minlength]': 'minlength ? minlength : null'},
})
export class MinLengthValidator implements Validator, OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the the minimum length bound to this directive.
   * For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value meets a minimum length requirement.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null { return this._validator(control); }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * For internal use only.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.minLength(typeof this.minlength === 'number' ? parseInt(this.minlength, 10) : this.minlength);
  }
}
```

---

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`MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.

```typescript
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() =>
    MaxLengthValidator),
  multi: true
};
```

### Adding a maximum length validator

The following example shows how to add a maximum length validator to an input attached to an

```html
<input name="firstName" ngModel maxlength="25">
```

```typescript
@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * Tracks changes to the max length value bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Validates whether the value exceeds the maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.maxLength(
      typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
}
```

### Adding a pattern validator

```html
<input name="firstName" ngModel pattern="[a-zA-Z ]*">
```

```typescript
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Validates whether the value matches the pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}
```
The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex forms. This reduces the amount of boilerplate needed to build complex forms.

### Legacy Configuration Object

When `options` are legacy form group options, or an array of validator functions

```typescript
* * async Validators: A single async validator function or array of async validator functions

* * `updateOn`: The event upon which the control should be updated (options: 'change' | 'blur' | 'submit')
```

2) Legacy configuration object, which consists of:

* `validator`: A synchronous validator function, or an array of validator functions
* `asyncValidator`: A single async validator function, or an array of validator functions

### Initialize a control as disabled

The following example returns a control with an initial value in a disabled state.

```typescript
<code-example path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control"/>
```

### Construct a new `FormControl`

```typescript
ValidatorFn|ValidatorFn|null: FormControl
```
|| controlConfig instanceof FormGroup || controlConfig instanceof FormArray) {
  return controlConfig;
} else if (Array.isArray(controlConfig)) {
  return this.control(value, validator, asyncValidator);
} else if (Array.isArray(controlConfig)) {
  const value = controlConfig[0];
  const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;
  return this.control(value, validator, asyncValidator);
} else {
  return this.control(controlConfig);
}

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

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 */

import {ModuleWithProviders, NgModule} from '@angular/core';

import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from './directives';

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@NgModule({
  declarations: [REACTIVE_DRIVEN_DIRECTIVES],
  providers: [FormBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {
  /**
   * @description
   *
   * Provides options for configuring the reactive forms module.
   *
   * @param opts An object of configuration options
   * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`
   * binding is used with reactive form directives.
   */
  static withConfig(opts: {
    /** @deprecated as of v6 */
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule> {
    return {
      ngModule: ReactiveFormsModule,
      providers: [{
        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl
      }]
    };
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 * This module is used for handling user input, by defining and building a
 * `FormGroup` that consists of `FormControl` objects, and mapping them onto
 * the DOM. `FormControl` objects can then be used to read information from
 * the form DOM elements.
 */

export {ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlContainer} from './directives/control_container';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {ɵNgNoValidate} from './directives/ng_no_validate_directive';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';

```typescript
import { NgSelectMultipleOption as _NgSelectMultipleOption, SELECT_MULTIPLE_VALUE_ACCESSOR as _SELECT_MULTIPLE_VALUE_ACCESSOR } from './src/directives/select_control_value_accessor';
import { NgSelectMultipleOption as _NgSelectMultipleOption, SELECT_MULTIPLE_VALUE_ACCESSOR as _SELECT_MULTIPLE_VALUE_ACCESSOR } from './src/directives/select_multiple_control_value_accessor';
import { CHECKBOX_REQUIRED_VALIDATOR as _CHECKBOX_REQUIRED_VALIDATOR, EMAIL_VALIDATOR as _EMAIL_VALIDATOR, MAX_LENGTH_VALIDATOR as _MAX_LENGTH_VALIDATOR, MIN_LENGTH_VALIDATOR as _MIN_LENGTH_VALIDATOR, PATTERN_VALIDATOR as _PATTERN_VALIDATOR, REQUIRED_VALIDATOR as _REQUIRED_VALIDATOR } from './src/directives/validators';
```
AC;YAC1C,SAAS,EAAE,CAAC,WAAW,EAAE,oBAAoB,CAAC;YAC9C,OAAO,EAAE,CAACA,0BAAyB,EA
AE,0BAA0B,CAAC;SACjE,CAAC;OACW,mBAAmB,CAoB/B;IAAD,0BAAC;CApBD.;AC5CA;-----;
gAMG::;AC
NH;;;;;;;AAQA,AAOA,0EAA0E;;ACf1E;;;;;;gAMG;;AC

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js.map
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Angular
=======

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

License: MIT

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 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm2015/forms.js
*/opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js

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global Reflect, Promise */

var extendStatics = function(d, b) {
  \n  extendStatics = Object.setPrototypeOf ||
  ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
  function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };

  return extendStatics(d, b);

  __extends(d, b);
}

function __extends(d, b) {
  extendStatics(d, b);
  function __() { this.constructor = d; }
  d.prototype = b === null ? null : (b && (typeof b === 'object' && b.__proto__ || (b = Object.prototype).constructor || global Reflect, Promise */)

  var extendStatics = function(d, b) {
    extendStatics = Object.setPrototypeOf ||
    ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
    function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };

    return extendStatics(d, b);

    __extends(d, b);
}

function __extends(d, b) {
  extendStatics(d, b);
  function __() { this.constructor = d; }
  d.prototype = b === null ? null : (b && (typeof b === 'object' && b.__proto__ || (b = Object.prototype).constructor || global Reflect, Promise */)

  var extendStatics = function(d, b) {
    extendStatics = Object.setPrototypeOf ||
    ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
    function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };

    return extendStatics(d, b);

    __extends(d, b);
}

function __extends(d, b) {
  extendStatics(d, b);
  function __() { this.constructor = d; }
  d.prototype = b === null ? null : (b && (typeof b === 'object' && b.__proto__ || (b = Object.prototype).constructor || global Reflect, Promise */)

  var extendStatics = function(d, b) {
    extendStatics = Object.setPrototypeOf ||
    ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
    function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };

    return extendStatics(d, b);

    __extends(d, b);

value accessor,\n   * save the given function so your class calls it at the appropriate time.\n   */\n   * @usageNotes\n   * Store the change function\n   * The following example stores the provided function as an internal method.\n   * When the value changes in the UI, call the registered function to allow the forms API to update itself.\n   */\n   * @param fn The callback function to register *\n   * @description\n   * Registers a callback function called by the forms API on initialization \n   * to update the form model on blur.\n   */\n   * When implementing 'registerOnTouched' in your own value accessor, save the given function so your class calls it when the control should be considered blurred or 'touched'.\n   */\n   * @param fn The callback function to register\n   * @usageNotes\n   * Store the callback function \n   * The following is an example of writing the disabled property to a native DOM element \n   * @param isDisabled The disabled status to set on the element \n   */\n   * @param isDisabled The disabled status to set on the element \n   */\n   * @description\n   * Function that is called by the forms API when the control status changes to 'DISABLED'. Depending on the status, it enables or disables the appropriate DOM element.\n   * @param isDisabled The disabled status to set on the element \n   * @description\n   */\n   * Sets the 'disabled' property on the input element.\n   * @param isDisabled The disabled status to set on the element \n   * On blur (or equivalent), your class should call the registered function to allow the forms API to update itself.\n   */\n   * @description\n   */\n   * Set the disabled status to false when the control value changes.\n   * @param isDisabled The disabled status to set on the element \n   */\n   * @description\n   */\n   * Sets the 'disabled' property on the input element.\n   * @param isDisabled The disabled status to set on the element \n   * @description\n   */\n   * Sets the 'disabled' property on the input element.\n   *

```ts
host: {\n  '(change)': '_onChange(Sevent.target.value)',\n  '(blur)': '_onTouched()',\n}
```
We must check whether the agent is Android because composition events in Android behave differently between iOS and Android.

```javascript
function _isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android (\d+)/.test(userAgent.toLowerCase());
}
```

### Using the default value accessor

The following example shows how to use an input element that activates the default value accessor:

```ts
const firstNameControl = new FormControl();
```

```html
<input type="text" [formControl]="firstNameControl">
```

@ngModule ReactiveFormsModule
@ngModule FormsModule
@publicApi
export class DefaultValueAccessor implements ControlValueAccessor {

  /**
   * The registered callback function called when an input event occurs on the input element.
   * @param value The checked value
   */
  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value changes.
   * @param fn The callback function
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control is touched.
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }

  /** @internal */
  _compositionStart(): void {
    this._composing = true;
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.onChange(value);
  }
}
```
the `street` control from the root form would be `address` -> `street`.

```typescript
FormGroup({
  address: new FormGroup({ street: new FormControl() })
});
```

The path to errors.

@usageNotes
For example, for the following `FormGroup`:

```typescript
form = new
```

* Returns an array that represents the path from the top-level form to this control.
* Each index is the string name of the control on that level.
* Returns the value of the control if it is present, otherwise null.

* Returns whether the control is valid. A control is considered valid if no validation errors exist with the current value.

* If the control is not present, null is returned.

* Returns whether the control is pending, meaning that the user has not yet changed the value in the UI.

* If the control is not present, null is returned.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is dirty, meaning that the control is enabled, meaning that the control is included in ancestor calculations of validity or value.

If the control is not present, null is returned.

* Returns whether the control is disabled, meaning that the control is disabled in the UI and is exempt from validation checks and excluded from aggregate values of ancestor controls.

If the control is not present, null is returned.

* Returns whether the control is touched, meaning that the user has triggered an `a` `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is dirty, meaning that the user has changed the value in the UI.

* If the control is not present, null is returned.

* Returns whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.

* Returns whether the control is disabled in the UI and is exempt from validation checks and excluded from aggregate values of ancestor controls.

If the control is not present, null is returned.

* Returns whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.

* Returns whether the control is touched, meaning that the user has triggered an `a` `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is pristine, meaning that the user has not yet changed the value in the UI.

* If the control is not present, null is returned.

* Returns whether the control is touched, meaning that the user has triggered an `a` `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is dirty, meaning that the user has changed the value in the UI.

* If the control is not present, null is returned.

* Returns whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.

* If the control is not present, null is returned.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.

* Returns whether the control is pristine, meaning that the user has not yet triggered an `blur` event on it.
An array of string control names, e.g. `['address', 'street']`. A period-delimited list of control names in one string, e.g. `.address.street`. If no path is given, this method checks for the error on the current control. If the control is not present, false is returned.

```javascript
Array<string|number|string>: boolean

function hasError(errorCode: string, path?: string): boolean {
  return this.control ? this.control.hasError(errorCode, path) : false;
}
```

```javascript
function getError(errorCode: string, path?: string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

```javascript
/**
 * @description
 * Reports error data for the control with the given path.
 * @param errorCode The code of the error to check.
 * @param path A list of control names that designates how to move from the current control to the control that should be queried for errors.
 * @returns error data for that particular error. If the control or error is not present, null is returned.
 */
```

```javascript
/**
 * @description
 * A base class for directives that contain multiple registered instances of `NgControl`
 * Only used by the forms module.
 */
```

```javascript
/**
 * @description
 * A base class for directives that contain multiple registered instances of `NgControl`
 * Only used by the forms module.
 */
```
import {InjectionToken, ɵisObservable as isObservable, ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * - `labels` consist of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 *   periods (`.`)) and can't begin or end with a dash (`-`) or a period (`.`).
 * - The whole address cannot be longer than 254 characters.
 *
 * ## Implementation
background\n *\n * This regexp was ported over from AngularJS (see there for git history):\n *
https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27\n * It is based on the\n *
[WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with\n * some
enhancements to incorporate more RFC rules (such as rules related to domain names and the\n * lengths of different
parts of the address). The main differences from the WHATWG version are:\n * - Disallow `local-part` to begin or
end with a period (`.`).\n * - Disallow `local-part` length to exceed 64 characters.\n * - Disallow total address
length to exceed 254 characters.\n *\n * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e)
for more details.\n */\nconst EMAIL_REGEXP =\n /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z09!#$%&'*+/=?^_`{|}~-]+(?:\\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z09])?(?:\\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*$/;\n\n/**\n * @description\n * Provides a set of built-in
validators that can be used by form controls.\n *\n * A validator is a function that processes a `FormControl` or
collection of\n * controls and returns an error map or null. A null map means that validation has passed.\n *\n *
@see [Form Validation](/guide/form-validation)\n *\n * @publicApi\n */\nexport class Validators {\n /**\n *
@description\n * Validator that requires the control's value to be greater than or equal to the provided number.\n *
The validator exists only as a function and not as a directive.\n *\n * @usageNotes\n *\n * ### Validate against
a minimum of 3\n *\n * ```typescript\n * const control = new FormControl(2, Validators.min(3));\n *\n *
console.log(control.errors); // {min: {min: 3, actual: 2}}\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `min` property if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static min(min: number): ValidatorFn {\n return (control:
AbstractControl): ValidationErrors | null => {\n
if (isEmptyInputValue(control.value) ||
isEmptyInputValue(min)) {\n
return null; // don't validate empty values to allow optional controls\n
}\n
const value = parseFloat(control.value);\n
// Controls with NaN values after parsing should be treated as not
having a\n
// minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min\n
return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;\n };\n }\n\n /**\n *
@description\n * Validator that requires the control's value to be less than or equal to the provided number.\n *
The validator exists only as a function and not as a directive.\n *\n * @usageNotes\n *\n * ### Validate against
a maximum of 15\n *\n * ```typescript\n * const control = new FormControl(16, Validators.max(15));\n *\n *
console.log(control.errors); // {max: {max: 15, actual: 16}}\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `max` property if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static max(max: number): ValidatorFn {\n return (control:
AbstractControl): ValidationErrors | null => {\n
if (isEmptyInputValue(control.value) ||
isEmptyInputValue(max)) {\n
return null; // don't validate empty values to allow optional controls\n
}\n
const value = parseFloat(control.value);\n
// Controls with NaN values after parsing should be treated as not
having a\n
// maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max\n
return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;\n };\n }\n\n /**\n *
@description\n * Validator that requires the control have a non-empty value.\n *\n * @usageNotes\n *\n *
### Validate that the field is non-empty\n *\n * ```typescript\n * const control = new FormControl('',
Validators.required);\n *\n * console.log(control.errors); // {required: true}\n * ```\n *\n * @returns An error
map with the `required` property\n * if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static required(control: AbstractControl): ValidationErrors|null {\n
return isEmptyInputValue(control.value) ? {'required': true} : null;\n }\n\n /**\n * @description\n * Validator
that requires the control's value be true. This validator is commonly\n * used for required checkboxes.\n *\n *
@usageNotes\n *\n * ### Validate that the field value is true\n *\n * ```typescript\n * const control = new
FormControl('', Validators.requiredTrue);\n *\n * console.log(control.errors); // {required: true}\n * ```\n *\n *
@returns An error map that contains the `required` property\n * set to `true` if the validation check fails, otherwise
`null`.\n *\n * @see `updateValueAndValidity()`\n *\n */\n static requiredTrue(control: AbstractControl):
ValidationErrors|null {\n return control.value === true ? null : {'required': true};\n }\n\n /**\n * @description\n
* Validator that requires the control's value pass an email validation test.\n *\n * Tests the value using a [regular

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expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions) * pattern suitable for common usecases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address). The differences from the WHATWG version include:

- Disallow ‘local-part’ (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow ‘local-part’ to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

### Validate that the field only contains letters or spaces

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
null
```

### Validate that the field matches a valid email pattern

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
null
```

### Validate that the field has a minimum of 3 characters

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
null
```

### Validate that the field has a maximum length

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
null
```

### Validate that the field contains letters or characters

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
null
```

### Validate that the field has a different pattern

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern. If the validation check fails, otherwise `null`.

```typescript
null
```
following example shows how to use a number input with a reactive form.

```ts
const totalCountControl = new FormControl();

@Directive(
  selector: 'input[type=number]',
  providers: [ControlValueAccessor]
)
export class NumberValueAccessor implements ControlValueAccessor {
  writeValue(value: number): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
  }

  registerOnChange(fn: (_: number) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * Removes a control from the internal registry. For internal use only.
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
        return;
      }
    }
  }

  /**
   * Selects a radio button. For internal use only.
   */
  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
    return (this._isSameGroup(c, accessor) &&
      (this._accessors.splice(i, 1): access) => access)(
      for (let i = this._accessors.length - 1; i >= 0; --i) {
        if ((this._accessors[i][1] === accessor) {
          this._accessors.splice(i, 1);
          return;
        }
      });
  }
}

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 */
@Directive(
  selector: 'input[type=radio]',
  providers: [ControlValueAccessor, Ng_VALUE_ACCESSOR] from @angular/core
)
export class RadioControlValueAccessor implements ControlValueAccessor {
  writeValue(value: string): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
  }

  registerOnChange(fn: (_: string) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}

// More code...
```
host: '{(change): 'onChange()', (blur): 'onTouched()'}', providers: [RADIO_VALUE_ACCESSOR])

export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /* @internal */
  onInputChange(event: any): void;
  /* @internal */
  onInput(event: any): void;
  /* @internal */
  onTouched(event: any): void;
  /* @internal */
  onChange(event: any): void;
  /* @internal */
  onDispose(): void;
  /* @internal */
  registerOnChange(fn: Function): void;
  /* @internal */
  registerOnTouched(fn: Function): void;
  /* @internal */
  ngOnDestroy(): void;
  /* @internal */
  writeValue(value: any): void;
  /* @internal */
  setDisabledState(isDisabled: boolean): void;
}

export class RadioControlValueAccessor implements ControlValueAccessor, OnInit {
  /* @internal */
  _state !: boolean;
  /* @internal */
  _control !: NgControl;
  /* @internal */
  _fn !: Function;

  /*
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onChange = () => {};

  /*
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onTouched = () => {};

  /*
   * @description
   * Tracks the name of the radio input element.
   */
  _name !: string;

  /*
   * @description
   * The value accessor.
   */
  value: any;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

  /*
   * @description
   * A lifecycle method called when the directive is initialized. For internal use only.
   */
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  /*
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void { this._registry.remove(this); }

  /*
   * @description
   * Sets the "checked" property on the radio input element.
   */
  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  /*
   * @description
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
  }

  /*
   * @description
   * Sets the "disabled" property on the radio input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  private _checkName(): void {
    if (this.name && this.formControlName && this.name !== this.formControlName) {
      this._throwNameError();
    }
    if (!this.name && this.formControlName) this.name = this.formControlName;
  }

  private _throwNameError(): void {
    throw
    new Error(`
      If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type="radio" formControlName="food" name="food">`);
  }
}

/**
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 *
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 */

import {Directive,
  ElementRef, Renderer2, StaticProvider, forwardRef} from '@angular/core';

import {ControlValueAccessor,
  NG_VALUE_ACCESSOR} from './control_value_accessor';

export const RANGE_VALUE_ACCESSOR:
  StaticProvider = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: forwardRef(() =>
      RangeValueAccessor),
    multi: true
  }

/**
 * The `ControlValueAccessor` for writing a range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and  `NgModel`
 * directives.
 *
 * ### Using a range input with a reactive form
 *
 * The following example shows how to use a range input with a reactive form.
 *
 * ```ts
 * const ageControl = new FormControl();
 * ```
 *
 * ```
 * <input type="range" value="" formControlName="ageControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * StaticProvider = {
 *   provide: NG_VALUE_ACCESSOR,
 *   useExisting: forwardRef(() =>
 *      RangeValueAccessor),
 *   multi: true
 * }
 */
@Directive({
  selector:
    'input\[type=range\]\[formControl\],input\[type=range\]\[formControlName\],input\[type=range\]\[ngModel\]',
  host: {
    'change': 'onChange($event.target.value),
    'blur': 'onTouched($event.target.value)
  },
  providers: [RANGE_VALUE_ACCESSOR])
})
export class RangeValueAccessor
  implements ControlValueAccessor {
    /*
     * @description
     * The registered callback function called when a
     */
change or input event occurs on the input\n * element.\n */\n onChange = (_: any) => {};\n\n /**\n *
@description\n * The registered callback function called when a blur event occurs on the input element.\n */\n
onTouched = () => {};\n\n constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}\n\n
/**\n * Sets the \"value\" property on the input element.\n *\n * @param value The checked value\n */\n
writeValue(value: any): void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'value',
parseFloat(value));\n }\n\n /**\n * @description\n * Registers a function called when the control value
changes.\n *\n * @param fn The callback function\n */\n registerOnChange(fn: (_: number|null) => void): void
{\n this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };\n }\n\n /**\n * @description\n *
Registers a function called when the control is touched.\n *\n * @param fn The callback function\n */\n
registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n\n /**\n * Sets the \"disabled\" property on the
range input element.\n *\n * @param isDisabled The disabled value\n */\n setDisabledState(isDisabled:
boolean): void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n
}\n}\n","/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nexport const FormErrorExamples = {\n formControlName: `\n <div [formGroup]=\"myGroup\">\n
<input formControlName=\"firstName\">\n </div>\n\n In your class:\n\n this.myGroup = new FormGroup({\n
firstName: new FormControl()\n });`,\n\n formGroupName: `\n <div [formGroup]=\"myGroup\">\n
<div
formGroupName=\"person\">\n
<input formControlName=\"firstName\">\n
</div>\n </div>\n\n In
your class:\n\n this.myGroup = new FormGroup({\n
person: new FormGroup({ firstName: new FormControl()
})\n });`,\n\n formArrayName: `\n <div [formGroup]=\"myGroup\">\n
<div formArrayName=\"cities\">\n
<div *ngFor=\"let city of cityArray.controls; index as i\">\n
<input [formControlName]=\"i\">\n
</div>\n
</div>\n </div>\n\n In your class:\n\n this.cityArray = new FormArray([new
FormControl('SF')]);\n this.myGroup = new FormGroup({\n
cities: this.cityArray\n });`,\n\n ngModelGroup:
`\n <form>\n
<div ngModelGroup=\"person\">\n
<input [(ngModel)]=\"person.name\"
name=\"firstName\">\n
</div>\n </form>`,\n\n ngModelWithFormGroup: `\n <div
[formGroup]=\"myGroup\">\n
<input formControlName=\"firstName\">\n
<input
[(ngModel)]=\"showMoreControls\" [ngModelOptions]=\"{standalone: true}\">\n </div>\n `\n};\n","/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MITstyle license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n\nimport
{FormErrorExamples as Examples} from './error_examples';\n\nexport class ReactiveErrors {\n static
controlParentException(): void {\n throw new Error(\n
`formControlName must be used with a parent
formGroup directive. You'll want to add a formGroup\n
directive and pass it an existing FormGroup instance
(you can create one in your class).\n\n
Example:\n\n
${Examples.formControlName}`);\n }\n\n static
ngModelGroupException(): void {\n throw new Error(\n
`formControlName cannot be used with an
ngModelGroup parent. It is only compatible with parents\n
that also have a \"form\" prefix: formGroupName,
formArrayName, or formGroup.\n\n
Option 1: Update the parent to be formGroupName (reactive form
strategy)\n\n
${Examples.formGroupName}\n\n
Option 2: Use ngModel instead of formControlName
(template-driven strategy)\n\n
${Examples.ngModelGroup}`);\n }\n static missingFormException(): void {\n
throw new Error(`formGroup expects a FormGroup instance. Please pass one in.\n\n
Example:\n\n
${Examples.formControlName}`);\n }\n\n static groupParentException(): void {\n throw new Error(\n
`formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup\n
directive
and pass it an existing FormGroup instance (you can create one in your class).\n\n
Example:\n\n
${Examples.formGroupName}`);\n }\n\n static arrayParentException(): void {\n throw new Error(\n
`formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup\n
directive
and pass it an existing FormGroup instance (you can create one in your class).\n\n
Example:\n\n
${Examples.formArrayName}`);\n }\n\n static disabledAttrWarning(): void {\n console.warn(`\n
It looks like
you're using the disabled attribute with a reactive form directive. If you set disabled to true\n
when you set up this
control in your component class, the disabled attribute will actually be set in the DOM for\n
you. We recommend

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using this approach to avoid 'changed after checked' errors.

Example:

```javascript
form = new FormGroup({
  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
  last: new FormControl('Drew', Validators.required)
});
```

`SELECT_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};`  

The following examples show how to use a select control in a reactive form.

