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4.1 A Swiss Army Knife for OSGi 2.1.0

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 */
package org.osgi.service.component.annotations;

/**
 * Configuration Policy for the {@link Component} annotation.
 *
 * <p>
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 * 
 * @version $Id: 6809d3faefea9ab0ee4ba83d357dee0fc148fca $  
 * @since 1.1  
 */

public enum ConfigurationPolicy {

  /**
   * Use the corresponding Configuration object if present but allow the
   * component to be satisfied even if the corresponding Configuration object
   * is not present.
   */
  OPTIONAL("optional"),

  /**
   * There must be a corresponding Configuration object for the component
   * configuration to become satisfied.
   */
  REQUIRE("require"),

  /**
   * Always allow the component configuration to be satisfied and do not use
   * the corresponding Configuration object even if it is present.
   */
  IGNORE("ignore"),

  private final String value;

  ConfigurationPolicy(String value) {
    this.value = value;
  }

  @Override
  public String toString() {
    return value;
  }
}

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package org.osgi.service.component.annotations;

/**
 * Policy for the {@link Reference} annotation.
 *
 * @version $Id: 14e3e74d93bf5b8cb641db8f9ef7aaf64d68eda5 $
 */
public enum ReferencePolicy {

/**
 * The static policy is the most simple policy and is the default policy. A
 * component instance never sees any of the dynamics. Component
 * configurations are deactivated before any bound service for a reference
 * having a static policy becomes unavailable. If a target service is
 * available to replace the bound service which became unavailable, the
 * component configuration must be reactivated and bound to the replacement
 * service.
 */
STATIC("static"),

/**
 * The dynamic policy is slightly more complex since the component
 * implementation must properly handle changes in the set of bound services.
 * With the dynamic policy, SCR can change the set of bound services without
 * deactivating a component configuration. If the component uses the event
 * strategy to access services, then the component instance will be notified
 * of changes in the set of bound services by calls to the bind and unbind
 * methods.
 */
DYNAMIC("dynamic"),

private final String value;

ReferencePolicy(String value) {
    this.value = value;
}
@Override
public String toString() {
    return value;
}
/*
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*/
package org.osgi.service.component.annotations;

/**
* Policy option for the [@link Reference] annotation.
* @version $Id: 914e3ef6b1ebfc140776ab4ba8773bb1f213d50d $
* @since 1.2
*/
public enum ReferencePolicyOption {
    /**
     * The reluctant policy option is the default policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
dynamic] reference policies. When a new target service for a reference
becomes available, references having the reluctant policy option for the
static policy or the dynamic policy with a unary cardinality will ignore
the new target service. References having the dynamic policy with a
multiple cardinality will bind the new target service.
     */
    RELUCTANT("reluctant"),

    /**
     * The greedy policy option is a valid policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
dynamic] reference policies. When a new target service for a reference
becomes available, references having the greedy policy option will bind
the new target service.
     */
4.2 addresstracker-config 0.1.1-Helium-SR1

4.2.1 Available under license:

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4.4 addresstracker-model 0.1.1-Helium-SR1

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4.5 Aether :: Implementation 1.11

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import java.io.UnsupportedEncodingException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

/**
 * A simple digester for strings.
 *
 * @author Benjamin Bentmann
 */
class SimpleDigest {

    private MessageDigest digest;
    private long hash;

    public SimpleDigest() {
        try {
            digest = MessageDigest.getInstance( "SHA-1" );
        } catch ( NoSuchAlgorithmException e ) {
            try {
                digest = messageDigest.getInstance( "MD5" );
            } catch ( NoSuchAlgorithmException ne ) {
                digest = null;
                hash = 13;
            }
        }
    }

    public void update( String data ) {
        if ( data == null ) {
            }
return;
}
if ( digest != null )
{
    try
    {
        digest.update( data.getBytes( "UTF-8" ) );
    }
    catch ( UnsupportedEncodingException e )
    {
        // broken JVM
    }
}
else
{
    hash = hash * 31 + data.hashCode();
}
}

public String digest()
{
    if ( digest != null )
    {
        StringBuilder buffer = new StringBuilder( 64 );

        byte[] bytes = digest.digest();
        for ( int i = 0; i < bytes.length; i++ )
        {
            int b = bytes[i] & 0xFF;

            if ( b < 0x10 )
            {
                buffer.append( '0' );
            }

            buffer.append( Integer.toHexString( b ) );
        }

        return buffer.toString();
    }
    else
    {
        return Long.toHexString( hash );
    }
}
}
package org.sonatype.aether.impl.internal;

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 ******************************************************************************/

import java.io.File;
import java.util.SortedSet;
import java.util.TreeSet;
import org.sonatype.aether.RepositorySystemSession;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.metadata.Metadata;
import org.sonatype.aether.repository.LocalArtifactRegistration;
import org.sonatype.aether.repository.LocalArtifactRequest;
import org.sonatype.aether.repository.LocalArtifactResult;
import org.sonatype.aether.repository.LocalMetadataRegistration;
import org.sonatype.aether.repository.LocalMetadataRequest;
import org.sonatype.aether.repository.LocalMetadataResult;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.RemoteRepository;
import org.sonatype.aether.spi.log.Logger;

/**
 * A local repository manager that realizes the classical Maven 2.0 local repository.
 *
 * @author Benjamin Bentmann
 */
public class SimpleLocalRepositoryManager
  implements LocalRepositoryManager
{

  private final LocalRepository repository;

  public SimpleLocalRepositoryManager( File basedir )
  {
    this( basedir, "simple" );
  }
}
public SimpleLocalRepositoryManager( String basedir )
{
    this( ( basedir != null ) ? new File( basedir ) : null, "simple" );
}

SimpleLocalRepositoryManager( File basedir, String type )
{
    if ( basedir == null )
    {
        throw new IllegalArgumentException( "base directory has not been specified" );
    }
    repository = new LocalRepository( basedir.getAbsolutePath(), type );
}

public SimpleLocalRepositoryManager setLogger( Logger logger )
{
    return this;
}

public LocalRepository getRepository()
{
    return repository;
}

public String getPathForLocalArtifact( Artifact artifact )
{
    StringBuilder path = new StringBuilder( 128 );

    path.append( artifact.getGroupId().replace( ".", '/' ) ).append( '/' );

    path.append( artifact.getArtifactId() ).append( '/' );

    path.append( artifact.getBaseVersion() ).append( '/' );

    path.append( artifact.getArtifactId() ).append( '-' ).append( artifact.getVersion() );

    if ( artifact.getClassifier().length() > 0 )
    {
        path.append( '-' ).append( artifact.getClassifier() );
    }

    path.append( '.' ).append( artifact.getExtension() );

    return path.toString();
}

public String getPathForRemoteArtifact( Artifact artifact, RemoteRepository repository, String context )
{
return getPathForLocalArtifact( artifact );
}

public String getPathForLocalMetadata( Metadata metadata )
{
    return getPath( metadata, "local" );
}

public String getPathForRemoteMetadata( Metadata metadata, RemoteRepository repository, String context )
{
    return getPath( metadata, getRepositoryKey( repository, context ) );
}

String getRepositoryKey( RemoteRepository repository, String context )
{
    String key;

    if ( repository.isRepositoryManager() )
    {
        // repository serves dynamic contents, take request parameters into account for key

        StringBuilder buffer = new StringBuilder( 128 );

        buffer.append( repository.getId() );

        buffer.append( '-' );

        SortedSet<String> subKeys = new TreeSet<String>();
        for ( RemoteRepository mirroredRepo : repository.getMirroredRepositories() )
        {
            subKeys.add( mirroredRepo.getId() );
        }

        SimpleDigest digest = new SimpleDigest();
        digest.update( context );
        for ( String subKey : subKeys )
        {
            digest.update( subKey );
        }
        buffer.append( digest.digest() );
        key = buffer.toString();
    }
    else
    {
        // repository serves static contents, its id is sufficient as key

        key = repository.getId();
    }
}
private String getPath( Metadata metadata, String repositoryKey )
{
    StringBuilder path = new StringBuilder( 128 );

    if ( metadata.getGroupId().length() > 0 )
    {
        path.append( metadata.getGroupId().replace( '.', '/' ) ).append( '/' );
    }

    if ( metadata.getArtifactId().length() > 0 )
    {
        path.append( metadata.getArtifactId() ).append( '/' );
    }

    if ( metadata.getVersion().length() > 0 )
    {
        path.append( metadata.getVersion() ).append( '/' );
    }

    path.append( insertRepositoryKey( metadata.getType(), repositoryKey ) );

    return path.toString();
}

private String insertRepositoryKey( String filename, String repositoryKey )
{
    String result;
    int idx = filename.indexOf( '.' );
    if ( idx < 0 )
    {
        result = filename + '-' + repositoryKey;
    }
    else
    {
        result = filename.substring( 0, idx ) + '-' + repositoryKey + filename.substring( idx );
    }
    return result;
}

public LocalArtifactResult find( RepositorySystemSession session, LocalArtifactRequest request )
{
    String path = getPathForLocalArtifact( request.getArtifact() );
    File file = new File( getRepository().getBasedir(), path );
LocalArtifactResult result = new LocalArtifactResult( request );
if ( file.isFile() )
{
    result.setFile( file );
    result.setAvailable( true );
}
return result;
}

public void add( RepositorySystemSession session, LocalArtifactRegistration request )
{
    // noop
}

@Override
public String toString()
{
    return String.valueOf( getRepository() );
}

public LocalMetadataResult find( RepositorySystemSession session, LocalMetadataRequest request )
{
    LocalMetadataResult result = new LocalMetadataResult( request );

    String path;

    Metadata metadata = request.getMetadata();
    String context = request.getContext();
    RemoteRepository remote = request.getRepository();

    if ( remote != null )
    {
        path = getPathForRemoteMetadata( metadata, remote, context );
    }
    else
    {
        path = getPathForLocalMetadata( metadata );
    }

    File file = new File( getRepository().getBasedir(), path );
    if ( file.isFile() )
    {
        result.setFile( file );
    }
    return result;
public void add(RepositorySystemSession session, LocalMetadataRegistration request) {
    // noop
}

package org.sonatype.aether.impl.internal;

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*******************************************************************************/

import org.codehaus.plexus.component.annotations.Component;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.NoLocalRepositoryManagerException;
import org.sonatype.aether.spi.localrepo.LocalRepositoryManagerFactory;

/**
 * Creates SimpleLocalRepositoryManager}s for repository type simple).
 * @author Benjamin Hanzelmann
 */
@Component( role = LocalRepositoryManagerFactory.class, hint = "simple" )
public class SimpleLocalRepositoryManagerFactory implements LocalRepositoryManagerFactory {

public LocalRepositoryManager newInstance(LocalRepository repository)
    throws NoLocalRepositoryManagerException {
    if ("".equals(repository.getContentType()) || "simple".equals(repository.getContentType())) {
        return new SimpleLocalRepositoryManager(repository.getBasedir());
    } else {
        throw new NoLocalRepositoryManagerException(repository);
    }
}
public int getPriority()
{
    return 0;
}

4.6 angular 1.2.16
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4.7 angular-bootstrap 0.7.0

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4.8 angular-translate 2.2.0

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4.9 angular-translate-loader-static-files 2.2.0
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4.23 arphandler-config 0.1.1-Helium-SR1

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4.38 dlux.common.yangutils.resources 0.0.2-
Helium-SR1

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4.39 dlux.connection_manager.resources
0.0.2-Helium-SR1

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4.41 dlux.core.resources 0.0.2-Helium-SR1

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4.42 dlux.flow.resources 0.0.2-Helium-SR1

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4.43 dlux.loader.resources 0.0.2-Helium-SR1