```typescript
[example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component']
```  

### Using select controls in a template-driven form

To use a select in a template-driven form, simply add an `ngModel` and a `name` attribute to the main `<select>` tag.

```html
<select [formControl]='selectCountriesControl'>
  <option *ngFor="let country of countries" [ngValue]="country">
    {{country.name}}
  </option>
</select>
```

```typescript
selectCountriesControl = new FormControl();
```  

```typescript
compareFn(c1: Country, c2: Country): boolean {
  return c1 && c2 ? c1.id === c2.id : c1 === c2;
}
```

**Note:** We listen to the 'change' event because 'input' events aren't fired on selects in Firefox and IE:

- https://bugzilla.mozilla.org/show_bug.cgi?id=1024350

@publicApi
@Directive({
  selector: 'select:not([multiple])[formControl],select:not([multiple])[formControlName],select:not([multiple])[ngModel]'
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;  
  onChange = (_: any) => {};
  onTouched = () => {};
  @Input()
  compareWith = (o1: any, o2: any) => o1 === o2;
}
```typescript
[example forms/ts/selectControl/select_control_example.ts region='Component']
```  

**@description**  
Angular uses object identity to select option. It's possible for the identities of items in * to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

To customize the default option comparison algorithm, `select` supports `compareWith` input.

```typescript
<
```  

```typescript
compareWith: takes a **function** which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects option by the return value of the function.
```  

```typescript
const selectedCountriesControl = new FormControl();
```  

```typescript
compareFn(c1: Country, c2: Country): boolean {
  return c1 && c2 ? c1.id === c2.id : c1 === c2;
}
```  

@publicApi
@Directive({
  selector: `select:not([multiple])[formControl],select:not([multiple])[formControlName],select:not([multiple])[ngModel]`
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;  
  onChange = (_: any) => {};
  onTouched = () => {};
  @Input()
  compareWith = (o1: any, o2: any) => o1 === o2;
}
```typescript
[example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component']
```  

```typescript
const selectedCountriesControl = new FormControl();
```  

```typescript
compareFn(c1: Country, c2: Country): boolean {
  return c1 && c2 ? c1.id === c2.id : c1 === c2;
}
```  

@publicApi
@Directive({
  selector: `select:not([multiple])[formControl],select:not([multiple])[formControlName],select:not([multiple])[ngModel]`
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;  
  onChange = (_: any) => {};
  onTouched = () => {};
  @Input()
  compareWith = (o1: any, o2: any) => o1 === o2;
}
```typescript
[example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component']
```
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```typescript
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 *
 * @see `SelectControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * @publicApi
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  /**
   * ID of the option element
   */
  // TODO(issue/24571): remove '!'.
  id !: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * Tracks the value bound to the option element. Unlike the value binding, * `ngValue` supports
   * binding to objects:
   * * `@Input(ngValue)`
   *   `set ngValue(value: any) {
   *     if (this._select == null) return;
   *     this._select._optionMap.set(this.id, value);
   *     this._setElementValue(_buildValueString(this.id, value));
   *     this._select.writeValue(this._select.value);
   *   }`
   */
  @Input('ngValue')
  set ngValue(value: any) {
    this._setElementValue(value);
    if (this._select) this._select.writeValue(this._select.value);
  }

  /**
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

/** Mock interface for HTML Options */
interface HTMLOption {
  value: string;
  selected: boolean;
}

/** Mock interface for HTMLOption */
interface HTMLOption {
  value: string;
  selected: boolean;
}
```

control
* changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel` directives. * @see `SelectControlValueAccessor` * @usageNotes
* # Using a multi-select control with a reactive form.

* @description
* The current value.
* @value
* \(\text{any: any} ; /\* @internal */\)
* _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map();
* @description
* The registered callback function called when a change event occurs on the input element.
* @change
* \(\text{fn: (any, o2: any) => boolean} ; /\* @description */\)
* @description
* The callback function called when a blur event occurs on the input element.
* @blur
* \(\text{fn} ; /\* @description */\)
* @description
* Tracks the option comparison algorithm for tracking identities when.
* @description
* Checking for changes.
* @Input
* \(\text{set compareWith(fn: (any, o2: any) => boolean)} ; /\* @description */\)
* @description
* Registers a function called when the control value changes and writes an array of the
* selected options.
* @param fn The callback function.
* @fn
* \(\text{fn} ; /\* @description */\)
* @description
* @Input
* \(\text{isDisabled: boolean)} ; /\* @description */\)
* @description
* Pertains to this renderer.
* @fn
* \(\text{fn} ; /\* @description */\)
* @description
* @Input
* \(\text{isDisabled: boolean)} ; /\* @description */\)
* @description
* Registers a function called when the control is touched.
* @param fn The callback function.
* @fn
* \(\text{fn} ; /\* @description */\)
* @description
* @Input
* \(\text{isDisabled: boolean)} ; /\* @description */\)
* @description
* updates the value.
* @fn
* \(\text{fn} ; /\* @description */\)
* @description
* @Input
* \(\text{isDisabled: boolean)} ; /\* @description */\)
* @description
* Pertains to this renderer.
* @fn
* \(\text{fn} ; /\* @description */\)
* @description
* @Input
* \(\text{isDisabled: boolean)} ; /\* @description */\)
* @description
* The callback function called when a blur event occurs on the input element.
* @blur
* \(\text{fn} ; /\* @description */\)
* @description
* Marks `option` as dynamic, so Angular can be notified when
options change.\n *\n * @see `SelectMultipleControlValueAccessor`\n *\n * @ngModule ReactiveFormsModule\n
* @ngModule FormsModule\n * @publicApi\n */\n@Directive({selector: 'option'})\nexport class
ÉµNgSelectMultipleOption implements OnDestroy {\n // TODO(issue/24571): remove '!'.\n id !: string;\n /**
@internal */\n _value: any;\n\n constructor(\n
private _element: ElementRef, private _renderer: Renderer2,\n
@Optional() @Host() private _select: SelectMultipleControlValueAccessor) {\n if (this._select) {\n
this.id =
this._select._registerOption(this);\n }\n }\n\n /**\n * @description\n * Tracks the value bound to the option
element. Unlike the value binding,\n * ngValue supports binding to objects.\n */\n @Input('ngValue')\n set
ngValue(value: any) {\n if (this._select == null) return;\n this._value = value;\n
this._setElementValue(_buildValueString(this.id, value));\n this._select.writeValue(this._select.value);\n }\n\n
/**\n * @description\n * Tracks simple string values bound to the option element.\n * For objects, use the
`ngValue` input binding.\n */\n @Input('value')\n set value(value: any) {\n if (this._select) {\n
this._value =
value;\n
this._setElementValue(_buildValueString(this.id, value));\n
this._select.writeValue(this._select.value);\n } else {\n
this._setElementValue(value);\n }\n }\n\n /**
@internal */\n _setElementValue(value: string): void {\n this._renderer.setProperty(this._element.nativeElement,
'value', value);\n }\n\n /** @internal */\n _setSelected(selected: boolean) {\n
this._renderer.setProperty(this._element.nativeElement, 'selected', selected);\n }\n\n /**\n * @description\n *
Lifecycle method called before the directive's instance is destroyed. For internal use only.\n */\n ngOnDestroy():
void {\n if (this._select) {\n
this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n }\n }\n}\n\nexport {ÉµNgSelectMultipleOption as
NgSelectMultipleOption};\n","/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nimport {isDevMode, ÉµlooseIdentical as looseIdentical} from
'@angular/core';\n\nimport {FormArray, FormControl, FormGroup} from '../model';\nimport {Validators} from
'../validators';\nimport {AbstractControlDirective} from './abstract_control_directive';\nimport
{AbstractFormGroupDirective} from './abstract_form_group_directive';\nimport {CheckboxControlValueAccessor}
from './checkbox_value_accessor';\nimport {ControlContainer} from './control_container';\nimport
{ControlValueAccessor} from './control_value_accessor';\nimport {DefaultValueAccessor} from
'./default_value_accessor';\nimport {NgControl} from './ng_control';\nimport {normalizeAsyncValidator,
normalizeValidator} from './normalize_validator';\nimport {NumberValueAccessor} from
'./number_value_accessor';\nimport {RadioControlValueAccessor} from './radio_control_value_accessor';\nimport
{RangeValueAccessor} from './range_value_accessor';\nimport {FormArrayName} from
'./reactive_directives/form_group_name';\nimport {ReactiveErrors} from './reactive_errors';\nimport
{SelectControlValueAccessor} from './select_control_value_accessor';\nimport
{SelectMultipleControlValueAccessor} from './select_multiple_control_value_accessor';\nimport {AsyncValidator,
AsyncValidatorFn, Validator, ValidatorFn} from './validators';\n\n\nexport function controlPath(name: string | null,
parent: ControlContainer): string[] {\n return [...parent.path !, name !];\n}\n\nexport function setUpControl(control:
FormControl, dir: NgControl): void {\n if (!control) _throwError(dir, 'Cannot find control with');\n if
(!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');\n\n control.validator =
Validators.compose([control.validator !, dir.validator]);\n control.asyncValidator =
Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);\n dir.valueAccessor
!.writeValue(control.value);\n\n setUpViewChangePipeline(control, dir);\n setUpModelChangePipeline(control,
dir);\n\n setUpBlurPipeline(control, dir);\n\n if (dir.valueAccessor !.setDisabledState) {\n
control.registerOnDisabledChange(\n
(isDisabled: boolean) => { dir.valueAccessor !.setDisabledState
!(isDisabled); });\n }\n\n // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4\n
dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {\n if
((<Validator>validator).registerOnValidatorChange)\n
(<Validator>validator).registerOnValidatorChange !(() =>
control.updateValueAndValidity());\n });\n\n dir._rawAsyncValidators.forEach((validator: AsyncValidator |
AsyncValidatorFn) => {\n if ((<Validator>validator).registerOnValidatorChange)\n

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载体.

Validator().registerOnValidatorChange(!(() => control.updateValueAndValidity()));

export function cleanUpControl(control: FormControl, dir: NgControl) {
  dir.valueAccessor!.registerOnChange(! => _noControlError(dir));
  dir.valueAccessor!.registerOnTouched(! => _noControlError(dir));

  dir._rawValidators.forEach((validator: any) => {
    if (validator.registerOnValidatorChange) {
      validator.registerOnValidatorChange(null);
    }
  });

  dir._rawAsyncValidators.forEach((validator: any) => {
    if (validator.registerOnValidatorChange) {
      validator.registerOnValidatorChange(null);
    }
  });

  if (control) control._clearChangeFns();
}

export function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.validator = Validators.compose([control.validator, dir.validator]);

  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path !.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path ![0]) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {
  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();

  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });
}

// TODO: vsavkin remove it once
export function selectValueAccessor(dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;

  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with');

  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let builtInAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;

  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor ===
DefaultValueAccessor) {
  defaultAccessor = v;
}

if (builtinAccessor光辉字)
  _throwError(dir, 'More than one built-in value accessor matches form control with');

else if (customAccessor光辉字)
  _throwError(dir, 'More than one custom value accessor matches form control with');

if (customAccessor光辉字) return customAccessor;

if (builtinAccessor) return builtinAccessor;

if (defaultAccessor) return defaultAccessor;

_throwError(dir, 'No valid value accessor for form control with');

return null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' &&
       !instance._ngModelWarningSentOnce)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

/**
 * @license
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 * Use of this source code is governed by an MIT-style license
 * that can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/validators';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';

/**
 * Reports that a FormControl is valid,
 * meaning that no errors exist in the input value.
 *
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 *
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async
 * validation is occurring and no errors are yet available for the input value.
 *
 * @see `status`
 * @see `markAsPending`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled,
 * meaning that the control is exempt from ancestor calculations of validity or value.
 *
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] :
          null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
          (validatorOrOpts as AbstractControlOptions).validators :
       validatorOrOpts) as ValidatorFn |
       ValidatorFn[] | null;

  return Array.isArray(validator) ? composeValidators(validator) :
       validator ||
       null;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
          (validatorOrOpts as AbstractControlOptions).asyncValidators :
       asyncValidator) as AsyncValidatorFn |
       AsyncValidatorFn[] | null;

  return Array.isArray(validator) ? composeAsyncValidators(validator) :
       asyncValidator ||
       null;
}

export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an
 * `AbstractControl`.
 *
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * @description
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;
  /**
   * The event name for control to update
   */
  onChange: FormHook;
upon.

*An `updateOn` property isOptionsObj

*validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean | return validatorOrOpts !== null &

*isArrayOf(validatorOrOpts) &

typeOf validatorOrOpts === `object`;

*exports abstract class

AbstractControl {

/**
 * This is the base class for `FormControl`, `FormGroup`, and `FormArray`.
 *
 * It provides some of the shared behavior that all controls and groups of controls have, like:
 * running validators, calculating status, and resetting state. It also defines the
 * properties that are shared between all sub-classes, like:
 * `value`, `valid`, and `dirty`. It shouldn't be instantiated directly.

* @see [Forms Guide](/guide/forms)

* @see [Reactive Forms Guide](/guide/reactive-forms)

* @see [Dynamic Forms Guide](/guide/dynamic-form)

* @publicApi

*/

export abstract class AbstractControl {

/**
 * The current value of the control.

* For a `FormControl`, the current value.

* For an enabled `FormGroup`, the values of enabled controls as an object

* with a key-value pair for each member of the group.

* For a disabled `FormGroup`, the values of all controls as an object

* with a key-value pair for each member of the group.

* For a `FormArray`, the values of enabled controls as an array.

* An `public readonly value` is initialized the AbstractControl instance.

* @param validator The function that determines the synchronous validity of this control.

* @param asynchronousValidator The function that determines the asynchronous validity of this control.

* @param constructor(public validator: ValidatorFn | null, public asyncValidator: AsyncValidatorFn | null) {

* The parent control.

* get parent(): FormGroup | FormArray {

* return this.parent;

* return !this.parent;

* FormGroup | FormArray;

* private _asyncValidationSubscription: any;

*/

/**
 * The parent control.

*/

get parent(): FormGroup | FormArray {

return this.parent;

return !this.parent;

FormGroup | FormArray;

private _asyncValidationSubscription: any;

/**
 * The validation status of the control. There are four possible validation statuses:

* `VALID`: This control has passed all validation checks.

* `INVALID`: This control has failed at least one validation check.

* `INVALID STATUS`: This control is in the midst of conducting a validation check.

* `DISABLED`: This control is exempt from validation checks.

* These status values are mutually exclusive, so a control cannot be both valid AND invalid or invalid AND disabled.

* // TODO(issue/24571): remove `!`.

* public readonly status: string | null;

* A control is `valid` when its `status` is `VALID`.

* A control is `invalid` when its `status` is `INVALID`.

* A control is `pending` when its `status` is `PENDING`.

* A control is `disabled` when its `status` is `DISABLED`.

* Enabled controls are exempt from validation checks and are not included in the aggregate value of their ancestors.

* A control is `pristine` if the user has not yet changed the value in the UI.

* A control is `dirty` if the user has not yet changed the value in the UI.

* A control is `marked as touched` if the user has changed the value in the UI.

* A control is `marked as pristine` if the user has not yet changed the value in the UI.

* Programmatic changes to a control's value do not mark it dirty.

* A control is `marked as pristine` if the user has changed the value in the UI.

* A control is `marked as touched` if the user has changed the value in the UI.

* A control is `marked as pristine` if the user has not yet changed the value in the UI.

* A control is `marked as touched` if the user has changed the value in the UI.

* A control
is marked 'touched' once the user has triggered a `blur` event on it.

`*\n* public readonly touched: boolean = false;`\n`*\n* !**true** *if the control has not been marked as touched*`\n`*\n* !**A control is `untouched` if the user has not yet triggered a `blur` event on it.`\n`*\n* !**get untouched(); boolean [ return ![this.touched; ]\n`*\n* !**A multicasting observable that emits an event every time the value of the control changes, in\n`*\n* !**the UI or programmatically. It also emits an event every time you call enable() or disable();`\n
`*\n* !**without passing along {emitEvent: false} as a function argument.`\n`*\n* !**a `blur` event on it.`\n`*\n* !**get untouched(); boolean [ return ![this.touched; ]\n`*\n* !**A multicasting observable that emits an event every time the validation`s status` of the control\n`*\n* !**recalculates.`\n`*\n* !**@see [{link AbstractControl.status}\n`*\n* !**// TODO(issue/24571): remove `!`.\n`*\n* !**public readonly valueChanges!: Observable<any> !**A multicasting observable that emits an event every time the\n`*\n* !**valueChanges!: Observable<any> !**A multicasting observable that emits an event every time the validation`s status` of the control\n`*\n* !**recalculates.`\n`*\n* !**@see [{link AbstractControl.status}\n`*\n* !**// TODO(issue/24571): remove `!`.\n`*\n* !**public readonly statusChanges!: Observable<any> !**A multicasting observable that emits an event every time the validation`s status` of the control\n`*\n* !**recalculates.`\n`*\n* !**@see [{link AbstractControl.status}\n
`*\n* !**A multicasting observable that emits an event every time the value of the control changes, in\n`*\n* !**the UI or programmatically. It also emits an event every time you call enable() or disable();`\n
`*\n* !**without passing along {emitEvent: false} as a function argument.`\n`*\n* !**a `blur` event on it.`\n`*\n* !**get untouched(); boolean [ return ![this.touched; ]\n`*\n* !**A multicasting observable that emits an event every time the validation`s status` of the control\n`*\n* !**recalculates.`\n`*\n* !**@see [{link AbstractControl.status}\n`*\n* !**// TODO(issue/24571): remove `!`.\n`*\n* !**public readonly valueChanges!: Observable<any> !**A multicasting observable that emits an event every time the validation`s status` of the control\n`*\n* !**recalculates.`\n`*\n* !**@see [{link AbstractControl.status}\n
`*\n* !**A multicasting observable that emits an event every time the value of the control changes, in\n`*\n* !**the UI or programmatically. It also emits an event every time you call enable() or disable();`\n
`*\n* !**without passing along {emitEvent: false} as a function argument.`\n`*\n`
/**
 * Marks the control as `pristine`.
 *
 * If the control has any children, maintains the latest pristine status of all parent
 * controls. `markAsPristine()` re-calculate the `pristine` status of all parent
 * controls.
 * @see `markAsTouched()
 * @see `markAsUntouched()
 * @see `markAsDirty()
 */
 markAsPristine(opts: {onlySelf?: boolean} = {}): void {
   (this as {pristine: boolean}).pristine = true;

   this._pendingDirty = false;

   this._forEachChild((control: AbstractControl) => {
     if (this._parent && !opts.onlySelf) {
       control.markAsPristine({onlySelf: true});
     }
   });

   if (this._parent && !opts.onlySelf) {
     this._parent.markAsPristine({onlySelf: true});
   }
}

/**
 * Marks the control as `pending`.
 *
 * A control is pending while the control performs async validation. `markAsPending()` re-calcu-
 * lates the `pending` status of all parent controls. `markAsPending()` re-calculate the `pristine` status
 * of all parent controls.
 * @see `markAsPristine()
 * @see `markAsUntouched()
 * @see `markAsDirty()
 *
 * @param opts Configuration options that determine how the control propagates changes and emits events after
 * marking is applied.
 * * `onlySelf`: When true, marks only this control. When false or not supplied, marks all direct ancestors. Default is `false`.
 * * `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status when the control is marked pending.
 * When false, no events are emitted.
 * * `changeFn`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
 * When false, no events are emitted.
 * * `enableInvalidatesChildren`: When true, marks all direct ancestors.
 * Default is `false`.
 * @param opts Configuration options that determine how the control propagates changes and emits events after
 * marking is applied.
 * * `onlySelf`: When true, marks only this control. When false or not supplied, marks all direct ancestors. Default is `false`.
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
 * When false, no events are emitted.
 * * `changeFn`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
 */
 markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
   (this as {status: string}).status = PENDING;

   if (opts.emitEvent !== false) {
     (this.statusChanges as EventEmitter<any>).emit(this.status);
   }

   if (this._parent && !opts.onlySelf) {
     this._parent.markAsPending(opts);
   }
}

/**
 * Disables the control. This means the control is exempt from validation checks and excluded from the aggregate value of any parent. Its status is `DISABLED`.
 * @see `markAsPristine()
 * @see `markAsUntouched()
 * @see `markAsDirty()
 *
 * @param opts Configuration options that control how the control propagates changes and emits events when
 * marked as disabled.
 * * `onlySelf`: When true, marks only this control. When false or not supplied, marks all direct ancestors. Default is `false`.
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
 * When false, no events are emitted.
 * * `changeFn`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
 */
 disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
   // If parent has been marked artificially dirty we don't want to re-calculate the
   // parent's dirtiness based on the children.
   this._parentMarkedDirty(opts.onlySelf);

   (this as {status: string}).status = DISABLED;

   if (this._parent && !opts.onlySelf) {
     this._parent.markAsPending(opts);
   }

   (this as {status: string}).status = DISABLED;

   if (this._parent && !opts.onlySelf) {
     this._parent.updateValueAndValidity({onlySelf: true});
   }
}

/**
 * Enables the control. This means the control is included in validation checks and the aggregate value of its parent. Its status recalculates based on its value and validators.
 * By default, if the control has children, all children are enabled.
 * @see `markAsPristine()
 * @see `markAsUntouched()
 * @see `markAsDirty()
 *
 * @param opts Configuration options that control how the control propagates changes and emits events when
 * marked as enabled.
 * * `onlySelf`: When true, marks only this control. When false or not supplied, marks all direct ancestors. Default is `false`.
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.
 * When false, no events are emitted.
 * * `changeFn`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.
 */
 enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
   // If parent has been marked artificially dirty we don't want to re-calculate the
   // parent's dirtiness based on the children.
   this._parentMarkedDirty(opts.onlySelf);

   (this as {status: string}).status = VALID;

   this._forEachChild((control: AbstractControl) => {
     if (this._parent && !opts.onlySelf) {
       control.enable({onlySelf: true});
     }
   });

   (this.statusChanges as EventEmitter<any>).emit(this.status);

   if (this._parent && !opts.onlySelf) {
     this._parent.updateValueAndValidity({onlySelf: true});
   }

   if (this._parent && !opts.onlySelf) {
     this._parent.updateValueAndValidity({onlySelf: true});
   }
}

this._parent._updatePristine();
 }\n this._parent._updateTouched();\n }\n }\n */**\n * @param parent
 Sets the parent of the control\n *\n setParent(parent: FormGroup|FormArray): void { this._parent = parent; }\n */**\n * Sets the value of the control. Abstract method (implemented in sub-classes).\n */ **\n abstract
 setValue(value: any, options?: Object): void;\n */ **\n * Patches the value of the control. Abstract method (implemented in sub-classes).\n */ **\n abstract
 patchValue(value: any, options?: Object): void;\n */ **\n * Resets the control. Abstract method (implemented in sub-classes).\n */ **\n abstract
 reset(value?: any, options?: Object): void;\n */ **\n * Recalculates the value and validation status of the control.\n */ **\n * By default, it also updates the value and validity of its ancestors.\n */ **\n * @param opts Configuration options determine how the control propagates changes and emits events\n */ **\n * after updates and validity checks are applied.\n */ **\n * @param onlySelf: When true, only update this control. When false or not supplied, all update all direct ancestors. Default is false.\n */ **\n * emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges`\n */ **\n * observables emit events with the latest status and value when the control is updated.\n */ **\n * When false, no events are emitted.\n */ **\n updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n this._setInitialStatus();\n this._updateValue();\n if (this.enabled) {\n this._cancelExistingSubscription();\n (this\n as {errors: ValidationErrors | null}).errors = this._runValidator();\n (this as {status: string}).status = this._calculateStatus(); if (this.status === VALID || this.status === PENDING) {\n this._runAsyncValidator(opts.emitEvent);\n if (opts.emitEvent != false) {\n (this.valueChanges as EventEmmitter<any>).emit(this.value);\n (this.statusChanges as EventEmmitter<string>).emit(this.status);\n }\n if (this._parent & !opts.onlySelf) {\n this._parent.updateValueAndValidity(opts);\n }\n }\n }\n }\n */ **\n @internal */**\n _updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {\n this._forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));\n this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n }\n */ **\n }\n */ **\n private_setInitialStatus() {\n this._allControlsDisabled() ? DISABLED : VALID;\n }\n */ **\n private\n _runValidator(): ValidationErrors|null {\n return this.validator ? this.validator(this) : null;\n }\n */ **\n private\n _runAsyncValidator(emitEvent?: boolean): void {\n if (this.asyncValidator) {\n (this as {status: string}).status = PENDING;\n const obs = toObservable(this.asyncValidator(this));\n this._asyncValidationSubscription =\n obs.subscribe(errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent: true});\n }\n }\n */ **\n private\n _cancelExistingSubscription(): void {\n if (this._asyncValidationSubscription) {\n this._asyncValidationSubscription.unsubscribe();\n }\n }\n */ **\n * Sets errors on a form control when running validations manually, rather than automatically.\n */ **\n * Calling setErrors also updates the validity of the parent control.\n */ **\n * @param errors\n * @param opts\n */ **\n * Manually set the errors for a control\n */ **\n * const login = new FormControl('someLogin');\n * login.setErrors({ notUnique: true, *\n * expect(login.valid, toEqual(false));\n * expect(login.errors, toEqual([ notUnique: true ]));\n * login.setValue('someOtherLogin');\n * expect(login.valid, toEqual(true));\n * setErrors(errors: ValidationErrors|null, opts: {emitEvent?: boolean} = {});\n * this._updateControlsErrors(opts.emitEvent !== false);\n * */ **\n * Retrieves a child control given the control's name or path.\n */ **\n * @param path\n */ **\n * For example, to get a name control nested within a 'person' sub-group:\n */ **\n * this.form.get('person').name;\n */ **\n * -OR-\n */ **\n * this.form.get(['person', 'name']);\n */ **\n * get(path: Array<string|number>|string):\n */ **\n * return_find(this, path, 'javascript');\n */ **\n * @description\n */ **\n * Reports error data for the control with the given path.\n */ **\n * @param err\n */ **\n * @param path\n * @param err\n * @param err\n * For example, for the following FormGroup:\n */ **\n * form = new FormGroup({\n * | address: new FormGroup({ street: new FormControl() });\n */ **\n * | address: new FormGroup({\n * | street: new FormControl() });\n */ **\n * The path to the ['street'] control from the root form would be 'address' -> 'street'.\n */ **\n * It can be provided to this method in one of two formats:\n */ **\n * 1. An array of string control names, e.g. ['address', 'street']\n */ **\n * 1. A period-delimited list of control names in one string, e.g. 'address.street'\n */ **\n * @returns error data for that particular error. If the
@param path A list of control names that designates how to move from the current control @n * to the control that should be queried for errors.@n * @usageNotes * For example, for the following `FormGroup`:

```javascript
let form = new FormGroup({
  street: new FormControl()
});
```

A period-delimited list of control names in one string, e.g. `street.address` * @n * If no path is given, this method checks for the error on the current control.

* @returns whether the given error is present in the control at the given path.

* @param path When the control is not present, false is returned.@n * hasError(errorCode: string, path?:

```javascript
Array<string|number>|string): boolean {
    return !!this.getError(errorCode, path);
}
```

* @returns if the control is present.@n * root(): AbstractControl { @n

```javascript
let x: AbstractControl = this;
```

* while (x._parent) { @n

```javascript
x = x._parent;
```

* } @n

```javascript
return x;
```

* @parent MarkedDirty() boolean {
    return this.anyControls((control: AbstractControl) => control.dirty); @n

```javascript
} @n

* @returns if the parent has been marked artificially dirty.@n
```javascript
private _parentMarkedDirty(onlySelf?: boolean): boolean {
    const parentDirty = this._parent && this._parent.dirty;

    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
}
```
FormControl, with an initial value. const control = new FormControl('some value');

```ts
const control = new FormControl('some value');

console.log(control.value);  // 'some value'

console.log(control.status);  // 'DISABLED'
```

The following example initializes the control with a sync validator:

```ts
const control = new FormControl('', Validators.required);

console.log(control.value);  // ''

console.log(control.status);  // 'INVALID'
```

The following example initializes the control with a sync validator:

```ts
const control = new FormControl('', { value: 'Nancy' });

console.log(control.value);  // 'Nancy'

control.reset('Drew');

console.log(control.value);  // 'Drew'

console.log(control.status);  // 'VALID'
```

### Configure the control to update on a blur event

Set the `updateOn` option to `'blur'` to update on the blur event:

```ts
const control = new FormControl('', { updateOn: 'blur' });

console.log(control.value);  // ''

console.log(control.status);  // 'INVALID'
```

The following example initializes the control using an options object:

```ts
const control = new FormControl({ value: 'some value', disabled: true });

console.log(control.value);  // 'some value'

console.log(control.status);  // 'DISABLED'
```

### Configure the control to update on a submit event

Set the `updateOn` option to `'submit'` to update on a submit event:

```ts
const control = new FormControl('', { updateOn: 'submit' });

console.log(control.value);  // ''

console.log(control.status);  // 'INVALID'
```

### Reset the control back to an initial value

You reset to a specific form state by passing through a standalone value or a form state object that contains both a value and a disabled state (*these are the only two properties that cannot be calculated*):

```ts
const control = new FormControl('Nancy');

console.log(control.value);  // 'Nancy'

control.reset('Drew');

console.log(control.value);  // 'Drew'

console.log(control.status);  // 'VALID'
```

The following example initializes the control with a sync validator:

```ts
const control = new FormControl('Nancy');

console.log(control.value);  // 'Nancy'

control.reset();

console.log(control.value);  // 'Nancy'

console.log(control.status);  // 'VALID'
```

### Reset the control back to an initial value and disabled

```ts
const control = new FormControl('Nancy');

console.log(control.value);  // 'Nancy'

console.log(control.status);  // 'VALID'

control.reset({ value: 'Drew', disabled: true });

console.log(control.value);  // 'Drew'

console.log(control.status);  // 'DISABLED'
```

### Configure the control to update on a blur event

Set the `updateOn` option to `'blur'` to update on the blur event:

```ts
const control = new FormControl('', { updateOn: 'blur' });

console.log(control.value);  // ''

console.log(control.status);  // 'DISABLED'
```

### Configure the control to update on a submit event

Set the `updateOn` option to `'submit'` to update on a submit event:

```ts
const control = new FormControl('', { updateOn: 'submit' });

console.log(control.value);  // ''

console.log(control.status);  // 'INVALID'
```
does behave differently.

    * @see `setValue` for options
    */
  patchValue(value: any, options: {
    onlySelf?: boolean,
    emitViewToModelChange?: boolean,
  } = {}): void {
    this.setValue(value, options);
  }

  /**
   * Resets the form control, marking it 'pristine' and 'untouched', and setting
   * the value to null.
   */

  reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._applyFormState(formState);
    this.markAsPristine(options);
    this.markAsUntouched(options);
    this.setValue(this.value, options);
    this._pendingChange = false;
  }

  _updateValue() {}

  _anyControls(condition: Function): boolean { return false; }

  _allControlsDisabled(): boolean { return this.disabled;

  registerOnChange(fn: Function): void { this._onChange.push(fn);

  registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
    this._onDisabledChange.push(fn);

  _forEachChild(cb: Function): void {}

  _syncPendingControls(): boolean {
    if (this.updateOn === 'submit') {
      if (this._pendingDirty) this.markAsDirty();
      if (this._pendingTouched) this.markAsTouched();
      if (this._pendingChange) {
        this.setValue(this._pendingValue, {onlySelf: true, emitModelToViewChange: false});
        return true;
      }
    }
    return false;
  }

  private _applyFormState(formState: any) {
    if (this._isBoxedValue(formState)) {
      (this as {value: any}).value = this._pendingValue = formState.value;
      formState.disabled ? this.disable({onlySelf: true, emitEvent: false}) :
                           this.enable({onlySelf: true, emitEvent: false});
    } else {
      (this as {value: any}).value = this._pendingValue = formState;
    }
  }

  // Tracks the value and validity state of a group of `FormControl` instances.
  * A 'FormGroup'
  * aggregates the values of each child 'FormControl' into one object, * with each control name as the key. It
  * calculates its status by reducing the status values\n  * of its children. For example, if one of the controls in a group is
  * invalid, the entire\n  * group becomes invalid.\n
  const form = new FormGroup({
    first: new FormControl('Nancy', Validators.minLength(2)),
    last: new FormControl('Drew'),
  });

  console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
  console.log(form.status);  // 'VALID'

  function passwordMatchValidator(g: FormGroup) {
    return g.get('password').value === g.get('passwordConfirm').value
       ? null : {'mismatch': true};
  }

  const form = new FormGroup({
    password: new FormControl(''),
    passwordConfirm: new FormControl('', Validators.minLength(2)),
  }, passwordMatchValidator);

  g.get('passwordConfirm').value
      ? null : { mismatch: true };

  const form = new FormGroup({
    password: new FormControl(''),
    passwordConfirm: new FormControl(''),
    validators: [Validators.minLength(2)],
  }, function passwordMatchValidator(g: FormGroup) {
    return g.get('password').value === g.get('passwordConfirm').value
       ? null : {'mismatch': true};
  });

  // Set the updateOn property for all controls in a form group\n
  // The options object is used to set a default value for each child\n  // control's 'updateOn' property. If you set 'updateOn' to 'blur' at\n  // the group level, all child controls default to

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'blur', unless the child has explicitly specified a different `updateOn` value.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

```ts
```
Object.keys(value).forEach(name => {
      this._throwIfControlMissing(name);
      this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    });

    this.updateValueAndValidity(options);
  }

  /**
   * Patches the value for a form group
   * * const form = new FormGroup(
   *     * first: new FormControl(),
   *     ** last: new FormControl() * )
   * @param value The object that matches the structure of the group.
   * @param options Configuration options that determine how the control propagates changes and emits events when the control value is updated.
   * * OnlySelf: When true, each change only affects this control and not its parent. Default is true.
   * * EmitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
   * When false, no events are emitted.
   * * The configuration options are passed to the `updateValueAndValidity` method.
   */
  patchValue(value: { [key: string]: any }, options: { onlySelf?: boolean, emitEvent?: boolean } = {}): void {
    Object.keys(value).forEach(name => {
      if (this.controls[name]) {
        this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
      }
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Resets the `FormGroup`, marks all descendants are marked `pristine` and `untouched`, and resets the value of all descendants to null.
   * You reset to a specific form state by passing in a map of states or a form state object with control names as keys. The state
   * is a standalone value or a form state object with both a value and a disabled status.
   * This method resets the control with an initial value, or an object that defines the initial value and disabled state.
   * When the group is reset, each change only affects this control, and not its parent. Default is false.
   * * `onlySelf`: When true, each change only affects this control, and not its parent.
   * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events when the control is reset.
   * When false, no events are emitted.
   */
  reset(value: any = {}, options: { onlySelf?: boolean, emitEvent?: boolean } = {}): void {
    this._forEachChild((control: AbstractControl, name: string) => {
      control.reset(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }

  /**
   * The aggregate value of the `FormGroup`, including any disabled controls.
   * Retrieves all values regardless of disabled status.
   * The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`.
   * * @param options Configuration options that determine how the control propagates changes and emits events when the control value is updated.
   * When false, no events are emitted.
   */
  getRawValue(): any {
    return this._reduceChildren({}, (acc: { [k: string]: AbstractControl }, control: AbstractControl, name: string) => {
      acc[name] = control.instanceof FormControl ? control.value : (<any>control).getRawValue();
      return acc;
    });
  }

  /**
   * @internal */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this._reduceChildren(false, (updated: boolean, child: AbstractControl) => {
      return child._syncPendingControls() ? true : updated;
    });
    if (subtreeUpdated) this.updateValueAndValidity({onlySelf: true});
    return subtreeUpdated;
  }

  /**
   * @internal */
  _throwIfControlMissing(name: string): void {
    if (!Object.keys(this.controls).length) {
      throw new
There are no form controls registered with this group yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).

```javascript
Error(`
        There are no form controls registered with this group yet. If you're using ngModel,
        you may
        want to check next tick (e.g. use setTimeout).
      `);
    }
    if (!this.controls[name]) {
      throw new
```
```
/* @internal */
function _reduceValue(): void {
  this._reduceChildren();
}
```
```
/** @internal */
function _setUpControls(): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  });
}
```
```
/** @internal */
function _updateValue(): void {
  (this as {value: any}).value = this._reduceValue();
}
```
```
/** @internal */
function _anyControls(condition: Function): boolean {
  let res = false;
  this._forEachChild((control: AbstractControl, name: string) => {
    res = res || (this.contains(name) && condition(control));
  });
  return res;
}
```
```
/** @internal */
function _reduceChildren(initValue: any, fn: Function): any {
  let res = initValue;
  this._forEachChild((control: AbstractControl, name: string) => {
    res = fn(res, control, name);
  });
  return res;
}
```
```
/** @internal */
function _allControlsDisabled(): boolean {
  for (const controlName of Object.keys(this.controls)) {
    if (this.controls[controlName].enabled) {
      return false;
    }
  }
  return Object.keys(this.controls).length > 0 || this.disabled;
}
```
```
/** @internal */
function _checkAllValuesPresent(value: any): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    if (value[name] === undefined) {
      throw new Error(`Must supply a value for form control with name: '${name}'.`);
    }
  });
}
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```
```javascript
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

  /**
   * Get the `AbstractControl` at the given `index` in the array.
   *
   * @param index Index in the array to retrieve the control
   */
  at(index: number): AbstractControl { return this.controls[index]; }

  /**
   * Insert a new `AbstractControl` at the given `index` in the array.
   *
   * @param control Form control to be inserted
   */
  insert(index: number, control: AbstractControl): void {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
  }

  /**
   * Replace an existing control.
   *
   * @param index Index in the array to replace the control
   * @param control The `AbstractControl` control to replace the existing control
   */
  setControl(index: number, control: AbstractControl): void {
    this.controls.splice(index, 1);
    if (control) {
      this.controls.splice(index, 0, control);
      this._registerControl(control);
    }
    this.updateValueAndValidity();
  }

  /**
   * Length of the control array.
   */
  get length(): number { return this.controls.length; }

  /**
   * Sets the value of the `FormArray`. It accepts an array that matches
   * the structure of the control.
   *
   * @usageNotes
   * ### Set the values for the controls in the form array
   *
   * ```
   * const arr = new FormArray([new FormControl(), new FormControl()]);
   * ```
   *
   * @param value Array of latest values for the controls
   * @param options Configure options that determine how the control propagates changes
   * and emits events after the value changes
   * * `onlySelf`: When true, each change only affects this control, and not its parent.
   * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges`
   * observables emit events with the latest status and value when the control value is updated.
   */
  setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._checkAllValuesPresent(value);
    value.forEach((newValue: any, index: number) => {
      this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Patches the value of the `FormArray`. It accepts an array that matches to the correct
   * controls in the group.
   *
   * @usageNotes
   * ### Patch the values for controls in a form array
   *
   * ```
   * const arr = new FormArray([new FormControl(), new FormControl()]);
   * ```
   *
   * @param value Array of latest values for the controls
   * @param options Configure options that determine how the control propagates changes
   * and emits events after the value changes
   * * `onlySelf`: When true, each change only affects this control, and not its parent.
   * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges`
   * observables emit events with the latest status and value when the control value is updated.
   */
  patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    value.forEach((newValue: any, index: number) => {
      if (this.at(index)) {
        this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
      }
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Resets the
`FormArray` and all descendants are marked ‘pristine’ and ‘untouched’, and the *value* of all descendants to null or null maps. *You reset a specific form state by passing in an array of states* that matches the structure of the control. The state is a standalone value *or a form state object with both a value and a disabled status*. *Reset the values in a form array* `const arr = new FormArray([new FormControl(), new FormControl()]); arr.reset();` *Reset the values in a form array and the disabled status for the first control* `arr.reset({value: 'name', disabled: true});` *console.log(arr.value);* `this.arr.reset([{value: 'name', disabled: true}, {value: 'last name'}]);` *console.log(arr.value);* `this.arr.reset([{value: 'name', disabled: true}, {value: 'last name'}]);` *console.log(arr.value);* `this.arr.get(0).status;` *DISABLED* `this.arr.reset();` *@param value Array of values for the controls* `updateValueAndValidity` *Configure options that determine how the control propagates changes* *emits events after the value changes* *`onlySelf`: When true, each change only affects this control, and not its parent. Default is false.* *`emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.* *When false, no events are emitted.* *The configuration options are passed to the `updateValueAndValidity` method.* *`onlySelf`: Whether to only reset the specified control or all descendants.* *`emitEvent`: Whether to emit events after the value and status are updated.*`reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void` *Default* `this.controls.map(control => { return control.statusChanges.subscribe(st => console.log(st)) });` *getRawValue* `return this.controls.map(control => control.getRawValue());` *clear* `controls.splice(0); this.updateValueAndValidity();`
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* found in the LICENSE file at https://angular.io/license

*/

import {AfterViewInit, Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from './model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from './validators';
import {ControlContainer, useExisting: forwardRef(() => NgForm)} from './control_container';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

const resolvedPromise = (() => Promise.resolve(null))();

/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a
 * form in order to track aggregate form value and validation status.
 * As soon as you import the `FormsModule`, this
 * directive becomes active by default on all `<form>` tags. You don't need to add a special selector.

 * You optionally export the directive into a local template variable using `ngForm` as the key *(ex:
 * `#myForm="ngForm"`). This is optional, but useful. Many properties from the underlying
 * `FormGroup` instance are duplicated on the directive itself, so a reference to it
 * gives you access to the aggregate value and

 * validity status of the form, as well as
 * user interaction properties like 'dirty' and 'touched'.

 * To register child controls with the form, use 'NgModel' with a 'name' attribute. You may use 'NgModelGroup'
 * to create sub-groups within the form.

 * If necessary, listen to the directive's 'ngSubmit' event to be notified when the
 * user has triggered a form submission. The 'ngSubmit' event emits the original form
 * submission event.

 * In template driven forms, all `<form>` tags are automatically tagged as 'NgForm'. To import the
 * 'FormsModule', but skip its usage in some forms, for example, to use native HTML5 validation, add the
 * 'ngNoForm' and the `<form>` tags won't create an 'NgForm' directive. In reactive forms, using 'ngNoForm'
 * is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the
 * 'formGroup' directive.

 * In order to prevent the native DOM form validation UI from interfering with Angular's form validation,
 * Angular automatically adds the 'novalidate' attribute on any `<form>` whenever
 * `FormModule` or
 * `ReactiveFormModule` are imported into the application.

 * If you want to explicitly enable native DOM validation UI with Angular forms, you can add the
 * `ngNativeValidate` attribute to the `<form>` element.

 * The following example shows you how to change the 'updateOn' option from its default using a
 * ngFormOptions.

 * ```html
 * <form [ngFormOptions]="{updateOn: 'blur'}">
 *    <input name="one" ngModel>  <!-- this ngModel will update on blur -->
 * </form>
 * ```

 * @ngModule FormsModule

 * @publicApi
 */

@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  outputs: ['ngSubmit'],
  exportAs: 'ngForm'
})
export class NgForm extends ControlContainer implements Form, AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _directives: NgModel[] = [];

  /**
   * @description
   * The `FormGroup` instance created for this form.
   */
  form: FormGroup;

  /**
   * @description
   * Event emitter for the 'ngSubmit' event.
   */
  ngSubmit = new EventEmitter();

  /**
   * @description
   * Tracks options for the 'NgForm' instance.
   */
  * @ngModelOptions
  * @description
  * Lifecycle method called after the...
view is initialized. For internal use only.
  */
  @description
  * The directive instance.
  */
  @description
  * The internal `FormGroup` instance.
  */
  get control(): FormGroup { return this.form; }

  /**
   * @description
   * Returns an array representing the path to this group. Because this directive always lives at the top level of a form, it is always an empty array.
  */
  get path(): string[] { return []; }

  /**
   * @description
   * Returns a map of the controls in this group.
  */
  get controls(): {[key: string]: AbstractControl} { return this.form.controls; }

  /**
   * @description
   * Method that sets up the control directive in this group, re-calculates its value and validity, and adds the instance to the internal list of directives.
  */
  addControl(dir: NgModel): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      (dir as{control: FormControl}).control = <FormControl>container.registerControl(dir.name, dir.control);
      setUpControl(dir.control, dir);
      dir.control.updateValueAndValidity({emitEvent: false});
      this._directives.push(dir);
    });
  }

  /**
   * @description
   * Retrieves the `FormGroup` instance from the provided `NgModelGroup` directive instance.
  */
  addFormGroup(dir: NgModelGroup): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      const group = new FormGroup({});
      setUpFormGroupContainer(group, dir);
      container.registerControl(dir.name, group);
      group.updateValueAndValidity({emitEvent: false});
      this._findContainer(dir.path).push(dir);
    });
  }

  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the form.
  */
  removeFormGroup(dir: NgModelGroup): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      if (container) {
        container.removeControl(dir.name);
      }
      removeDir<NgModelGroup>(this._directives, dir); this._directives.push(dir);
    });
  }

  /**
   * @description
   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
  */
  getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); }

  /**
   * @description
   * Method called when the "submit" event is triggered on the form.
   * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
  */
  onSubmit($event: Event): boolean {
    (this as{submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this._directives);
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * @description
   * Method called when the "reset" event is triggered on the form.
   */
  onReset(): void {
    this.resetForm();
  }

  /**
   * @description
   * Resets the form to an initial value and resets its submitted status.
   */
  resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as{submitted: boolean}).submitted = false;
    this._resetForm(value); this._resetForm(value); this.resetForm(value); this.resetForm(value);
  }

  @description
  * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {OnDestroy, OnInit} from '@angular/core';

import {FormGroup} from '../model';

import {ControlContainer} from './control_container';
import {Form} from
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';
import * as React from 'react';
import {AbstractFormGroupDirective} from './abstractFormGroupDirective';
import {ControlContainer} from './controlContainer';
import {NgForm} from './ngForm';
import {TemplateDrivenErrors} from './templateDrivenErrors';

export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => AbstractFormGroupDirective),
  multi: true
};

export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   */
  _parent!: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group
   */
  _validators!: any[];

  /**
   * @description
   * An array of async validators for the group
   */
  _asyncValidators!: any[];

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null
   */
  get formDirective(): FormDirective|null { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group
   */
  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /** @internal */
  _checkParentType(): void {
    throw new Error(`
      ngModelGroup cannot be used with a parent formGroup directive.

      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):

      ${Examples.formGroupName}

      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

      ${Examples.ngModelGroup}
    `);
  }
}

/**
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 */

import {NgModelGroup, NgModelOptions} from './ngModelGroup';

@Directive({
  selector: '[ngModelGroup]

  @Input(
    'ngModelGroup'
    )

  @require('true')

  @SkipSelf()

  @Self()

  @Optional()

  @SkipSelf()

  @Input()

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  @Self()
useExisting: forwardRef(() => NgModelGroup);\n
/**
 * @description
 * Creates and binds a `FormGroup`
 * instance to a DOM element.\n *
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).
 *
 * Use this directive to validate a sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 *
 * Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `myGroup="ngModelGroup"`).\n *
 * Following example shows you how to combine controls together in a sub-group of the form:
 *
 * ```
 * {{myGroup.valid}}
 * <input [(ngModel)]="myValue" #myModel="ngModel">
 * ```
 *
 * Notes:
 * - this is just one extra run no matter how many `ngModel` have been changed.
 * - this is a general problem when using `exportAs` for directives!
 *
 * Promise.resolve(null));\n
/**
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 *
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 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';
import {NgForm} from './ng_form';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from './shared';
import {TemplateDrivenErrors} from './template_driven_errors';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * @description
 * Creates a `FormControl` instance from a domain model and binds it to a form control element.
 *
 * The `FormControl` instance tracks the value, user interaction, and validation status of the control and keeps the view synced with the model. If used within a parent form, the directive also registers itself as a child model with the form as a child control.
 *
 * This directive is used by itself or as part of a larger form. Use the `@NgModule` selector to activate it.
 *
 * It accepts a domain model as an optional `Input`.
 *
 * If you have a one-way binding to `ngModel` with `[[]]` syntax, changing the value of the domain model in the component sets the value in the view. If you have a two-way binding with `[[[]]]` syntax (also known as `banana-box syntax`), the value in the UI always syncs back to the domain model in your class.
 *
 * To inspect the properties of the associated `FormControl` (like validity state), export the directive into a local template variable using `ngModel` as the key (ex: `#myVar="ngModel"`). You then access the control using

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the directive’s `control` property, `\n` but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. `\n` See a full list of properties directly available in `AbstractControlDirective`. `\n` * @see `RadioControlValueAccessor` `\n` * @see `SelectControlValueAccessor` `\n` * @usageNotes `\n` * Using `ngModel` on a standalone control `\n` * The following examples show a simple standalone control using `\n` * `@example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'\n` * When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute `\n` * so that the control can be registered with the parent form under that name. `\n` * In the context of a parent form, it's often `\n` * unnecessary to include one-way or two-way binding, `\n` * as the parent form syncs the value for you. You access its `\n` * properties by exporting it into a `\n` * local template variable using `ngForm` such as (`\n` * `@example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'\n` * `\n` * See a full list of properties directly available in `AbstractControlDirective`. `\n` * `\n` * @see `RadioControlValueAccessor` `\n` * @see `SelectControlValueAccessor` `\n` * `\n` * @usageNotes `\n` * `\n` * ### Using `ngModel` within a form `\n` * `\n` * The following example shows how to use a standalone `ngModel` control `\n` * within a form. This controls the display of the form, but doesn't contain form data. `\n` * `<form>` will automatically add a form control to the DOM `\n` * that can be accessed in the parent form. `\n` * `\n` * @ngModule ` FormsModule` `\n` * @publicApi `\n` */ `\n` *)