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```xml
<?xml version="1.0" encoding="UTF-8"?>
<module name="shutdown-impl"
    xmlns="urn:ietf:params:xml:ns:yang:yin:1"
    xmlns:shutdown="urn:opendaylight:params:xml:ns:yang:controller:shutdown"
    xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1"/>
<prefix value="shutdown-impl"/>
<import module="shutdown">
    <prefix value="shutdown"/>
    <revision-date date="2013-12-18"/>
</import>
<import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
</import>
<organization>
    <text>Cisco Systems, Inc.</text>
</organization>
<description>
    <text>This module contains the base YANG definitions for shutdown implementation.</text>
</description>
<revision date="2013-12-18">
    <description>
        <text>Initial revision.</text>
    </description>
</revision>
<identity name="shutdown">
    <base name="config:module-type"/>
    <config:provided-service name="shutdown:shutdown"/>
</identity>
</module>
```

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This module contains the base YANG definitions for shutdown implementation.

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<identity name="shutdown-rpc"/>
<rpc name="shutdown">
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
      </refine>
    </uses>
    <leaf name="input-secret">
      <type name="string"/>
    </leaf>
    <leaf name="max-wait-time">
      <type name="uint32"/>
      <description>
        Maximum time in milliseconds before process is forcibly exited. Zero or null cancels this functionality.
      </description>
    </leaf>
    <leaf name="reason">
      <type name="string"/>
    </leaf>
  </input>
</rpc>
</module>
<prefix value="th-java-fixed"/>
<import module="threadpool">
  <prefix value="th"/>
  <revision-date date="2013-04-09"/>
</import>
<import module="config">
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
  <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
  <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-fixed">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadpool"/>
  <config:java-name-prefix java-prefix="FixedThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-fixed">
    <when condition="/config:modules/config:module/config:type = 'threadpool-fixed'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <container name="threadFactory">
      ...
    </container>
  </case>
  ...
</augment>
<uses name="config:service-ref">
<refine target-node="type">
  <config:required-identity name="th:threadfactory"/>
</refine>
</uses>
</container>
</case>
</augment>
</module>

<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-flexible"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <prefix value="th-java-flexible"/>
  <import module="threadpool"/>
  <prefix value="th"/>
  <revision-date date="2013-04-09"/>
</import>
  <import module="config"/>
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
  <import module="rpc-context"/>
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
  </contact>
  <description>
    <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
  </description>
</module>

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<revision date="2013-12-01">
<description>
<text>Initial revision</text>
</description>
</revision>

<identity name="threadpool-flexible">
<base name="config:module-type"/>
<config:provided-service name="th:threadpool"/>
<config:java-name-prefix java-prefix="FlexibleThreadPool"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
<case name="threadpool-flexible">
<when condition="/config:modules/config:module/config:type = 'threadpool-flexible'"/>
<leaf name="max-thread-count">
 <type name="uint16"/>
</leaf>
<leaf name="minThreadCount">
 <type name="uint16"/>
</leaf>
<leaf name="keepAliveMillis">
 <type name="uint32"/>
</leaf>
<container name="threadFactory">
<uses name="config:service-ref">
<refine target-node="type">
<config:required-identity name="th:threadfactory"/>
</refine>
</uses>
</container>
</case>
</augment>
</module>

<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1.0"/>
<prefix value="th-java-scheduled"/>
<yang-version value="1.0"/>
<prefix value="th-java-scheduled"/>
<import module="threadpool"/>
<prefix value="th"/>
<revision-date date="2013-04-09"/>
</import>
<import module="config"/>
<prefix value="config"/>
This module contains the base YANG definitions for thread services pure Java implementation.

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<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <prefix value="th-java"/>
  <import module="threadpool">
    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
  </contact>
  <description>
    <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
  </description>
  <revision date="2013-04-05">
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Robert Varga.</text>
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4.53 forwardingrules-manager 1.1.1-Helium-SR1

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/**
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 */
package org.opendaylight.controller.frm.impl;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import org.opendaylight.controller.frm.ForwardingRulesCommiter;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import java.util.Collections;
import java.util.Map;
import java.util.Set;

/**
 * AbstractChangeListner implemented basic {@link AsyncDataChangeEvent} processing for
 * flow node subDataObject (flows, groups and meters).
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 */
public abstract class AbstractListeningCommitee<T extends DataObject> implements ForwardingRulesCommiter<T> {

    protected ForwardingRulesManager provider;
    protected final Class<T> clazz;

    public AbstractListeningCommitee(ForwardingRulesManager provider, Class<T> clazz) {
        this.provider = Preconditions.checkNotNull(provider, "ForwardingRulesManager can not be null!");
        this.clazz = Preconditions.checkNotNull(clazz, "Class can not be null!");
    }

    @Override
    public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> changeEvent) {
        Preconditions.checkNotNull(changeEvent, "Async ChangeEvent can not be null!");

        /* All DataObjects for create */
        final Map<InstanceIdentifier<?>, DataObject> createdData = changeEvent.getCreatedData() != null
                ? changeEvent.getCreatedData() : Collections.<InstanceIdentifier<?>, DataObject> emptyMap();
        /* All DataObjects for remove */
        final Set<InstanceIdentifier<?>> removeData = changeEvent.getRemovedPaths() != null
                ? changeEvent.getRemovedPaths() : Collections.<InstanceIdentifier<?>> emptySet();
        /* All DataObjects for updates */
        final Map<InstanceIdentifier<?>, DataObject> updateData = changeEvent.getUpdatedData() != null
                ? changeEvent.getUpdatedData() : Collections.<InstanceIdentifier<?>, DataObject> emptyMap();

        this.createData(createdData);
        this.updateData(updateData, originalData);
        this.removeData(removeData, originalData);
    }

}
/**
 * Method return wildCardPath for Listener registration
 * and for identify the correct KeyInstanceIdentifier from data;
 */

protected abstract InstanceIdentifier<T> getWildCardPath();

@SuppressWarnings("unchecked")
private void createData(final Map<InstanceIdentifier<?>, DataObject> createdData) {
    final Set<InstanceIdentifier<?>> keys = createdData.keySet() != null
        ? createdData.keySet() : Collections.<InstanceIdentifier<?>> emptySet();
    for (InstanceIdentifier<?> key : keys) {
        if (clazz.equals(key.getTargetType())) {
            final InstanceIdentifier<FlowCapableNode> nodeIdent =
                key.firstIdentifierOf(FlowCapableNode.class);
            if (preConfigurationCheck(nodeIdent)) {
                InstanceIdentifier<T> createKeyIdent = key.firstIdentifierOf(clazz);
                final Optional<DataObject> value = Optional.of(createdData.get(key));
                if (value.isPresent()) {
                    this.add(createKeyIdent, (T)value.get(), nodeIdent);
                }
            }
        }
    }
}

@SuppressWarnings("unchecked")
private void updateData(final Map<InstanceIdentifier<?>, DataObject> updateData,
        final Map<InstanceIdentifier<?>, DataObject> originalData) {
    final Set<InstanceIdentifier<?>> keys = updateData.keySet() != null
        ? updateData.keySet() : Collections.<InstanceIdentifier<?>> emptySet();
    for (InstanceIdentifier<?> key : keys) {
        if (clazz.equals(key.getTargetType())) {
            final InstanceIdentifier<FlowCapableNode> nodeIdent =
                key.firstIdentifierOf(FlowCapableNode.class);
            if (preConfigurationCheck(nodeIdent)) {
                InstanceIdentifier<T> updateKeyIdent = key.firstIdentifierOf(clazz);
                final Optional<DataObject> value = Optional.of(updateData.get(key));
                final Optional<DataObject> original = Optional.of(originalData.get(key));
                if (value.isPresent() && original.isPresent()) {
                    this.update(updateKeyIdent, (T)original.get(), (T)value.get(), nodeIdent);
                }
            }
        }
    }
}
@SuppressWarnings("unchecked")
private void removeData(final Set<InstanceIdentifier<?>> removeData, final Map<InstanceIdentifier<?>, DataObject> originalData) {

for (InstanceIdentifier<?> key : removeData) {
    if (clazz.equals(key.getTargetType())) {
        final InstanceIdentifier<FlowCapableNode> nodeIdent = key.firstIdentifierOf(FlowCapableNode.class);
        if (preConfigurationCheck(nodeIdent)) {
            final InstanceIdentifier<T> ident = key.firstIdentifierOf(clazz);
            final DataObject removeValue = originalData.get(key);
            this.remove(ident, (T)removeValue, nodeIdent);
        }
    }
}
}

private boolean preConfigurationCheck(final InstanceIdentifier<FlowCapableNode> nodeIdent) {
    Preconditions.checkNotNull(nodeIdent, "FlowCapableNode ident can not be null!");
    return provider.isNodeActive(nodeIdent);
}

/**
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 */

package org.opendaylight.controller.frm.impl;

import java.util.Collections;
import java.util.List;
import java.util.Set;
import org.opendaylight.controller.frm.FlowNodeReconciliation;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.MeterKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.GroupKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.KeyedInstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * forwardingrules-manager
 * org.opendaylight.controller.frm
 *
 * FlowNode Reconciliation Listener
 * Reconciliation for a new FlowNode
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Jun 13, 2014
 */
public class FlowNodeReconciliationImpl implements FlowNodeReconciliation {

    private static final Logger LOG = LoggerFactory.getLogger(FlowNodeReconciliationImpl.class);

    private final ForwardingRulesManager provider;

    private ListenerRegistration<DataChangeListener> listenerRegistration;

    public FlowNodeReconciliationImpl (final ForwardingRulesManager manager, final DataBroker db) {
        this.provider = Preconditions.checkNotNull(manager, "ForwardingRulesManager can not be null!");
        Preconditions.checkNotNull(db, "DataBroker can not be null!");

        /* Build Path */
        InstanceIdentifier<FlowCapableNode> flowNodeWildCardIdentifier = InstanceIdentifier.create(Nodes.class)
            .child(Node.class).augmentation(FlowCapableNode.class);

        this.listenerRegistration = db.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL,
            flowNodeWildCardIdentifier, FlowNodeReconciliationImpl.this, DataChangeScope.BASE);
    }

    @Override

    private final ForwardingRulesManager provider;

    private ListenerRegistration<DataChangeListener> listenerRegistration;

    public FlowNodeReconciliationImpl (final ForwardingRulesManager manager, final DataBroker db) {
        this.provider = Preconditions.checkNotNull(manager, "ForwardingRulesManager can not be null!");
        Preconditions.checkNotNull(db, "DataBroker can not be null!");

        /* Build Path */
        InstanceIdentifier<FlowCapableNode> flowNodeWildCardIdentifier = InstanceIdentifier.create(Nodes.class)
            .child(Node.class).augmentation(FlowCapableNode.class);

        this.listenerRegistration = db.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL,
            flowNodeWildCardIdentifier, FlowNodeReconciliationImpl.this, DataChangeScope.BASE);
    }

    @Override

}
public void close() {
    if (listenerRegistration != null) {
        try {
            listenerRegistration.close();
        } catch (Exception e) {
            LOG.error("Error by stop FRM FlowNodeReconilListener.", e);
        }
        listenerRegistration = null;
    }
}

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> changeEvent) {
    Preconditions.checkNotNull(changeEvent, "Async ChangeEvent can not be null!");
    /* All DataObjects for create */
    final Set<InstanceIdentifier<?>> createdData = changeEvent.getCreatedData() != null ? changeEvent.getCreatedData().keySet() : Collections.<InstanceIdentifier<?>> emptySet();
    /* All DataObjects for remove */
    final Set<InstanceIdentifier<?>> removeData = changeEvent.getRemovedPaths() != null ? changeEvent.getRemovedPaths() : Collections.<InstanceIdentifier<?>> emptySet();

    for (InstanceIdentifier<?> entryKey : removeData) {
        final InstanceIdentifier<FlowCapableNode> nodeIdent = entryKey .firstIdentifierOf(FlowCapableNode.class);
        if (! nodeIdent.isWildcarded()) {
            flowNodeDisconnected(nodeIdent);
        }
    }

    for (InstanceIdentifier<?> entryKey : createdData) {
        final InstanceIdentifier<FlowCapableNode> nodeIdent = entryKey .firstIdentifierOf(FlowCapableNode.class);
        if (! nodeIdent.isWildcarded()) {
            flowNodeConnected(nodeIdent);
        }
    }
}

@Override
public void flowNodeDisconnected(InstanceIdentifier<FlowCapableNode> disconnectedNode) {
    provider.unregistrateNode(disconnectedNode);
}

@Override
public void flowNodeConnected(InstanceIdentifier<FlowCapableNode> connectedNode) {
    if (! provider.isNodeActive(connectedNode)) {
        provider.registrateNewNode(connectedNode);
        reconciliation(connectedNode);
    }
}
private void reconciliation(final InstanceIdentifier<FlowCapableNode> nodeIdent) {

    ReadOnlyTransaction trans = provider.getReadTranaction();
    Optional<FlowCapableNode> flowNode = Optional.absent();

    try {
        flowNode = trans.read(LogicalDatastoreType.CONFIGURATION, nodeIdent).get();
    } catch (Exception e) {
        LOG.error("Fail with read Config/DS for Node {} !", nodeIdent, e);
    }

    if (flowNode.isPresent()) {
        /* Groups - have to be first */
        List<Group> groups = flowNode.get().getGroup() != null
                ? flowNode.get().getGroup() : Collections.<Group> emptyList();
        for (Group group : groups) {
            final KeyedInstanceIdentifier<Group, GroupKey> groupIdent =
                nodeIdent.child(Group.class, group.getKey());
            this.provider.getGroupCommiter().add(groupIdent, group, nodeIdent);
        }

        /* Meters */
        List<Meter> meters = flowNode.get().getMeter() != null
                ? flowNode.get().getMeter() : Collections.<Meter> emptyList();
        for (Meter meter : meters) {
            final KeyedInstanceIdentifier<Meter, MeterKey> meterIdent =
                nodeIdent.child(Meter.class, meter.getKey());
            this.provider.getMeterCommiter().add(meterIdent, meter, nodeIdent);
        }

        /* Flows */
        List<Table> tables = flowNode.get().getTable() != null
                ? flowNode.get().getTable() : Collections.<Table> emptyList();
        for (Table table : tables) {
            final KeyedInstanceIdentifier<Table, TableKey> tableIdent =
                nodeIdent.child(Table.class, table.getKey());
            for (Flow flow : flows) {
                final KeyedInstanceIdentifier<Flow, FlowKey> flowIdent =
                    tableIdent.child(Flow.class, flow.getKey());
                this.provider.getFlowCommiter().add(flowIdent, flow, nodeIdent);
            }
        }
    }

    /* clean transaction */
    trans.close();
}
package org.opendaylight.controller.frm.impl;

import java.util.Collections;
import java.util.Set;
import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.frm.FlowNodeReconciliation;
import org.opendaylight.controller.frm.ForwardingRulesCommiter;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowService;
import org.opendaylight.yanggen.v1.urn.opendaylight.group.service.rev130918.SalGroupService;
import org.opendaylight.yanggen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yanggen.v1.urn.opendaylight.meter.service.rev130918.SalMeterService;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.Sets;

/**
 * forwardingrules-manager
 * org.opendaylight.controller.frm.impl
 *
 * Manager and middle point for whole module.
 * It contains ActiveNodeHolder and provide all RPC services.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 25, 2014
 */
public class ForwardingRulesManagerImpl implements ForwardingRulesManager {
private static final Logger LOG = LoggerFactory.getLogger(ForwardingRulesManagerImpl.class);

private final AtomicLong txNum = new AtomicLong();
private final Object lockObj = new Object();
private Set<InstanceIdentifier<FlowCapableNode>> activeNodes = Collections.emptySet();

private final DataBroker dataService;
private final SalFlowService salFlowService;
private final SalGroupService salGroupService;
private final SalMeterService salMeterService;

private ForwardingRulesCommiter<Flow> flowListener;
private ForwardingRulesCommiter<Group> groupListener;
private ForwardingRulesCommiter<Meter> meterListener;
private FlowNodeReconciliation nodeListener;

public ForwardingRulesManagerImpl(final DataBroker dataBroker,
           final RpcConsumerRegistry rpcRegistry) {
    this.dataService = Preconditions.checkNotNull(dataBroker, "DataBroker can not be null!");
    Preconditions.checkNotNull(rpcRegistry, "RpcConsumerRegistry can not be null!");
    this.salFlowService = Preconditions.checkNotNull(rpcRegistry.getRpcService(SalFlowService.class),
           "RPC SalFlowService not found.");
    this.salGroupService = Preconditions.checkNotNull(rpcRegistry.getRpcService(SalGroupService.class),
           "RPC SalGroupService not found.");
    this.salMeterService = Preconditions.checkNotNull(rpcRegistry.getRpcService(SalMeterService.class),
           "RPC SalMeterService not found.");
}

@Override
public void start() {
    this.flowListener = new FlowForwarder(this, dataService);
    this.groupListener = new GroupForwarder(this, dataService);
    this.meterListener = new MeterForwarder(this, dataService);
    this.nodeListener = new FlowNodeReconciliationImpl(this, dataService);
    LOG.info("ForwardingRulesManager has started successfull.");
}

@Override
public void close() throws Exception {
    if(this.flowListener != null) {
        this.flowListener.close();
        this.flowListener = null;
    }
    if (this.groupListener != null) {
        this.groupListener.close();
        this.groupListener = null;
    }
}
if (this.meterListener != null) {
    this.meterListener.close();
    this.meterListener = null;
}

if (this.nodeListener != null) {
    this.nodeListener.close();
    this.nodeListener = null;
}

@override
public ReadOnlyTransaction getReadTranaction() {
    return dataService.newReadOnlyTransaction();
}

@override
public String getNewTransactionId() {
    return "DOM-" + txNum.getAndIncrement();
}

@override
public boolean isNodeActive(InstanceIdentifier<FlowCapableNode> ident) {
    return activeNodes.contains(ident);
}

@override
public void registrateNewNode(InstanceIdentifier<FlowCapableNode> ident) {
    if (!activeNodes.contains(ident)) {
        synchronized (lockObj) {
            if (!activeNodes.contains(ident)) {
                Set<InstanceIdentifier<FlowCapableNode>> set =
                    Sets.newHashSet(activeNodes);
                set.add(ident);
                activeNodes = Collections.unmodifiableSet(set);
            }
        }
    }
}

@override
public void unregistrateNode(InstanceIdentifier<FlowCapableNode> ident) {
    if (activeNodes.contains(ident)) {
        synchronized (lockObj) {
            if (activeNodes.contains(ident)) {
                Set<InstanceIdentifier<FlowCapableNode>> set =
                    Sets.newHashSet(activeNodes);
                set.remove(ident);
                activeNodes = Collections.unmodifiableSet(set);
            }
        }
    }
}
activeNodes = Collections.unmodifiableSet(set);
}
}
}

@Override
public SalFlowService getSalFlowService() {
    return salFlowService;
}

@Override
public SalGroupService getSalGroupService() {
    return salGroupService;
}

@Override
public SalMeterService getSalMeterService() {
    return salMeterService;
}

@Override
public ForwardingRulesCommiter<Flow> getFlowCommitter() {
    return flowListener;
}

@Override
public ForwardingRulesCommiter<Group> getGroupCommitter() {
    return groupListener;
}

@Override
public ForwardingRulesCommiter<Meter> getMeterCommitter() {
    return meterListener;
}

@Override
public FlowNodeReconciliation getFlowNodeReconciliation() {
    return nodeListener;
}
}

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 */

Open Source Used In WAE 6.2
package org.opendaylight.controller.frm;

import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

/**
 * forwardingrules-manager
 * org.opendaylight.controller.frm
 *
 * ForwardingRulesCommiter
 * It represent a contract between DataStore DataChangeEvent and relevant
 * SalRpcService for device. Every implementation has to be registered for
 * Configurational/DS tree path.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 25, 2014
 */
public interface ForwardingRulesCommiter <D extends DataObject> extends AutoCloseable, DataChangeListener {

/**
 * Method removes DataObject which is identified by InstanceIdentifier
 * from device.
 *
 * @param InstanceIdentifier identifier - the whole path to DataObject
 * @param DataObject remove - DataObject for removing
 * @param InstanceIdentifier<FlowCapableNode> parent Node InstanceIdentifier
 */
void remove(InstanceIdentifier<D> identifier, D del,
           InstanceIdentifier<FlowCapableNode> nodeIdent);

/**
 * Method updates the original DataObject to the update DataObject
 * in device. Both are identified by same InstanceIdentifier
 *
 * @param InstanceIdentifier identifier - the whole path to DataObject
 * @param DataObject original - original DataObject (for update)
 * @param DataObject update - changed DataObject (contain updates)
 */
void update(InstanceIdentifier<D> identifier, D original, D update,
            InstanceIdentifier<FlowCapableNode> nodeIdent);

/**
 * Method adds the DataObject which is identified by InstanceIdentifier
 * to device.

void add(InstanceIdentifier<D> identifier, D add,
           InstanceIdentifier<FlowCapableNode> nodeIdent);

4.54 Google Collections Library 1.0

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14.0.1

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4.56 hosttracker-config 0.1.1-Helium-SR1

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4.57 hosttracker-impl 0.1.1-Helium-SR1

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```
import java.math.BigInteger;
import java.util.Date;
import org.opendaylight.controller.sal.binding.api.NotificationService;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.IpAddress;
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import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.KnownEtherType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.VlanId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv4.rev140528.Ipv4PacketReceived;

/**
 * A Simple Address Observer based on l2switch address observer.
 */
public class SimpleAddressObserver implements ArpPacketListener, Ipv4PacketListener, Ipv6PacketListener {

    private final String IPV4_IP_TO_IGNORE = "0.0.0.0";
    private final String IPV6_IP_TO_IGNORE = "0::0:0:0:0:0:0";

}
private HostTrackerImpl hostTrackerImpl;
private NotificationService notificationService;

public SimpleAddressObserver(HostTrackerImpl hostTrackerImpl, NotificationService notificationService) {
  this.hostTrackerImpl = hostTrackerImpl;
  this.notificationService = notificationService;
}

void registerAsNotificationListener() {
  this.notificationService.registerNotificationListener(this);
}

@Override
public void onArpPacketReceived(ArpPacketReceived packetReceived) {
  if (packetReceived == null || packetReceived.getPacketChain() == null) {
    return;
  }
  RawPacket rawPacket = null;
  EthernetPacket ethernetPacket = null;
  ArpPacket arpPacket = null;
  for (PacketChain packetChain : packetReceived.getPacketChain()) {
    if (packetChain.getPacket() instanceof RawPacket) {
      rawPacket = (RawPacket) packetChain.getPacket();
    } else if (packetChain.getPacket() instanceof EthernetPacket) {
      ethernetPacket = (EthernetPacket) packetChain.getPacket();
    } else if (packetChain.getPacket() instanceof ArpPacket) {
      arpPacket = (ArpPacket) packetChain.getPacket();
    }
  }
  if (rawPacket == null || ethernetPacket == null || arpPacket == null) {
    return;
  }
  VlanId vlanId = null;
  if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
    vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
  }
  MacAddress sourceMac = ethernetPacket.getSourceMac();
  IpAddress ipAddress = null;
  if (arpPacket.getProtocolType().equals(KnownEtherType.Ipv4)) {
    ipAddress = new IpAddress(new Ipv4Address(arpPacket.getSourceProtocolAddress()));
  }
  Addresses addrs = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
  if (addrs == null) {
    return;
  }
  NodeConnectorRef ingress = rawPacket.getIngress();
@Override
public void onIpv4PacketReceived(Ipv4PacketReceived packetReceived) {
    if (packetReceived == null || packetReceived.getPacketChain() == null) {
        return;
    }

    RawPacket rawPacket = null;
    EthernetPacket ethernetPacket = null;
    Ipv4Packet ipv4Packet = null;
    for (PacketChain packetChain : packetReceived.getPacketChain()) {
        if (packetChain.getPacket() instanceof RawPacket) {
            rawPacket = (RawPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof EthernetPacket) {
            ethernetPacket = (EthernetPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof Ipv4Packet) {
            ipv4Packet = (Ipv4Packet) packetChain.getPacket();
        }
    }
    if (rawPacket == null || ethernetPacket == null || ipv4Packet == null) {
        return;
    }

    if (IPV4_IP_TO_IGNORE.equals(ipv4Packet.getSourceIpv4().getValue())) {
        return;
    }

    VlanId vlanId = null;
    if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
        vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
    }
    MacAddress sourceMac = ethernetPacket.getSourceMac();
    IpAddress ipAddress = new IpAddress(ipv4Packet.getSourceIpv4());
    Addresses addrs = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
    if (addrs == null) {
        return;
    }

    NodeConnectorRef ingress = rawPacket.getIngress();
    hostTrackerImpl.packetReceived(addrs, ingress.getValue());
}

@Override
public void onIpv6PacketReceived(Ipv6PacketReceived packetReceived) {
    if (packetReceived == null || packetReceived.getPacketChain() == null) {
        return;
    }

    VlanId vlanId = null;
    if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
        vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
    }
    MacAddress sourceMac = ethernetPacket.getSourceMac();
    IpAddress ipAddress = new IpAddress(ipv4Packet.getSourceIpv4());
    Addresses addrs = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
    if (addrs == null) {
        return;
    }

    NodeConnectorRef ingress = rawPacket.getIngress();
    hostTrackerImpl.packetReceived(addrs, ingress.getValue());
}

RawPacket rawPacket = null;
EthernetPacket ethernetPacket = null;
Ipv6Packet ipv6Packet = null;