```typescript
@Directive({
  selector: `[ngModel]:not([formControlName]):not([formControl])`,
  providers: [formControlBinding],
  exportAs: 'ngModel'
})
export class NgModel extends NgControl implements OnChanges,
    OnDestroy {
  public readonly control: FormControl = new FormControl();

  // At runtime we coerce arbitrary values assigned to the `disabled` input to a `boolean`. `\n` // This is not reflected in the type of the property because outside of templates, `\n` // consumers should only deal with booleans. In templates, a string is allowed for convenience and to `\n` // match the native `disabled` attribute semantics which can be observed on input elements. `\n` // This static member tells the compiler that values of type `string` can also be assigned to `\n` // the input in a template. `\n` */
 static ngAcceptInputType_isDisabled: boolean|string;

  /**
   * @nodoc */
  static ngAcceptInputType_isDisabled: boolean|string;

  /**
   * @internal */
  _registered = false;

  /**
   * @description
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the name bound to the directive. The parent form `\n` * uses this name as a key to retrieve `\n` * the control's value. `\n` */
  name: string;

  /**
   * @description
   * Tracks whether the control is disabled. `\n` */
  isDisabled: boolean;

  /**
   * @description
   * Tracks the value bound to this directive. `\n` */
  model: any;

  /**
   * @description
   * Tracks the configuration options for this `\n` */
  options: {name?: string, standalone?: boolean, updateOn?: FormHooks};

  /**
   * @description
   * Event emitter for producing the `ngModelChange` event after `\n` * the view model updates. `\n` */
  update = new EventEmitter();

  constructor(@Optional() @Host() parent: ControlContainer,\n              @Optional() @Self()\n              @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,\n              @Optional() @Self()\n              @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n```
```typescript
/**
 * @description
 * Lifecycle method called when the directive's inputs change. For internal use only.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
ngOnChanges(changes: SimpleChanges) {
  this._checkForErrors();
  if (this._registered) this._setUpControl();
  if (isDisabled in changes) {
    this._updateValue(changes); // Set the new value for the view model and emits an
    this.viewModel = this.model;
  }
}

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
ngOnDestroy: void { this._checkForErrors();
  if (!this._registered) this._setUpControl();
  if ('isDisabled' in changes) {
    this._updateDisabled(changes);
  }

  if (isPropertyUpdated(changes, this.viewModel)) {
    this._updateValue(this.model);
    this.viewModel = this.model;
  }

  changes.forEach(change => {
    if (change.key in this) {
      this._updateChange(change);
    }
  });
}
```

```typescript
/**
 * @description
 * Lifecycle method called when the directive's inputs change. For internal use only.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
ngOnChanges(changes: SimpleChanges) {
  this._checkForErrors();

  if (this._registered) this._setUpControl();
  if (isDisabled in changes) {
    this._updateValue(changes);
  }

  if (isPropertyUpdated(changes, this.viewModel)) {
    this._updateValue(this.model);
    this.viewModel = this.model;
  }

  changes.forEach(change => {
    if (change.key in this) {
      this._updateChange(change);
    }
  });
}
```
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*/

import {Directive} from '@angular/core';

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:

```html
<form [ngNativeValidate"></form>
``` 

* @publicApi
* @ngModule ReactiveFormsModule
* @ngModule FormsModule
* @module Directive
*/

@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

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 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value:

```html
<input [formControl]='control'></input>
``` 

```ts
this.control.setValue('some value');
``` 

* Now deprecated:

```html
<input [(ngModel)]='value'>
``` 

```ts
this.value = 'some value';
``` 

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:

```ts
imports: [
  ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'});
]
``` 

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `"always"`. This may help to track down where in the code the pattern is being used as the code is being updated.

* @module Directive
* @publicApi
* @no@Directive([selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm'])
*/
FormControlDirective extends NgControl implements OnChanges {
  /**
   * @description
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the `FormControl` instance bound to the directive.
   */
  form: FormControl;

  /**
   * @description
   * Static property used to track whether any ngModel warnings have been sent across
   * all instances of FormControlDirective. Used to support warning config of 'always'.
   */
  static _ngModelWarningSent = false;

  constructor(
    @Optional() @Self() @Inject(NG_VALIDATORS)
    validators: Array<Validator|ValidatorFn>,
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
    asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
    @Optional() @Self()
    @Inject(NG_VALUE_ACCESSOR)
    valueAccessors: ControlValueAccessor[],
    @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
    super();
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning(
        'formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
      this.viewModel = this.model;
    }
  }

  get path(): string[] { return []; }

  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  get directive(): ControlContainer {
    return FormControlDirective, this, this._ngModelWarningConfig;
  }

  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, Input, Optional, Output, Self, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from '../../validators';
import {ControlContainer} from '../control_container';
import {Form} from '../form_interface';
import {ReactiveErrors} from '../reactive_errors'; import {cleanUpControl,
composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer,
syncPendingControls} from '../shared';\n\nimport {FormControlName} from './form_control_name';\nimport
{FormArrayName, FormGroupName} from './form_group_name';\n\nexport const formDirectiveProvider: any = {\n
provide: ControlContainer,\n useExisting: forwardRef(() => FormGroupDirective)\n};\n\n/**\n * @description\n
*\n * Binds an existing `FormGroup` to a DOM element.\n *\n * This directive accepts an existing `FormGroup`
instance. It will then use this\n * `FormGroup` instance to match any child `FormControl`, `FormGroup`,\n * and
`FormArray` instances to child `FormControlName`, `FormGroupName`,\n * and `FormArrayName` directives.\n *
\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see `AbstractControl`\n *\n * ### Register Form
Group\n *\n * The following example registers a `FormGroup` with first name and last name controls,\n * and
listens for the *ngSubmit* event when the button is clicked.\n *\n * {@example
forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}\n *\n * @ngModule
ReactiveFormsModule\n * @publicApi\n */\n@Directive({\n selector: '[formGroup]',\n providers:
[formDirectiveProvider],\n host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},\n exportAs:
'ngForm'\n})\nexport class FormGroupDirective extends ControlContainer implements Form,\n OnChanges {\n
/**\n * @description\n * Reports whether the form submission has been triggered.\n */\n public readonly
submitted: boolean = false;\n\n // TODO(issue/24571): remove '!'.\n private _oldForm !: FormGroup;\n\n /**\n *
@description\n * Tracks the list of added `FormControlName` instances\n */\n directives: FormControlName[] =
[];\n\n /**\n * @description\n * Tracks the `FormGroup` bound to this directive.\n */\n @Input('formGroup')
form: FormGroup = null !;\n\n /**\n * @description\n * Emits an event when the form submission has been
triggered.\n */\n @Output() ngSubmit = new EventEmitter();\n\n constructor(\n
@Optional() @Self()
@Inject(NG_VALIDATORS) private _validators: any[],\n
@Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {\n super();\n }\n\n /**\n *
@description\n * A lifecycle method called when the directive's inputs change. For internal use only.\n *\n *
@param changes A object of key/value pairs for the set of changed inputs.\n */\n ngOnChanges(changes:
SimpleChanges): void {\n this._checkFormPresent();\n if (changes.hasOwnProperty('form')) {\n
this._updateValidators();\n
this._updateDomValue();\n
this._updateRegistrations();\n }\n }\n\n /**\n *
@description\n * Returns this directive's instance.\n */\n get formDirective(): Form { return this; }\n\n /**\n *
@description\n * Returns the `FormGroup` bound to this directive.\n */\n get control(): FormGroup { return
this.form; }\n\n /**\n * @description\n * Returns an array representing the path to this group. Because this
directive\n * always lives at the top level of a form, it always an empty array.\n */\n get path(): string[] { return
[]; }\n\n /**\n * @description\n * Method that sets up the control directive in this group, re-calculates its value\n
* and validity, and adds the instance to the internal list of directives.\n *\n * @param dir The `FormControlName`
directive instance.\n */\n addControl(dir: FormControlName): FormControl {\n const ctrl: any =
this.form.get(dir.path);\n setUpControl(ctrl, dir);\n ctrl.updateValueAndValidity({emitEvent: false});\n
this.directives.push(dir);\n return ctrl;\n }\n\n /**\n * @description\n * Retrieves the `FormControl` instance
from the provided `FormControlName` directive\n *\n * @param dir The `FormControlName` directive
instance.\n */\n getControl(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path);
}\n\n /**\n * @description\n * Removes the `FormControlName` instance from the internal list of directives\n
*\n * @param dir The `FormControlName` directive instance.\n */\n removeControl(dir: FormControlName):
void { removeDir<FormControlName>(this.directives, dir); }\n\n /**\n * Adds a new `FormGroupName`
directive instance to the form.\n *\n * @param dir The `FormGroupName` directive instance.\n */\n
addFormGroup(dir: FormGroupName): void {\n const ctrl: any = this.form.get(dir.path);\n
setUpFormContainer(ctrl, dir);\n ctrl.updateValueAndValidity({emitEvent: false});\n }\n\n /**\n * No-op
method to remove the form group.\n *\n * @param dir The `FormGroupName` directive instance.\n */\n
removeFormGroup(dir: FormGroupName): void {}\n\n /**\n * @description\n * Retrieves the `FormGroup` for
a provided `FormGroupName` directive instance\n *\n * @param dir The `FormGroupName` directive instance.\n
*/\n getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }\n\n /**\n
* Adds a new `FormArrayName` directive instance to the form.\n *\n * @param dir The `FormArrayName`

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directive instance.
 */
@Input() addFormArray(dir: FormArrayName): void {
  const ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  updateModel(dir, ctrl);
  ctrl.updateValueAndValidity({emitEvent: false});
}

/*
 * No-op method to remove the form array.
 */
@Input() removeFormArray(dir: FormArrayName): void {
  const ctrl: any = this.form.get(dir.path);
  cleanUpControl(ctrl, dir);
  (dir as {control: FormControl}).control = null;
}

/*
 * Method called when the \submit\ event is triggered on the form.
 * Triggers the \ngSubmit\ emitter to emit the \submit\ event as its payload.
 */
@Input() resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}

/**
 * @internal
 */
_updateDomValue(): void {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as {control: FormControl}).control = newCtrl;
    }
  });
  this.form._updateTreeValidity({emitEvent: false});
}

_updateRegistrations(): void {
  this.form._registerOnCollectionChange(() => this._updateDomValue());
  if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
  this._oldForm = this.form;
}

_updateValidators(): void {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator!, sync!]);
  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator!, async!]);
}

_checkFormPresent(): void {
  if (!this.form) {
    ReactiveErrors.missingFormException();
  }
}

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 *
 * This directive can only be used with a parent `FormGroupDirective`.
 *
 * It accepts the string name of the nested `FormGroup` to link, and
 * looks for a `FormGroup` registered with that name in the parent
 * instance you passed into `FormGroupDirective`.
 *
 * Use nested form groups to validate a sub-group of a form separately from the rest or to
 * group the values of certain controls into their own nested object.
 */

@Output('submitted') submitted: boolean = true;

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, Host, Inject, Input, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';
import {AsyncValidatorFn, ValidatorFn} from '../validators';

import {FormGroupDirective} from './form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 *
 * This directive can only be used with a parent `FormGroupDirective`.
 *
 * It accepts the string name of the nested `FormGroup` to link, and
 * looks for a `FormGroup` registered with that name in the parent
 * instance you passed into `FormGroupDirective`. Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.
 */

@Directive({
  selector: '[formGroupName]',
  host: { '(input)': 'checkFormPresent()', 'parentError': 'true' },
  providers: [formGroupNameProvider]
})
export class FormGroupName {
  constructor(@Optional() controlContainer: ControlContainer, @Self() formGroupDirective: FormGroupDirective) {
    this.formGroupDirective = formGroupDirective;
    this.formGroupDirective.formGroupControl = new FormControl('', [Validators.required]);
  }

  @Input() formGroupName: string;

  @Input() formGroupControl: FormControl;

  checkFormPresent(): void {
    if (!this.formGroupDirective.formGroup) {
      this.formGroupDirective.formGroup = new FormGroup({
        [this.formGroupName]: this.formGroupControl
      });
    }
  }

  /**
   * @description
   *
   * Registers a nested `FormGroup` within an existing
   */

  registerFormGroup(): void {
    this.formGroupDirective.formGroup.controls[this.formGroupName] = new FormGroup({
      [this.formGroupName]: this.formGroupControl
    });
  }

  /**
   * @description
   *
   * Removes the nested `FormGroup`.
   */

  removeFormGroup(): void {
    delete this.formGroupDirective.formGroup.controls[this.formGroupName];
  }

  /**
   * @description
   *
   * Returns the `FormGroup` for a provided `FormGroupName`.
   */

  getFormGroup(): FormGroup {
    return this.formGroupDirective.formGroup.controls[this.formGroupName];
  }

  /**
   * @description
   *
   *調用 with the "submit" event is triggered on the form.
   * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
   *
   * @param $event The "submit" event object
   */

  onSubmit($event: Event): boolean {
    (this as {submitted: boolean}).submitted = true;
    this._updateDomValue();
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * @description
   *
   * Method called when the "reset" event is triggered on the form.
   */

  onReset(): void {
    this.resetForm();
  }

  /**
   * Resets the form to an initial value and resets its submitted status.
   */

  resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as {submitted: boolean}).submitted = false;
  }

  /**
   * @internal
   */

  _updateDomValue() {
    this.directives.forEach(dir => {
      const newCtrl: any = this.form.get(dir.path);
      if (dir.control !== newCtrl) {
        cleanUpControl(dir.control, dir);
        if (newCtrl) setUpControl(newCtrl, dir);
        (dir as {control: FormControl}).control = newCtrl;
      }
    });
    this.form._updateTreeValidity({emitEvent: false});
  }

  _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._oldForm = this.form;
  }

  _updateValidators() {
    const sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator!, sync!]);
    const async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator!, async!]);
  }

  _checkFormPresent() {
    if (!this.form) {
      ReactiveErrors.missingFormException();
    }
  }
}
FormGroup, and provides methods to retrieve the nested FormGroup and individual controls.

```typescript
/**
 * @description
 * Tracks the name of the FormGroup bound to the directive. The name corresponds
 * to a key in the parent 'FormGroup' or 'FormArray'.
 * Accepts a name as a string or a number.
 * The name in the form of a string is useful for individual forms,
 * while the numerical form allows for form groups to be bound
 * to indices when iterating over groups in a 'FormArray'.
 *
 * @param {string | number | null} name
 * @returns {FormGroup | FormArray}
 */
getName(): FormGroup | FormArray {
  const parent = this._parent;
  if (parent && parent.formGroupName == this.name) {
    return parent.group;
  }
  return null;
}

/**
 * @description
 * The FormGroup bound to this directive.
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level.
 * @returns {string[]}
 */
getControlPath(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}
```

TODO(issue/24571): remove '!'.

```
@Directive({selector: `[formGroupName]`, provides: [FormGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormGroup` bound to the directive. The name corresponds
   * to a key in the parent 'FormGroup' or 'FormArray'.
   * Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms,
   * while the numerical form allows for form groups to be bound
   * to indices when iterating over groups in a 'FormArray'.
   * TODO(issue/24571): remove '!'.
   * @param {string | number | null} name
   * @returns {FormGroup | FormArray}
   */
  getName(): FormGroup | FormArray {
    const parent = this._parent;
    if (parent && parent.formGroupName == this.name) {
      return parent.group;
    }
    return null;
  }

  /**
   * @description
   * The FormGroup bound to this directive.
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   * @returns {string[]}
   */
  getControlPath(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }
```

Synchronous validator function composed of all the synchronous validators registered with this
```typescript
/**
 * @description
 * The top-level directive for this group if present, otherwise null.
 * @returns {FormGroup | FormArray}
 */
getFormPath(): FormGroup | FormArray {
  return this._parent ? this._parent.formDirective.getFormPath() : null;
}
```

Async validator function composed of all the async validators registered with this
directive.
```typescript
/**
 * @description
 * Synchronous validator function composed of all the synchronous validators registered with this
 * @returns {[ValidatorFn, AsyncValidatorFn]}
 */
getValidators(): [ValidatorFn, AsyncValidatorFn] {
  const validators = [this._validators, this._asyncValidators];
  return validators.map((validator) => composeValidators(validator));
}
```
private _checkParentType(): void {
    if (this._hasInvalidParent()) {
        ReactiveErrors.arrayParentException();
    }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
    return !(parent instanceof FormGroupName) && !(parent instanceof FormArrayName);
}

/**
 * @license
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 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
    provide: NgControl,
    useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * 
 * @see 
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form
controls within a group
 * and set their value.
 *
 * example
 *
 * ```
 * forms/ts/simpleFormGroup/simple_form_group_example.ts
 * ```
 *
 * To see
 * examples with different form control types, see:
 *
 * * Radio buttons:
 * ```
 * RadioControlValueAccessor
 * ```
 *
 * * Selects:
 * ```
 * SelectControlValueAccessor
 * ```
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive
 * form directives has
 * been deprecated in Angular 6 and will be removed in a future version of Angular.

 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({selector:

---
export class FormControlName extends NgControl implements OnChanges, OnDestroy {
  private _added = false;
  viewModel: any;

  control!: FormControl;

  name!: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
      @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
      @Optional() @Self() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string | null) {
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
      this.viewModel = this.model;
      this.formDirective.updateModel(this, this.model);
    }
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeControl(this);
    }
  }

  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);
  }

  get formDirective(): any { return this._parent ? this._parent.formDirective : null; }

  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  get asyncValidator(): AsyncValidatorFn {
    return composeAsyncValidators(this._rawAsyncValidators) !;
  }

  private _checkParentType(): void {
    if (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) {
      ReactiveErrors.ngModelGroupException();
    } else if (!
      (this._parent instanceof FormGroupName) &&
      !(this._parent instanceof FormArrayName)) {
      ReactiveErrors.controlParentException();
    }
  }

  private
}
setUpControl() { this._checkParentType(); this (this as{control: FormControl}).control = this.formDirective.addControl(this); this if (this.control.disabled && & this.valueAccessor !=SetDisabledState ()?true): this this._added = true; this

```
protected setupControl() {
    this._checkParentType();
    (this as{control: FormControl}).control =
    this.formDirective.addControl(this);
    this
    if (this.control.disabled && & this.valueAccessor !=SetDisabledState ()
    )
    this._added = true;

```

```
import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';

```

```
_class UpControl() {
    this._checkParentType();
    (this as{control: FormControl}).control =
    this.formDirective.addControl(this);
    this
    if (this.control.disabled && & this.valueAccessor !=SetDisabledState ()
    )
    this._added = true;

    ```

    ```
```

```
```
value != null && value !== false && `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

/**
 * @description
 * Method that validates whether the control is empty.
 * Returns the validation result if enabled, otherwise null.
 * @param {AbstractControl} control
 */
export class CheckboxRequiredValidator extends RequiredValidator {
  /**
   * @description
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   * @param {AbstractControl} control
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator
   * inputs change.
   * @param {Function} fn
   */
  registerOnValidatorChange(fn: () => void) {
    void ( this._onChange = fn; )
  }
}

/**
 * A Directive that adds the `required` validator to checkbox controls marked with
 * the `*` attribute.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * Adding a required checkbox validator using template-driven forms.
 * The following example shows how to add a checkbox required validator to an input
 * attached to an ngModel binding.
 * @param {?} control
 * @param {?} value
 * @return {?} result
 */
export const required = { provide: NG_VALIDATORS, useExisting: CheckboxRequiredValidator, multi: true };
The following example shows how to add a minimum length validator to an input attached to an `ngModel` binding:

```html
<input name="firstName" ngModel minlength="4">
```

```typescript
@Directive({
  selector: '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',
  providers: [MIN_LENGTH_VALIDATOR],
  host: {
    '[attr.minlength]': 'minlength ? minlength : null'}
})
export class MinLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the the minimum length bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
  }

  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * Provides `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true
};

/**
 * A directive that adds max length validation to controls marked with the
 * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS`
 * multi-provider list.
 *
 * @see 
 * `Form Validation` guide
 *
 * @usageNotes
 *
 * ### Adding a maximum length validator
 *
 * The following example shows how to add a maximum length validator to an input attached to an `ngModel` binding:

```html
<input name="firstName" ngModel maxlength="25">
```

```typescript
@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {
    '[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the the maximum length bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * Provides `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true
};

/**
 * A directive that adds regex pattern validation to controls marked with the
 * `pattern` attribute. The regex must match the entire control value.
 *
 * @see [Form Validation] guide
 *
 * @usageNotes
 *
 * ### Adding a pattern validator
 *
 * The following example shows how to add a pattern validator to an input attached to an `ngModel` binding:

```html
<input name="firstName" ngModel pattern="^[A-Za-z]+\.$">
```

```typescript
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {
    '[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the the pattern bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.pattern != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

```

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The following example shows how to add a pattern validator to an input attached to an `ngModel` binding:

```html
<input name="firstName" ngModel pattern="[a-zA-Z ]*">
```

```typescript
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;

  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  @Input() pattern !: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Validates the control.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control);
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern); // TODO(issue/24571)
  }
}
```

---

```typescript
@NgModule({
  declarations: [
    CheckboxControlValueAccessor,
    FormControlDirective,
    FormControlName,
    FormGroupDirective,
    FormGroupName,
    NgForm,
    NgModel,
    NgModelGroup,
    NumberValueAccessor,
    RadioControlValueAccessor,
    SelectControlValueAccessor,
    SelectMultipleControlValueAccessor,
    SelectOption,
    SelectMultipleOption,
    FormArrayName,
    FormArrayName,
    FormGroupName,
    FormGroupName,
    FormControlName,
    FormControlName,
    FormGroupDirective,
    FormGroupDirective,
    NG_MODEL_WITH_FORM_CONTROL_WARNING
  ],
  imports: [
    ReactiveFormsModule,
    FormsModule
  ],
  providers: [
    CheckboxControlValueAccessor,
    FormControlDirective,
    FormControlName,
    FormGroupDirective,
    FormGroupName,
    NgForm,
    NgModel,
    NgModelGroup,
    NumberValueAccessor,
    RadioControlValueAccessor,
    SelectControlValueAccessor,
    SelectMultipleControlValueAccessor,
    SelectOption,
    SelectMultipleOption,
    FormArrayName,
    FormArrayName,
    FormGroupName,
    FormGroupName,
    FormControlName,
    FormControlName,
    FormGroupDirective,
    FormGroupDirective,
    NG_MODEL_WITH_FORM_CONTROL_WARNING
  ],
  exports: [
    CheckboxControlValueAccessor,
    FormControlDirective,
    FormControlName,
    FormGroupDirective,
    FormGroupName,
    NgForm,
    NgModel,
    NgModelGroup,
    NumberValueAccessor,
    RadioControlValueAccessor,
    SelectControlValueAccessor,
    SelectMultipleControlValueAccessor,
    SelectOption,
    SelectMultipleOption,
    FormArrayName,
    FormArrayName,
    FormGroupName,
    FormGroupName,
    FormControlName,
    FormControlName,
    FormGroupDirective,
    FormGroupDirective,
    NG_MODEL_WITH_FORM_CONTROL_WARNING
  ]
})
```
import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param
   * options Configuration options object for the `FormGroup`. The object can have two shapes:
   * * `AbstractControlOptions` object (preferred), which consists of:
   *   * `validators`: A synchronous
   *     validator function, or an array of validator functions
   *   * `asyncValidators`: A single async validator or array of
   *     async validator functions
   *   * `updateOn`: The event upon which the control should be updated (options: 'change' |
   *     'blur' | 'submit')
   * * `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
   * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
   * forms.
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  group(
      controlsConfig: {[key: string]: any},
      options: AbstractControlOptions | {[key: string]: any} | null = null):
    this._reduceControls(controlsConfig);

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    return new FormGroup(controlsConfig, {validators, asyncValidators, updateOn});
}

/*

"/directives/select_control_value_accessor";export {NgSelectMultipleOption,
  SelectMultipleControlValueAccessor} from './directories/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  DefaultValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatus,
  NgControlStatusGroup,
  RequiredValidator,
  MinLengthValidator,
  MaxLengthValidator,
  PatternValidator,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  CheckboxRequiredValidator,
  EmailValidator,
  NgModelGroup,
  NgModel,
  NgForm];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [
  NgModel,
  NgModelGroup,
  NgModel,
  NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] = [
  FormControlDirective,
  FormGroupDirective,
  FormControlName,
  FormGroupName,
  FormArrayName];

/**
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 * 
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 * 
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   * 
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   * 
   * @param
   * options Configuration options object for the `FormGroup`. The object can have two shapes:
   * * `AbstractControlOptions` object (preferred), which consists of:
   *   * `validators`: A synchronous
   *     validator function, or an array of validator functions
   *   * `asyncValidators`: A single async validator or array of
   *     async validator functions
   *   * `updateOn`: The event upon which the control should be updated (options: 'change' |
   *     'blur' | 'submit')
   * * `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
   * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
   * forms.
   * 
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  group(
      controlsConfig: {[key: string]: any},
      options: AbstractControlOptions | {[key: string]: any} | null = null):
    this._reduceControls(controlsConfig);

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    return new FormGroup(controlsConfig, {validators, asyncValidators, updateOn});
}
asyncValidator A single async validator or array of async validators
functions.

### Initialize a control as disabled

* The following example returns a control with an initial value in a
disabled state.

* `<code-example path="\forms\ts\formBuilder\form_builder_example.ts" region="\disabled-control\">`

* `<code-example>

* An control\(\) on formState: any, validatorOrOpts?:
ValidatorFn|ValidatorFn\[]\]null\(\) asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn\[]\]null\(\) FormControl \{ \n
  return new FormControl(formState, validatorOrOpts, asyncValidator\(\));
}

* Constructs a new 'FormArray' from the given array of

* validators and options.

* @param controlsConfig An array of child controls or control

* configs. Each child control is given an index when it is registered.

* @param validatorOrOpts A synchronous validator function, or an array of

* such functions, or an 'AbstractControlOptions' object that

* contains validation functions and a validation trigger.

* @param asyncValidator A single async validator or array of async validators

* functions.

* * array\(\) of\(\) \(\) validatorsConfig\(\) \(\) any\(\)\(\]null\(\) asyncValidator?:
ValidatorFn|ValidatorFn\[]\]null\(\) asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn\[]\]null\(\) FormArray \{ \n
  const controls = controlsConfig.map(c =>
      this._createControl(c));

  return new FormArray(controls, validatorOrOpts, asyncValidator\(\));
}

* Constructs a new 'FormArray' from the given array of

* configurations.

* * const\(\) controls: \{\}

* Object.keys(controlsConfig).forEach(controlName => {

  controls[controlName] = this._createControl(controlsConfig[controlName]);

});

* return controls\(\);
/**
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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 * This module is used for handling user input, by defining and building a
 `FormGroup` that
 * consists of `FormControl` objects, and mapping them onto the DOM. `FormControl`
 * objects can then be used to read information from the form DOM elements.
 * Forms providers are not included in default providers; you must import these providers
 * explicitly.
 */

export
{ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from
'directives/abstract_control_directive';
export {AbstractFormGroupDirective} from
'directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from
'directives/checkbox_value_accessor';
export {ControlContainer} from './directives/control_container';
export {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator,
RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
export {FormBuilder} from './form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup} from './model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from './validators';
export {VERSION} from './version';

export * from './form_providers';

// This file is not used to build this module. It is only used during editing
// by the
// TypeScript language service and during build for verification. `ngc`
// replaces this file with production index.ts
// when it rewrites private symbol
// names.

export * from './public_api';

export {InternalFormsSharedModule as ɵangular_packages_forms_forms_d,REACTIVE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_c,SHARED_FORM_DIRECTIVES as ɵangular_packages_forms_forms_a,TEMPLATE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_b} from './src/directives';
export {CHECKBOX_VALUE_ACCESSOR as ɵangular_packages_forms_forms_e} from './src/directives/checkbox_value_accessor';
export {DEFAULT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_f} from
Open Source Used In MSX Enterprise Access Service Pack 4.0.0
Open Source Used In MSX Enterprise Access Service Pack 4.0.0
/**
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 * the LICENSE file at https://angular.io/license
 */

import {InjectionToken} from '@angular/core';

/**
 *
 * @description
 * Defines an interface that acts as a bridge between the Angular forms API and a
 * native element in the DOM.
 *
 * Implement this interface to create a form control directive that integrates with
 * Angular forms.
 *
 * * @see DefaultValueAccessor
 * @publicApi
 */
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   *
   * This method is called by the forms API to write to the view when programmatic
   * changes from model to view are requested.
   *
   * The new value for the element
   * @param value
   * @returns
   * @usageNotes
   * ### Write a value to the element
   *
   * The following example writes a value to the DOM.
   *
   * ```ts
   * writeValue(value: any): void {
   *   this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
   * }
   * ```
   *
   * @param value
   * @returns
   */
  writeValue(value: any): void;

  /**
   * @description
   * Registers a callback function that is called when the control's value
   * changes in the UI.
   *
   * When implementing the `registerOnChange` method in your own value accessor,
   * save the given function so your class calls it when the control
   * should be considered blurred or "touched".
   *
   * The following example stores the provided function as an internal method.
   *
   * ```ts
   * registerOnChange(fn: (_: any) => void): void {
   *   this._onChange = fn;
   * }
   * ```
   *
   * On blur (or equivalent), your class should call the registered
   * function to allow the forms API to update itself:
   *
   * ```ts
   * host:
   *   {blur: 'this._onChange()'}
   * ```
   *
   * @param fn
   * @returns
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function that is called when the control's value changes
   * in the UI.
   *
   * When implementing the `registerOnTouched` method in your own value accessor,
   * save the given function so your class calls it when the control
   * should be considered blurred or "touched".
   *
   * The following example stores the provided function as an internal method.
   *
   * ```ts
   * registerOnTouched(fn: (any) => void): void {
   *   this._onTouched = fn;
   * }
   * ```
   *
   * On blur (or equivalent), your class should call the registered
   * function to allow the forms API to update itself:
   *
   * ```ts
   * host:
   *   {blur: 'this._onTouched()'}
   * ```
   *
   * @param fn
   * @returns
   */
  registerOnTouched(fn: any): void;

  /**
   * @description
   * Function that is called by the forms API when
   * the control status changes to
   * or from 'DISABLED'. Depending on the status, it enables or disables the
   * appropriate DOM element.
   *
   * The following is an example of writing the disabled property to a native DOM element:
   *
   * ```ts
   * setDisabledState(isDisabled: boolean): void {
   *   this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
   * }
   * ```
   *
   * @param isDisabled
   * @returns
   */
  setDisabledState?(isDisabled: boolean): void;
}

/**
 * Used to provide a `ControlValueAccessor` for form controls.
 *
 * See `DefaultValueAccessor` for how to implement one.
 *
 * @publicApi
 */
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');
checkbox with a reactive form.

```ts
const rememberLoginControl = new FormControl();

<input type="checkbox">
```

```ts
const rememberLoginControl = new FormControl();

<input type="checkbox">
```

```ts
@Directive({
  selector:

`input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',
```

```ts
@Directive({
  selector:

`input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',
```

```ts
@Directive({
  selector:

`input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',
```
Whether the user is creating a composition string (IME events). *\n private _composing = false;*\n constructor(*\n private _renderer: Renderer2, private _elementRef: ElementRef,*\n @Optional() *\n @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {*\n if (this._compositionMode == null) {*\n this._compositionMode = !_isAndroid;*\n }*\n }*\n /** * Sets the `\value` property on the input element.*\n * @param value The checked value*\n * @description *\n * Registers a function called when the control value changes.*\n * @param fn The callback function*\n * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */*\n abstract get control(): AbstractControl|null;*\n
/**
 * @description
 * A reference to the
 *
 * @returns the control that backs this directive. Most properties fall through to that
 */
export abstract class AbstractControlDirective {*\n
  /**
   * @description
   * Reports the value of
   *
   * @param fn The callback function
   */
  abstract get control(): AbstractControl|null;

  /**
   * @description
   * Reports the value of
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void): void { this.onTouched = fn;*\n	}

  /**
   * @description
   * Registers a function called when the control is touched.*\n * @param fn The callback function*\n * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  registerOnChange(fn: (_: any) => void): void { this.onChange = fn;*\n	}

  /**
   * Sets the "disabled" property on the input element.*\n * @param isDisabled The disabled value
 * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  setDisabledState(isDisabled: boolean): void {*\n	}

  /**
   * Registers whether a control is pending, meaning that that async validation is occurring and
   * errors are not yet available for the input value. If the control is not present, null is returned.*\n * @returns boolean|null *\n	}

  /**
   * Sets the "value" property on the
   *
   * @param value The checked value
   */
  writeValue(value: any): void {*\n	}

  /**
   * Registers whether the user is creating a composition string (IME events).*\n * @param value The checked value*\n * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  registerOnBlur(fn: () => void): void { this.onBlur = fn;*\n	}

  /**
   * Sets the "enabled" property on the input element.*\n * @param isDisabled The enabled value
 * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  setEnabledState(isDisabled: boolean): void {*\n	}

  /**
   * Registers whether the control is pristine, meaning that the user has not yet changed
   * the value in the UI. If the control is not present, null is returned.*\n * @returns boolean|null *\n	}

  /**
   * Registers whether the control is invalid, meaning that an error exists in the input value.*\n * @returns boolean|null *\n	}

  /**
   * Registers whether the control is valid. A control is considered valid if no validation errors exist with the current value.*\n * @returns boolean|null *\n	}

  /**
   * Sets the "value" property on the
   *
   * @returns the control that backs this directive. Most properties fall through to that
 */
export abstract class AbstractControlDirective {*\n
  /**
   * @description
   * A reference to the
 *
 * This class is only used internally in the 'ReactiveFormsModule' and the 'FormsModule'. It
 * @publicApi
 * @returns the control that backs this directive. Most properties fall through to that instance.
 */
  abstract get control(): AbstractControl|null;*\n
  /**
   * @description
   * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  registerOnWriteValue(fn: (value: any) => void): void { this.writeValue = fn;*\n	}

  /**
   * @description
   * Registers whether the control value has changed.*\n * @param fn The callback function*\n * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  registerOnChange(fn: (_: any) => void): void { this.onChange = fn;*\n	}

  /**
   * @description
   * Registers whether the control is touched, meaning that the user has triggered
   * a 'blur' event on it. If the control is not present, null is returned.*\n * @returns boolean|null *\n	}

  /**
   * Reports the value of
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void): void { this.onTouched = fn;*\n	}

  /**
   * Registers a function called when the control is touched.*\n * @param fn The callback function*\n * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  registerOnBlur(fn: () => void): void { this.onBlur = fn;*\n	}

  /**
   * Sets the "enabled" property on the input element.*\n * @param isDisabled The enabled value
 * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  setEnabledState(isDisabled: boolean): void {*\n	}

  /**
   * Registers whether the user is creating a composition string (IME events).*\n * @param value The checked value*\n * @description *\n * A reference to the underlying control.*\n * @returns the control that backs this directive. Most properties fall through to that instance.*\n */
  registerOnFocus(fn: () => void): void { this.onFocus = fn;*\n	}

  /**
   * Sets the "value" property on the
   *
   * @param value The checked value
   */
  writeValue(value: any): void {*\n	}

  /**
   * Sets the "value" property on the
   *
   * @param value The checked value
   */
  writeValue(value: any): void {*\n	}

  /**
   * Reports the value of
   *
   * @param fn The callback function
   */
  registerOnFocus(fn: () => void): void { this.onFocus = fn;*\n	}
extend. It binds `FormControl` object to a DOM element.

```typescript
export abstract class NgControl extends AbstractControlDirective {
  /**
   * The parent form for the control.
   */
  @internal
  _parent: ControlContainer|null = null;

  /**
   * The name for the control
   */
  name: string|number|null = null;

  /**
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor|null = null;

  /**
   * The registered synchronous validator function for the control
   */
  get validator(): ValidatorFn|null { return <ValidatorFn>unimplemented(); }

  /**
   * The registered async validator function for the control
   */
  get asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented(); }

  abstract viewToModelUpdate(newValue: any): void;
}

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 */

import {Directive, Self} from '@angular/core';

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {NgControl} from './ng_control';

export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) { this._cd = cd; }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status (valid/invalid/dirty/etc).
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
  '[formControlName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm]',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

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 */

import {InjectionToken, ɵisObservable as isObservable, ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return
```
Open Source Used In MSX Enterprise Access Service Pack 4.0.0

value == null || value.length === 0;

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`. An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * This regex was ported over from AngularJS (see there for git history):
 * https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27
 * It is based on the
 * [WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address). The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow total address length to exceed 254 characters.
 *
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
 */
const EMAIL_REGEXP = /^\w+([-+\w.%+-]+\w+)?@\w+([-+\w.-]+\w+)?\w+([-+\w.-]+\w+)?$/;

/**
 * @description
 * Provides a set of built-in validators that can be used by form controls.
 *
 * A validator is a function that processes a `FormControl` or collection of controls and returns an error map or null. A null map means that validation has passed. A null map means that validation has passed.
 *
 * The validator exists only as a function and not as a directive.
 */
export class Validators {
  /**
   * Validator that requires the control's value to be greater than or equal to the provided number.
   *
   * @usageNotes
   *
   * ### Validate against a minimum of 3
   *
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * console.log(control.errors); // {min: {min: 3, actual: 2}}
   * ```
   *
   * @returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   */
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || (!control.value)) {
        return null; // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      // Controls with NaN values after parsing should be treated as not having a value.
      // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    };
  }
}
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```typescript
const control = new FormControl('Angular', Validators.required);
```

### Validate that the field has maximum of 5 characters
- The field has maximum of 5 characters by default if you use the HTML5 `maxlength` attribute.

### Validate that the field has a minimum of 3 characters
- The field has a minimum of 3 characters as specified in the HTML5 specification.

### Validate that the field matches a valid email pattern
- The email pattern is used to validate the value against a specific email format.

### Validate that the field value is true
- Use the `Validators.requiredTrue` validator to validate if the value is true.

### Validate that the field is non-empty
- Use the `Validators.required` validator to ensure the field is not empty.

### Validate that the control pass an email validation test
- Use the `Validators.email` validator to test if the value matches a valid email pattern.

### Validate that the field has maximum of 5 characters
- Use the `Validators.max` validator to validate if the value is less than or equal to the maximum length.

### Validate that the field has a minimum of 3 characters
- Use the `Validators.minLength` validator to validate if the value is greater than or equal to the minimum length.

### Validate that the field matches a valid email pattern
- Use the `Validators.pattern` validator to validate if the value matches a specific pattern.

### Validate that the field value is true
- Use the `Validators.requiredTrue` validator to validate if the value is true.

### Validate that the field is non-empty
- Use the `Validators.required` validator to ensure the field is not empty.

### Validate that the control pass an email validation test
- Use the `Validators.email` validator to test if the value matches a valid email pattern.

### Validate that the field has maximum of 5 characters
- Use the `Validators.max` validator to validate if the value is less than or equal to the maximum length.

### Validate that the field has a minimum of 3 characters
- Use the `Validators.minLength` validator to validate if the value is greater than or equal to the minimum length.

### Validate that the field matches a valid email pattern
- Use the `Validators.pattern` validator to validate if the value matches a specific pattern.
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```javascript
function _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]): AsyncValidatorFn|null {
  if (!validators) return null;
  const presentValidators: AsyncValidatorFn|null = validators.filter(isPresent) as any;
  if (presentValidators.length == 0) return null;

  return
```
bug // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
arrayOfErrors [null] => {\n  res = errors != null ? {\n    ...res!, ...errors : res}\n  }\n}\nreturn
Object.keys(res).length === 0 ? null : res\n\n// *\n/** 
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* found in the LICENSE file at https://angular.io/license
*/

import {AbstractControl} from './model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';
import {formControlName, formControl, NgModel, ReactiveFormsModule, FormsModule, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as Validator).validate(c);
  } else {
    return validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
  }
}

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 */

import {AbstractControl} from './model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as Validator).validate(c);
  } else {
    return validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes.
 */
export interface ControlValueAccessor {
  writeValue(value: number): void;
  registerOnChange(fn: (_: number|null) => void): void;
  registerOnTouched(fn: () => void): void;
  setDisabledState(isDisabled: boolean): void;
}

const NUMBER_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => NumberValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes.
 */
@Injectable()
export class NumberValueAccessor implements ControlValueAccessor {
  /**
   * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
   * `NgModel` directives.
   */
  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
    this._renderer = _renderer;
    this._elementRef = _elementRef;
    this.onChange = () => {};
    this.onTouched = () => {};
  }

  /**
   * Sets the "value" property on the input element.
   *
   * @param value The checked value
   */
  writeValue(value: number): void {
    \n    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when a change or input event occurs on the input
   * element.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control value changes
   * and the control is not disabled.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  // The value needs to be normalized for IE9, otherwise it is set to 'null' when
  // null
  const normalizedValue = value == null ? '' : value;
  this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
}

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes.
 */
@Injectable()
export class RadioValueAccessor implements ControlValueAccessor {

  /**
   * Registers a function called when the control value changes
   * and the control is not disabled.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control value changes
   * and the control is not disabled.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

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  // found in the LICENSE file at https://angular.io/license
   */

import {AbstractControl} from './model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as Validator).validate(c);
  } else {
    return validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
  }
}

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 */

import {AbstractControl} from './model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as Validator).validate(c);
  } else {
    return validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes.
 */
@Injectable()
export class NumberValueAccessor implements ControlValueAccessor {

  /**
   * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
   * `NgModel` directives.
   */
  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
    this._renderer = _renderer;
    this._elementRef = _elementRef;
    this.onChange = () => {};
    this.onTouched = () => {};
  }

  /**
   * Sets the "value" property on the input element.
   *
   * @param value The checked value
   */
  writeValue(value: number): void {
    // The value needs to be normalized for IE9, otherwise it is set to 'null' when
    // null
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when a change or input event occurs on the input
   * element.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control value changes
   * and the control is not disabled.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

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  // found in the LICENSE file at https://angular.io/license
   */

import {AbstractControl} from './model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as Validator).validate(c);
  } else {
    return validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
  }
}

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    (validator as Validator).validate(c);
  } else {
    return validator;
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export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
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  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as Validator).validate(c);
  } else {
    return validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
  if (validator.validate) {
    return (c: AbstractControl) =>
    (validator as AsyncValidator).validate(c);
  } else {
    return validator;
  }
}
RadioControlRegistry {
  private _accessors: any[] = [];
  /** @description * Adds a control to the internal registry. For internal use only.
   * @param control NgControl, accessor: RadioControlValueAccessor */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /** @description * Removes a control from the internal registry. For internal use only.
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
      }
    }
  }

  /** @description * Selects a radio button. For internal use only.
   */
  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0].parent === accessor._control._parent && controlPair[1].name === accessor.name;
  }
}

/** @description The `ControlValueAccessor` for writing radio control values and listening to radio control\n changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and\n `NgModel` directives.\n * @usageNotes * Using radio buttons with reactive form directives\n * The follow example shows how to use radio buttons in a reactive form. When using radio buttons in\n a reactive form, radio buttons in the same group should have the same `FormControlName`.\n * Providing a `name` attribute is optional.\n * The example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'\n * * * @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'\n * * * @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'\n * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control: NgControl;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _fn: Function;

  /** @description * The registered callback function called when a change event occurs on the input element.\n   */
  onChange = () => {};

  /** @description * The registered callback function called when a blur event occurs on the input element.\n   */
  onTouched = () => {};

  /** @description * Tracks the name of the radio input element.\n   */
  name: string;

  /** @description * Tracks the name of the `FormControl` bound to the directive. The name corresponds\n   to a key in the parent `FormGroup` or `FormArray`.\n   */
  formControlName: string;

  /** @description * Tracks the value of the radio input element.\n   */
  value: any;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

  /** @description * A lifecycle method called when the directive is initialized. For internal use only.\n   */
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  /** @description * Lifecycle method called before the directive’s instance is destroyed. For internal use only.\n   */
  ngOnDestroy(): void {
    this._registry.remove(this);
  }

  /** @description * Sets the "checked" property on the radio input element and unchecks it.\n   */
  fireUncheck(value: any): void {
    this.writeValue(value);
  }

  /** @description * Sets the "disabled" property on the input element.\n   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  private _checkName(): void {
    if (this.name && this.formControlName && this.name !== this.formControlName) {
      this._throwNameError();
    }
    if (!this.name &&
this.formControlName) this.name = this.formControlName;
})

private _throwNameError(): void {
  throw new Error(`
    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
}

private _throwNameError(): void {
  throw new Error(`
    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
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}

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  throw new Error(`
    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
}

this.formControlName) this.name = this.formControlName;
})

private _throwNameError(): void {
  throw new Error(`
    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
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    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
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    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
}

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  throw new Error(`
    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
}

private _throwNameError(): void {
  throw new Error(`
    If you define both a name and a formControlName attribute on your radio button, their values
    must match. Ex: <input type="radio" formControlName="food" name="food">`);
}
export class ReactiveErrors {
  /**
   * @description
   * The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
   * @usageNotes
   * ### Using select controls in a reactive form
   * The following examples show how to use a select control in a reactive form.
   * ```
   * @example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'
   * ```
   * ### Using select controls in a template-driven form
   * To use a select in a template-driven form, simply add an `ngModel` and a `name` attribute to the main `<select>` tag.
   * ```
   * @example forms/ts/selectControl/select_control_example.ts region='Component'
   * ```
   * ### Customizing option selection
   * Angular uses object identity to select option. It’s possible for the identities of items in the data to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn’t changed, the second response will produce objects with different identities.
   * Using select controls in a template-driven form allows you to customize the default option comparison algorithm. The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`, `FormGroupName`, and `NgModel` directives.
   * ```
   * @example forms/ts/selectControl/select_control_example.ts region='Component'
   * ```
   * Using select controls in a reactive form
   * The following examples show how to use a select control in a reactive form.
   * ```
   * @example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'
   * ```
   * Using select controls in a template-driven form
   * ```
   * @example forms/ts/selectControl/select_control_example.ts region='Component'
   * ```
   * Customizing option selection
   * ```
   * @example forms/ts/selectControl/select_control_example.ts region='Component'
   * ```
   * Angular uses object identity to select option. It’s possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn’t changed, the second response will produce objects with different identities.
   * To customize the default option comparison algorithm, you can use the `compareWith` input.
   * ```
   * @example forms/ts/selectControl/select_control_example.ts region='Component'
   * ```
   * The `compareWith` takes a function, and you can pass other options to it. To compare two values, you can use the `FormControlDirective`.
   * ```
   * @example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'
   * ```
   * Using select controls in a template-driven form
   * ```
   * @example forms/ts/selectControl/select_control_example.ts region='Component'
   * ```
   * Customizing option selection
   * ```
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   * ```
   * Angular uses object identity to select option. It’s possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn’t changed, the second response will produce objects with different identities.
given. Angular selects option by the return value of the function.

```ts
const selectedCountriesControl = new FormControl();

@Component({
  selector: 'app-country-selector',
  templateUrl: './country-selector.component.html',
  styleUrls: ['./country-selector.component.css']
})
export class CountrySelectorComponent {
  countries = [
    {name: 'United States', code: 'US'},
    {name: 'Canada', code: 'CA'},
    {name: 'Mexico', code: 'MX'}
  ];

  selectedCountriesControl = new FormControl();

  constructor(private formBuilder: FormBuilder) {
    this.selectedCountriesControl = formBuilder
      .controlValueAccessor({
        writeValue: (value) => {
          this.countries = value;
        },
        registerOnChange: (fn) => {
          fn(value);
        },
        registerOnTouched: () => {
          this.countries = value;
        }
      });
  }
}
```

---

**Note:** We listen to the 'change' event because 'input' events aren't fired for selects in Firefox and IE:

https://bugzilla.mozilla.org/show_bug.cgi?id=1024350

---

```typescript
@Directive({
  selector: 'select:not([multiple])

  /**
   * Marks `<option>` as dynamic, so Angular can be notified when options change.
   */
  @publicApi
  @NgModule({
    providers: [
      NgSelectOption
    ]
  })
})
export class NgSelectOption implements OnDestroy {
  /**
   * ID of the option element
   */
  id: string;

  constructor(@Optional() @Host() private _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * Tracks the value bound to the option element. Unlike the value binding, `ngValue` supports
   * binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._select._optionMap.set(this.id, value);
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * Sets the disabled property on the select input element.
   */
  set disabled(isDisabled: boolean) {
    if (this._select == null) return;
    if (isDisabled) {
      this._select.writeValue(null);
    } else {
      this._select.writeValue(this._select.value);
    }
  }
}
```
the option element. For objects, use the `ngValue` input binding:
```typescript
// For objects, use the `ngValue` input binding.
let value: any; // value
let object: any = { value: value, id: 'id' };
this.writeValue(object);
```

The `writeValue` method sets the value of the multiple select control. It is called when the value of the control changes. The method takes an object as an argument and sets the value property of the select's options.

```typescript
writeValue(object: any): void {
  this.value = object;
  for (let option of this._optionMap.values()) {
    option.writeValue(object.value);
  }
}
```

## Lifecycle Methods
The `SelectMultipleControlValueAccessor` provides lifecycle methods that are called when the control's instance is destroyed or when a change event occurs on the input element.