for (PacketChain packetChain : packetReceived.getPacketChain()) {
    if (packetChain.getPacket() instanceof RawPacket) {
        rawPacket = (RawPacket) packetChain.getPacket();
    } else if (packetChain.getPacket() instanceof EthernetPacket) {
        ethernetPacket = (EthernetPacket) packetChain.getPacket();
    } else if (packetChain.getPacket() instanceof Ipv6Packet) {
        ipv6Packet = (Ipv6Packet) packetChain.getPacket();
    }
}
if (rawPacket == null || ethernetPacket == null || ipv6Packet == null) {
    return;
}
if (IPV6_IP_TO_IGNORE.equals(ipv6Packet.getSourceIpv6().getValue())) {
    return;
}
VlanId vlanId = null;
if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
    vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
}
MacAddress sourceMac = ethernetPacket.getSourceMac();
IpAddress ipAddress = new IpAddress(ipv6Packet.getSourceIpv6());
Addresses addrs = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
if (addrs == null) {
    return;
}
NodeConnectorRef ingress = rawPacket.getIngress();
hostTrackerImpl.packetReceived(addrs, ingress.getValue());

private Addresses createAddresses(MacAddress srcMacAddr, VlanId vlanId, IpAddress srcIpAddr,
KnownEtherType ketype) {
    AddressesBuilder addrs = new AddressesBuilder();
    if (srcMacAddr == null || srcIpAddr == null) {
        return null;
    }
    NodeConnectorRef ingress = rawPacket.getIngress();
    hostTrackerImpl.packetReceived(addrs, ingress.getValue());
    return addrs.build();
}

/**
 * TODO: if this is used, use a ReadWriteTranscation to figure out if
 * there is an already existing addresses that has the same MAC, IP,
 * VLAN triple and use its ID then, if theres none, then we make up
 * our own Addresses
 */
BigInteger id =
BigInteger.valueOf(ketype.getIntValue()).abs().add(BigInteger.valueOf(srcMacAddr.hashCode()).abs().shiftLeft(16));

addrs.setId(id);
addrs.setKey(new AddressesKey(addrs.getId()));
addrs.setVlan(vlanId);
addrs.setIp(srcIpAddr);
addrs.setMac(srcMacAddr);

// addrs.setFirstSeen(new Date().getTime());
addrs.setLastSeen(new Date().getTime());
return addrs.build();
}
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.HostId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.HostNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.host.AttachmentPointsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yang.network.topology.rev131021.NetworkTopology;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yang.network.topology.rev131021.TopologyId;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class HostTrackerImpl implements DataChangeListener {

    private static final int CPUS = Runtime.getRuntime().availableProcessors();

    /**
     * As defined on
     */
    private static final String TOPOLOGY_NAME = "flow:1";

    private static final Logger log = LoggerFactory.getLogger(HostTrackerImpl.class);

    private final DataBroker dataService;
    private final String topologyId;

    ExecutorService exec = Executors.newFixedThreadPool(CPUS);

    private final ConcurrentHashMap<HostId, Host> hosts;
    private ListenerRegistration<DataChangeListener> addrsNodeListerRegistration;
    private ListenerRegistration<DataChangeListener> hostNodeListerRegistration;


public HostTrackerImpl(DataBroker dataService, String topologyId) {
    Preconditions.checkNotNull(dataService, "dataBrokerService should not be null.");
    this.dataService = dataService;
    if (topologyId == null || topologyId.isEmpty()) {
        this.topologyId = TOPOLOGY_NAME;
    } else {
        this.topologyId = topologyId;
    }
    this.hosts = new ConcurrentClusterAwareHostHashMap<>(dataService, this.topologyId);
}

public void registerAsDataChangeListener() {
    InstanceIdentifier<Addresses> addrCapableNodeConnectors = //
        InstanceIdentifier.builder(Nodes.class) //
            .child(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node.class) //
            .child(NodeConnector.class) //
            .augmentation(AddressCapableNodeConnector.class) //
            .child(Addresses.class).build();
    this.addrsNodeListerRegistration =
        dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, addrCapableNodeConnectors,
            this, DataChangeScope.SUBTREE);

    InstanceIdentifier<HostNode> hostNodes = InstanceIdentifier.builder(NetworkTopology.class) //
        .child(Topology.class, new TopologyKey(new TopologyId(topologyId))) //
        .child(Node.class) //
        .augmentation(HostNode.class).build();
    this.hostNodeListerRegistration =
        dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, hostNodes, this,
            DataChangeScope.SUBTREE);

    InstanceIdentifier<Link> lIID = InstanceIdentifier.builder(NetworkTopology.class) //
        .child(Topology.class, new TopologyKey(new TopologyId(topologyId))) //
        .child(Link.class).build();
    this.addrsNodeListerRegistration =
        dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, lIID, this,
            DataChangeScope.BASE);

    // Processing addresses that existed before we register as a data change listener.
    // TODO: ReadOnlyTransaction newReadOnlyTransaction = dataService.newReadOnlyTransaction();
    // InstanceIdentifier<NodeConnector> iinc =
    //     addrCapableNodeConnectors.firstIdentifierOf(NodeConnector.class);
    // InstanceIdentifier<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> iin =
    //     addrCapableNodeConnectors.firstIdentifierOf(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.
    //          nodes.Node.class);
    // ListenableFuture<Optional<NodeConnector>> dataFuture =
    //     newReadOnlyTransaction.read(LogicalDatastoreType.OPERATIONAL, iinc);
}
try {
    NodeConnector get = dataFuture.get().get();
    log.trace("test "+get);
} catch (InterruptedException | ExecutionException ex) {
    java.util.logging.Logger.getLogger(HostTrackerImpl.class.getName()).log(Level.SEVERE, null, ex);
}
Futures.addCallback(dataFuture, new FutureCallback<Optional<NodeConnector>>() {
    @Override
    public void onSuccess(final Optional<NodeConnector> result) {
        if (result.isPresent()) {
            log.trace("Processing NEW NODE? "+ result.get().getId().getValue());
            processHost(result, dataObject, node);
        }
    }
    @Override
    public void onFailure(Throwable arg0) {
    }
});

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> change) {
    exec.submit(new Runnable() {
        @Override
        public void run() {
            if (change == null) {
                log.info("In onDataChanged: No processing done as change even is null.");
                return;
            }
            Map<InstanceIdentifier<?>, DataObject> updatedData = change.getUpdatedData();
            Map<InstanceIdentifier<?>, DataObject> createdData = change.getCreatedData();
            Map<InstanceIdentifier<?>, DataObject> originalData = change.getOriginalData();
            Set<InstanceIdentifier<?>> deletedData = change.getRemovedPaths();
            for (InstanceIdentifier<?> iid : deletedData) {
                if (iid.getTargetType().equals(Node.class)) {
                    Node node = ((Node) originalData.get(iid));
                    InstanceIdentifier<Node> iiN = (InstanceIdentifier<Node>) iid;
                    HostNode hostNode = node.getAugmentation(HostNode.class);
                    if (hostNode != null) {
                        synchronized (hosts) {
                            try {
                                hosts.removeLocally(iiN);
                            } catch (ClassCastException ex) {
                            }
                        }
                    }
                }
            }
        }
    });
}

public void onDataChangeChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> change) {
    exec.submit(new Runnable() {
        @Override
        public void run() {
            if (change == null) {
                log.info("In onDataChangeChanged: No processing done as change even is null.");
                return;
            }
            Map<InstanceIdentifier<?>, DataObject> updatedData = change.getUpdatedData();
            Map<InstanceIdentifier<?>, DataObject> createdData = change.getCreatedData();
            Map<InstanceIdentifier<?>, DataObject> originalData = change.getOriginalData();
            Set<InstanceIdentifier<?>> deletedData = change.getRemovedPaths();
            for (InstanceIdentifier<?> iid : deletedData) {
                if (iid.getTargetType().equals(Node.class)) {
                    Node node = ((Node) originalData.get(iid));
                    InstanceIdentifier<Node> iiN = (InstanceIdentifier<Node>) iid;
                    HostNode hostNode = node.getAugmentation(HostNode.class);
                    if (hostNode != null) {
                        synchronized (hosts) {
                            try {
                                hosts.removeLocally(iiN);
                            } catch (ClassCastException ex) {
                            }
                        }
                    }
                }
            }
        }
    });
}
for (Map.Entry<InstanceIdentifier<?>, DataObject> entrySet : updatedData.entrySet()) {
    InstanceIdentifier<?> iiD = entrySet.getKey();
    final DataObject dataObject = entrySet.getValue();
    if (dataObject instanceof Addresses) {
        packetReceived((Addresses) dataObject, iiD);
    } else if (dataObject instanceof Node) {
        synchronized (hosts) {
            hosts.putLocally((InstanceIdentifier<Node>) iiD, Host.createHost((Node) dataObject));
        }
    }
}

for (Map.Entry<InstanceIdentifier<?>, DataObject> entrySet : createdData.entrySet()) {
    InstanceIdentifier<?> iiD = entrySet.getKey();
    final DataObject dataObject = entrySet.getValue();
    if (dataObject instanceof Addresses) {
        packetReceived((Addresses) dataObject, iiD);
    } else if (dataObject instanceof Node) {
        synchronized (hosts) {
            hosts.putLocally((InstanceIdentifier<Node>) iiD, Host.createHost((Node) dataObject));
        }
    }
}

public void packetReceived(Addresses addr, InstanceIdentifier<?> ii) {
    InstanceIdentifier<NodeConnector> iinc = ii.firstIdentifierOf(NodeConnector.class);
    InstanceIdentifier<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> iin =
    ii.firstIdentifierOf(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node.class);

    ListenableFuture<Optional<NodeConnector>> futureNodeConnector =
    ListenableFuture<Optional<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node>>
    futureNode;
    try (ReadOnlyTransaction readTx = dataService.newReadOnlyTransaction()) {
        futureNodeConnector = readTx.read(LogicalDatastoreType.OPERATIONAL, iinc);
        futureNode = readTx.read(LogicalDatastoreType.OPERATIONAL, iin);
        readTx.close();
    }
Optional<NodeConnector> opNodeConnector = null;
Optional<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> opNode = null;
try {
    opNodeConnector = futureNodeConnector.get();
    opNode = futureNode.get();
} catch (ExecutionException | InterruptedException ex) {
    log.warn(ex.getLocalizedMessage());
}
if (opNode != null & opNode.isPresent() & opNodeConnector != null & opNodeConnector.isPresent()) {
    processHost(opNode.get(), opNodeConnector.get(), addrs);
}
}

private void processHost(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node node,
    NodeConnector nodeConnector,
    Addresses addrs) {
    List<Host> hostsToMod = new ArrayList<>();
    List<Host> hostsToRem = new ArrayList<>();
    List<Link> linksToRem = new ArrayList<>();
    List<Link> linksToAdd = new ArrayList<>();
    synchronized (hosts) {
        log.trace("Processing nodeConnector " + nodeConnector.getId().toString());
        HostId hId = Host.createHostId(addrs);
        if (hId != null) {
            if (isNodeConnectorInternal(nodeConnector)) {
                log.trace("NodeConnector is internal " + nodeConnector.getId().toString());
                removeNodeConnectorFromHost(hostsToMod, hostsToRem, nodeConnector);
                hosts.removeAll(hostsToRem);
                hosts.putAll(hostsToMod);
            } else {
                log.trace("NodeConnector is NOT internal " + nodeConnector.getId().toString());
                Host host = new Host(addrs, nodeConnector);
                if (hosts.containsKey(host.getId())) {
                    hosts.get(host.getId()).mergeHostWith(host);
                } else {
                    hosts.put(host.getId(), host);
                }
                List<Link> newLinks = hosts.get(host.getId()).createLinks(node);
                if (newLinks != null) {
                    linksToAdd.addAll(newLinks);
                }
                hosts.submit(host.getId());
            }
        }
    }
    writeDatatoMDSAL(linksToAdd, linksToRem);
/**
 * It verifies if a given NodeConnector is *internal*. An *internal* NodeConnector is considered to be all NodeConnectors that are NOT attached to hosts created by hosttracker.
 *
 * @param nodeConnector the nodeConnector to check if it is internal or not.
 * @return true if it was found a host connected to this nodeConnector, false if it was not found a network topology or it was not found a host connected to this nodeConnector.
 */

private boolean isNodeConnectorInternal(NodeConnector nodeConnector) {

TpId tpId = new TpId(nodeConnector.getKey().getId().getValue());
InstanceIdentifier<NetworkTopology> ntII = InstanceIdentifier.builder(NetworkTopology.class).build();
ListenableFuture<Optional<NetworkTopology>> lfONT;
try (ReadOnlyTransaction rot = dataService.newReadOnlyTransaction()) {
    lfONT = rot.read(LogicalDatastoreType.OPERATIONAL, ntII);
    rot.close();
}
Optional<NetworkTopology> oNT;
try {
    oNT = lfONT.get();
} catch (InterruptedException | ExecutionException ex) {
    log.warn(ex.getLocalizedMessage());
    return false;
}
if (oNT != null && oNT.isPresent()) {
    NetworkTopology networkTopo = oNT.get();
    for (Topology t : networkTopo.getTopology()) {
        if (t.getLink() != null) {
            for (Link l : t.getLink()) {
                if ((l.getSource().getSourceTp().equals(tpId) && !l.getDestination().getDestTp().getValue().startsWith(Host.NODE_PREFIX)) ||
                        (l.getDestination().getDestTp().equals(tpId) && !l.getSource().getSourceTp().getValue().startsWith(Host.NODE_PREFIX))) {
                    return true;
                }
            }
        }
    }
}
return false;
}

private void removeLinksFromHosts(List<Host> hostsToMod, List<Host> hostsToRem, Link linkRemoved) {
    for (Host h : hosts.values()) {
        }
    }
}

private void removeLinksFromHosts(List<Host> hostsToMod, List<Host> hostsToRem, Link linkRemoved) {
    for (Host h : hosts.values()) {
        }
    }
}

private void removeNodeConnectorFromHost(List<Host> hostsToMod, List<Host> hostsToRem, NodeConnector nc) {
    AttachmentPointsBuilder atStD = Utilities.createAPsfromNodeConnector(nc);
    for (Host h : hosts.values()) {
        h.removeAttachmentPoints(atStD);
        if (h.isOrphan()) {
            hostsToRem.add(h);
        } else {
            hostsToMod.add(h);
        }
    }
}

private void linkRemoved(InstanceIdentifier<Link> iiLink, Link linkRemoved) {
    log.trace("linkRemoved");
    List<Host> hostsToMod = new ArrayList<>();
    List<Host> hostsToRem = new ArrayList<>();
    synchronized (hosts) {
        removeLinksFromHosts(hostsToMod, hostsToRem, linkRemoved);
        hosts.removeAll(hostsToRem);
        hosts.putAll(hostsToMod);
    }
}

private void writeDatatoMDSAL(List<Link> linksToAdd, List<Link> linksToRemove) {
    final WriteTransaction writeTx = dataService.newWriteOnlyTransaction();
    if (linksToAdd != null) {
        for (Link l : linksToAdd) {
            InstanceIdentifier<Link> IID = Utilities.buildLinkIID(l.getKey(), topologyId);
            log.trace("Writing link from MD_SAL: " + IID.toString());
            writeTx.merge(LogicalDatastoreType.OPERATIONAL, IID, l, true);
        }
    }
    if (linksToRemove != null) {
        for (Link l : linksToRemove) {
            InstanceIdentifier<Link> IID = Utilities.buildLinkIID(l.getKey(), topologyId);
            log.trace("Removing link from MD_SAL: " + IID.toString());
        }
    }
}
writeTx.delete(LogicalDatastoreType.OPERATIONAL, IID);

final CheckedFuture writeTxResultFuture = writeTx.submit();
Futures.addCallback(writeTxResultFuture, new FutureCallback() {
    @Override
    public void onSuccess(Object o) {
        log.debug("Hosttracker write successful for tx :{ }", writeTx.getIdentifier());
    }

    @Override
    public void onFailure(Throwable throwable) {
        log.error("Hosttracker write transaction { } failed", writeTx.getIdentifier(), throwable.getCause());
    }
});

public void close() {
    this.addrsNodeListerRegistration.close();
    this.hostNodeListerRegistration.close();
    synchronized (hosts) {
        this.hosts.clear();
    }
}

4.58 hosttracker-model 0.1.1-Helium-SR1
4.58.1 Available under license :
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4.59 ietf-inet-types 2010.09.24.4.1-Helium-SR1
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4.60 ietf-yang-types 2010.09.24.4.1-Helium-SR1

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4.61 inventory-manager 1.1.1-Helium-SR1

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```java
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 */

package org.opendaylight.controller.md.inventory.manager;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeConnector;
```

```java
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeConnector;
import ```
class NodeChangeCommiter implements OpendaylightInventoryListener {
    private static final Logger LOG = LoggerFactory.getLogger(NodeChangeCommiter.class);

    private final FlowCapableInventoryProvider manager;

    public NodeChangeCommiter(final FlowCapableInventoryProvider manager) {
        this.manager = Preconditions.checkNotNull(manager);
    }

    @Override
    public synchronized void onNodeConnectorRemoved(final NodeConnectorRemoved connector) {
        LOG.debug("Node connector removed notification received.");
        manager.enqueue(new InventoryOperation() {
            @Override
            public void applyOperation(final ReadWriteTransaction tx) {
                final NodeConnectorRef ref = connector.getNodeConnectorRef();
                LOG.debug("removing node connector {} ", ref.getValue());
                tx.delete(LogicalDatastoreType.OPERATIONAL, ref.getValue());
            }
        });
    }

    @Override
    public synchronized void onNodeConnectorUpdated(final NodeConnectorUpdated connector) {
        LOG.debug("Node connector updated notification received.");
        manager.enqueue(new InventoryOperation() {
            @Override
            public void applyOperation(final ReadWriteTransaction tx) {
                final NodeConnectorRef ref = connector.getNodeConnectorRef();
                LOG.debug("removing node connector {} ", ref.getValue());
                tx.delete(LogicalDatastoreType.OPERATIONAL, ref.getValue());
            }
        });
    }
}
@Override
public synchronized void onNodeRemoved(final NodeRemoved node) {
    LOG.debug("Node removed notification received.");
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final NodeRef ref = node.getNodeRef();
            // Further processing...
            tx.delete(LogicalDatastoreType.OPERATIONAL, ref.getValue());
        }
    });
}

@Override
public synchronized void onNodeUpdated(final NodeUpdated node) {
    final FlowCapableNodeUpdated flowNode = node.getAugmentation(FlowCapableNodeUpdated.class);
    if (flowNode == null) {
        return;
    }
    LOG.debug("Node updated notification received.");
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(ReadWriteTransaction tx) {
            final NodeRef ref = node.getNodeRef();
            // Further processing...
            tx.delete(LogicalDatastoreType.OPERATIONAL, ref.getValue());
        }
    });
}

@Override
public void applyOperation(final ReadWriteTransaction tx) {
    final NodeConnectorRef ref = connector.getNodeConnectorRef();
    final NodeConnectorBuilder data = new NodeConnectorBuilder(connector);
    data.setKey(new NodeConnectorKey(connector.getId()));
    final FlowCapableNodeConnectorUpdated flowConnector = connector.getAugmentation(FlowCapableNodeConnectorUpdated.class);
    if (flowConnector != null) {
        final FlowCapableNodeConnector augment = InventoryMapping.toInventoryAugment(flowConnector);
        data.addAugmentation(FlowCapableNodeConnector.class, augment);
    }
    InstanceIdentifier<NodeConnector> value = (InstanceIdentifier<NodeConnector>) ref.getValue();
    LOG.debug("updating node connector : {}.", value);
    NodeConnector build = data.build();
    tx.merge(LogicalDatastoreType.OPERATIONAL, value, build, true);
}

@SuppressWarnings("unchecked")
InstanceIdentifierBuilder<Node> builder = ((InstanceIdentifier<Node>) ref.getValue()).builder();
InstanceIdentifierBuilder<FlowCapableNode> augmentation =
    builder.augmentation(FlowCapableNode.class);
final InstanceIdentifier<FlowCapableNode> path = augmentation.build();
CheckedFuture readFuture = tx.read(LogicalDatastoreType.OPERATIONAL, path);
Futures.addCallback(readFuture, new FutureCallback<Optional<? extends DataObject>>() {
    @Override
    public void onSuccess(Optional<? extends DataObject> optional) {
        enqueueWriteNodeDataTx(node, flowNode, path);
        if (!optional.isPresent()) {
            enqueuePutTable0Tx(ref);
        }
    }
    @Override
    public void onFailure(Throwable throwable) {
        LOG.debug(String.format("Can't retrieve node data for node %s. Writing node data with table0.",
            node));
        enqueueWriteNodeDataTx(node, flowNode, path);
        enqueuePutTable0Tx(ref);
    }
});

private void enqueueWriteNodeDataTx(final NodeUpdated node, final FlowCapableNodeUpdated flowNode, final
InstanceIdentifier<FlowCapableNode> path) {
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final FlowCapableNode augment = InventoryMapping.toInventoryAugment(flowNode);
            LOG.debug("updating node :{} ", path);
            tx.merge(LogicalDatastoreType.OPERATIONAL, path, augment, true);
        }
    });
}

private void enqueuePutTable0Tx(final NodeRef ref) {
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(ReadWriteTransaction tx) {
            final TableKey tKey = new TableKey((short) 0);
            final InstanceIdentifier<Table> tableIdentifier =
            ((InstanceIdentifier<Node>) ref.getValue()).augmentation(FlowCapableNode.class).child(Table.class,
new TableKey(tKey));
            TableBuilder tableBuilder = new TableBuilder();
            Table table0 = tableBuilder.setId((short) 0).build();
            LOG.debug("writing table :{} ", tableIdentifier);
            tx.put(LogicalDatastoreType.OPERATIONAL, tableIdentifier, table0, true);
        }
    });
}
4.62 jQuery 1.9.1

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4.63 json3 3.2.4

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4.65 leveldbjni 1.7
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package org.fusesource.leveldbjni.internal;

import org.fusesource.hawtjni.runtime.*;

import static org.fusesource.hawtjni.runtime.ArgFlag.*;
import static org.fusesource.hawtjni.runtime.ClassFlag.CPP;
import static org.fusesource.hawtjni.runtime.ClassFlag.STRUCT;
import static org.fusesource.hawtjni.runtime.FieldFlag.CONSTANT;
import static org.fusesource.hawtjni.runtime.MethodFlag.CONSTANT_INITIALIZER;
import static org.fusesource.hawtjni.runtime.MethodFlag.CPP_DELETE;

/**
 * Provides a java interface to the C++ leveldb::Slice class.
 * @author <a href="http://hiramchirino.com">Hiram Chirino</a>
 */
@JniClass(name="leveldb::Slice", flags={STRUCT, CPP})
class NativeSlice {
  
  @JniClass(name="leveldb::Slice", flags={CPP})
  static class SliceJNI {
    static {
      NativeDB.LIBRARY.load();
      init();
    }
  }

  @JniMethod(flags={CPP_DELETE})
  public static final native void delete(
    long self
  );

  public static final native void memmove (
    @JniArg(cast="void *") long dest,
    @JniArg(cast="const void *", flags={NO_OUT, CRITICAL}) NativeSlice src,
    @JniArg(cast="size_t") long size);

  public static final native void memmove (
    @JniArg(cast="void *") long src,
    @JniArg(cast="const void *") long dest,
    @JniArg(cast="size_t") long size);

  @JniMethod(flags={CONSTANT_INITIALIZER})
  private static final native void init();
}
@JniField(flags={CONSTANT}, accessor="sizeof(struct leveldb::Slice)"
static int SIZEOF;

}@JniField(cast="const char*")
private long data_
@JniField(cast="size_t")
private long size_

public NativeSlice() {
}

public NativeSlice(long data, long length) {
    this.data_ = data;
    this.size_ = length;
}

public NativeSlice(NativeBuffer buffer) {
    this(buffer.pointer(), buffer.capacity());
}

public static NativeSlice create(NativeBuffer buffer) {
    if (buffer == null) {
        return null;
    } else {
        return new NativeSlice(buffer);
    }
}

public long data() {
    return data_
}

public NativeSlice data(long data) {
    this.data_ = data;
    return this;
}

public long size() {
    return size_
}

public NativeSlice size(long size) {
    this.size_ = size;
    return this;
}
public NativeSlice set(NativeSlice buffer) {
    this.size_ = buffer.size_;  
    this.data_ = buffer.data_;  
    return this;
}

public NativeSlice set(NativeBuffer buffer) {
    this.size_ = buffer.capacity();
    this.data_ = buffer.pointer();
    return this;
}

public byte[] toByteArray() {
    if (size_ > Integer.MAX_VALUE) {
        throw new ArrayIndexOutOfBoundsException("Native slice is larger than the maximum Java array");
    }
    byte[] rc = new byte[(int) size_];  
    NativeBuffer.NativeBufferJNI.buffer_copy(data_, 0, rc, 0, rc.length);
    return rc;
}

static NativeBuffer arrayCreate(int dimension) {
    return NativeBuffer.create(dimension*SliceJNI.SIZEOF);
}

void write(long buffer, int index) {
    SliceJNI.memmove(PointerMath.add(buffer, SliceJNI.SIZEOF*index), this, SliceJNI.SIZEOF);
}

void read(long buffer, int index) {
    SliceJNI.memmove(this, PointerMath.add(buffer, SliceJNI.SIZEOF*index), SliceJNI.SIZEOF);
}


4.66 leveldbjni-linux32 1.5

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4.68 leveldbjni-osx 1.5

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4.71 loader 0.1.1-Helium-SR1

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4.72 loader.implementation 0.1.1-Helium-SR1

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<module name="threadpool-impl-flexible"
 xmlns="urn:ietf:params:xml:ns:yang:yin:1"
 xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
</module>
```
<prefix value="th-java-flexible"/>
<import module="threadpool">
  <prefix value="th"/>
  <revision-date date="2013-04-09"/>
</import>
<import module="config">
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
  <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
  <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-flexible">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadpool"/>
  <config:java-name-prefix java-prefix="FlexibleThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-flexible">
    <when condition="/config:modules/config:module/config:type = 'threadpool-flexible'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <leaf name="minThreadCount">
      <type name="uint16"/>
    </leaf>
  </case>
</augment>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl"
 xmlns="urn:ietf:params:xml:ns:yang:yin:1"
 xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1"/>
<prefix value="th-java"/>
<import module="threadpool"/>
<prefix value="th"/>
<revision-date date="2013-04-09"/>
</import>
<import module="config"/>
<prefix value="config"/>
<revision-date date="2013-04-05"/>
</import>
<import module="rpc-context"/>
<prefix value="rpcx"/>
<revision-date date="2013-06-17"/>
</import>
<organization>
 <text>Cisco Systems, Inc.</text>
</organization>
<contact>
 <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
 <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
</description>