### ngOnDestroy
When the control's instance is destroyed, the `onDestroy` method is called. It removes the option map from the select and calls the value accessor's method.

```typescript
ngOnDestroy(): void {
  if (this._select) {
    this._select._optionMap.delete(this.id);
    this._select.writeValue(this._select.value);
  }
}
```

### onChange
The `onChange` method is called when a change event occurs on the input element. It is passed the event target as an argument.

```typescript
onChange($event: any): void {
  this.onChange($event.target);
}
```

### onTouched
The `onTouched` method is called when a blur event occurs on the input element.

```typescript
onTouched(): void {
  this.onTouched();
}
```
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```typescript
selected options; /*\n * @param fn The callback function
 *\n * registerOnChange(fn: (value: any) => any):
 *\n *  void (\n *    this.onChange = (_: any) => {\n *      const selected: Array<any> = [];\n *      if (_hasOwnProperty('selectedOptions')) {\n *        const options: HTMLCollection = _selectedOptions;\n *        for (let i = 0; i < options.length; i++) {\n *          const opt: any = options.item(i);\n *          const val: any =\n *            this._getOptionValue(opt.value);\n *          selected.push(val);\n *        }\n *      }\n *      // Degrade on IE\n *      else {\n *        const options: HTMLCollection = <HTMLCollection>_options;\n *        for (let i = 0; i < options.length; i++) {\n *          const opt: HTMLOption = options.item(i);\n *          if (opt.selected) {\n *            const val: any =\n *              this._getOptionValue(opt.value);\n *            selected.push(val);\n *          }\n *        }\n *      }\n *      this.value = selected;\n *      fn(selected);\n *    }\n *  }\n *\n * registerOnTouched(fn: () => any): void { this.onTouched = fn;\n *\n * setDisabledState(isDisabled: boolean): void {\n *  this.renderer.setProperty(this.elementRef.nativeElement, 'disabled', isDisabled);\n *}\n *\n * _registerOption(value: ɵNgSelectMultipleOption): string {\n *    const id: string = (this._idCounter++).toString();\n *    this._optionMap.set(id, value);\n *    return id;\n *  }\n *\n * _getOptionId(value: any): string|null {\n *    for (const id of Array.from(this._optionMap.keys())) {\n *      if (this._compareWith(this._optionMap.get(id)!.value, value)) return id;\n *    }\n *    return null;\n *  }\n *\n * _getOptionValue(valueString: string): any {\n *    const id: string = _extractId(valueString);\n *    return this._optionMap.has(id) ? this._optionMap.get(id)!.value : valueString;\n *  }\n */

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.\n *\n * @see `SelectMultipleControlValueAccessor`\n *\n * @param isDisabled\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {\n  // TODO(issue/24571): remove `!`.\n  id!: string;\n  /**\n   * @internal\n   */\n  _value: any;\n
  constructor(\n      private _element: ElementRef, private _renderer: Renderer2,\n      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {\n    if (this._select) {\n      this.id = this._select._registerOption(this);\n    }\n  }

  /**\n   * @description\n   * Tracks the value bound to the option element. Unlike the value binding,\n   *\n   * @Input('ngValue')\n   *\n   * @Input('value')\n   */
  @Input('ngValue')\n  set ngValue(value: any) {\n    if (this._select == null) return;\n    this._value = value;\n    this._setElementValue(_buildValueString(this.id, value));\n    this._select.writeValue(this._select.value);\n  }

  /**\n   * @description\n   * Tracks simple string values bound to the option element. For objects, use the\n   * `ngValue` input binding.\n   *\n   * @Input('value')\n   */
  @Input('value')\n  set value(value: any) {\n    if (this._select) {\n      this._value = value;\n      this._setElementValue(_buildValueString(this.id, value));\n      this._select.writeValue(this._select.value);\n    } else {\n      this._setElementValue(value);\n    }\n  }

  /**\n   * Lifecycle method called before the directive's instance is destroyed. For internal use only.\n   */
  ngOnDestroy(): void {\n    if (this._select) {\n      this._select._optionMap.delete(this.id);\n      this._select.writeValue(this._select.value);\n    }\n  }
}
```

---

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```typescript
import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {NgControl} from './ng_control';
import {normalizeAsyncValidator, normalizeValidator} from './normalize_validator';
import {NumberValueAccessor} from
```
import {RadioControlValueAccessor} from './radio_control_value_accessor';
import {RangeValueAccessor} from './range_value_accessor';
import {FormArrayName} from './reactive_directives/form_group_name';
import {ReactiveErrors} from './reactive_errors';
import {SelectControlValueAccessor} from './select_control_value_accessor';
import {SelectMultipleControlValueAccessor} from './select_multiple_control_value_accessor';
import {AsyncValidatorFn, ValidatorFn} from './validators';

export function controlPath(name: string | null,
    parent: ControlContainer): string[] {
    return [...parent.path !, name !];
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

control.validator = Validators.compose([control.validator !, dir.validator]);
control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);

control.registerOnDisabledChange((isDisabled: boolean) => {
  dir.valueAccessor!.setDisabledState(isDisabled);
});

control.registerOnTouched(() => _noControlError(dir));

control.registerOnChange((newValue: any) => {
  dir.valueAccessor!.writeValue(newValue);
});

control.registerOnTouched(() => _noControlError(dir));

if (control) control._clearChangeFns();
}

export function setUpFormContainer(
    control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName) {
  if (control == null) _throwError(dir, 'Cannot find control with');
  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path!.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path ![0]) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function
composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>):
    AsyncValidatorFn|null {
      return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
    }

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];
  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [
  CheckboxControlValueAccessor,
  RangeValueAccessor,
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' & control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });
}

// TODO: vsavkin remove it once https://github.com/angular/angular/issues/3011 is implementedexport function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;
  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with');
  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let builtInAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;
  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      if (builtInAccessor)
        _throwError(dir, 'More than one built-in value accessor matches form control with');
      builtInAccessor = v;
    } else {
      if (customAccessor)
        _throwError(dir, 'More than one custom value accessor matches form control with');
      customAccessor = v;
    }
  });
  if (customAccessor) return customAccessor;
  if (builtInAccessor) return builtInAccessor;
  if (defaultAccessor) return defaultAccessor;
  _throwError(dir, 'No valid value accessor for form control with');
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation periodexport function _ngModelWarning(
    name: string,
    type: {_ngModelWarningSentOnce: boolean},
    instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;
  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

/*
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives';
import {FormControl, NgControl, NgControlGroup, NgControlStatus} from './directives';

export class FormControlGroup extends NgControlGroup {
  constructor(private control: FormControl, private validators: Array<ValidatorFn>): super();
  ngOnChanges(changes: {[key: string]: any}, viewModel: any): boolean {
    return !looseIdentical(viewModel, changes['model']);
  }
  // This is necessary to ensure that this object is disposed of when this group is
  // disposed of
  ngOnDestroy(): void {
    // Ensure the validator is disposed of when the group is disposed of
    if (this.validators.length > 0) {
      this.control = null;
    }
  }
}

export class AbstractControl extends NgControl {
  constructor(private control: FormControl, private group: FormControlGroup, private validators: Array<ValidatorFn>) {
    super();
    this.control = null;
    this.group = null;
    this.validators = null;
  }
  /*
   * This is necessary to ensure that this object is disposed of when this group is
   * disposed of
   */
  ngOnDestroy(): void {
    // Ensure the validator is disposed of when the group is disposed of
    if (this.validators.length > 0) {
      this.control = null;
    }
  }
}
control;\n  path.forEach((name: string | number) => {\n    if (controlToFind instanceof FormGroup) {\n      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ? controlToFind.controls[name] : null;}\n  } else if (controlToFind instanceof FormArray) {\n    controlToFind = controlToFind.at(<number>name) || null;}\n  return controlToFind;\n})\n\nfunction coerceToValidator(\n  validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator = isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).validators : validatorOrOpts;

  return Array.isArray(validator) ? composeValidators(validator) : validator || null;
}

function coerceToAsyncValidator(\n  asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,\n  validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator = isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).asyncValidators : asyncValidator;

  return Array.isArray(origAsyncValidator) ? composeAsyncValidators(origAsyncValidator) : origAsyncValidator || null;
}

/**
 * Interface for options provided to an
 * `AbstractControl`.
 *
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * @description
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;
  /**
   * @description
   * The event name for control to update
   * upon.
   */
  updateOn?: 'change'|'blur'|'submit';
}

/**
 * This is the base class for
 * `FormControl`, `FormGroup`, and `FormArray`.
 *
 * It provides some of the shared behavior that all controls
 * and groups of controls have, like
 * running validators, calculating status, and resetting state. It also defines the
 * properties
 * that are shared between all sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be
 * instantiated
 * directly.\n
 * \@see [Forms Guide](/guide/forms)\n * \@see [Reactive Forms Guide](/guide/reactive-forms)\n * \@see [Dynamic Forms Guide](/guide/dynamic-form)\n *
 * \@publicApi
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;

  // TODO(issue/24571): remove '!'.
  _pendingTouched !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  // TODO(issue/24571): remove '!'.
  _updateOn !: FormHooks;

  // TODO(issue/24571): remove '!'.
  _parent !: FormGroup | FormArray;

  /**
   * The current value of the control.
   *
   * \@param validator The function that determines the synchronous validity of this control.
   * \@param constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) \{null /**
   * @return this._parent;
   */

}
its `status` is `INVALID`.

* When you add or remove a validator at runtime, you must call
  `updateValueAndValidity()` for the new validation to take effect.

* Sets the synchronous validators that are active on this control.
  Calling `this` overwrites any existing sync validators.

* When you add or remove a validator at runtime, you must call
  `updateValueAndValidity()` for the new validation to take effect.

* Sets the async validators that are active on this control.
  Calling `this` overwrites any existing async validators.

* When you add or remove a validator at runtime, you must call
  `updateValueAndValidity()` for the new validation to take effect.

* Marks the control as `touched`. A control is touched if its `status` is `Touched`.

* When you add or remove a validator at runtime, you must call
  `updateValueAndValidity()` for the new validation to take effect.

* Marks the control as `dirty`. A control is dirty if its `status` is `Dirty`.

* Marks the control as `pristine` if the user has not yet changed the value.

* When you add or remove a validator at runtime, you must call
  `updateValueAndValidity()` for the new validation to take effect.
as({touched: boolean}).touched = true;

if (this._parent && !opts.onlySelf) {
    this._parent.markAsTouched(opts);
}

/**
 * Marks the control as `touched`. When true, mark only this control. When false or not supplied,
 * marks all direct ancestors. Default is false.
 */
markAsTouched(onlySelf: boolean) {
    this.markAsTouched({onlySelf: true});
    this._parent.markAsTouched({onlySelf: true});
}

/**
 * Marks the control and all its descendant controls as `touched`.
 * @see `markAsTouched()`
 */
markAllAsTouched(): void {
    this.markAsTouched({onlySelf: true});
    this._forEachChild((control: AbstractControl) => control.markAllAsTouched());
}

/**
 * Marks the control as `untouched`.
 * @see `markAsTouched()`
 */
markAllAsUntouched(): void {
    this.markAsUntouched({onlySelf: true});
    this._forEachChild((control: AbstractControl) => control.markAllAsUntouched());
}

/**
 * Marks the control as `untouched`.
 * @see `markAsTouched()`
 * @see `markAsDirty()`
 * @see `markAsPristine()`
 */
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
    (this as {touched: boolean}).touched = false;
    this._pendingTouched = false;

    this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}));
    if (this._parent && !opts.onlySelf) {
        this._parent.markAsUntouched({onlySelf: true});
    }
}

/**
 * Marks the control as `dirty`. A control becomes dirty when its value is changed through the UI; compare `markAsTouched`.
 * @see `markAsTouched()`
 * @see `markAsUntouched()`
 * @see `markAsPristine()`
 */
markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as {pristine: boolean}).pristine = false;
    if (this._parent && !opts.onlySelf) {
        this._parent.markAsDirty(opts);
    }
}

/**
 * Marks the control as `pristine`.
 * @see `markAsTouched()`
 * @see `markAsUntouched()`
 * @see `markAsDirty()`
 */
markAsPristine(opts: {onlySelf?: boolean} = {}): void {
    (this as {pristine: boolean}).pristine = true;
    this._pendingDirty = false;

    this._forEachChild((control: AbstractControl) => control.markAsPristine({onlySelf: true}));
    if (this._parent && !opts.onlySelf) {
        this._parent.markAsPristine({onlySelf: true});
    }
}

/**
 * Marks the control as `pending`.
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * @see `markAsTouched()`
 * @see `markAsUntouched()`
 * @see `markAsDirty()`
 */
markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    (this as {status: string}).status = PENDING;
    if (opts.emitEvent !== false) {
        (this.statusChanges as EventEmitter<any>).emit(this.status);
    }
    if (this._parent && !opts.onlySelf) {
        this._parent.markAsPending(opts);
    }
}

/**
 * Disables the control. This means the control is exempt from validation checks and
 * excluded from the aggregate value of any parent. Its status is `DISABLED`.
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * @see `markAsTouched()`
 * @see `markAsUntouched()`
 * @see `markAsDirty()`
 */
disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    // If parent has been marked artificially dirty we don't want to re-calculate the
    // parent's dirtiness based on the children.
    const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);

    (this as {status: string}).status = DISABLED;
    if (opts.emitEvent !== false) {
        (this.statusChanges as EventEmitter<any>).emit(this.status);
    }
    if (this._parent && !opts.onlySelf) {
        this._parent.disable({onlySelf: true});
    }
}
this._updateValue();\n\n if (opts.emitEvent !== false) {\n
(this.valueChanges as
EventEmitter<any>).emit(this.value);\n (this.statusChanges as EventEmitter<string>).emit(this.status);\n }\n\n
this._updateAncestors({...opts, skipPristineCheck});\n this._onDisabledChange.forEach((changeFn) =>
changeFn(true));\n }\n\n /**\n * Enables the control. This means the control is included in validation checks and\n
* the aggregate value of its parent. Its status recalculates based on its value and\n * its validators.\n *\n * By
default, if the control has children, all children are enabled.\n *\n * @see {@link AbstractControl.status}\n *\n
* @param opts Configure options that control how the control propagates changes and\n * emits events when
marked as untouched\n * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks
all direct ancestors. Default is false..\n * * `emitEvent`: When true or not supplied (the default), both the
`statusChanges` and\n * `valueChanges`\n * observables emit events with the latest status and value when the
control is enabled.\n * When false, no events are emitted.\n */\n enable(opts: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {\n // If parent has been marked artificially dirty we don't want to re-calculate the\n //
parent's dirtiness based on the children.\n const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);\n\n
(this as{status: string}).status = VALID;\n this._forEachChild(\n
(control: AbstractControl) => {
control.enable({...opts, onlySelf: true}); });\n this.updateValueAndValidity({onlySelf: true, emitEvent:
opts.emitEvent});\n\n this._updateAncestors({...opts, skipPristineCheck});\n
this._onDisabledChange.forEach((changeFn) => changeFn(false));\n }\n\n private _updateAncestors(\n opts:
{onlySelf?: boolean, emitEvent?: boolean, skipPristineCheck?: boolean}) {\n if (this._parent && !opts.onlySelf)
{\n
this._parent.updateValueAndValidity(opts);\n
if (!opts.skipPristineCheck) {\n
this._parent._updatePristine();\n
}\n
this._parent._updateTouched();\n }\n }\n\n /**\n * @param parent
Sets the parent of the control\n */\n setParent(parent: FormGroup|FormArray): void { this._parent = parent; }\n\n
/**\n * Sets the value of the control. Abstract method (implemented in sub-classes).\n */\n abstract
setValue(value: any, options?: Object): void;\n\n /**\n * Patches the value of the control. Abstract method
(implemented in sub-classes).\n */\n abstract patchValue(value: any, options?: Object): void;\n\n /**\n * Resets
the control. Abstract method (implemented in sub-classes).\n */\n abstract reset(value?: any, options?: Object):
void;\n\n /**\n * Recalculates the value and validation status of the control.\n *\n * By default, it also updates
the value and validity of its ancestors.\n *\n * @param opts Configuration options determine how the control
propagates changes and emits events\n * after updates and validity checks are applied.\n * * `onlySelf`: When
true, only update this control. When false or not supplied,\n * update all direct ancestors. Default is false..\n * *
`emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n * `valueChanges`\n *
observables emit events with the latest status and value when the control is updated.\n * When false, no events are
emitted.\n */\n updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n
this._setInitialStatus();\n this._updateValue();\n\n if (this.enabled) {\n
this._cancelExistingSubscription();\n
(this as{errors: ValidationErrors | null}).errors = this._runValidator();\n
(this as{status: string}).status =
this._calculateStatus();\n\n
if (this.status === VALID || this.status === PENDING) {\n
this._runAsyncValidator(opts.emitEvent);\n
}\n }\n\n if (opts.emitEvent !== false) {\n
(this.valueChanges
as EventEmitter<any>).emit(this.value);\n
(this.statusChanges as EventEmitter<string>).emit(this.status);\n
}\n\n if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n }\n }\n\n /**
@internal */\n _updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {\n
this._forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));\n
this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n }\n\n private _setInitialStatus() {\n
(this as{status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;\n }\n\n private
_runValidator(): ValidationErrors|null {\n return this.validator ? this.validator(this) : null;\n }\n\n private
_runAsyncValidator(emitEvent?: boolean): void {\n if (this.asyncValidator) {\n
(this as{status: string}).status =
PENDING;\n
const obs = toObservable(this.asyncValidator(this));\n
this._asyncValidationSubscription =\n
obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent}));\n }\n }\n\n private
_cancelExistingSubscription(): void {\n if (this._asyncValidationSubscription) {\n
this._asyncValidationSubscription.unsubscribe();\n }\n }\n\n /**\n * Sets errors on a form control when running

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validations manually, rather than automatically.

Calling `setErrors` also updates the validity of the parent control.