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<revision date="2013-04-05">
<description>
<text>Updated to work with new anchors.</text>
</description>
</revision>

<revision date="2013-04-03">
<description>
<text>Initial revision by Anton Tkacik, Tomas Olvecky and Robert Varga.</text>
</description>
</revision>

<identity name="eventbus">
<base name="config:module-type"/>
<config:provided-service name="th:eventbus"/>
<config:java-name-prefix java-prefix="EventBus"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
<case name="eventbus">
<when condition="/config:modules/config:module/config:type = 'eventbus'"/>
</case>
</augment>

<augment target-node="/config:modules/config:module/config:state">
<case name="eventbus">
<when condition="/config:modules/config:module/config:type = 'eventbus'"/>
<rpcx:rpc-context-instance context-type="event-bus-rpc"/>
</case>
</augment>

<identity name="event-bus-rpc"/>

<identity name="async-eventbus">
<base name="config:module-type"/>
<config:provided-service name="th:eventbus"/>
<config:java-name-prefix java-prefix="AsyncEventBus"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
<case name="async-eventbus">
<when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
<container name="threadpool">
<uses name="config:service-ref">
<refine target-node="type">
<config:required-identity name="th:threadpool"/>
</refine>
</uses>
</container>
</case>
</augment>
<augment target-node="/config:modules/config:module/config:state">
  <case name="async-eventbus">
    <when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
    <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
  </case>
</augment>

<rpc name="get-dead-events-count">
  <config:java-name-prefix java-prefix="countDeadEvents"/>
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
      </refine>
    </uses>
  </input>
  <output>
    <leaf name="result">
      <type name="uint32"/>
    </leaf>
  </output>
</rpc>

<identity name="threadfactory-naming">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadfactory"/>
  <config:java-name-prefix java-prefix="NamingThreadFactory"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadfactory-naming">
    <when condition="/config:modules/config:module/config:type = 'threadfactory-naming'"/>
    <leaf name="name-prefix">
      <type name="string"/>
    </leaf>
  </case>
</augment>

<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
<module name="threadpool-impl-scheduled" xmlns="urn:ietf:params:xml:ns:yang:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1.0" encoding="UTF-8"/>
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<config:required-identity name="th:threadfactory"/>

</refine>
</uses>
</container>
</case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="shutdown-impl"
xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:shutdown="urn:opendaylight:params:xml:ns:yang:controller:shutdown"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1"/>
<prefix value="shutdown-impl"/>
<import module="shutdown">
<prefix value="shutdown"/>
<revision-date date="2013-12-18"/>
</import>
<import module="config">
<prefix value="config"/>
<revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
<prefix value="rpcx"/>
<revision-date date="2013-06-17"/>
</import>
<organization>
<text>Cisco Systems, Inc.</text>
</organization>
<description>
<text>This module contains the base YANG definitions for shutdown implementation.</text>
</description>

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<description>
<revision date="2013-12-18">
<description>
<text>Initial revision.</text>
</description>
</revision>
<identity name="shutdown">
<case name="shutdown">
<when condition="/config:modules/config:module/config:type = 'shutdown'"/>
<leaf name="secret">
<type name="string"/>
<default value=""/>
</leaf>
</case>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
<case name="shutdown">
<when condition="/config:modules/config:module/config:type = 'shutdown'"/>
<leaf name="max-wait-time">
<type name="uint32"/>
<description>
Maximum time in milliseconds before process is forcibly exited. Zero or null cancels this functionality.
</description>
</leaf>
</case>
</augment>

<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-fixed"
xmlns="urn:ietf:params:xml:ns:yang:yin:1"
<yang-version value="1"/>
<import module="threadpool">
  <prefix value="th"/>
  <revision-date date="2013-04-09"/>
</import>
<import module="config">
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
  <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
  <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-fixed">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadpool"/>
  <config:java-name-prefix java-prefix="FixedThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-fixed">
    <when condition="/config:modules/config:module/config:type = 'threadpool-fixed'"/>
    <leaf name="max-thread-count">
      <text></text>
    </leaf>
  </case>
</augment>
4.73 Log4j 1.2.12

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4.74 Logging 1.1

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 */
package org.opendaylight.l2switch.loopremover.topology;

import com.google.common.base.Preconditions;
import edu.uci.ics.jung.algorithms.shortestpath.PrimMinimumSpanningTree;
import edu.uci.ics.jung.graph.DelegateTree;
import edu.uci.ics.jung.graph.Graph;
import edu.uci.ics.jung.graph.SparseMultigraph;
import edu.uci.ics.jung.graph.util.EdgeType;
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.NodeId;
Link;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

/**
 * Implementation of NetworkGraphService{ @link org.opendaylight.l2switch.loopremover.topology.NetworkGraphService }
 * It uses Jung graph library internally to maintain a graph and optimum way to return shortest path using
 * Dijkstra algorithm.
 */
public class NetworkGraphImpl implements NetworkGraphService {

    private static final Logger _logger = LoggerFactory.getLogger(NetworkGraphImpl.class);

    Graph<NodeId, Link> networkGraph = null;
    Set<String> linkAdded = new HashSet<>();
// Enable following lines when shortest path functionality is required.
// DijkstraShortestPath<NodeId, Link> shortestPath = null;

/**
 * Adds links to existing graph or creates new directed graph with given links if graph was not initialized.
 * @param links The links to add.
 */
@Override
public synchronized void addLinks(List<Link> links) {
    if (links == null || links.isEmpty()) {
        _logger.info("In addLinks: No link added as links is null or empty.");
        return;
    }

    if (networkGraph == null) {
        networkGraph = new SparseMultigraph<>();
    }

    for (Link link : links) {
        if (linkAlreadyAdded(link)) {
            continue;
        }
        NodeId sourceNodeId = link.getSource().getSourceNode();
        NodeId destinationNodeId = link.getDestination().getDestNode();
        networkGraph.addVertex(sourceNodeId);
        networkGraph.addVertex(destinationNodeId);
        networkGraph.addEdge(link, sourceNodeId, destinationNodeId, EdgeType.UNDIRECTED);
    }

    /*if (shortestPath == null) {
        shortestPath = new DijkstraShortestPath<>(networkGraph);
    } else {
        shortestPath.reset();
    }*/
}

private boolean linkAlreadyAdded(Link link) {
    String linkAddedKey = null;
    if (link.getDestination().getDestTp().hashCode() > link.getSource().getSourceTp().hashCode()) {
        linkAddedKey = link.getSource().getSourceTp().getValue() + link.getDestination().getDestTp().getValue();
    } else {
        linkAddedKey = link.getDestination().getDestTp().getValue() + link.getSource().getSourceTp().getValue();
    }
    if (linkAdded.contains(linkAddedKey)) {
        return true;
    } else {
        linkAdded.add(linkAddedKey);
    }
}
return false;
}
}

/**
 * Removes links from existing graph.
 * @param links The links to remove.
 */
@Override
public synchronized void removeLinks(List<Link> links) {
    Preconditions.checkNotNull(networkGraph, "Graph is not initialized, add links first.");

    if(links == null || links.isEmpty()) {
        _logger.info("In removeLinks: No link removed as links is null or empty.");
        return;
    }

    for(Link link : links) {
        networkGraph.removeEdge(link);
    }
/*if(shortestPath == null) {
    shortestPath = new DijkstraShortestPath<>(networkGraph);
} else {
    shortestPath.reset();
}*/
}

/**
 * returns a path between 2 nodes. Uses Dijkstra's algorithm to return shortest path.
 * @param sourceNodeId
 * @param destinationNodeId
 * @return
 */
//@Override
/*public synchronized List<Link> getPath(NodeId sourceNodeId, NodeId destinationNodeId) {
    Preconditions.checkNotNull(shortestPath, "Graph is not initialized, add links first.");

    if(sourceNodeId == null || destinationNodeId == null) {
        _logger.info("In getPath: returning null, as sourceNodeId or destinationNodeId is null.");
        return null;
    }

    return shortestPath.getPath(sourceNodeId, destinationNodeId);
}*/

/**
* Clears the prebuilt graph, in case same service instance is required to process a new graph.

```java
@Override
public synchronized void clear() {
    networkGraph = null;
    //shortestPath = null;
}
```

/**
 * Forms MST(minimum spanning tree) from network graph and returns links that are not in MST.
 *
 * @return The links in the MST (minimum spanning tree)
 */

```java
@Override
public synchronized List<Link> getLinksInMst() {
    List<Link> linksInMst = new ArrayList<>();
    if(networkGraph != null) {
        PrimMinimumSpanningTree<NodeId, Link> networkMst = new PrimMinimumSpanningTree<>(DelegateTree.<NodeId, Link>getFactory());
        Graph<NodeId, Link> mstGraph = networkMst.transform(networkGraph);
        Collection<Link> mstLinks = mstGraph.getEdges();
        linksInMst.addAll(mstLinks);
    }
    return linksInMst;
}
```

/**
 * Get all the links in the network.
 *
 * @return The links in the network.
 */

```java
@Override
public List<Link> getAllLinks() {
    List<Link> allLinks = new ArrayList<>();
    if(networkGraph != null) {
        allLinks.addAll(networkGraph.getEdges());
    }
    return allLinks;
}
```

### 4.77 loopremover-model 0.1.1-Helium-SR1

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4.78 main-config 0.1.1-Helium-SR1

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4.79 main-impl 0.1.1-Helium-SR1

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 */
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import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import org.opendaylight.l2switch.util.InstanceIdentifierUtils;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.Uri;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.yang.types.rev100924.MacAddress;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.action.OutputActionCaseBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.list.Action;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.list.ActionBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.AddFlowInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.AddFlowOutput;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowCookie;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowModFlags;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.InstructionsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Match;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.ApplyActionsCaseBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.apply.actions._case.ApplyActions;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.apply.actions._case.ApplyActionsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.list.Instruction;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.list.InstructionBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.ethernet.match.fields.EthernetDestinationBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.ethernet.match.fields.EthernetSourceBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.match.EthernetMatch;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.match.EthernetMatchBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.common.RpcResult;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.math.BigInteger;
import java.util.concurrent.Future;
import java.util.concurrent.atomic.AtomicLong;

/**
 * that builds required flow and writes to configuration data store using provided DataBrokerService
 * {@link org.opendaylight.controller.sal.binding.api.data.DataBrokerService}
 */
public class FlowWriterServiceImpl implements FlowWriterService {
    private static final Logger _logger = LoggerFactory.getLogger(FlowWriterServiceImpl.class);
    private SalFlowService salFlowService;
    private short flowTableId;
    private int flowPriority;
    private int flowIdleTimeout;
    private int flowHardTimeout;
    private AtomicLong flowIdInc = new AtomicLong();
    private AtomicLong flowCookieInc = new AtomicLong(0x2a00000000000000L);
    private final Integer DEFAULT_TABLE_ID = new Integer(0);
    private final Integer DEFAULT_PRIORITY = new Integer(10);
    private final Integer DEFAULT_HARD_TIMEOUT = new Integer(3600);
    private final Integer DEFAULT_IDLE_TIMEOUT = new Integer(1800);
public void setFlowHardTimeout(int flowHardTimeout) {
    this.flowHardTimeout = flowHardTimeout;
}

/**
 * Writes a flow that forwards packets to destPort if destination mac in packet is destMac and
 * source Mac in packet is sourceMac. If sourceMac is null then flow would not set any source mac,
 * resulting in all packets with destMac being forwarded to destPort.
 *
 * @param sourceMac
 * @param destMac
 * @param destNodeConnectorRef
 */
@Override
public void addMacToMacFlow(MacAddress sourceMac, MacAddress destMac, NodeConnectorRef
destNodeConnectorRef) {

    Preconditions.checkNotNull(destMac, "Destination mac address should not be null.");
    Preconditions.checkNotNull(destNodeConnectorRef, "Destination port should not be null.");

    // do not add flow if both macs are same.
    if(sourceMac != null && destMac.equals(sourceMac)) {
        _logger.info("In addMacToMacFlow: No flows added. Source and Destination mac are same.");
        return;
    }

    // get flow table key
    TableKey flowTableKey = new TableKey((short) flowTableId);

    //build a flow path based on node connector to program flow
    InstanceIdentifier<Flow> flowPath = buildFlowPath(destNodeConnectorRef, flowTableKey);

    // build a flow that target given mac id
    Flow flowBody = createMacToMacFlow(flowTableKey.getId(), flowPriority, sourceMac, destMac,
    destNodeConnectorRef);

    // commit the flow in config data
    writeFlowToConfigData(flowPath, flowBody);
}

/**
 * Writes mac-to-mac flow on all ports that are in the path between given source and destination ports.
 * It uses path provided by NetworkGraphService
 * @link org.opendaylight.controller.sample.l2switch.md.topology.NetworkGraphService } to find a links
 * @link org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology. Link}
public void addBidirectionalMacToMacFlows(MacAddress sourceMac,
        NodeConnectorRef sourceNodeConnectorRef,
        MacAddress destMac,
        NodeConnectorRef destNodeConnectorRef) {
    Preconditions.checkNotNull(sourceMac, "Source mac address should not be null.");
    Preconditions.checkNotNull(sourceNodeConnectorRef, "Source port should not be null.");
    Preconditions.checkNotNull(destMac, "Destination mac address should not be null.");
    Preconditions.checkNotNull(destNodeConnectorRef, "Destination port should not be null.");

    if(sourceNodeConnectorRef.equals(destNodeConnectorRef)) {
        _logger.info("In addMacToMacFlowsUsingShortestPath: No flows added. Source and Destination ports are same.");
        return;
    }

    // add destMac-To-sourceMac flow on source port
    addMacToMacFlow(destMac, sourceMac, sourceNodeConnectorRef);

    // add sourceMac-To-destMac flow on destination port
    addMacToMacFlow(sourceMac, destMac, destNodeConnectorRef);
}

/**
 * @param nodeConnectorRef
 * @return
 */
private InstanceIdentifier<Flow> buildFlowPath(NodeConnectorRef nodeConnectorRef, TableKey flowTableKey) {

    // generate unique flow key
    FlowId flowId = new FlowId(String.valueOf(flowIdInc.getAndIncrement()));
    FlowKey flowKey = new FlowKey(flowId);

    return InstanceIdentifierUtils.generateFlowInstanceIdentifier(nodeConnectorRef, flowTableKey, flowKey);
}
* @param sourceMac
* @param destMac
* @param destPort
* @return org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowBuilder
* builds flow that forwards all packets with destMac to given port
*/

private Flow createMacToMacFlow(Short tableId, int priority, MacAddress sourceMac, MacAddress destMac, NodeConnectorRef destPort) {

    // start building flow
    FlowBuilder macToMacFlow = new FlowBuilder() //
            .setTableId(tableId) //
            .setFlowName("mac2mac");

    // use its own hash code for id.
    macToMacFlow.setId(new FlowId(Long.toString(macToMacFlow.hashCode())));

    // create a match that has mac to mac ethernet match
    EthernetMatchBuilder ethernetMatchBuilder = new EthernetMatchBuilder() //
            .setEthernetDestination(new EthernetDestinationBuilder() //
                .setAddress(destMac) //
                .build());

    // set source in the match only if present
    if(sourceMac != null) {
        ethernetMatchBuilder.setEthernetSource(new EthernetSourceBuilder() //
            .setAddress(sourceMac) //
            .build());
    }

    EthernetMatch ethernetMatch = ethernetMatchBuilder.build();
    Match match = new MatchBuilder() //
            .setEthernetMatch(ethernetMatch) //
            .build();

    Uri destPortUri = destPort.getValue().firstKeyOf(NodeConnector.class, NodeConnectorKey.class).getId();

    Action outputToControllerAction = new ActionBuilder() //
            .setOrder(0) //
            .setAction(new OutputActionCaseBuilder() //
                .setOutputAction(new OutputActionBuilder() //
                    .setMaxLength(new Integer(0xffff)) //
                    .setOutputNodeConnector(destPortUri) //
                    .build()) //
                .build()); //

    // Create an Apply Action
ApplyActions applyActions = new
ApplyActionsBuilder().setAction(ImmutableList.of(outputToControllerAction))
   .build();

// Wrap our Apply Action in an Instruction
Instruction applyActionsInstruction = new InstructionBuilder() //
   .setOrder(0)
   .setInstruction(new ApplyActionsCaseBuilder()//
     .setApplyActions(applyActions) //
     .build()) //
   .build();

// Put our Instruction in a list of Instructions
macToMacFlow
   .setMatch(match) //
   .setInstructions(new InstructionsBuilder() //
     .setInstruction(ImmutableList.of(applyActionsInstruction)) //
     .build()) //
   .setPriority(priority) //
   .setBufferId(0L) //
   .setHardTimeout(flowHardTimeout) //
   .setIdleTimeout(flowIdleTimeout) //
   .setCookie(new FlowCookie(BigInteger.valueOf(flowCookieInc.getAndIncrement())))
   .setFlags(new FlowModFlags(false, false, false, false, false));

return macToMacFlow.build();
}
/**
 * Starts and commits data change transaction which
 * modifies provided flow path with supplied body.
 *
 * @param flowPath
 * @param flow
 * @return transaction commit
 */
private Future<RpcResult<AddFlowOutput>> writeFlowToConfigData(InstanceIdentifier<Flow> flowPath, 
              Flow flow) {
    final InstanceIdentifier<Table> tableInstanceId = flowPath.<Table>firstIdentifierOf(Table.class);
    final InstanceIdentifier<Node> nodeInstanceId = flowPath.<Node>firstIdentifierOf(Node.class);
    final AddFlowInputBuilder builder = new AddFlowInputBuilder(flow);
    builder.setNode(new NodeRef(nodeInstanceId));
    builder.setFlowRef(new FlowRef(flowPath));
    builder.setFlowTable(new FlowTableRef(tableInstanceId));
    builder.setTransactionUri(new Uri(flow.getId().getValue()));
    return salFlowService.addFlow(builder.build());
}
4.80 Maven Aether Provider 3.0.4

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4.96 MD-SAL to AD-SAL Adaptation 1.1.1-
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 */
package org.opendaylight.controller.sal.compatibility.topology;

import static org.opendaylight.controller.sal.compatibility.topology.TopologyMapping.toAdEdge;
import static org.opendaylight.controller.sal.compatibility.topology.TopologyMapping.toTopoEdgeUpdate;
import java.util.Map.Entry;
import java.util.concurrent.CopyOnWriteArrayList;
import org.opendaylight.controller.md.sal.binding.util.TypeSafeDataReader;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;

import static org.opendaylight.controller.sal.compatibility.topology.TopologyMapping.toAdEdge;
import static org.opendaylight.controller.sal.compatibility.topology.TopologyMapping.toTopoEdgeUpdate;
import java.util.Map.Entry;
import java.util.concurrent.CopyOnWriteArrayList;
import org.opendaylight.controller.md.sal.binding.util.TypeSafeDataReader;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
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import org.opendaylight.controller.sal.binding.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.UpdateType;
import org.opendaylight.controller.sal.topology.IPluginOutTopologyService;
import org.opendaylight.controller.sal.topology.TopoEdgeUpdate;
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.TopologyId;
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import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology.Link;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class TopologyCommitHandler implements DataChangeListener {
    private static final Logger LOG = LoggerFactory.getLogger(TopologyCommitHandler.class);
    private IPluginOutTopologyService topologyPublisher;
    private final DataProviderService dataService;

    public TopologyCommitHandler(final DataProviderService dataService, final IPluginOutTopologyService topologyPub) {
        this.topologyPublisher = topologyPub;
        this.dataService = dataService;
    }