@usageNotes

### Manually set the errors for a control

```typescript
const login = new FormControl('someLogin');

login.setErrors([{ notUnique: true }]);

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

const x = this._find(this, path, '.');

x = x._parent;

return x;
```

### Manually set the errors for a control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

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expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
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### Retrieve a nested control

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expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
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### Retrieve a nested control

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expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
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### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeFalse();

expect(login.errors).toEqual({ notUnique: true });
```

### Retrieve a nested control

```typescript

expect(login.valid).toBeTrue();

expect(login.errors).toEqual({ notUnique: true });
```
```
control.touched);
 */

/** @internal */
_updatePristine(opts: {onlySelf?: boolean} = {}): void {
    (this as 
    {pristine: boolean}).pristine = !this._anyControlsDirty();
  }

/** @internal */
_updateTouched(opts: {onlySelf?: boolean} = {}): void {
    (this as 
    {touched: boolean}).touched = this._anyControlsTouched();
  }

/** @internal */
_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
    if (isOptionsObj(opts) && (opts as 
    AbstractControlOptions).updateOn != null) {
      this._updateOn = (opts as AbstractControlOptions).updateOn !;
    }

  }

/**
 * Check to see if parent has been marked artificially dirty.
 */
_privateparentMarkedDirty(onlySelf?: boolean): boolean {
    const parentDirty = this._parent && this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
  }
}

/**
 * Tracks the value and
 * validation status of an individual form control.
 *
 * This is one of the three fundamental building blocks of
 * Angular forms, along with
 * `FormGroup` and `FormArray`. It extends the `AbstractControl` class that
 * implements most of the base functionality for accessing the value, validation status,
 * user interactions and
 * events. It also provides methods for
 * configuring the control to update on changes, triggers,
 * and
 * events. The `FormControl` class is
 * designed to be a lightweight, reactive, and
 * customizable component that can be easily used in
 * various
 * scenarios.
 *
 * ### Initializing Form Controls
 *
 * Instantiate a
 * `FormControl`, with an initial value.
 *
 * ```ts
 * const control = new FormControl('some value');
 * ```
 *
 * The following example initializes the control with a form state object. The
 * `value` and `disabled` keys are required in this case.
 *
 * ```ts
 * const control = new
 * FormControl({ value: 'n/a', disabled: true });
 * ```
 *
 * The following example initializes the control using an
 * options object.
 *
 * ```ts
 * const control = new FormControl('Nancy');
 *
 * control.reset('Drew');
 * ```
 *
 * ### Resetting the control back to an initial value
 *
 * ```
 * const control = new FormControl('Nancy');
 *
 * control.reset({ value: 'Drew', disabled: true });
 * ```
 *
 * ```
 * const control = new FormControl('Nancy');
 *
 * control.reset();
 * ```
 *
 * @publicApi
 ```
coerceToAsyncValidator(asyncValidator, validatorOrOpts));
this._applyFormState(formState);
this._setUpdateStrategy(validatorOrOpts);
this.updateValueAndValidity({onlySelf: true, emitEvent: false});
this._initObservables();
/* Sets a new value for the form control. */
/* @param value The new value for the control. */
/* @param options Configuration options that determine how the control propagates
changes. */
/* and emits events when the value changes. */
/* The configuration options are passed to the `updateValueAndValidity` method. */
/* * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false. */
/* * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated. */
/* When false, no events are emitted. */
/* * `emitModelToViewChange`: When true or not supplied (the default), each change triggers an event to update the view. */
/* * `emitViewToModelChange`: When true or not supplied (the default), each change triggers an event to update the model. */
/* * `set(value: any, ...options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void { */
/* (this._onChange.length & options.emitModelToViewChange) !== false) */
/* | this._onChange.forEach(changeFn) => changeFn(this.value, options.emitViewToModelChange !== false)); */
/* | this.updateValueAndValidity(options); */
/* | */
/* This function is functionally the same as the `FormControl#set` method at this level. */
/* It exists for symmetry with the `FormGroup#set` method on `FormGroups` and `FormArrays`, where it does behave differently. */
/* * @see `set` for options */
/* */
/* * @param formState Resets the control with an initial value, or an object that defines the initial value and disabled state. */
/* * @param options Configuration options that determine how the control propagates changes and emits events after the value changes. */
/* * @param options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void { */
/* this.setValue(value, options); */
/* */
/* reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void { */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
/* @internal */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
/* @internal */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
/* @internal */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
/* @internal */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
/* @internal */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
/* @internal */
/* this._applyFormState(formState); */
/* this.markAsPristine(options); */
/* this.markAsUntouched(options); */
/* this.setValue(this.value, options); */
/* this._pendingChange = false; */
/* */
calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. `FormGroup` is one of the three fundamental building blocks used to define forms in Angular. `FormGroup` along with `FormControl` and `FormArray` when instantiating a `FormGroup`, pass in a collection of child controls as the first argument. The key for each child registers the name for the control. `FormGroup.prototype` is a constructor that creates a form group with 2 controls, `const form = new FormGroup({first: new FormControl('Nancy'), Validators.minLength(2)}), last: new FormControl('Drew'), },})` const log = console.log; // VALID`n * `### Create a form group with a group-level validator

* You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control. `const form = new FormGroup({password: new FormControl(''), Validators.minLength(2)}), last: new FormControl('Drew'), }, passwordConfirm: new FormControl(''), Validators.minLength(2)), }, passwordMatchValidator: function passwordMatchValidator(g: FormGroup) { return g.get('password').value === g.get('passwordConfirm').value; } }).`
this._onCollectionChange();
})

/**
 * Check whether there is an enabled control with the given name in the group.
 * @param controlName The control name to check for existence in the group.
 * @returns false for disabled controls, true otherwise.
 */
contains(controlName: string): boolean {
  return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
}

/**
 * Sets the value of the `FormGroup`. It accepts an object that matches the structure of the group,
 with control names as keys. When true, each change only affects this control, and not its parent. Default is false.
 * @param value The new value for the control that matches the structure of the group.
 * @param options Configuration options that determine how the control propagates changes and emits events after the value changes.
 * @usageNotes
 * ### Set the complete value for the form group
 *
 * ```ts
 * const form = new FormGroup({
 *   first: new FormControl(),
 *   last: new FormControl()
 * });
 * console.log(form.value);   // {first: null, last: null}
 * form.setValue({first: 'Nancy', last: 'Drew'});
 * console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
 * @throws When strict checks fail, such as setting the value of a control that doesn't exist or if you exclude a value of a control that does exist.
 * @param param options
 * @returns false for disabled controls, true otherwise.
 */
setValue(value: { [key: string]: any }, options: { onlySelf?: boolean, emitEvent?: boolean } = {}):
  void {
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(name => {
      this._throwIfControlMissing(name);
      this.controls[name].setValue(value[name], { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(options);
  }

/**
 * Patches the value of the `FormGroup`. It accepts an object
 with control names as keys, and does its best to match the values to the correct controls in the group.
 * @usageNotes
 * ### Patch the value for a form group
 *
 * ```ts
 * const form = new FormGroup({
 *   first: new FormControl(),
 *   last: new FormControl()
 * });
 * console.log(form.value);   // {first: null, last: null}
 * form.patchValue({first: 'Nancy'});
 * console.log(form.value);   // {first: 'Nancy', last: null}
 * @param param options
 * @returns false for disabled controls, true otherwise.
 */
patchValue(value: { [key: string]: any }, options: { onlySelf?: boolean, emitEvent?: boolean } = {}):
  void {
    Object.keys(value).forEach(name => {
      if (this.controls[name]) {
        this.controls[name].patchValue(value[name], { onlySelf: true, emitEvent: options.emitEvent });
      }
    });
    this.updateValueAndValidity(options);
  }

/**
 * Resets the `FormGroup`, marks all descendants are marked `pristine` and `untouched`, and clears the value of all descendants to null.
 * You reset to a specific form state by passing in a map of states that matches the structure of your form, with control names as keys. The state
 * is a standalone value or a form state object with both a value and a disabled status.
 * @param value
 * @param options Configuration options that determine how the control propagates changes and emits events when the group is reset.
 * @usageNotes
 * ### Reset the form group values
 */
reset(): void {
  this._resetChildren();
  this.updateValueAndValidity({ onlySelf: true, emitEvent: false });
}

this._resetChildren();

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The two types of validators are passed in separately as the second and third argument, or together as part of the same argument when you want to perform validation that considers the value of more than one child control.

You include array-level validators and async validators. These come in handy when you want to create a form

```typescript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});

const updatedForm = form.updateValueAndValidity();
```

### Create a form

```typescript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});

form.reset();
```

### Reset the form group values and

```typescript
form.reset({
  first: 'name',
  last: 'last name'
});
```
of an options object.

```ts
const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], { validators: myValidator, asyncValidators: myAsyncValidator });
```
updateValueAndValidity} method.

```javascript
setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  value.forEach((newValue: any, index: number) => {
    this.at(index).setValue(newValue, options.emitEvent);
  });
}
```

```javascript
patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  value.forEach((newValue: any, index: number) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}
```

```javascript
reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._forEachChild((control: AbstractControl, index: number) => {
    control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
}
```

```javascript
getRawValue(): any[] {
  return this.controls.map((control: AbstractControl) => {
    return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
  });
}
```

```javascript
clear(): void {
  if (this.controls.length < 1) return;
  this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
}
```

The aggregate value of the array, including any disabled controls. * Reports all values regardless of disabled status. * For enabled controls only, the ‘value’ property is the best way to get the value of the array.

```javascript
getRawValue(): any[] {
  return this.controls.map((control: AbstractControl) => {
    return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
  });
}
```

Remove all controls in the `FormArray`. * Reset the values in a form array. * const arr = new FormArray([...]);

```javascript
console.log(arr.value); // [null, null] * arr.patchValue("Nancy");
```

```javascript
console.log(this.arr.value);  // ['name', 'last name']
```
this.controls.splice(0); this.updateValueAndValidity();
    return true;
}

/** @internal */
 canActivate(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return (child._syncPendingControls() ? true : updated) &&
            this.disabled;
    }, false);
    if (subtreeUpdated)
        return true;
    else
        throw new Error('Cannot find form control at index $i].
    return false;
}

/** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
          throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
        if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}

/**
 * @license
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 * 
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {AfterViewInit, Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {NgControl} from './ng_control';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

const resolvedPromise = ((() => Promise.resolve(null))());

/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a
 * form
 * to track aggregate form value and validation status.
 *
 * As soon as you import the `FormsModule`, this
 * directive becomes active by default on
 * all `<form>` tags.  You don't need to add a special selector.
 * @usageNotes
 *
 * ### Listening for form submission
 *
 * The following
 * example shows how to capture the form values from the "ngSubmit" event.
 *
 * ```html
 * <form 
 *   
 *   
 *   
 *   ngSubmit="handleSubmit()"
 * </form>
 * ```
 *
 * ### Native DOM validation UI

*\*\* In order to prevent the native DOM form validation UI from interfering with Angular's formvalidation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever\* * `FormModule` or `ReactiveFormsModule` are imported into the application.\* * If you want to explicitly enable native DOM validation UI with Angular forms, you can add the\* * `ngNativeValidate` attribute to the `<form>` element:\* * ```html
<form ngNativeValidate>
  ...
</form>
```\* * The `FormModule` instance created for this form.\* * `@description`\* * Event emitter for the `ngSubmit` event.\n
```html
<form ngSubmit="onSubmit($event)">
  ...
</form>
```\* *

@ngModule FormsModule\n@publicApi
```typescript
* @description
* Returns whether the form submission has been triggered.\n* @publicreadonly submitted: boolean = false;
* @description
* The `FormGroup` instance created for this form.\n* @description
* Lifecycle method called after the view is initialized. For internal use only.\n* @description
* Method that sets up the control directive in this group, re-calculates its value\n* and validity, and adds the instance to the internal list of directives.\n* @description
* Sets the default `updateOn` value for all child `NgModel`s using `NgModelOptions`.\n* @description
* Possible values: `change` | `blur` | `submit`.\n* @description
* Returns an array representing the path to this group. Because this directive\n* always lives at the top level of a form, it is always an empty array.\n* @description
* Returns a map of the controls in this group.\n* @description
* Adds a new `NgModelGroup` directive instance to the form.\n* @description
* Re-calculates its value\n* and validity, and adds the instance to the internal list of directives.\n* @description
* Adds a new `NgModelGroup` directive instance to the form.\n* @description
* Removes the `NgModelGroup` directive instance from the form.\n```
* Sets the new value for the provided `NgControl` directive instance.
  *
  * @param value The new value for the directive's control.
  */
  updateModel(dir: NgControl, value: any): void {
    resolvedPromise.then(() => {
      const ctrl = dir.form.get(dir.path !);
      ctrl.setValue(value);
    });
  }

  /**
   * Sets the new value for the provided `NgControl` directive instance.
   *
   * @param value The new value for the directive's control.
   */
  setValue(value: any): void { this.form.setValue(value);
    (this as{submitted: boolean}).submitted = true;
  }

  /**
   * Method called when the \`submit\` event is triggered on the form.
   * Triggers the \`ngSubmit\` emitter to emit the \`submit\` event as its payload.
   * @param $event The \`submit\` event object.
   * @returns true
   */
  onSubmit($event: Event): boolean {
    (this as{submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this._directives);
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * Method called when the \`reset\` event is triggered on the form.
   * Resets the form to an initial value and resets its submitted status.
   */
  onReset(): void {
    this.resetForm();
  }

  /**
   * Resets the form to an initial value and resets its submitted status.
   * @param value The new value
   */
  resetForm(value: any = undefined): void { this.form.reset(value);
    (this as{submitted: boolean}).submitted = false;
  }

  /**
   * The parent control for the group
   */
  get _parent(): ControlContainer { return this.formDirective !.getFormGroup(this); }

  /**
   * The path to this group from the top-level directive.
   */
  get _path(): string { return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * The top-level directive for this group if present, otherwise null.
   */
  get _directives(): any { return this.formDirective !.getDirectives(this); }

  /**
   * The synchronous validators registered with this group.
   */
  get _validators(): any { return this.formDirective.getValidators(this); }

  /**
   * The async validators registered with this group.
   */
  get _asyncValidators(): any { return this.formDirective.getAsynchronousValidators(this); }

  /**
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): ControlContainer|null { return this._parent ? this._parent.formDirective : null;
  }
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{AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';\n\nexport const
formControlBinding: any = {\n provide: NgControl,\n useExisting: forwardRef(() => NgModel)\n};\n\n/**\n *
`ngModel` forces an additional change detection run when its inputs change:\n * E.g.:\n * ```\n *
<div>{{myModel.valid}}</div>\n * <input [(ngModel)]=\"myValue\" #myModel=\"ngModel\">\n * ```\n * I.e.
`ngModel` can export itself on the element and then be used in the template.\n * Normally, this would result in
expressions before the `input` that use the exported directive\n * to have and old value as they have been\n * dirty
checked before. As this is a very common case for `ngModel`, we added this second change\n * detection run.\n *\n
* Notes:\n * - this is just one extra run no matter how many `ngModel` have been changed.\n * - this is a general
problem when using `exportAs` for directives!\n */\nconst resolvedPromise = (() =>
Promise.resolve(null))();\n\n/**\n * @description\n * Creates a `FormControl` instance from a domain model and
binds it\n * to a form control element.\n *\n * The `FormControl` instance tracks the value, user interaction, and\n *
validation status of the control and keeps the view synced with the model. If used\n * within a parent form, the
directive also registers itself with the form as a child\n * control.\n *\n * This directive is used by itself or as part of
a larger form. Use the\n * `ngModel` selector to activate it.\n *\n * It accepts a domain model as an optional `Input`.
If you have a one-way binding\n * to `ngModel` with `[]` syntax, changing the value of the domain model in the
component\n * class sets the value in the view. If you have a two-way binding with `[()]` syntax\n * (also known as
'banana-box syntax'), the value in the UI always syncs back to\n * the domain model in your class.\n *\n * To
inspect the properties of the associated `FormControl` (like validity state), \n * export the directive into a local
template variable using `ngModel` as the key (ex: `#myVar=\"ngModel\"`).\n * You then access the control using
the directive's `control` property, \n * but most properties used (like `valid` and `dirty`) fall through to the control
anyway for direct access. \n * See a full list of properties directly available in `AbstractControlDirective`.\n *\n *
@see `RadioControlValueAccessor` \n * @see `SelectControlValueAccessor`\n * \n * @usageNotes\n * \n * ###
Using ngModel on a standalone control\n *\n * The following examples show a simple standalone control using
`ngModel`:\n *\n * {@example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'}\n *\n
* When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute\n * so that the
control can be registered with the parent form under that name.\n *\n * In the context of a parent form, it's often
unnecessary to include one-way or two-way binding, \n * as the parent form syncs the value for you. You access its
properties by exporting it into a \n * local template variable using `ngForm` such as (`#f=\"ngForm\"`). Use the
variable where \n * needed on form submission.\n *\n * If you do need to populate initial values into your form,
using a one-way binding for\n * `ngModel` tends to be sufficient as long as you use the exported form's value
rather\n * than the domain model's value on submit.\n * \n * ### Using ngModel within a form\n *\n * The
following example shows controls using `ngModel` within a form:\n *\n * {@example
forms/ts/simpleForm/simple_form_example.ts region='Component'}\n * \n * ### Using a standalone ngModel
within a group\n * \n * The following example shows you how to use a standalone ngModel control\n * within a
form. This controls the display of the form, but doesn't contain form data.\n *\n * ```html\n * <form>\n * <input
name=\"login\" ngModel placeholder=\"Login\">\n * <input type=\"checkbox\" ngModel
[ngModelOptions]=\"{standalone: true}\"> Show more options?\n * </form>\n * <!-- form value: {login: ''} -->\n *
```\n * \n * ### Setting the ngModel name attribute through options\n * \n * The following example shows you an
alternate way to set the name attribute. The name attribute is used\n * within a custom form component, and the
name `@Input` property serves a different purpose.\n *\n * ```html\n * <form>\n * <my-person-control
name=\"Nancy\" ngModel [ngModelOptions]=\"{name: 'user'}\">\n * </my-person-control>\n * </form>\n * <!-form value: {user: ''} -->\n * ```\n *\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:
'[ngModel]:not([formControlName]):not([formControl])',\n providers: [formControlBinding],\n exportAs:
'ngModel'\n})\nexport class NgModel extends NgControl implements OnChanges,\n OnDestroy {\n public
readonly control: FormControl = new FormControl();\n\n // At runtime we coerce arbitrary values assigned to the
\"disabled\" input to a \"boolean\".\n // This is not reflected in the type of the property because outside of templates,
consumers\n // should only deal with booleans. In templates, a string is allowed for convenience and to\n // match
the native \"disabled attribute\" semantics which can be observed on input elements.\n // This static member tells the

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private _setUpStandalone(): void {
    setUpControl(this.control, this);
}

private _checkForErrors(): void {
    if (!this._isStandalone()) {
        this._checkParentType();
    }

    this._checkName();
}

private _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) &&
        this._parent instanceof AbstractFormGroupDirective) {
        TemplateDrivenErrors.formGroupNameException();
    } else if (!this._parent instanceof NgModelGroup) {
        TemplateDrivenErrors.modelParentException();
    }
}

private _checkName(): void {
    if (this.options && this.options.name) this.name = this.options.name;

    if (!this._isStandalone() && !this.name) {
        TemplateDrivenErrors.missingNameException();
    }
}

private _updateValue(value: any): void {
    resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

private _updateDisabled(changes: SimpleChanges) {
    const disabledValue = changes['isDisabled'].currentValue;

    const isDisabled = disabledValue === '' || (disabledValue && disabledValue !== 'false');

    resolvedPromise.then(() => {
        if (isDisabled && !this.control.disabled) {
            this.control.disable();
        } else if (!isDisabled && this.control.disabled) {
            this.control.enable();
        }
    });
}

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see 
 * * `FormControl`
 * * `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * @Example example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'
 * ```
 *
 * ### Use with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive
 * form directives has been deprecated in Angular v6 and will be removed in a future version
 * of Angular. Since Angular v6
 * 
 * ```
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons. First, developers have found this pattern
 * confusing. It seems like the actual `ngModel` directive is being used, but in fact it's
 * an
input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`’s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don’t work, which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don’t recommend because it doesn’t take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template. To update your code before support is removed, you’ll want to decide whether to stick with reactive form directives (and set/get values using reactive forms patterns) or switch over to template-driven directives.

You can choose to silence this warning by providing a config for the `ReactiveFormsModule` at import time:

```ts
import {ReactiveFormsModule, NgModule} from '@angular/forms';

@NgModule({
  imports: [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})],
})

@Injectable()
export class SomeService {
  constructor() {
    // Initialize some service.
  }
}
```

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `'always'`. This may help to track down where in the code the pattern is being used as the code is being updated.

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for the `ReactiveFormsModule` at import time:

```ts
import {ReactiveFormsModule, NgModule} from '@angular/forms';

@NgModule({
  imports: [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})],
})

@Injectable()
export class SomeService {
  constructor() {
    // Initialize some service.
  }
}
```

To update your code before support is removed, you’ll want to decide whether to stick with reactive form directives (and set/get values using reactive forms patterns) or switch over to template-driven directives. You can choose to silence this warning by providing a config for the `ReactiveFormsModule` at import time:

```ts
import {ReactiveFormsModule, NgModule} from '@angular/forms';

@NgModule({
  imports: [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})],
})

@Injectable()
export class SomeService {
  constructor() {
    // Initialize some service.
  }
}
```

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export class SomeService {
  constructor() {
    // Initialize some service.
  }
}
```
name of the control on that level.

* @description
* Synchronous validator function composed of all the synchronous validators
* registered with this directive.

* @description
* Async validator function composed of all the async validators registered with this
* directive.

* @description
* The `FormControl` bound to this directive.

* @description
* Sets the new value for the view model and emits an `ngModelChange` event.

* @description
* A lifecycle method called when the directive's inputs change. For internal use only.

* @description
* Returns the array representing the path to this group. Because this
directive
  * always lives at the top level of a form, it always an empty array.
  */
  get path(): string[] { return []; }

  /*
   * @description
   * Method that sets up the control directive in this group, re-calculates its value
   * and validity, and adds the instance to the internal list of directives.
   */
  addControl(dir: FormControlName): FormControl {
    const ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  /*
   * @description
   * Method that sets up the control directive in this group, re-calculates its value
   * and validity, and adds the instance to the internal list of directives.
   */
  addFormGroup(dir: FormGroupName): void {
    const ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  /*
   * @description
   * Method called with the "submit" event is triggered on the form.
   * Triggers the `ngSubmit` emitter to emit the "submit" event
   * as its payload.
   */
  onSubmit($event: Event): boolean {
    (this as {submitted: boolean}).submitted = true;
    this.directives.forEach(dir => {
      const newCtrl = this.form.get(dir.path);
      if (dir.control !== newCtrl) {
        cleanUpControl(dir.control, dir);
        if (newCtrl) setUpControl(newCtrl, dir);
        (dir as {control: FormControl}).control = newCtrl;
      }
    });
    this.form._updateTreeValidity({emitEvent: false});
  }

  private _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._oldForm = this.form;
  }

  private _updateValidators() {
    const sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator, sync]);
    const async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
  }

  private _checkFormPresent() {
    if (!this.form) {
      ReactiveErrors.missingFormException();
    }
  }
}

/**
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 *
found in the LICENSE file at https://angular.io/license

import {Directive, Host, Inject, Input, OnDestory, OnInit, Optional, SkipSelf, forwardRef} from '@angular/core';
import {FormArray} from './model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from './validators';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {AbstractFormGroupDirective, composeValidators, FormArrayName} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 * The following example uses the
 * `formGroupName` directive to access the
 * name in the form of a string
 * for grouped sub-arrays.
 * The name corresponds to a key in the parent `ControlContainer`
 * and provides methods to retrieve the nested `FormArray` and individual controls.
 * This directive can only be used with a parent `FormGroupDirective`
 * It accepts the string name of the nested `FormGroup` to link, and
 * looks for a `FormGroup` registered with that name in the parent
 * `FormGroup` instance you passed into `FormGroupDirective`.
 * Use nested form groups to validate a sub-group of an
 * form separately from the rest or to group the values of certain
 * controls into their own nested object.
 */
export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 * The following example uses the
 * `formArrayName` directive to access the
 * name in the form of a string
 * for grouped sub-arrays.
 * The name corresponds to a key in the parent `ControlContainer`
 * and provides methods to retrieve the nested `FormArray` and individual controls.
 * This directive can only be used with a parent `FormGroupDirective`
 * It accepts the string name of the nested `FormArray` to link, and
 * looks for a `FormArray` registered with that name in the parent
 * `FormArray` instance you passed into `FormArrayName`.
 */
export const formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormArrayName)
};
constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self()
      @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])

  /**
   * @description
   * A lifecycle method called when the directive's inputs are initialized. For internal use only.
   * *Throws* If the directive does not have a valid parent.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormArray(this);
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  /**
   * @description
   * The `FormArray` bound to this directive.
   */
  get control(): FormArray {
    return this.formDirective!.getFormArray(this);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): FormGroupDirective | null {
    return this._parent ? <FormGroupDirective>this._parent.formDirective : null;
  }

  /**
   * @description
   * Returns an array that represents the path from the top-level form to this control.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * A synchronous validator function composed of all the synchronous validators registered with this directive.
   */
  get validator(): ValidatorFn | null { return composeValidators(this._validators); }

  /**
   * @description
   * An async validator function composed of all the async validators registered with this directive.
   */
  get asyncValidator(): AsyncValidatorFn | null {
    return composeAsyncValidators(this._asyncValidators);
  }

  private _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.arrayParentException();
    }
  }

  function _hasInvalidParent(parent: ControlContainer): boolean {
    return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
    !(parent instanceof FormArrayName);
  }

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, 
      Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, 
      isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 *
 * @see [Reactive Forms
 * Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form
 * controls within a form group
 * and set their value.
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons.
 * First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used,
but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.

To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven forms. Here are a few options:

After (choice 1 - use reactive forms):

```html
<form [formGroup]='form'>
  <input formControlName='first'>
</form>
```

```ts
this.form.get('first').setValue('some value');
```

After (choice 2 - use template-driven forms):

```html
<input [(ngModel)]='value'>
```

```ts
this.value = 'some value';
```

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:

```ts
imports:
  [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})]
```

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of "always". This may help to track down where in the code the pattern is being used as the code is being updated.