    @Override
    public void onDataChanged(final DataChangeEvent<InstanceIdentifier<?>, DataObject> modification) {
        CopyOnWriteArrayList<TopoEdgeUpdate> msg = new CopyOnWriteArrayList<TopoEdgeUpdate>();
        try {
            TypeSafeDataReader reader = TypeSafeDataReader.forReader(dataService);
            InstanceIdentifier<Topology> topologyPath = InstanceIdentifier.builder(NetworkTopology.class)
                    .child(Topology.class, new TopologyKey(new TopologyId("flow:1"))).build();
            Topology topology = reader.readOperationalData(topologyPath);
            for (Entry<InstanceIdentifier<? extends DataObject>, DataObject> entry : modification
                    .getCreatedOperationalData().entrySet()) {
                if (entry.getValue() instanceof Link && modification.getCreatedOperationalData().containsKey(entry.getKey())) {
                    msg.add(toTopoEdgeUpdate(toAdEdge((Link) entry.getValue(), topology), UpdateType.ADDED,
                }
            }
        }
    }
}

for (Entry<InstanceIdentifier<? extends DataObject>, DataObject> entry : modification.getUpdatedOperationalData().entrySet()) {
    if (entry.getValue() instanceof Link) {
        msg.add(toTopoEdgeUpdate(toAdEdge((Link) entry.getValue(), topology), UpdateType.CHANGED, reader));
    }
}

for (InstanceIdentifier<? extends DataObject> path : modification.getRemovedOperationalData()) {
    if (path.getTargetType() == Link.class) {
        Link link = (Link) modification.getOriginalOperationalData().get(path);
        msg.add(toTopoEdgeUpdate(toAdEdge(link, topology), UpdateType.REMOVED, reader));
    }
}

if (topologyPublisher != null && msg != null && !msg.isEmpty()) {
    topologyPublisher.edgeUpdate(msg);
}

} catch (Exception e) {
    LOG.error("Exception caught", e);
}

protected IPluginOutTopologyService getTopologyPublisher() {
    return topologyPublisher;
}

protected void setTopologyPublisher(final IPluginOutTopologyService topologyPublisher) {
    this.topologyPublisher = topologyPublisher;
}


4.97 model-flow-base 1.1.1-Helium-SR1

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# ng-grid : An Angular DataGrid


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4.106 Openflow Protocol Library - API 0.5.1-Helium-SR1

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4.107 Openflow Protocol Library - IMPL 0.5.1-Helium-SR1
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4.108 Openflow Protocol Library - SPI 0.5.1- Helium-SR1

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4.109 openflowjava-extension-nicira 0.0.4-Helium-SR1

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4.110 openflowjava-extension-nicira-api 0.0.4-Helium-SR1

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4.115 openflowplugin-extension-nicira 0.0.4-Helium-SR1

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 */
package org.ops4j.pax.exam.options.extra;

import static org.ops4j.lang.Nullable.validateNotEmpty;

/**
 * { @link RepositoryOption} implementation.
 *
 * @author Toni Menzel (tonit)
 * @author Alin Dreghiciu (adreghiciu@gmail.com)
 * @since 0.3.0, December 19, 2008
 */
public class RepositoryOptionImpl implements RepositoryOption {
/**
 * Repository url (cannot be null or empty).
 */
private final String repositoryUrl;

/**
 * Marks repository as allowing snapshots.
 */
private boolean allowSnapshots;

/**
 * Marks repository as allowing releases.
 */
private boolean allowReleases;

/**
 * Defines repository identifier to be referenced in Maven settings.
 */
private String id;

/**
 * Constructor.
 *
 * @param repositoryUrl repository url (cannot be null or empty)
 *
 * @throws IllegalArgumentException - If repository url is null or empty
 */
public RepositoryOptionImpl(final String repositoryUrl) {
    validateNotEmpty(repositoryUrl, "Repository URL");
    this.repositoryUrl = repositoryUrl;
    allowSnapshots = false;
    allowReleases = true;
}

public RepositoryOptionImpl allowSnapshots() {
    allowSnapshots = true;
    return this;
}

public RepositoryOptionImpl disableReleases() {
    allowReleases = false;
    return this;
}

public RepositoryOption id(String _id) {
    this.id = _id;
    return this;
}
/**
 * Returns the full repository url.
 *
 * @return the full repository as given plus eventual snapshot/release tags (cannot be null or
 * empty)
 *
 * @throws IllegalStateException
 * - if both snapshots and releases are not allowed
 */

public String getRepository() {
    if (!allowReleases && !allowSnapshots) {
        throw new IllegalStateException(
                "Does not make sense to disallow both releases and snapshots.");
    }
    final StringBuilder url = new StringBuilder();
    url.append(this.repositoryUrl);
    if (allowSnapshots) {
        url.append("@snapshots");
    }
    if (!allowReleases) {
        url.append("@noreleases");
    }
    if (id != null) {
        url.append("@id=");
        url.append(id);
    }
    return url.toString();
}

/**
 * {@inheritDoc}
 */

@Override
public String toString() {
    final StringBuilder sb = new StringBuilder();
    sb.append("RepositoryOptionImpl");
    sb.append('{url=').append(getRepository());
    sb.append('}');
    return sb.toString();
}

public String getValue() {
    return getRepository();
}
}
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 */`

package org.ops4j.pax.exam.spi.intern;

import static org.ops4j.pax.exam.Constants.PROBE_EXECUTABLE;
import static org.ops4j.pax.tinybundles.core.TinyBundles.bundle;
import static org.ops4j.pax.tinybundles.core.TinyBundles.withClassicBuilder;

import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import java.lang.reflect.Method;
import java.net.URL;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Properties;
import java.util.Set;
import org.ops4j.pax.exam.TestAddress;
import org.ops4j.pax.exam.TestContainerException;
import org.ops4j.pax.exam.TestInstantiationInstruction;
import org.ops4j.pax.exam.TestProbeBuilder;
import org.ops4j.pax.exam.TestProbeProvider;
import org.ops4j.pax.exam.spi.ContentCollector;
import org.ops4j.pax.tinybundles.core.TinyBundle;
import org.ops4j.store.Store;
import org.osgi.framework.Constants;

/**
 * Default implementation allows you to dynamically create a probe from current classpath.
 *
 * @author Toni Menzel
 * @since Dec 2, 2009
 */

public class TestProbeBuilderImpl implements TestProbeBuilder {

    private static final String DEFAULT_PROBE_METHOD_NAME = "probe";

    private final Map<TestAddress, TestInstantiationInstruction> probeCalls = new LinkedHashMap<TestAddress,
TestInstantiationInstruction>();
    private final List<Class<?>> anchors;
    private final Properties extraProperties;
    private final Set<String> ignorePackages = new HashSet<String>();
    private final Store<InputStream> store;

    public TestProbeBuilderImpl(Store<InputStream> store) throws IOException {
        anchors = new ArrayList<Class<?>>();
        this.store = store;
        extraProperties = new Properties();
    }

    public TestAddress addTest(Class<?> clazz, String methodName, Object... args) {
        TestAddress address = new DefaultTestAddress(clazz.getName() + "." + methodName);
        probeCalls.put(address, new TestInstantiationInstruction(clazz.getName() + ";" + methodName));
        addAnchor(clazz);
        return address;
    }

    public TestAddress addTest(Class<?> clazz, Object... args) {
        return addTest(clazz, DEFAULT_PROBE_METHOD_NAME, args);
    }

    public List<TestAddress> addTests(Class<?> clazz, Method... methods) {
        List<TestAddress> list = new ArrayList<TestAddress>();
        for (Method method : methods) {
            list.add(addTest(clazz, method.getName()));
        }
        return list;
    }
}
public TestProbeBuilder addAnchor(Class<?> clazz) {
    anchors.add(clazz);
    return this;
}

public TestProbeBuilder setHeader(String key, String value) {
    extraProperties.put(key, value);
    return this;
}

// when your testclass contains clutter in non-test methods,
// bnd generates too many imports.
// This makes packages optional.
public TestProbeBuilder ignorePackageOf(Class<?>... classes) {
    for (Class<?> c : classes) {
        ignorePackages.add(c.getPackage().getName());
    }
    return this;
}

public TestProbeProvider build() {
    if (anchors.size() == 0) {
        throw new TestContainerException("No tests added to setup!");
    }

    constructProbeTag(extraProperties);
    try {
        TinyBundle bundle = prepareProbeBundle(createExtraIgnores());
        return new DefaultTestProbeProvider(getTests(), store, store.store(bundle .build(withClassicBuilder())));
    }
    catch (IOException e) {
        throw new TestContainerException(e);
    }
}

private TinyBundle prepareProbeBundle(Properties p) throws IOException {
    TinyBundle bundle = bundle(store).set(Variables.DYNAMICIMPORT_PACKAGE, "*");
    bundle.set(Variables.BUNDLE_SYMBOLICNAME, "");
    bundle.set(Variables.BUNDLE_MANIFESTVERSION, "2");
    for (Object key : extraProperties.keySet()) {
        bundle.set((String) key, (String) extraProperties.get(key));
    }
}
for (Object key : p.keySet()) {
    bundle.set((String) key, (String) p.get(key));
}

Map<String, URL> map = collectResources();
for (String item : map.keySet()) {
    bundle.add(item, map.get(item));
}
return bundle;

private Map<String, URL> collectResources() throws IOException {
    ContentCollector collector = selectCollector();
    Map<String, URL> map = new HashMap<String, URL>();
collector.collect(map);
return map;
}

static String convertClassToPath(Class<?> c) {
    return c.getName().replace(".", File.separator) + ".class";
}

/**
 * @param clazz
 * to find the root classes folder for.
 *
 * @return A File instance being the exact folder on disk or null, if it hasn't been found.
 *
 * @throws java.io.IOException
 * if a problem occurs (method crawls folders on disk..)
 */
public static File findClassesFolder(Class<?> clazz) throws IOException {
    ClassLoader classLoader = clazz.getClassLoader();
    String clazzPath = convertClassToPath(clazz);
    URL url = classLoader.getResource(clazzPath);
    if (url == null || !"file".equals(url.getProtocol())) {
        return null;
    } else {
        try {
            File file = new File(url.toURI());
            String fullPath = file.getCanonicalPath();
            String parentDirPath = fullPath
                .substring(0, fullPath.length() - clazzPath.length());
            return new File(parentDirPath);
        }
        catch (URISyntaxException e) {
            // this should not happen as the uri was obtained from getResource
        }
    }
}
throw new TestContainerException(e);
}
}

private ContentCollector selectCollector() throws IOException {
    File root = findClassesFolder(anchors.get(0));

    if (root != null) {
        return new CompositeCollector(new CollectFromBase(root), new CollectFromItems(anchors));
    } else {
        return new CollectFromItems(anchors);
    }
}

public Set<TestAddress> getTests() {
    return probeCalls.keySet();
}

private Properties createExtraIgnores() {
    Properties properties = new Properties();
    StringBuilder sb = new StringBuilder();
    for (String p : ignorePackages) {
        if (sb.length() > 0) {
            sb.append(", ");
        } sb.append(p);
    } properties.put("Ignore-Package", sb.toString());
    return properties;
}

private void constructProbeTag(Properties p) {
    // construct out of added Tests
    StringBuilder sbKeyChain = new StringBuilder();
    for (TestAddress address : probeCalls.keySet()) {
        sbKeyChain.append(address.identifier());
        sbKeyChain.append(", ");
        p.put(address.identifier(), probeCalls.get(address).toString());
    } p.put(PROBE_EXECUTABLE, sbKeyChain.toString());
}

/*
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 */
import java.io.IOException;
import java.io.OutputStream;
import java.util.HashSet;
import java.util.Set;
import java.util.jar.JarOutputStream;
import java.util.jar.Manifest;
import java.util.zip.ZipEntry;

/**
 * This is a more convenient JarOutputStream that imitates any writing of duplicate entries. If someone
 * tries to do so, it just does not write anything. Be aware that this could be a source of trouble
 * - but it simplifies merging jars with first come first serve policy.
 * <p/>
 * Implementation note: some silly class init starvation prevents constructor initialization of
 * entrynames..
 * 
 * @author Toni Menzel (tonit)
 * @since May 29, 2008
 */
public class DuplicateAwareJarOutputStream extends JarOutputStream {

    private Set<String> entrynames;
    private boolean writable;

    public DuplicateAwareJarOutputStream(OutputStream outputStream, Manifest manifest) throws IOException {
        super(outputStream, manifest);
    }

    public DuplicateAwareJarOutputStream(OutputStream outputStream) throws IOException {
        super(outputStream);
    }

    public DuplicateAwareJarOutputStream(OutputStream outputStream, Manifest manifest) throws IOException {
        super(outputStream, manifest);
    }

    public DuplicateAwareJarOutputStream(OutputStream outputStream) throws IOException {
        super(outputStream);
    }
public void write(int i) throws IOException {
    if (writable) {
        super.write(i);
    }
}

public synchronized void write(byte[] bytes, int i, int i1) throws IOException {
    if (writable) {
        super.write(bytes, i, i1);
    }
}

public void write(byte[] bytes) throws IOException {
    if (writable) {
        super.write(bytes);
    }
}

public void putNextEntry(ZipEntry zipEntry) throws IOException {
    if (entrynames == null) {
        entrynames = new HashSet<String>();
    }

    if (entrynames.add(zipEntry.getName())) {
        super.putNextEntry(zipEntry);
        writable = true;
    } else {
        writable = false;
    }
}

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 */
package org.ops4j.pax.exam.spi.war;

import java.lang.reflect.Method;
import java.net.URI;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import org.ops4j.pax.exam.TestAddress;
import org.ops4j.pax.exam.TestInstantiationInstruction;
import org.ops4j.pax.exam.TestProbeBuilder;
import org.ops4j.pax.exam.TestProbeProvider;
import org.ops4j.pax.exam.options.WarProbeOption;
import org.ops4j.pax.exam.spi.intern.DefaultTestAddress;

/**
 * Builds a WAR probe.
 */

public class WarTestProbeBuilderImpl implements TestProbeBuilder {

    private WarProbeOption option;
    private final Map<TestAddress, TestInstantiationInstruction> probeCalls = new HashMap<TestAddress,
    TestInstantiationInstruction>();

    public WarTestProbeBuilderImpl() {
        this(new WarProbeOption().classPathDefaultExcludes());
    }

    public WarTestProbeBuilderImpl(WarProbeOption option) {
        this.option = option;
    }

    @Override
    public TestAddress addTest(Class<?> clazz, String methodName, Object... args) {
        TestAddress address = new DefaultTestAddress(clazz.getSimpleName() + "." + methodName, args);
        probeCalls.put(address, new TestInstantiationInstruction(clazz.getName() + ";" + methodName));
        return address;
    }

    @Override
    public TestAddress addTest(Class<?> clazz, Object... args) {
        throw new UnsupportedOperationException();
    }
}
@Override
public List<TestAddress> addTests(Class<?> clazz, Method... m) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeBuilder setHeader(String key, String value) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeBuilder ignorePackageOf(Class<?>... classes) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeProvider build() {
    WarBuilder warBuilder = new WarBuilder(option);
    URI warUri = warBuilder.buildWar();
    return new WarTestProbeProvider(warUri, getTests());
}

public Set<TestAddress> getTests() {
    return probeCalls.keySet();
}

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* Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
*******************************************************************************/

package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;
import org.codehaus.plexus.component.annotations.Component;

/**
 * Partial runtime implementation of Plexus @{@link Component} annotation, supporting the most common
 * attributes.
 */
class ComponentImpl
  implements Component
{
  // ----------------------------------------------------------------------
  // Constants
  // ----------------------------------------------------------------------

  // computed hashCode representing hard-coded attributes
  private static final int HASH_CODE_OFFSET = 0x685499F5;

  // ----------------------------------------------------------------------
  // Implementation fields
  // ----------------------------------------------------------------------

  private final Class<?> role;
  private final String hint;
  private final String instantiationStrategy;
  private final String description;

  // ----------------------------------------------------------------------
  // Constructors
  // ----------------------------------------------------------------------

  ComponentImpl( final Class<?> role, final String hint, final String instantiationStrategy, final String description )
if ( null == role || null == hint || null == instantiationStrategy || null == description )
{
    throw new IllegalArgumentException( "@Component cannot contain null values" );
}

this.role = role;
this.hint = hint;
this.instantiationStrategy = instantiationStrategy;
this.description = description;
}

// Annotation properties
// ----------------------------------------------------------------------

public Class<?> role()
{
    return role;
}

public String hint()
{
    return hint;
}

public String instantiationStrategy()
{
    return instantiationStrategy;
}

public String description()
{
    return description;
}

public boolean isolatedRealm()
{
    return false;
}

public String alias()
{
    return "":
}

public String composer()
public String configurator()
{
    return "";
}

public String factory()
{
    return "";
}

public String lifecycleHandler()
{
    return "";
}

public String profile()
{
    return "";
}

public String type()
{
    return "";
}

public String version()
{
    return "";
}

// Standard annotation behaviour
// ----------------------------------------------------------------------

@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Component )
    {
        final Component cmp = (Component) rhs;
    }
}
if ( role.equals( cmp.role() ) && hint.equals( cmp.hint() )
    && instantiationStrategy.equals( cmp.instantiationStrategy() )
    && description.equals( cmp.description() ) )
{
    // optimization: we hard-code all these attributes to be empty
    final String hardCodedAttributes =
        cmp.alias() + cmp.composer() + cmp.configurator() + cmp.factory() + cmp.lifecycleHandler()
            + cmp.profile() + cmp.type() + cmp.version();

    return hardCodedAttributes.length() == 0 && !cmp.isolatedRealm();
}

return false;

@Override
public int hashCode()
{
    return HASH_CODE_OFFSET + ( 127 * "role".hashCode() ^ role.hashCode() )
        + ( 127 * "hint".hashCode() ^ hint.hashCode() )
        + ( 127 * "instantiationStrategy".hashCode() ^ instantiationStrategy.hashCode() )
        + ( 127 * "description".hashCode() ^ description.hashCode() );
}

@Override
public String toString()
{
    return String.format( "@%s(isolatedRealm=false, composer=, configurator=, alias=, description=%s, "
        + "instantiationStrategy=%s, factory=, hint=%s, type=, lifecycleHandler=, version=, "
        + "profile=, role=%s)", Component.class.getName(), description, instantiationStrategy, hint, role );
}

public Class<? extends Annotation> annotationType()
{
    return Component.class;
}

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*    Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;

import org.codehaus.plexus.component.annotations.Configuration;

/**
 * Runtime implementation of Plexus @Configuration annotation.
 */
final class ConfigurationImpl
    implements Configuration {
// Implementation fields
// ----------------------------------------------------------------------

    private final String name;

    private final String value;

    // ----------------------------------------------------------------------
    // Constructors
    // ----------------------------------------------------------------------

    ConfigurationImpl( final String name, final String value )
    {
        if ( null == name || null == value )
        {
            throw new IllegalArgumentException( "@Configuration cannot contain null values" );
        }
        this.name = name;
        this.value = value;
    }

    // ----------------------------------------------------------------------
    // Annotation properties
    // ----------------------------------------------------------------------

    public String name()
    {
        return name;
    }

    public String value()
    {
        return value;
    }
@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Configuration )
    {
        final Configuration conf = (Configuration) rhs;

        return name.equals( conf.name() ) && value.equals( conf.value() );
    }

    return false;
}

@Override
public int hashCode()
{
    return ( 127 * "name".hashCode() ^ name.hashCode() ) + ( 127 * "value".hashCode() ^ value.hashCode() );
}

@Override
public String toString()
{
    return String.format( "%@%s(name=%s, value=%s)", Configuration.class.getName(), name, value );
}

public Class<? extends Annotation> annotationType()
{
    return Configuration.class;
}

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package org.eclipse.sisu.plexus;

import java.util.Map.Entry;
import com.google.inject.TypeLiteral;
import com.google.inject.name.Named;

/**
 * {@link Entry} representing a missing {@link Named} Plexus bean.
 */
final class MissingPlexusBean<T> implements PlexusBean<T> {
  private final TypeLiteral<T> role;
  private final String hint;

  MissingPlexusBean( final TypeLiteral<T> role, final String hint ) {
    this.role = role;
    this.hint = hint;
  }

  public String getKey() {
    return hint;
  }

  public T getValue() {
    return Roles.throwMissingComponentException( role, hint );
  }
}
public T setValue( final T value )
{
    throw new UnsupportedOperationException();
}

public String getDescription()
{
    return null;
}

public Class<T> getImplementationClass()
{
    return null;
}

@Override
public String toString()
{
    return getKey() + "=\textless\missing\textgreater";
}

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*******************************************************************************
package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;
import java.util.Arrays;
import java.util.List;
import org.codehaus.plexus.component.annotations.Requirement;
import org.eclipse.sisu.inject.DeferredClass;
import org.eclipse.sisu.space.LoadedClass;

/**
 * Runtime implementation of Plexus @\{ \@link Requirement \} annotation.
 */
final class RequirementImpl
    implements Requirement
{
    // --------------------------------------------------------------------------------

private final DeferredClass<?> role;

private final boolean optional;

private final String hint;

private final String[] hints;

RequirementImpl( final DeferredClass<?> role, final boolean optional, final List<String> hints )
{
    if ( null == role || null == hints || hints.contains( null ) )
    {
        throw new IllegalArgumentException( "@Requirement cannot contain null values" );
    }

    this.role = role;
    this.optional = optional;

    final int length = hints.size();
    if ( length == 0 )
    {
        hint = "";
        this.hints = Hints.NO_HINTS;
    }
    else if ( length == 1 )
    {
        hint = hints.get( 0 );
        this.hints = Hints.NO_HINTS;
    }
    else
    {
        hint = "";
        this.hints = hints.toArray( new String[length] );
    }
}

/**
 * For testing purposes only.
 */
@Deprecated
public RequirementImpl( final Class<?> role, final boolean optional, final String... hints )
this( new LoadedClass<Object>( role ), optional, ArrayList( hints ) );

// Annotation properties

public Class<?> role()
{
    return role.load();
}

public boolean optional()
{
    return optional;
}

public String hint()
{
    return hint;
}

public String[] hints()
{
    return hints.clone();
}

// Standard annotation behaviour

@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }
    if ( rhs instanceof Requirement )
    {
        final Requirement req = (Requirement) rhs;
        return role().equals( req.role() ) && optional == req.optional() && hint.equals( req.hint() )
        && Arrays.equals( hints, req.hints() );
    }
    return false;
}
return false;
}

@Override
public int hashCode()
{
    return ( 127 * "role".hashCode() ^ role().hashCode() )
    + ( 127 * "optional".hashCode() ^ Boolean.valueOf( optional ).hashCode() )
    + ( 127 * "hint".hashCode() ^ hint.hashCode() ) + ( 127 * "hints".hashCode() ^ Arrays.hashCode( hints ) );
}

@Override
public String toString()
{
    return String.format( "@%s(hints=%s, optional=%b, role=%s, hint=%s)", Requirement.class.getName(),
            Arrays.toString( hints ), Boolean.valueOf( optional ), role(), hint );
}

public Class<? extends Annotation> annotationType()
{
    return Requirement.class;
}

4.130 org.osgi.compendium 4.2.0
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package org.osgi.application;

import java.util.Dictionary;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;

/**
 * ApplicationContext is the access point for an OSGi-aware application
 * to the features of the OSGi Service Platform. Each application instance will
 * have its own @ApplicationContext instance, which will not be reused
 * after destroying the corresponding application instance.
 * <p>
 * Application instances can obtain their @ApplicationContext using the
 * @link Framework#getApplicationContext(Object) method.
 * <p>
 * The lifecycle of an @ApplicationContext instance is bound to the
 * lifecycle of the corresponding application instance. The
 * @ApplicationContext becomes available when the application is started
 * and it is invalidated when the application instance is stopped (i.e. the
 * "stop" method of the application activator object returned). All method calls
 * (except @link #getApplicationId() and @link #getInstanceId()) to an
 * invalidated context object result an @IllegalArgumentException.
 *
 * @see org.osgi.application.Framework
 *
 * @author $Id: 51dddaaad80155f9c3b38fe6d6211a466447d4a $
 */
public interface ApplicationContext {

/**
 * Adds the specified {link ApplicationServiceListener} object to this
 * context application instance's list of listeners. The specified
 * {code referenceName} is a reference name specified in the descriptor of
 * the corresponding application. The registered {code listener} will only
 * receive the {link ApplicationServiceEvent}s related to the referred
 * service.
 * <p>
 * If the {code listener} was already added, calling this method will
 * overwrite the previous registration.
 * <p>
 * @param listener The
 *        {link org.osgi.application.ApplicationServiceListener} to be
 *        added. It must not be {code null}
 * @param referenceName the reference name of a service from the descriptor
 *        of the corresponding application. It must not be {code null}.
 * @throws java.lang.IllegalStateException If this context application
 *         instance has stopped.
 * @throws java.lang.NullPointerException If {code listener} or
 *         {code referenceName} is {code null}
 * @throws java.lang.IllegalArgumentException If there is no service in the
 *         application descriptor with the specified {code referenceName}.
 */
public void addServiceListener(ApplicationServiceListener listener, String referenceName) throws
java.lang.IllegalArgumentException;

/**
 * Adds the specified {link ApplicationServiceListener} object to this
 * context application instance's list of listeners. The
 * {code referenceNames} parameter is an array of reference name specified
 * in the descriptor of the corresponding application. The registered
 * {code listener} will only receive the {link ApplicationServiceEvent}s
 * related to the referred services.
 * <p>
 * If the {code listener} was already added, calling this method will
 * overwrite the previous registration.
 * <p>
 * @param listener The
 *        {link org.osgi.application.ApplicationServiceListener} to be
 *        added. It must not be {code null}
 * @param referenceNames and array of service reference names from the
 *        descriptor of the corresponding application. It must not be
 *        {code null} and it must not be empty.
 * @throws java.lang.IllegalArgumentException If this context application

public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws java.lang.IllegalArgumentException;
public String getApplicationId();

/**
 * This method returns the service object for the specified
 * {@code referenceName}. If the cardinality of the reference is 0..n or
 * 1..n and multiple services are bound to the reference, the service with
 * the highest ranking (as specified in its
 * {@link org.osgi.framework.Constants#SERVICE_RANKING} property) is
 * returned. If there is a tie in ranking, the service with the lowest
 * service ID (as specified in its
 * {@link org.osgi.framework.Constants#SERVICE_ID} property); that is, the
 * service that was registered first is returned.
 *
 * @param referenceName The name of a reference as specified in a reference
 * element in this context application's description. It must not be
 * @code null
 * @return A service object for the referenced service or @code null if
 * the reference cardinality is 0..1 or 0..n and no bound service is
 * available.
 * @throws java.lang.NullPointerException If @code referenceName is
 * @code null.
 * @throws java.lang.IllegalArgumentException If there is no service in the
 * application descriptor with the specified @code referenceName.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Object locateService(String referenceName);

/**
 * This method returns the service objects for the specified
 * @code referenceName.
 *
 * @param referenceName The name of a reference as specified in a reference
 * element in this context application's description. It must not be
 * @code null.
 * @return An array of service object for the referenced service or
 * @code null if the reference cardinality is 0..1 or 0..n and no
 * bound service is available.
 * @throws java.lang.NullPointerException If @code referenceName is
 * @code null.
 * @throws java.lang.IllegalArgumentException If there is no service in the
 * application descriptor with the specified @code referenceName.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Object[] locateServices(String referenceName);

/**
 * Returns the startup parameters specified when calling the
 * {@link org.osgi.service.application.ApplicationDescriptor#launch(Map)} method.
 * <p>
 * Startup arguments can be specified as name, value pairs. The name must be
 * of type {@link java.lang.String}, which must not be {@code null} or empty
 * {@link java.lang.String} ({@code ""}), the value can be any object
 * including {@code null}.
 * <p>
 * @return a {@link java.util.Map} containing the startup arguments. It can
 * be {@code null}.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Map getStartupParameters();

/**
 * Application can query the service properties of a service object it is
 * bound to. Application gets bound to a service object when it first
 * obtains a reference to the service by calling {@code locateService} or
 * {@code locateServices} methods.
 * <p>
 * @param serviceObject A service object the application is bound to. It
 * must not be null.
 * @return The service properties associated with the specified service
 * object.
 * @throws NullPointerException if the specified {@code serviceObject} is
 * {@code null}
 * @throws IllegalArgumentException if the application is not bound to the
 * specified service object or it is not a service object at all.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Map getServiceProperties(Object serviceObject);

/**
 * Registers the specified service object with the specified properties
 * under the specified class names into the Framework. A
 * {@link org.osgi.framework.ServiceRegistration} object is returned. The
 * {@link org.osgi.framework.ServiceRegistration} object is for the private
 * use of the application registering the service and should not be shared
 * with other applications. The registering application is defined to be the
 * context application. Bundles can locate the service by using either the
 * {link org.osgi.framework.BundleContext#getServiceReferences(String, String)}
 * or {link org.osgi.framework.BundleContext#getServiceReference(String)}
* method. Other applications can locate this service by using
* [@link #locateService(String)] or [@link #locateServices(String)] method,
* if they declared their dependence on the registered service.
* 
* <p>
* An application can register a service object that implements the
* [@link org.osgi.framework.ServiceFactory] interface to have more
* flexibility in providing service objects to other applications or
* bundles.
* 
* <p>
* The following steps are required to register a service:
* <ol>
* <li>If [@code service] is not a [@code ServiceFactory], an
* [@code IllegalArgumentException] is thrown if [@code service] is not an
* [@code instanceof] all the classes named.</li>
* <li>The Framework adds these service properties to the specified
* [@code Dictionary] (which may be [@code null]): a property named
* [@link org.osgi.framework.Constants#SERVICE_ID] identifying the
* registration number of the service and a property named
* [@link org.osgi.framework.Constants#OBJECTCLASS] containing all the
* specified classes. If any of these properties have already been specified
* by the registering bundle, their values will be overwritten by the
* Framework.</li>
* <li>The service is added to the Framework service registry and may now be
* used by others.</li>
* <li>A service event of type
* [@link org.osgi.framework.ServiceEvent#REGISTERED] is fired. This event
* triggers the corresponding [@link ApplicationServiceEvent] to be
* delivered to the applications that registered the appropriate listener.</li>
* <li>A [@code ServiceRegistration] object for this registration is
* returned.</li>
* </ol>

* @param clazzes The class names under which the service can be located.
* @param service The service object or a [@code ServiceFactory] object.
* @param properties The properties for this service. The keys in the
* properties object must all be [@code String] objects. See
* [@link org.osgi.framework.Constants] for a list of standard
* service property keys. Changes should not be made to this object
* after calling this method. To update the service's properties the
* [@link org.osgi.framework.ServiceRegistration#setProperties(Dictionary)]
* method must be called. The set of properties may be [@code null]
* if the service has no properties.
* @return A `@link org.osgi.framework.ServiceRegistration` object for use
  by the application registering the service to update the
  service's properties or to unregister the service.

* @throws java.lang.IllegalArgumentException If one of the following is
  true:
  * <ul>
  * <li>`@code service` is `@code null`.</li>
  * <li>`@code service` is not a `@code ServiceFactory` object and is not an instance of all
    the named classes in `@code clazzes`.</li>
  * <li>`@code properties` contains case variants of the same key name.</li>
  * </ul>

* @throws java.lang.NullPointerException if `@code clazzes` is `@code null`.

* @throws java.lang.SecurityException If the caller does not have the
  named classes and the Java Runtime Environment supports
  permissions.

* @throws java.lang.IllegalStateException If this ApplicationContext is no
  longer valid.

* @see org.osgi.framework.BundleContext#registerService(java.lang.String[],
  java.lang.Object, java.util.Dictionary)
* @see org.osgi.framework.ServiceRegistration
* @see org.osgi.framework.ServiceFactory
*/

public ServiceRegistration registerService(String[] clazzes, Object service, Dictionary properties);

/**
 * Registers the specified service object with the specified properties
 * under the specified class name with the Framework.
 *
 * This method is otherwise identical to
 * `@link registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)`
 * and is provided as a convenience when `@code service` will only be
 * registered under a single class name. Note that even in this case the
 * value of the service's `@link Constants#OBJECTCLASS` property will be an
 * array of strings, rather than just a single string.
 *
 * @param clazz The class name under which the service can be located. It
 * must not be `@code null`.
 * @param service The service object or a `@code ServiceFactory` object.
 * @param properties The properties for this service.
 *
 * @return A `@code ServiceRegistration` object for use by the application
* registering the service to update the service's properties or to
* unregister the service.
*
* @throws java.lang.IllegalArgumentException If one of the following is
* true:
* <ul>
* <li>{@code service} is {@code null}.</li><li>{@code service} is
* not a { @code ServiceFactory} object and is not an instance of the
* named class in { @code clazz}.</li><li>{@code properties} contains
* case variants of the same key name.</li>
* </ul>
* @throws NullPointerException if { @code clazz} is { @code null}
* @throws java.lang.SecurityException If the caller does not have the
* { @code ServicePermission} to register the service the named class
* and the Java Runtime Environment supports permissions.
* @throws java.lang.IllegalStateException If this ApplicationContext is no
* longer valid.
* @see #registerService(java.lang.String[], java.lang.Object,
* java.util.Dictionary)
*public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);
*/

package org.osgi.application;

import org.osgi.framework.ServiceEvent;
import org.osgi.framework.ServiceReference;

/**
 * An event from the Framework describing a service lifecycle change.
 * <p>
* {@code ApplicationServiceEvent} objects are delivered to a
* {@code ApplicationServiceListener} objects when a change occurs in this
* service's lifecycle. The delivery of an {@code ApplicationServiceEvent} is
* always triggered by a {@link org.osgi.framework.ServiceEvent}.
* {@code ApplicationServiceEvent} extends the content of {@code ServiceEvent}
* with the service object the event is referring to as applications has no
* means to find the corresponding service object for a
* {@link org.osgi.framework.ServiceReference}. A type code is used to identify
* the event type for future extendability. The available type codes are defined
* in {@link org.osgi.framework.ServiceEvent}.
* *
* <p>
* OSGi Alliance reserves the right to extend the set of types.
* *
* @see org.osgi.framework.ServiceEvent
* @see ApplicationServiceListener
* *
* @author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9 $
* */
public class ApplicationServiceEvent extends ServiceEvent {

private static final long serialVersionUID = -4762149286971897323L;
final Object serviceObject;

/**
 * Creates a new application service event object.
 * *
 * @param type The event type. Available type codes are defines in
 *   [ @link org.osgi.framework.ServiceEvent]
 * @param reference A [ @code ServiceReference] object to the service that
 *   had a lifecycle change. This reference will be used as the
 *   [ @code source] in the [ @link java.util.EventObject] baseclass,
 *   therefore, it must not be null.
 * @param serviceObject The service object bound to this application
 *   instance. It can be [ @code null] if this application is not bound
 *   to this service yet.
 * @throws IllegalArgumentException if the specified [ @code reference] is
 *   null.
 * */
public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
    super(type, reference);
    this.serviceObject = serviceObject;
}

/**
 * This method returns the service object of this service bound to the
 * listener application instance. A service object becomes bound to the
 * application when it first obtains a service object reference to that

public Object getServiceObject() {
    return this.serviceObject;
}
*/

package org.osgi.application;
import java.util.EventListener;
import org.osgi.framework.*;

/**
 * An ApplicationServiceListener listener. When a ServiceEvent is fired, it is converted to an ApplicationServiceEvent and it is synchronously delivered to an ApplicationServiceListener.
 * <p>
 * ApplicationServiceListener is a listener interface that may be implemented by an application developer.
 * <p>
 * An ApplicationServiceListener object is registered with the Framework using the ApplicationContext.addServiceListener method.
 * ApplicationServiceListener objects are called with an ApplicationServiceEvent object when a service is registered, modified, or is in the process of unregistering.
 */
* <p>
* {@code ApplicationServiceEvent} object delivery to
* {@code ApplicationServiceListener} objects is filtered by the filter
* specified when the listener was registered. If the Java Runtime Environment
* supports permissions, then additional filtering is done.
* {@code ApplicationServiceEvent} objects are only delivered to the listener if
* the application which defines the listener object's class has the appropriate
* {@code ServicePermission} to get the service using at least one of the named
* classes the service was registered under, and the application specified its
* dependence on the corresponding service in the application metadata.
*
* <p>
* {@code ApplicationServiceEvent} object delivery to
* {@code ApplicationServiceListener} objects is further filtered according to
* package sources as defined in
* ServiceReference#isAssignableTo(Bundle, String)).
* @author $Id: 406895df9d8ba1a250de7fb9d49da1d0a18abc5b$
* @see ApplicationServiceEvent
* @see ServicePermission
* /
public interface ApplicationServiceListener extends EventListener { 
/**
* Receives notification that a service has had a lifecycle change.
* @param event The {@code ApplicationServiceEvent} object.
*/
public void serviceChanged(ApplicationServiceEvent event);
}

package org.osgi.service.application;

import java.security.Permission;
import java.util.Hashtable;
import java.util.StringTokenizer;
import java.util.Vector;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * This class implements permissions for manipulating applications and their
 * instances.
 * <p>
 * ApplicationAdminPermission can be targeted to applications that matches the
 * specified filter.
 * <p>
 * ApplicationAdminPermission may be granted for different actions:
 * <code>{@code lifecycle}, {@code schedule} and {@code lock}</code>. The permission
 * <code>{@code schedule}</code> implies the permission <code>{@code lifecycle}</code>.
 * <p>
 * @author $Id: c8c799ae29ff5bb6095e22d201b47a3445eb42cb $
 */
public class ApplicationAdminPermission extends Permission {
    private static final long serialVersionUID = 1L;

    /**
     * Allows the lifecycle management of the target applications.
     */
    public static final String LIFECYCLE_ACTION = "lifecycle";

    /**
     * Allows scheduling of the target applications. The permission to schedule
     * an application implies that the scheduler can also manage the lifecycle
     * of that application i.e. <code>{@code schedule}</code> implies <code>{@code lifecycle}</code>
     */
    public static final String SCHEDULE_ACTION = "schedule";

    /**
     * Allows setting/unsetting the locking state of the target applications.
     */
    public static final String LOCK_ACTION = "lock";

    private ApplicationDescriptor applicationDescriptor;

    /**
     * Constructs an ApplicationAdminPermission. The <code>{@code filter}</code> specifies
     * the target application. The <code>{@code filter}</code> is an LDAP-style filter, the
     * recognized properties are <code>{@code signer}</code> and <code>{@code pid}</code>. The pattern
     * specified in the <code>{@code signer}</code> is matched with the Distinguished Name
     * chain used to sign the application. Wildcards in a DN are not matched
     */
    public ApplicationAdminPermission(String filter) {
        this(null, filter);
    }

    /**
     * Constructs an ApplicationAdminPermission with the specified filter
     * and ApplicationDescriptor. The pattern specified in the <code>{@code signer}</code>
     * is matched against its Distinguished Name chain.
     */
    public ApplicationAdminPermission(ApplicationDescriptor applicationDescriptor, String filter) {
        super(filter);
        this.applicationDescriptor = applicationDescriptor;
    }
}
* according to the filter string rules, but according to the rules defined
* for a DN chain. The attribute [@code pid] is matched with the PID of the
* application according to the filter string rules.
* <p>
* If the [@code filter] is [@code null] then it matches [@code "]@code **\"\"@code "]”. If
* [@code actions] is [@code **\"\"@code "]” then it identifies all the possible
* actions.
* @param filter filter to identify application. The value [@code null] is
* equivalent to [@code **\"\"@code "]” and it indicates "all application”.
* @param actions comma-separated list of the desired actions granted on the
* applications or [@code "]@code **\"\"@code "]” means all the actions. It must not be
* significant.
* @throws InvalidSyntaxException is thrown if the specified [@code filter]
* is not syntactically correct.
* @exception NullPointerException is thrown if the actions parameter is
* [@code null]
* @see ApplicationDescriptor
* @see org.osgi.framework.AdminPermission
*/
public ApplicationAdminPermission(String filter, String actions) throws InvalidSyntaxException {
    super(filter == null ? "@code **\"\"@code "]” : filter);
    if (filter == null)
        filter = "@code **\"\"@code "]”;
    if (actions == null)
        throw new NullPointerException("Action string cannot be null!");
    this.applicationDescriptor = null;
    this.filter = (filter == null ? "@code **\"\"@code "]” : filter);
    this.actions = actions;
    if (!filter.equals("@code **\"\"@code "]”) && !filter.equals("@code <<SELF>>>"))
        FrameworkUtil.createFilter(this.filter); // check if the filter is
        // valid
        init();
    }
    /**
    * This constructor should be used when creating
    * [@code ApplicationAdminPermission] instance for [@code checkPermission]
    * call.
    * @param application the target of the operation, it must not be
public ApplicationAdminPermission(ApplicationDescriptor application, String actions) {
    super(application.getApplicationId());

    if (application == null || actions == null)
        throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

    this.filter = application.getApplicationId();
    this.applicationDescriptor = application;
    this.actions = actions;

    init();
}

/**
 * This method can be used in the \{link java.security.ProtectionDomain\} implementation in the \{code implies\} method to insert the application ID of the current application into the permission being checked. This enables the evaluation of the \{code <<SELF>>\} pseudo targets.
 *
 * @param applicationId the ID of the current application.
 * @return the permission updated with the ID of the current application
 */
public ApplicationAdminPermission setCurrentApplicationId(String applicationId) {
    ApplicationAdminPermission newPerm = null;

    if (this.applicationDescriptor == null) {
        try {
            newPerm = new ApplicationAdminPermission(this.filter, this.actions);
        } catch (InvalidSyntaxException e) {
            throw new RuntimeException(e); /* this can never happen */
        }
    } else
        newPerm = new ApplicationAdminPermission(this.applicationDescriptor, this.actions);

    newPerm.applicationID = applicationId;

    return newPerm;
}

/**
 * Checks if the specified \{code permission\} is implied by this permission.
 * The method returns true under the following conditions:
 * <ul>
 * <li>This permission was created by specifying a filter (see

The implied `otherPermission` was created for a particular `ApplicationDescriptor` (see `ApplicationAdminPermission(ApplicationDescriptor, String)`). The `filter` of this permission matches the `ApplicationDescriptor` specified in the `otherPermission`. If the filter in this permission is the `<<SELF>>` pseudo target, then the currentApplicationId set in the `otherPermission` is compared to the application Id of the target.