```
```

```ts
*/
```
class CustomValidatorDirective implements Validator {
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': true};
  }
}

class CustomAsyncValidatorDirective implements AsyncValidator {
  validate(control: AbstractControl): Observable<ValidationErrors|null> {
    return observableOf({'custom': true});
  }
}

CustomValidatorDirectiveValidator

validationErrors

AsyncValidatorDirectiveValidator

ValidationErrors

Observables

Observer

valueAccessor

Control

AbstractControl

AsyncValidator

Validator

from '@angular/core' import { Directive, Input, OnChanges,


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resolves a map of validation errors if validation fails, otherwise null

* if validation control:
AbstractControl)\nPromise<ValidationErrors> |null| Observable<ValidationErrors> |null| |null| **null** * @description\n* Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.

export const REQUIRED_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => RequiredValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.

export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => CheckboxRequiredValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list.

export const EMAIL_VALIDATOR: any = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => EmailValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `EmailAddressValidator` to the `NG_VALIDATORS` multi-provider list.

export const EMAIL_ADDRESS_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => EmailAddressValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `PhoneValidator` to the `NG_VALIDATORS` multi-provider list.

export const PHONE_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => PhoneValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `PhoneNumberValidator` to the `NG_VALIDATORS` multi-provider list.

export const PHONE_NUMBER_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => PhoneNumberValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `UrlValidator` to the `NG_VALIDATORS` multi-provider list.

export const URL_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => UrlValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `ModuleValidator` to the `NG_VALIDATORS` multi-provider list.

export const MODULARIZER: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => ModuleValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `RequestMethodValidator` to the `NG_VALIDATORS` multi-provider list.

export const RequestMethodValidator: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => RequestMethodValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `RequestValidator` to the `NG_VALIDATORS` multi-provider list.

export const RequestValidator: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => RequestValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `SafeValidator` to the `NG_VALIDATORS` multi-provider list.

export const SAFE_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => SafeValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `ObjectValidator` to the `NG_VALIDATORS` multi-provider list.

export const OBJECT_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => ObjectValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `ListValidator` to the `NG_VALIDATORS` multi-provider list.

export const LIST_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => ListValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `ArrayValidator` to the `NG_VALIDATORS` multi-provider list.

export const ARRAY_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => ArrayValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `MapValidator` to the `NG_VALIDATORS` multi-provider list.

export const MAP_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => MapValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `SetValidator` to the `NG_VALIDATORS` multi-provider list.

export const SET_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => SetValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `DictionaryValidator` to the `NG_VALIDATORS` multi-provider list.

export const DICTIONARY_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => DictionaryValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `DictionaryArrayValidator` to the `NG_VALIDATORS` multi-provider list.

export const DICTIONARY_ARRAY_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => DictionaryArrayValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `DictionaryMapValidator` to the `NG_VALIDATORS` multi-provider list.

export const DICTIONARY_MAP_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => DictionaryMapValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `DictionarySetValidator` to the `NG_VALIDATORS` multi-provider list.

export const DICTIONARY_SET_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => DictionarySetValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `AnyValidator` to the `NG_VALIDATORS` multi-provider list.

export const ANY_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => AnyValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `NumberValidator` to the `NG_VALIDATORS` multi-provider list.

export const NUMBER_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => NumberValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `StringValidator` to the `NG_VALIDATORS` multi-provider list.

export const STRING_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => StringValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `BooleanValidator` to the `NG_VALIDATORS` multi-provider list.

export const BOOLEAN_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => BooleanValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `DateValidator` to the `NG_VALIDATORS` multi-provider list.

export const DATE_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => DateValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `FileValidator` to the `NG_VALIDATORS` multi-provider list.

export const FILE_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => FileValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `ImageValidator` to the `NG_VALIDATORS` multi-provider list.

export const IMAGE_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => ImageValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `TableValidator` to the `NG_VALIDATORS` multi-provider list.

export const TABLE_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => TableValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `FormValidator` to the `NG_VALIDATORS` multi-provider list.

export const FORM_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => FormValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `ValidatorGroup` to the `NG_VALIDATORS` multi-provider list.

export const VALIDATOR_GROUP: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => ValidatorGroup),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `AbstractControlValidator` to the `NG_VALIDATORS` multi-provider list.

export const ABSTRACT_CONTROL_VALIDATOR: StaticProvider = {\n  provide: NG_VALIDATORS,\n  useExisting: forwardRef(() => AbstractControlValidator),\n  multi: true;\n|null| **null** * @description\n* Provider which adds `AbstractTemplateDrivenForm` to the `NG_VALIDATORS` multi-provider list.

export const ABSTRACT_TEMPLATE_DRIVE lược
remove '!'.\n private _enabled !: boolean;\n // TODO(issue/24571): remove '!'.\n private _onChange !: () =>
void;\n\n /**\n * @description\n * Tracks changes to the email attribute bound to this directive.\n */\n
@Input()\n set email(value: boolean|string) {\n this._enabled = value === '' || value === true || value === 'true';\n
if (this._onChange) this._onChange();\n }\n\n /**\n * @description\n * Method that validates whether an email
address is valid.\n * Returns the validation result if enabled, otherwise null.\n */\n validate(control:
AbstractControl): ValidationErrors|null {\n return this._enabled ? Validators.email(control) : null;\n }\n\n /**\n
* @description\n * Registers a callback function to call when the validator inputs change.\n *\n * @param fn
The callback function\n */\n registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }\n}\n\n/**\n
* @description\n * A function that receives a control and synchronously returns a map of\n * validation errors if
present, otherwise null.\n *\n * @publicApi\n */\nexport interface ValidatorFn { (control: AbstractControl):
ValidationErrors|null; }\n\n/**\n * @description\n * A function that receives a control and returns a Promise or
observable\n * that emits validation errors if present, otherwise null.\n *\n * @publicApi\n */\nexport interface
AsyncValidatorFn {\n (control: AbstractControl):
Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;\n}\n\n/**\n * @description\n * Provider which
adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n */\nexport const
MIN_LENGTH_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>
MinLengthValidator),\n multi: true\n};\n\n/**\n * A directive that adds minimum length validation to controls
marked with the\n * `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider
list.\n * \n * @see [Form Validation](guide/form-validation)\n *\n * @usageNotes\n *\n * ### Adding a minimum
length validator\n *\n * The following example shows how to add a minimum length validator to an input attached
to an\n * ngModel binding.\n *\n * ```html\n * <input name=\"firstName\" ngModel minlength=\"4\">\n * ```\n *\n
* @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({\n
selector: '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',\n providers:
[MIN_LENGTH_VALIDATOR],\n host: {'[attr.minlength]': 'minlength ? minlength : null'}\n})\nexport class
MinLengthValidator implements Validator,\n OnChanges {\n // TODO(issue/24571): remove '!'.\n private
_validator !: ValidatorFn;\n // TODO(issue/24571): remove '!'.\n private _onChange !: () => void;\n\n /**\n *
@description\n * Tracks changes to the the minimum length bound to this directive.\n */\n //
TODO(issue/24571): remove '!'.\n @Input() minlength !: string | number;\n\n /**\n * @description\n * A
lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A
object of key/value pairs for the set of changed inputs.\n */\n ngOnChanges(changes: SimpleChanges): void {\n
if ('minlength' in changes) {\n
this._createValidator();\n
if (this._onChange) this._onChange();\n }\n }\n\n
/**\n * @description\n * Method that validates whether the value meets a minimum length\n * requirement.
Returns the validation result if enabled, otherwise null.\n */\n validate(control: AbstractControl):
ValidationErrors|null {\n return this.minlength == null ? null : this._validator(control);\n }\n\n /**\n *
@description\n * Registers a callback function to call when the validator inputs change.\n *\n * @param fn The
callback function\n */\n registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }\n\n private
_createValidator(): void {\n this._validator = Validators.minLength(\n
typeof this.minlength === 'number' ?
this.minlength : parseInt(this.minlength, 10));\n }\n}\n\n/**\n * @description\n * Provider which adds
`MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n */\nexport const
MAX_LENGTH_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>
MaxLengthValidator),\n multi: true\n};\n\n/**\n * A directive that adds max length validation to controls marked
with the\n * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *
\n * @see [Form Validation](guide/form-validation)\n *\n * @usageNotes\n *\n * ### Adding a maximum length
validator\n *\n * The following example shows how to add a maximum length validator to an input attached to an\n
* ngModel binding.\n *\n * ```html\n * <input name=\"firstName\" ngModel maxlength=\"25\">\n * ```\n *\n *
@ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:
'[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',\n providers:
[MAX_LENGTH_VALIDATOR],\n host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}\n})\nexport class

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MaxLengthValidator implements Validator;

OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private onChange!: () => void;

  /**
   * Tracks changes to the the maximum length bound to this directive.
   */
  @Input() maxlength!: number;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value exceeds the maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.maxlength <= null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.maxLength(this.maxlength);
  }
}

/**
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-
 * provider list.
 */
export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true,
}

/**
 * A directive that adds regex pattern validation to controls marked with the
 * `pattern` attribute. The regex must match the entire
 * control value.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator, OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private onChange!: () => void;

  /**
   * Tracks changes to the pattern bound to this directive.
   */
  @Input() pattern!: string | RegExp;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value matches the
   * pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}
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```
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatus,
  NgControlStatusGroup,
  RequiredValidator,
  MinLengthValidator,
  MaxLengthValidator,
  PatternValidator,
  CheckboxRequiredValidator,
  EmailValidator,
];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel,
  NgModelGroup, NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =

[FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * a `FormGroup`, or a `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms. This is especially useful in situations where forms are built dynamically,
 * for example, when forms are loaded from a template.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 */
@Injectable()
export class FormBuilder {

  /*
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param
   * options is AbstractControlOptions
   */
  private FormBuilder(options: AbstractControlOptions | {key: string})
```
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import { ModuleWithProviders, NgModule } from '@angular/core';

import { InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES } from './directives';

import { RadioControlRegistry } from './directives/radio_control_value_accessor';

/**
 * Exports the required providers and directives for template-driven forms.
 * making them available for import by NgModules that import this module.
 * @publicApi
 */
@NgModule({
  declarations: [TEMPLATE_DRIVEN_DIRECTIVES],
  providers: [RadioControlRegistry],
  exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
})
export class FormsModule {

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 * @publicApi
 */
@NgModule({
  declarations: [REACTIVE_DRIVEN_DIRECTIVES],
  providers: [FormBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {
  static withConfig(opts: {
    /** @deprecated as of v6 */
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule> {
    return {
      ngModule: ReactiveFormsModule,
      providers: [{
        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl
      }]
    };
  }
}

// Generated bundle index. Do not edit.

export * from './index';

export { InternalFormsSharedModule as Êangular_packages_forms_forms_d, REACTIVE_DRIVEN_DIRECTIVES as Êangular_packages_forms_forms_c, SHARED_FORM_DIRECTIVES as Êangular_packages_forms_forms_a, TEMPLATE_DRIVEN_DIRECTIVES as Êangular_packages_forms_forms_b } from './src/directives';
export { CHECKBOX_VALUE_ACCESSOR as Êangular_packages_forms_forms_e } from './src/directives/checkbox_value_accessor';
export { DEFAULT_VALUE_ACCESSOR as Êangular_packages_forms_forms_f } from './src/directives/default_value_accessor';
export { AbstractControlStatus as Êangular_packages_forms_forms_g, ngControlStatusHost as Êangular_packages_forms_forms_h } from './src/directives/ng_control_status';
export { FormDirectiveProvider as Êangular_packages_forms_forms_i } from './src/directives/ng_form';
export { formControlBinding as Êangular_packages_forms_forms_j } from './src/directives/ng_model';
export { modelGroupProvider as Êangular_packages_forms_forms_k } from './src/directives/ng_model_group';
export { NgNoValidate as Êangular_packages_forms_forms_y } from './src/directives/ng_no_validate_directive';
export { NUMBER_VALUE_ACCESSOR as Êangular_packages_forms_forms_l } from './src/directives/number_value_accessor';
export { RADIO_VALUE_ACCESSOR as Êangular_packages_forms_forms_m } from './src/directives/radiocontrolregistry';
export { RANGE_VALUE_ACCESSOR as Êangular_packages_forms_forms_n } from './src/directives/radio_control_value_accessor';
export { SELECT_VALUE_ACCESSOR as Êangular_packages_forms_forms_o } from './src/directives/select_control_value_accessor';
export { NgSelectMultipleOption as Êangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as Êangular_packages_forms_forms_v } from './src/directives/selector_value_accessor';

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from './src/directives/select_multiple_control_value_accessor';
export {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_a, EMAIL_VALIDATOR as ɵangular_packages_forms_forms_b, MAX_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_c, MIN_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_d, PATTERN_VALIDATOR as ɵangular_packages_forms_forms_e, REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_f} from './src/directives/validators';
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm2015/forms.js.map

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/**
 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #SerialVersionUIDAdder(int, ClassVisitor) ]
 * version.
 *
 * @param classVisitor a [ @link ClassVisitor ] to which this visitor will delegate calls.
 * @throws IllegalArgumentException If a subclass calls this constructor.
 */

---

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/**
 * Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 * *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see { @link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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* /opt/cola/permits/1092522682_1601878538.99/0/asm-commons-8-0-1-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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/**
 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 * *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

1.939 hash-base 3.1.0
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jar/net/minidev/json/writer/DefaultMapper.java
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* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-
jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-
jar/net/minidev/json/JSONStreamAware.java
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* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-
jar/net/minidev/json/FakeMapper.java
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jar/net/minidev/json/JSONAware.java
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#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   */
 Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *       combined, allow nicstar_free_rx_skb to be called to
  *       recycle large data buffers
  * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.

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* M. Welsh, 6 July 1996
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1.943 bzip2 1.0.6 9.2~deb10u1
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

--------------------------------------------------------------------------
1.944 e2fsprogs 1.46.2-1~bpo10+2

1.944.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

# all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```
BSDLIB_PIC_FLAG = -f-pic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$($BSD_LIB) .
$(RM) -f ./$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
  `echo $(my_dir) | sed -e \ 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$($BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$($BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ./$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.953 adduser 3.118

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1.954 core-js 3.0.0

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1.956 jackson 2.9.10

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1.957 jetty-servlet 9.4.29.v20200521

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumDouble.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate7.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/swing/SwingScheduler.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/cache/CacheMono.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function4.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function7.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoAverageFloat.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer3.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate6.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumInt.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/extra/processor/WorkQueueProcessor.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/extra/processor/WaitStrategy.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumBigDecimal.java

**1.980 config 1.3.4**

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1.1021 jnr-a64asm 1.0.0

1.1022 log4j-api 2.8
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1.1023 logback-core 1.2.3

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1.1024 ribbon-transport 2.3.0

1.1025 jmxterm 1.0-alpha-4

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1.1026 jcmtturner-gofork v1.0.0

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1.1027 rx-netty-servo 0.4.9

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1.1030 json-path 2.4.0

1.1031 eapache-go-xerial-snappy v0.0.0-20180814174437-776d5712da21

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jar/org/springframework/cloud/stream/micrometer/MetersPublisherBinding.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/annotation/StreamRetryTemplate.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/micrometer/DefaultDestinationPublishingMeterRegistry.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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jar/org/springframework/cloud/stream/binder/PollableSource.java
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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jar/org/springframework/cloud/stream/config/MessageSourceCustomizer.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/function/StreamFunctionProperties.java
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  jar/org/springframework/cloud/stream/binder/ConsumerProperties.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ModuleWriter.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Opcodes.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ConstantDynamic.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ClassReader.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/AnnotationWriter.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
  jar/net/bytebuddy/matcher/HasSuperTypeMatcher.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
  jar/net/bytebuddy/matcher/DeclaringAnnotationMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
  jar/net/bytebuddy/matcher/NullMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
  jar/net/bytebuddy/dynamic/scaffold/SubTypeMatcher.java
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  jar/net/bytebuddy/description/FieldList.java
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  jar/net/bytebuddy/description/modifier/SynchronizationState.java
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  jar/net/bytebuddy/dynamic/ClassFileLocator.java
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  jar/net/bytebuddy/dynamic/ClassFileLocator.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
  jar/net/bytebuddy/implementation/bind/package-info.java
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  jar/net/bytebuddy/implementation/auxiliary/AuxiliaryType.java
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  jar/net/bytebuddy/description/field/FieldList.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
  jar/net/bytebuddy/description/modifier/SynchronizationState.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OnSubscribeRefCount.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OperatorSwitch.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/schedulers/ScheduledAction.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/ExecutorScheduler.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OnSubscribeSkipTimed.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/OperatorDebounceWithTime.java
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* This plugin class provides 2 ways to customize {@link Scheduler} functionality
* 1. You may redefine entire schedulers, if you so choose. To do so, override
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* 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-supplied
* Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
* modify Scheduler functionality without redefining Schedulers wholesale.
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
*/

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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/BlockingUtils.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/CompletableEmitter.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/SingleEmitter.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/CompletableFromEmitter.java

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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project: https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735). RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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- /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/exceptions/UnsubscribeFailedException.java
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- /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/subjects/BehaviorSubject.java
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- /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOnSubscribeMap.java
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- /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OperatorTakeUntilPredicate.java
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- /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeToMap.java
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- /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/schedulers/ImmediateScheduler.java
jar/rx/internal/operators/OperatorMaterialize.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OperatorDoOnSubscribe.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/subscriptions/RefCountSubscription.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ScalarSynchronousObservable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OperatorMerge.java
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  jar/rx/internal/producers/SingleProducer.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
  jar/rx/internal/producers/SingleDelayedProducer.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
  jar/rx/internal/producers/ProducerObserverArbiter.java
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  jar/rx/internal/producers/QueuedProducer.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
  jar/rx/internal/operators/BackpressureUtils.java
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core/src/main/java/org/jctools/queues/MpmcArrayQueue.java
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  jar/rx/internal/util/unsafe/MpmcArrayQueue.java
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jar/rx/internal/util/ScalarSynchronousSingle.java

1.1044 gzip 1.9 3

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.1046 accessors-smart 1.2

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   * /opt/cola/permits/1119683421_1609741336.94/0/accessors-smart-1-2-sources-3-
     jar/net/minidev/asm/BeansAccess.java
1.1047 regexp 2.7.2

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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/CharacterIterator.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RE.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/recompile.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RESyntaxException.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REProgram.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REUtil.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REDebugCompiler.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REDemo.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/CharacterArrayCharacterIterator.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/StringCharacterIterator.java

1.1048 java-compression 1.7.1
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/StreamingXXHash64.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4CompressorWithLength.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4DecompressorWithLength.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/StreamingXXHash64JNI.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4JNI.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4ByteBufferUtils.java
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1.1049 objx v0.2.0

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

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 * /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1- jar/io/netty/handler/codec/DecoderResultProvider.java

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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/LineEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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 */
/**
 * A decoder that splits the received { @link ByteBuf} s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [ @link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * &lt;b&gt;lengthFieldOffset&lt;/b&gt;   = &lt;b&gt;0&lt;/b&gt;
 * &lt;b&gt;lengthFieldLength&lt;/b&gt;   = &lt;b&gt;2&lt;/b&gt;
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +--------+----------------+----+--------+----------------+
 * | Length | Actual Content |----| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | 0x000C | "HELLO, WORLD" |
 * +--------+----------------+----+--------+----------------+
 */
* <h3>2 bytes length field at offset 0, strip header</h3>
*  
* Because we can get the length of the content by calling 
*  @link ByteBuf#readableBytes()@link, you might want to strip the length 
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we 
* specified <tt>2</tt>, that is same with the length of the length field, to 
* strip the first two bytes.
*  
*  
* lengthFieldOffset   = 0  
* lengthFieldLength   = 2  
* lengthAdjustment    = 0  
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*  
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length  | Actual Content |
* | 0x000C  | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*  
* <h3>2 bytes length field at offset 0, do not strip header, the length field 
*     represents the length of the whole message</h3>
*  
* In most cases, the length field represents the length of the message body 
* only, as shown in the previous examples. However, in some protocols, the 
* length field represents the length of the whole message, including the 
* message header. In such a case, we specify a non-zero 
* <tt>lengthAdjustment</tt>. Because the length value in this example message 
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> 
* as <tt>lengthAdjustment</tt> for compensation.
*  
* lengthFieldOffset   = 0  
* lengthFieldLength   = 2  
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0  
*  
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length  | Actual Content |
* | 0x000E  | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*  
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*  
* The following message is a simple variation of the first example. An extra 
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero 
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |      | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE | "HELLO, WORLD" |      | 0x00000C |  0xCAFE | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----------------------------+-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+-----------------------------+
* </pre>
*  
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*  
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into lengthAdjustment.<tt>tt</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
*  
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <tt>lengthAdjustment</tt> = <tt>-3</tt> (= the length of HDR1 + LEN, negative)
* <tt>initialBytesToStrip</tt> = <tt>3</tt>
*  
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----------------------------+-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+-----------------------------+
* </pre>
* @see LengthFieldPrepender
*/

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/**
* Enumeration of supported Base64 dialects.
* <p>
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* Base64 Encoder/Decoder.</p>
*/

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1.1058 jackson-jaxrs-xml-provider 2.7.4

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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1.1059 sshd-core 1.1.0

1.1060 j2objc-annotations 1.1

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:

<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement <code>Replaceable</code> in their text representation class.</p>

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@see Replaceable
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableMultiset.java
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jar/com/google/common/collection/ImmutableMapKeySet.java
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jar/com/google/common/collection/SingletonImmutableBiMap.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/RegularImmutableMap.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/StandardRowSortedTable.java
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jar/com/google/common/collection/ImmutableMapValues.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/Collect Preconditions.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/SubscriberExceptionHandler.java

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jar/com/google/common/graph/MutableNetwork.java
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jar/com/google/common/graph/PredecessorsFunction.java
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jar/com/google/common/graph/ImmutableGraph.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/graph/Graphs.java
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jar/com/google/common/graph/ImmutableNetwork.java

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jar/com/google/common/eventbus/SubscriberRegistry.java
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jar/com/google/common/eventbus/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/eventbus/Subscriber.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
*/
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/util/concurrent/ListenerCallQueue.java
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 * */
*/

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */
/**
 * Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
 * version.
 */

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 */

/*
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 */
* under GWT but with a slightly different signature.

* <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT compiler to autostrip the normal server method in order to expose the special, inherited GWT version.
 */

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/MacHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/InterruptibleTask.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TransformedIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TreeRangeMap.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/SortedMultisetBridge.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingBlockingDeque.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/DescendingMultiset.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/RangeMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ForwardingNavigableMap.java
*/
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/Functions.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/io/CountingInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/Predicates.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/EnumMultiset.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Charsets.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LineReader.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LineBuffer.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Predicate.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/ByteStreams.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Function.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/DeadEvent.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableReferenceQueue.java
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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  jar/com/google/common/collection/MultimapBuilder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/MoreFiles.java
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  jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
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*/

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/MinMaxPriorityQueue.java

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* the License.
*/
/**
 * Holder for web specializations of methods of [@code Ints]. Intended to be empty for regular
 * version.
 */

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 * the License.
 */

/*
 * Holder for web specializations of methods of [@code Floats]. Intended to be empty for regular
 * version.
 */

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/CharEscaper.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Futures.java
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  jar/com/google/common/collection/FilteredKeyMultimap.java
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  jar/com/google/common/io/FileWriteMode.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/reflect/Invokable.java
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  jar/com/google/common/collection/ImmutableRangeSet.java
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  jar/com/google/common/xml/package-info.java
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  jar/com/google/common/cache/LongAddable.java
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  jar/com/google/common/reflect/TypeToInstanceMap.java
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  jar/com/google/common/math/LinearTransformation.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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jar/com/google/common/io/BaseEncoding.java
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jar/com/google/common/hash/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/math/PairStatsAccumulator.java
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jar/com/google/common/math/PairedStats.java
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jar/com/google/common/reflect/ClassPath.java
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jar/com/google/common/io/CharSink.java
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jar/com/google/common/reflect/Element.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/hash/ChecksumHashFunction.java
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jar/com/google/common/reflect/ClassLoader.java
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jar/com/google/common/reflect/TypeCapture.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/Queues.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/base/Present.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/math/DoubleUtils.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/Traverser.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/TypeResolver.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractIdleService.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/net/UrlEscapers.java

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/**
 * Holder for extra methods of \{@code Objects\} only in web. Intended to be empty for regular
 * version.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODo(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ObjectArrays.java

1.1065 select 1.1.2
1.1066 spring-security-taglibs 3.2.9

1.1067 commons-cli 1.4

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