The list of permitted actions in this permission contains all actions required in the `otherPermission`.

Otherwise the method returns false.

```
public boolean implies(Permission otherPermission) {
    if (otherPermission == null)
        return false;
    if (!(otherPermission instanceof ApplicationAdminPermission))
        return false;

    ApplicationAdminPermission other = (ApplicationAdminPermission) otherPermission;

    if (!filter.equals("*")) {
        if (other.applicationDescriptor == null)
            return false;

        if (filter.equals("<<SELF>>")) {
            if (other.applicationID == null)
                return false; /* it cannot be, this might be a bug */

            if (!other.applicationID.equals(other.applicationDescriptor.getApplicationId()))
                return false; /* it cannot be, this might be a bug */

        } else {
            Hashtable props = new Hashtable();
            props.put("pid", other.applicationDescriptor.getApplicationId());
            props.put("signer", new SignerWrapper(other.applicationDescriptor));

            Filter flt = getFilter();
            if (flt == null)
                return false;

            if (!flt.match(props))
```
return false;

if (!actionsVector.containsAll(other.actionsVector))
    return false;

return true;
}

public boolean equals(Object with) {
if (with == null || !(with instanceof ApplicationAdminPermission))
    return false;

ApplicationAdminPermission other = (ApplicationAdminPermission) with;

    // Compare actions:
    if (other.actionsVector.size() != actionsVector.size())
        return false;

    for (int i = 0; i != actionsVector.size(); i++)
        if (!other.actionsVector.contains(actionsVector.get(i)))
            return false;

    return equal(this.filter, other.filter) && equal(this.applicationDescriptor, other.applicationDescriptor) &&
        equal(this.applicationID, other.applicationID);
}

/**
 * Compares parameters for equality. If both object are null, they are
 * considered equal.
 *
 * @param a object to compare
 * @param b other object to compare
 * @return true if both objects are equal or both are null
 */
private static boolean equal(Object a, Object b) {
    // This equation is true if both references are null or both point
    // to the same object. In both cases they are considered as equal.
    if (a == b) {
        return true;
    }

    return a.equals(b);
}

public int hashCode() {
int hc = 0;

for (int i = 0; i != actionsVector.size(); i++)
hc ^= ((String) actionsVector.get(i)).hashCode();
hc ^= (null == this.filter) ? 0 : this.filter.hashCode();
hc ^= (null == this.applicationDescriptor) ? 0 : this.applicationDescriptor.hashCode();
hc ^= (null == this.applicationID) ? 0 : this.applicationID.hashCode();
return hc;
}
/**
* Returns the actions of this permission.
*
* @return the actions specified when this permission was created
*/
public String getActions() {
return actions;
}
private StringapplicationID;
private static final VectorACTIONS= new Vector();
private VectoractionsVector;
private final Stringfilter;
private final Stringactions;
private FilterappliedFilter= null;
static {
ACTIONS.add(LIFECYCLE_ACTION);
ACTIONS.add(SCHEDULE_ACTION);
ACTIONS.add(LOCK_ACTION);
}
private static Vector actionsVector(String actions) {
Vector v = new Vector();
StringTokenizer t = new StringTokenizer(actions.toUpperCase(), ",");
while (t.hasMoreTokens()) {
String action = t.nextToken().trim();
v.add(action.toLowerCase());
}
if (v.contains(SCHEDULE_ACTION) && !v.contains(LIFECYCLE_ACTION))
v.add(LIFECYCLE_ACTION);
return v;
}
private static class SignerWrapper extends Object {
private Stringpattern;
private ApplicationDescriptorappDesc;

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/**
 * @param pattern
 */
public SignerWrapper(String pattern) {
    this.pattern = pattern;
}

SignerWrapper(ApplicationDescriptor appDesc) {
    this.appDesc = appDesc;
}

public boolean equals(Object o) {
    if (!(o instanceof SignerWrapper))
        return false;
    SignerWrapper other = (SignerWrapper) o;
    ApplicationDescriptor matchAppDesc = appDesc != null ? appDesc : other.appDesc;
    String matchPattern = appDesc != null ? other.pattern : pattern;
    return matchAppDesc.matchDNChain(matchPattern);
}

private void init() {
    actionsVector = actionsVector(actions);

    if (actions.equals("*"))
        actionsVector = actionsVector(LIFECYCLE_ACTION + "," + SCHEDULE_ACTION + "," + LOCK_ACTION);
    else
        if (!ACTIONS.containsAll(actionsVector))
            throw new IllegalArgumentException("Illegal action!");

    applicationID = null;
}

private Filter getFilter() {
    if (appliedFilter == null) {
        try {
            appliedFilter = FrameworkUtil.createFilter(filter);
        } catch (InvalidSyntaxException e) {
            // we will return null
        }
    }

    return appliedFilter;
}

/*
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 * 
 */
package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.InvalidSyntaxException;

/**
 * The property key for the localized name of the application.
 */
public static final String APPLICATION_NAME = "application.name";

/**
 * The property key for the localized icon of the application.
 */
public abstract class ApplicationDescriptor {
public static final String APPLICATION_ICON = "application.icon";

/**
 * The property key for the unique identifier (PID) of the application.
 */
public static final String APPLICATION_PID = Constants.SERVICE_PID;

/**
 * The property key for the version of the application.
 */
public static final String APPLICATION_VERSION = "application.version";

/**
 * The property key for the name of the application vendor.
 */
public static final String APPLICATION_VENDOR = Constants.SERVICE_VENDOR;

/**
 * The property key for the visibility property of the application.
 */
public static final String APPLICATION_VISIBLE = "application.visible";

/**
 * The property key for the launchable property of the application.
 */
public static final String APPLICATION_LAUNCHABLE = "application.launchable";

/**
 * The property key for the locked property of the application.
 */
public static final String APPLICATION_LOCKED = "application.locked";

/**
 * The property key for the localized description of the application.
 */
public static final String APPLICATION_DESCRIPTION = "application.description";

/**
 * The property key for the localized documentation of the application.
 */
public static final String APPLICATION_DOCUMENTATION = "application.documentation";

/**
 * The property key for the localized copyright notice of the application.
 */
public static final String APPLICATION_COPYRIGHT = "application.copyright";
* The property key for the localized license of the application.
*/
public static final String APPLICATION_LICENSE = "application.license";

/**
 * The property key for the application container of the application.
 */
public static final String APPLICATION_CONTAINER = "application.container";

/**
 * The property key for the location of the application.
 */
public static final String APPLICATION_LOCATION = "application.location";

private final String pid;

/**
 * Constructs the [code ApplicationDescriptor].

 * @param applicationId The identifier of the application. Its value is also
 * available as the [code service.pid] service property of this
 * [code ApplicationDescriptor] service. This parameter must not be
 * null.
 * @throws NullPointerException if the specified [code applicationId] is
 * null.
 */
protected ApplicationDescriptor(String applicationId) {
    if (null == applicationId) {
        throw new NullPointerException("Application ID must not be null!");
    }

    this.pid = applicationId;
    try {
        delegate = new Delegate();
        delegate.setApplicationDescriptor(this, applicationId);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: "+ Delegate.cName);
    }
}

/**
 * Returns the identifier of the represented application.
 */
* public final String getApplicationId() {
return pid;
}

/**
 * This method verifies whether the specified {code pattern} matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 * <p>
 * The {code pattern} must adhere to the syntax defined in
 * {link org.osgi.service.application.ApplicationAdminPermission} for
 * signer attributes.
 * <p>
 * This method is used by
 * {link ApplicationAdminPermission#implies(java.security.Permission)}
 * method to match target {code ApplicationDescriptor} and filter.
 *<p>
 * @param pattern a pattern for a chain of Distinguished Names. It must not
 * be null.
 * @return {code true} if the specified pattern matches at least one of the
 * certificate chains used to authenticate this application
 * @throws NullPointerException if the specified {code pattern} is null.
 * @throws IllegalStateException if the application descriptor was
 * unregistered
 */
public abstract boolean matchDNChain(String pattern);

/**
 * Returns the properties of the application descriptor as key-value pairs.
 * The return value contains the locale aware and unaware properties as
 * well. The returned {code Map} will include the service properties of
 * this {code ApplicationDescriptor} as well.
 * <p>
 * This method will call the {code getPropertiesSpecific} method to enable
 * the container implementation to insert application model and/or container
 * implementation specific properties.
 * <p>
 * The returned {link java.util.Map} will contain the standard OSGi service
 * properties as well (e.g. service.id, service.vendor etc.) and specialized
 * application descriptors may offer further service properties. The
 * returned Map contains a snapshot of the properties. It will not reflect
 * further changes in the property values nor will the update of the Map
 * change the corresponding service property.
 *<p>
 * @param locale the locale string, it may be null, the value null means the
 * default locale. If the provided locale is the empty String (  
 * {code ""}) then raw (non-localized) values are returned.
 *<p>
 * @return copy of the service properties of this application descriptor


public final Map getProperties(String locale) {
    Map props = getPropertiesSpecific(locale);

    /* currently the ApplicationDescriptor manages the load/save of locking */
    boolean isLocked = delegate.isLocked(); // the real locking state
    Boolean containerLocked = (Boolean) props.remove(APPLICATION_LOCKED);
    if (containerLocked != null && containerLocked.booleanValue() != isLocked) {
        try {
            if (isLocked) /* if the container's information is not correct */
                lockSpecific(); /* about the locking state (after loading
                * the lock states)
            */
            else
                unlockSpecific();
        } catch (Exception e) {
            // catch Exception e
        }
    }

    /* replace the container's lock with the application model's lock,
    * that's the correct
    */
    props.put(APPLICATION_LOCKED, new Boolean(isLocked));
    return props;
}

/**
 * Container implementations can provide application model specific and/or
 * container implementation specific properties via this method.
 * *
 * Localizable properties must be returned localized if the provided
 * [@code locale] argument is not the empty String. The value [@code null]
 * indicates to use the default locale, for other values the specified
 * locale should be used.
 * *
 * The returned [@link java.util.Map] must contain the standard OSGi service
 * properties as well (e.g. service.id, service.vendor etc.) and specialized
 * application descriptors may offer further service properties. The
 * returned [@code Map] contains a snapshot of the properties. It will not
 * reflect further changes in the property values nor will the update of the
 * Map change the corresponding service property.
 */
* @param locale the locale to be used for localizing the properties. If
  *   [@code null] the default locale should be used. If it is the empty
  *   String ([@code ""] then raw (non-localized) values should be
  *   returned.
  *
  * @return the application model specific and/or container implementation
  * specific properties of this application descriptor.
  *
  * @throws IllegalStateException if the application descriptor is
  *   unregistered
  */
protected abstract Map getPropertiesSpecific(String locale);

/**
 * Launches a new instance of an application. The [@code args] parameter
 * specifies the startup parameters for the instance to be launched, it may
 * be null.
 * <p>
 * The following steps are made:
 * <ul>
 * <li>Check for the appropriate permission.</li>
 * <li>Check the locking state of the application. If locked then throw an
 *   [@link ApplicationException] with the reason code
 *   [@link ApplicationException#APPLICATION_LOCKED].</li>
 * <li> Calls the [@code launchSpecific()] method to create and start an
 *   application instance.</li>
 * <li>Returns the [@code ApplicationHandle] returned by the
 *   launchSpecific().</li>
 * </ul>
 * The caller has to have ApplicationAdminPermission(applicationPID,
 * "launch") in order to be able to perform this operation.
 * <p>
 * The [@code Map] argument of the launch method contains startup arguments
 * for the application. The keys used in the Map must be non-null, non-empty
 * [@code String] objects. They can be standard or application specific.
 * OSGi defines the [@code osgi.triggerevent] key to be used to pass
 * the triggering event to a scheduled application, however in the future it
 * is possible that other well-known keys will be defined. To avoid unwanted
 * clashes of keys, the following rules should be applied:
 * <ul>
 * <li>The keys starting with the dash (-) character are application
 *   specific, no well-known meaning should be associated with them.</li>
 * <li>Well-known keys should follow the reverse domain name based naming.
 *   In particular, the keys standardized in OSGi should start with
 *   [@code org.osgi.].</li>
 * </ul>
 * <p>
* The method is synchronous, it return only when the application instance
* was successfully started or the attempt to start it failed.
* <p>
* This method never returns {code null}. If launching an application
* fails, the appropriate exception is thrown.
* <p>
* @param arguments Arguments for the newly launched application, may be
* null
* <p>
* @return the registered ApplicationHandle, which represents the newly
* launched application instance. Never returns {code null}.
* <p>
* @throws SecurityException if the caller doesn't have "lifecycle"
* ApplicationAdminPermission for the application.
* @throws ApplicationException if starting the application failed
* @throws IllegalStateException if the application descriptor is
* unregistered
* @throws IllegalArgumentException if the specified {code Map} contains
* invalid keys (null objects, empty {code String} or a key that is
* not {code String})
* */
public final ApplicationHandle launch(Map arguments) throws ApplicationException {
try {
delegate.launch(arguments);
} catch (SecurityException se) {
isLaunchableSpecific(); /* check whether the bundle was uninstalled */
/* if yes, throws IllegalStateException */
throw se; /* otherwise throw the caught SecurityException */
} 
if (!isLaunchableSpecific())
throw new ApplicationException(ApplicationException.APPLICATION_NOT_LAUNCHABLE, "Cannot launch
the application!");
try {
return launchSpecific(arguments);
} catch (IllegalStateException ise) {
throw ise;
} catch (SecurityException se) {
throw se;
} catch (ApplicationException ae) {
throw ae;
} catch (Exception t) {
throw new ApplicationException(ApplicationException.APPLICATION_INTERNAL_ERROR, t);
}

/**
* Called by launch() to create and start a new instance in an application
* model specific way. It also creates and registeres the application handle
to represent the newly created and started instance and registeres it.
The method is synchronous, it return only when the application instance
was successfully started or the attempt to start it failed.

This method must not return [@code null]. If launching the application
failed, and exception must be thrown.

@param arguments the startup parameters of the new application instance,
may be null

@return the registered application model specific application handle for
the newly created and started instance.

@throws IllegalStateException if the application descriptor is
unregistered
@throws Exception if any problem occurs.

protected abstract ApplicationHandle launchSpecific(Map arguments) throws Exception;

/**
 * This method is called by launch() to verify that according to the
 * container, the application is launchable.
 *
 * @return true, if the application is launchable according to the
 * container, false otherwise.
 *
 * @throws IllegalStateException if the application descriptor is
 * unregistered
 */
protected abstract boolean isLaunchableSpecific();

/**
 * Schedules the application at a specified event. Schedule information
should not get lost even if the framework or the device restarts so it
should be stored in a persistent storage. The method registers a
[@link ScheduledApplication] service in Service Registry, representing
the created schedule.
 *
 * The [@code Map] argument of the method contains startup arguments for the
application. The keys used in the Map must be non-null, non-empty
[@code String] objects. The argument values must be of primitive types,
wrapper classes of primitive types, [@code String] or arrays or
collections of these.
 *
 * The created schedules have a unique identifier within the scope of this
[@code ApplicationDescriptor]. This identifier can be specified in the
[@code scheduleId] argument. If this argument is [@code null], the
identifier is automatically generated.
* @param scheduleId the identifier of the created schedule. It can be
  *   { @code null}, in this case the identifier is automatically
  *   generated.
* @param arguments the startup arguments for the scheduled application, may
  *   be null
* @param topic specifies the topic of the triggering event, it may contain
  *   a trailing asterisk as wildcard, the empty string is treated as
  *   "*", must not be null
* @param eventFilter specifies and LDAP filter to filter on the properties
  *   of the triggering event, may be null
* @param recurring if the recurring parameter is false then the application
  *   will be launched only once, when the event firstly occurs. If the
  *   parameter is true then scheduling will take place for every event
  *   occurrence; i.e. it is a recurring schedule
* 
* @return the registered scheduled application service
* 
* @throws NullPointerException if the topic is { @code null}
* @throws InvalidSyntaxException if the specified { @code eventFilter} is
  *   not syntactically correct
* @throws ApplicationException if the schedule couldn't be created. The
  *   possible error codes are
  *   <ul>
  *   <li>{ @link ApplicationException#APPLICATION_DUPLICATE_SCHEDULE_ID} if
  *     the specified { @code scheduleId} is already used for this
  *     { @code ApplicationDescriptor}</li>
  *   <li>{ @link ApplicationException#APPLICATION_SCHEDULING_FAILED} if the
  *     scheduling failed due to some internal reason (e.g. persistent
  *     storage error).</li>
  *   <li>{ @link ApplicationException#APPLICATION_INVALID_STARTUP_ARGUMENT} if
  *     the specified startup argument doesn't satisfy the type or
  *     value constraints of startup arguments.</li>
  *   </ul>
* @throws SecurityException if the caller doesn't have "schedule"
  * ApplicationAdminPermission for the application.
* @throws IllegalStateException if the application descriptor is
  * unregistered
* @throws IllegalArgumentException if the specified { @code Map} contains
  *   invalid keys (null objects, empty { @code String} or a key that is
  *   not { @code String})
*/

public final ScheduledApplication schedule(String scheduleId, Map arguments, String topic, String eventFilter,
  boolean recurring) throws InvalidSyntaxException, ApplicationException {
  isLaunchableSpecific(); // checks if the ApplicationDescriptor was
  // already unregistered
  try {
return delegate.schedule(scheduleId, arguments, topic, eventFilter, recurring);
}
catch (SecurityException se) {
    isLaunchableSpecific(); /* check whether the bundle was uninstalled */
    /* if yes, throws IllegalStateException */
    throw se; /* otherwise throw the caught SecurityException */
}

/**
 * Sets the lock state of the application. If an application is locked then
 * launching a new instance is not possible. It does not affect the already
 * launched instances.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 * @throws ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
public final void lock() {
    try {
        delegate.lock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    lockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been locked and it should update the
 * [@code application.locked] service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
protected abstract void lockSpecific();

/**
 * Unsets the lock state of the application.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 * @throws ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
public final void unlock() {

try {
delegate.unlock();
} catch (SecurityException se) {
    isLaunchableSpecific(); /* check whether the bundle was uninstalled */
/* if yes, throws IllegalStateException */
    throw se; /* otherwise throw the caught SecurityException */
}
unlockSpecific();

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been unlocked and it should update the
 * [@code application.locked] service property accordingly.
 * *
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
protected abstract void unlockSpecific();

Delegatedelegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationDescriptor and delegate method
 * calls to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationDescriptor;
    static Method isLocked;
    static Method lock;
    static Method unlock;
    static Method schedule;
    static Method launch;
    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationDescriptor");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationDescriptor property must be set");
                }
                try {
                    implementation = Class.forName(cName);
                } catch (ClassNotFoundException e) {
                    throw e;
                }
            }
        });
    }
}
throw new NoClassDefFoundError(e.toString());
}

try {
setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[
{ApplicationDescriptor.class, String.class });
isLocked = implementation.getMethod("isLocked", new Class[] {});
lock = implementation.getMethod("lock", new Class[] {});
unlock = implementation.getMethod("unlock", new Class[] {});
schedule = implementation.getMethod("schedule", new Class[] {String.class, Map.class, String.class, String.class, boolean.class });
launch = implementation.getMethod("launch", new Class[] {Map.class });
} catch (NoSuchMethodException e) {
throw new NoSuchMethodError(e.toString());
}

return null;
}
});

Object target;

Delegate() throws Exception {
target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
public Object run() throws Exception {
return implementation.newInstance();
}
});

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
try {
try {
setApplicationDescriptor.invoke(target, new Object[] {d, pid});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}

boolean isLocked() {
}
try {
    try {
        return ((Boolean) isLocked.invoke(target, new Object[] {})).booleanValue();
    } catch (InvocationTargetException e) {
        throw e.getTargetException();
    }
} catch (Error e) {
    throw e;
} catch (RuntimeException e) {
    throw e;
} catch (Throwable e) {
    throw new RuntimeException(e);
}

void lock() {
    try {
        try {
            lock.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void unlock() {
    try {
        try {
            unlock.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

ScheduledApplication schedule(String scheduleId, Map args, String topic, String filter, boolean recurs) throws
InvalidSyntaxException, ApplicationException {
try {
try {
return (ScheduledApplication) schedule.invoke(target, new Object[] {scheduleId, args, topic, filter, new Boolean(recurs)});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (InvalidSyntaxException e) {
throw e;
} catch (ApplicationException e) {
throw e;
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}
}

void launch(Map arguments) throws ApplicationException {
try {
try {
launch.invoke(target, new Object[] {arguments});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (ApplicationException e) {
throw e;
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}

/*
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*
package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *\
 * [code ApplicationException] object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * [code ApplicationException]s should not be created by developers.
 * [code ApplicationException]s are associated with an error code. This code
 * describes the type of problem reported in this exception. The possible codes
 * are:
 * <ul>
 * <li> [code APPLICATION_LOCKED] - The application couldn't be launched
 * because it is locked.</li>
 * <li> [code APPLICATION_NOT_LAUNCHABLE] - The application is not in
 * launchable state.</li>
 * <li> [code APPLICATION_INTERNAL_ERROR] - An exception was thrown by the
 * application or its container during launch.</li>
 * <li> [code APPLICATION_SCHEDULING_FAILED] - The scheduling of an application
 * failed.</li>
 * <li> [code APPLICATION_DUPLICATE_SCHEDULE_ID] - The application scheduling
 * failed because the specified identifier is already in use.</li>
 * <li> [code APPLICATION_EXITVALUE_NOT_AVAILABLE] - The exit value is not
 * available for an application instance because the instance has not
 * terminated.</li>
 * <li> [code APPLICATION_INVALID_STARTUP_ARGUMENT] - One of the specified
 * startup arguments is invalid, for example its type is not permitted.</li>
 * </ul>
 *
 * @author $Id: 5f2542a639033d6c4f85fefa1cbe7f1f0a9d892f $
 */

public class ApplicationException extends Exception {
    private static final long serialVersionUID = -7173190453622508207L;
    private final int errorCode;

    /**
     * The application couldn't be launched because it is locked.
     */

    public ApplicationException(int errorCode) {
        this.errorCode = errorCode;
    }
}
public static final int APPLICATION_LOCKED = 0x01;

/**
 * The application is not in launchable state, it's
 * [@link ApplicationDescriptor#APPLICATION_LAUNCHABLE} attribute is false.
 */
public static final int APPLICATION_NOT_LAUNCHABLE = 0x02;

/**
 * An exception was thrown by the application or the corresponding container
 * during launch. The exception is available from { @code getCause()}. 
 */
public static final int APPLICATION_INTERNAL_ERROR = 0x03;

/**
 * The application schedule could not be created due to some internal error
 * (for example, the schedule information couldn't be saved due to some
 * storage error).
 */
public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

/**
 * The application scheduling failed because the specified identifier is
 * already in use.
 */
public static final int APPLICATION_DUPLICATE_SCHEDULE_ID = 0x05;

/**
 * The exit value is not available for an application instance because the
 * instance has not terminated.
 *
 * @since 1.1
 */
public static final int APPLICATION_EXITVALUE_NOT_AVAILABLE = 0x06;

/**
 * One of the specified startup arguments is invalid, for example its type
 * is not permitted.
 *
 * @since 1.1
 */
public static final int APPLICATION_INVALID_STARTUP_ARGUMENT = 0x07;

/**
 * Creates an { @code ApplicationException} with the specified error code.
 *
 * @param errorCode The code of the error
 */
public ApplicationException(int errorCode) {
    super();
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 *
 * @param errorCode The code of the error
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, Throwable cause) {
    super(cause);
    this.errorCode = errorCode;
}

/**
 * Creates an {@code ApplicationException} with the specified error code.
 *
 * @param errorCode The code of the error
 * @param message The associated message
 */
public ApplicationException(int errorCode, String message) {
    super(message);
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 *
 * @param errorCode The code of the error
 * @param message The associated message.
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, String message, Throwable cause) {
    super(message, cause);
    this.errorCode = errorCode;
}

/**
 * Returns the cause of this exception or {@code null} if no cause was set.
 *
 * @return The cause of this exception or {@code null} if no cause was set.
 */
public Throwable getCause() {
    return super.getCause();
}
/**
 * Returns the error code associated with this exception.
 *
 * @return The error code of this exception.
 */
public int getErrorCode() {
    return errorCode;
}

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* limitations under the License.
*/

package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import org.osgi.framework.Constants;

/**
 * ApplicationHandle is an OSGi service interface which represents an instance
 * of an application. It provides the functionality to query and manipulate the
 * lifecycle state of the represented application instance. It defines constants
 * for the lifecycle states.
 *
 * @author $Id: 4a9c1d6258e03ce4eb1a26748bce883661ad8244 $
 */
public abstract class ApplicationHandle {

    /*
     * NOTE: An implementor may also choose to replace this class in their
     * distribution with a class that directly interfaces with the
     * org.osgi.service.application implementation. This replacement class MUST
     * NOT alter the public/protected signature of this class.
     */
}
/**
  * The property key for the unique identifier (PID) of the application
  * instance.
  */
public static final String APPLICATION_PID = Constants.SERVICE_PID;

/**
  * The property key for the pid of the corresponding application descriptor.
  */
public final static String APPLICATION_DESCRIPTOR = "application.descriptor";

/**
  * The property key for the state of this application instance.
  */
public final static String APPLICATION_STATE = "application.state";

/**
  * The property key for the supports exit value property of this application
  * instance.
  *
  * @since 1.1
  */
public final static String APPLICATION_SUPPORTS_EXITVALUE = "application.supports.exitvalue";

/**
  * The application instance is running. This is the initial state of a newly
  * created application instance.
  */
public final static String RUNNING = "RUNNING";

/**
  * The application instance is being stopped. This is the state of the
  * application instance during the execution of the @}code destroy()} method.
  */
public final static String STOPPING = "STOPPING";

private final String instanceId;

private final ApplicationDescriptor descriptor;

/**
  * Application instance identifier is specified by the container when the
  * instance is created. The instance identifier must remain static for the
  * lifetime of the instance, it must remain the same even across framework
  * restarts for the same application instance. This value must be the same
The instance identifier should follow the following scheme:

\[
\text{\textless} \text{application descriptor PID\textgreater}.\text{\textless} \text{index\textgreater}\]

where

\[
\text{\textless} \text{application descriptor PID\textgreater}\]

is the PID of the corresponding

\[
\text{@code ApplicationDescriptor}\]

and \[
\text{\textless} \text{index\textgreater}\]

is a unique integer index assigned by the application container. Even after destroying the application index the same index value should not be reused in a reasonably long timeframe.

@throws NullPointerException if any of the arguments is null.

protected ApplicationHandle(String instanceId, ApplicationDescriptor descriptor) {
    if ((null == instanceId) || (null == descriptor)) {
        throw new NullPointerException("Parameters must not be null!");
    }
    this.instanceId = instanceId;
    this.descriptor = descriptor;

    try {
        delegate = new Delegate();
        delegate.setApplicationHandle(this, descriptor.delegate);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
    }
}

/**
 * Retrieves the \{@code ApplicationDescriptor\} to which this \{@code ApplicationHandle\} belongs.
 *
 * @return The corresponding \{@code ApplicationDescriptor\}
 *
 */
public final ApplicationDescriptor getApplicationDescriptor() {
    return descriptor;
}

/**
 * Get the state of the application instance.
 */
public abstract String getState();

/**
 * Returns the exit value for the application instance. The timeout
 * specifies how the method behaves when the application has not yet
 * terminated. A negative, zero or positive value may be used.
 * <ul>
 * <li>negative - The method does not wait for termination. If the
 * application has not terminated then an ApplicationException is
 * thrown.</li>
 * <li>zero - The method waits until the application terminates.</li>
 * <li>positive - The method waits until the application terminates or the
 * timeout expires. If the timeout expires and the application has not
 * terminated then an ApplicationException is thrown.</li>
 * </ul>
 * The default implementation throws an UnSupportedOperationException. The application model should
 * override this method if exit values are supported.
 */

public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
  throw new UnsupportedOperationException();
}

/**
 * Returns the unique identifier of this instance. This value is also
 */

public Object getIdentifier() throws ApplicationException, InterruptedException {
  throw new UnsupportedOperationException();
}
public final String getInstanceId() {
    return instanceId;
}

/**
 * The application instance's lifecycle state can be influenced by this
 * method. It lets the application instance perform operations to stop the
 * application safely, e.g. saving its state to a permanent storage.
 * @return the unique identifier of the instance
 */

public final void destroy() {
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
         * check whether the bundle was
         * uninstalled
         */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    destroySpecific();
/**
 * Called by the destroy() method to perform application model specific
 * steps to stop and destroy an application instance safely.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
protected abstract void destroySpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationHandle and delegate method calls
 * to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationHandle;
    static Method destroy;

    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationHandle");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationHandle property must be set");
                }

                try {
                    implementation = Class.forName(cName);
                    setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[]{ApplicationHandle.class, Object.class});
                    destroy = implementation.getMethod("destroy", new Class[]{});
                } catch (NoSuchMethodException e) {
                    throw new NoSuchMethodError(e.toString());
                }

                return null;
            }
        });
    }

    try {
        implementation = Class.forName(cName);
        catch (ClassNotFoundException e) {
            throw new NoClassDefFoundError(e.toString());
        }

        try {
            setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[]{ApplicationHandle.class, Object.class});
            destroy = implementation.getMethod("destroy", new Class[]{});
        } catch (NoSuchMethodException e) {
            throw new NoSuchMethodError(e.toString());
        }

        return null;
    }
}
Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationHandle(ApplicationHandle d, ApplicationDescriptor.Delegate descriptor) {
    try {
        try {
            setApplicationHandle.invoke(target, new Object[] {d, descriptor.target});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void destroy() {
    try {
        try {
            destroy.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

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*/

package org.osgi.service.application;

import java.util.Map;

/**
 * It is allowed to schedule an application based on a specific event.
 * ScheduledApplication service keeps the schedule information. When the
 * specified event is fired a new instance must be launched. Note that launching
 * operation may fail because e.g. the application is locked.
 * <p>
 * Each [@code ScheduledApplication] instance has an identifier which is unique
 * within the scope of the application being scheduled.
 * <p>
 * [@code ScheduledApplication] instances are registered as services. The
 * [@link #APPLICATION_PID] service property contains the PID of the application
 * being scheduled, the [@link #SCHEDULE_ID] service property contains the
 * schedule identifier.
 * <p>
 * @author $Id: 69c9a4995399ff1619ec236dcb9ae2553a12d1ae $
 */

public interface ScheduledApplication {

/**
 * The property key for the identifier of the application being scheduled.
 */

public static final String APPLICATION_PID = ApplicationDescriptor.APPLICATION_PID;

/**
 * The property key for the schedule identifier. The identifier is unique
 * within the scope of the application being scheduled.
 */

public static final String SCHEDULE_ID = "schedule.id";

/**
 * The key for the startup argument used to pass the event object that
triggered the schedule to launch the application instance. The event is
passed in a [@link java.security.GuardedObject] protected by the
corresponding [@link org.osgi.service.event.TopicPermission].
*/

public static final String TRIGGERING_EVENT = "org.osgi.triggeringevent";

/**
* The topic name for the virtual timer topic. Time based schedules should
* be created using this topic.
*/

public static final String TIMER_TOPIC = "org/osgi/application/timer";

/**
* The name of the <i>year</i> attribute of a virtual timer event. The value
* is defined by [@link java.util.Calendar#YEAR].
*/

public static final String YEAR = "year";

/**
* The name of the <i>month</i> attribute of a virtual timer event. The
* value is defined by [@link java.util.Calendar#MONTH].
*/

public static final String MONTH = "month";

/**
* The name of the <i>day of month</i> attribute of a virtual timer event.
* The value is defined by [@link java.util.Calendar#DAY_OF_MONTH].
*/

public static final String DAY_OF_MONTH = "day_of_month";

/**
* The name of the <i>day of week</i> attribute of a virtual timer event.
* The value is defined by [@link java.util.Calendar#DAY_OF_WEEK].
*/

public static final String DAY_OF_WEEK = "day_of_week";

/**
* The name of the <i>hour of day</i> attribute of a virtual timer event.
* The value is defined by [@link java.util.Calendar#HOUR_OF_DAY].
*/

public static final String HOUR_OF_DAY = "hour_of_day";

/**
* The name of the <i>minute</i> attribute of a virtual timer event. The
* value is defined by [@link java.util.Calendar#MINUTE].
*/

public static final String MINUTE = "minute";
/**
 * Returns the identifier of this schedule. The identifier is unique within
 * the scope of the application that the schedule is related to.
 * 
 * @return the identifier of this schedule
 */
public String getScheduleId();

/**
 * Queries the topic of the triggering event. The topic may contain a
 * trailing asterisk as wildcard.
 * 
 * @return the topic of the triggering event
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 */
public String getTopic();

/**
 * Queries the event filter for the triggering event.
 * 
 * @return the event filter for triggering event
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 */
public String getEventFilter();

/**
 * Queries if the schedule is recurring.
 * 
 * @return true if the schedule is recurring, otherwise returns false
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 */
public boolean isRecurring();

/**
 * Retrieves the ApplicationDescriptor which represents the application and
 * necessary for launching.
 * 
 * @return the application descriptor that represents the scheduled
 * application
 * @throws IllegalStateException if the scheduled application service is
 */
public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the offset in time for the recurring schedule.
 * The offset is used to calculate the next time the schedule will be
 * executed. The offset is relative to the time the schedule was created.
 * 
 * @return the offset in time for the recurring schedule
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 */
public long getOffset();
package org.osgi.service.cm;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;

public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the startup arguments specified when the application was
 * scheduled. The method returns a copy of the arguments, it is not possible
 * to modify the arguments after scheduling.
 * @return the startup arguments of the scheduled application. It may be
 * null if null argument was specified.
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */
public Map getArguments();

/**
 * Cancels this schedule of the application.
 * @throws SecurityException if the caller doesn't have "schedule"
 * ApplicationAdminPermission for the scheduled application.
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */
public void remove();

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 * limitations under the License.
 */
import java.io.ObjectStreamField;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Filter;

/**
 * Indicates a bundle's authority to configure bundles or be updated by
 * Configuration Admin.
 * @ThreadSafe
 * @author $Id: 8d063b34f0b7e467b8bf7ec8d8b86d42384fdcb7 $
 * @since 1.2
 */

public final class ConfigurationPermission extends BasicPermission {
  static final long serialVersionUID = 5716868734811965383L;

  /**
   * Provides permission to create new configurations for other bundles as
   * well as manipulate them. The action string [value #CONFIGURE].
   */
  public final static String CONFIGURE = "configure";

  /**
   * The permission to be updated, that is, act as a Managed Service or
   * Managed Service Factory. The action string [value #TARGET].
   */
  public final static String TARGET = "target";

  private final static int ACTION_CONFIGURE = 0x00000001;
  private final static int ACTION_TARGET = 0x00000002;
  private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
  final static int ACTION_NONE = 0;

  /**
   * The actions mask.
   */
  transient int action_mask;
/**
 * The actions in canonical form.
 * @serial
 */
private volatile String actions = null;

/**
 * Parsed name if it includes wildcards: "*"
 */
private transient List<String> substrings;

/**
 * Create a new ConfigurationPermission.
 * @param name Name of the permission. Wildcards ("@code '*') are allowed in the name. During (Permission), the name is matched to the requested permission using the substring matching rules used by (Filter)s.
 * @param actions Comma separated list of (Configure), (Target) (case insensitive).
 */
public ConfigurationPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by ConfigurationPermissionCollection.
 * @param name location string
 * @param mask action mask
 */
ConfigurationPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 * @param mask action mask
 */
private void setTransients(int mask) {
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
substrings = parseSubstring(getName());
}

/**
 * Parse action string into action mask.
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;

    if (actions == null) {
        return mask;
    }

    char[] a = actions.toCharArray();

    int i = a.length - 1;
    if (i < 0)
        return mask;

    while (i != -1) {
        char c;

        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;

        // check for the known strings
        int matchlen;
        if (i >= 5 && (a[i - 5] == 't' || a[i - 5] == 'T')
            && (a[i - 4] == 'a' || a[i - 4] == 'A')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'g' || a[i - 2] == 'G')
            && (a[i - 1] == 'e' || a[i - 1] == 'E')) {
            matchlen = 6;
            mask |= ACTION_TARGET;
            i--;
        }

        // check for the known strings
        if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
            && (a[i - 7] == 'o' || a[i - 7] == 'O')
            && (a[i - 6] == 'n' || a[i - 6] == 'N')
            && (a[i - 5] == 'f' || a[i - 5] == 'F'))
            i--;

        else if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
            && (a[i - 7] == 'o' || a[i - 7] == 'O')
            && (a[i - 6] == 'n' || a[i - 6] == 'N')
            && (a[i - 5] == 'f' || a[i - 5] == 'F'))

            i--;
    }
}

}
&& (a[i - 4] == 'i' || a[i - 4] == 'I')
&& (a[i - 3] == 'g' || a[i - 3] == 'G')
&& (a[i - 2] == 'u' || a[i - 2] == 'U')
&& (a[i - 1] == 'r' || a[i - 1] == 'R')
&& (a[i] == 'e' || a[i] == 'E')) {
    matchlen = 9;
    mask |= ACTION_CONFIGURE;
}
else {
    // parse error
    throw new IllegalArgumentException("invalid actions: "+ actions);
}

// make sure we didn't just match the tail of a word
// like "ackbarftarget". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',':
        seencomma = true;
        /* FALLTHROUGH */
    case ' ': case '': case '
': case '': case '	':
        break;
    default :
        throw new IllegalArgumentException("invalid permission: "+ actions);
    }
    i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;

if (seencomma) {
    throw new IllegalArgumentException("invalid actions: "+ actions);
}
return mask;

/**
 * Parse the name for wildcard processing.
 *
 * @param name The name of the permission.
 */
private static List<String> parseSubstring(String name) {
    if (name.indexOf('*') < 0) {
        return null;
    }
    char[] chars = name.toCharArray();
    StringBuffer sb = new StringBuffer(chars.length);
    List<String> sub = new ArrayList<String>(10);

    for (int pos = 0; pos < chars.length; pos++) {
        char c = chars[pos];
        switch (c) {
            case '*': {
                if (sb.length() > 0) {
                    sub.add(sb.toString());
                }
                sb.setLength(0);
                sub.add(null);
                break;
            }
            case '\': {
                pos++;
                if (pos < chars.length) {
                    c = chars[pos];
                }
            }
            case '\W': {
                pos++;
                if (pos < chars.length) {
                    c = chars[pos];
                }
                /* fall through into default */
            }
            default: {
                sb.append(c);
                break;
            }
        }
    }
    if (sb.length() > 0) {
        sub.add(sb.toString());
    }

    int size = sub.size();

    if (size == 0) {
        return null;
    }
}
if (size == 1) {
    if (sub.get(0) != null) {
        return null;
    }
}
return sub;

/**
 * Determines if a {@code ConfigurationPermission} object "implies" the
 * specified permission.
 *
 * @param p The target permission to check.
 * @return {@code true} if the specified permission is implied by this
 * object; {@code false} otherwise.
 */
public boolean implies(Permission p) {
    if (!(p instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission requested = (ConfigurationPermission) p;
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested ConfigurationPermission which has already
 * be validated as a proper argument.
 * @param effective The effective actions with which to start.
 * @return {@code true} if the specified permission is implied by this
 * object; { @code false} otherwise.
 */
boolean implies0(ConfigurationPermission requested, int effective) {
    /* check actions first - much faster */
effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    String requestedName = requested.getName();
    if (substrings == null) {
        return getName().equals(requestedName);
    }
}
for (int i = 0, pos = 0, size = substrings.size(); i < size; i++) {
    String substr = substrings.get(i);

    if (i + 1 < size) /* if this is not that last substr */ {
        String substr2 = substrings.get(i + 1);
        if (substr == null) /* * */ {
            if (substr2 == null) /* ** */ {
                continue; /* ignore first star */
            } /* xxx */ {
                int index = requestedName.indexOf(substr2, pos);
                if (index == -1) {
                    return false;
                } /* xxx */ {
                    pos = index + substr2.length();
                } /* last substr */ {
                    if (substr == null) /* * */ {
                        return true;
                    } /* xxx */ {
                        return requestedName.endsWith(substr);
                    } /* last substr */ {
                        return false;
                    } /* xxx */ {
                } /* xxx */ {
                int len = substr.length();
                if (requestedName.regionMatches(pos, substr, 0, len)) {
                    pos += len;
                } else {
                    return false;
                }
            } /* last substr */ {
            } /* xxx */ {
        } else /* xxx */ {
            int len = substr.length();
            if (requestedName.regionMatches(pos, substr, 0, len)) {
                pos += len;
            } else {
                return false;
            }
        } /* xxx */ {
    } /* last substr */ {
    } /* xxx */ {
    return false;
} /* xxx */ {
/**
 * Determines the equality of two {@code ConfigurationPermission} objects.
 * <p>
 * Two {@code ConfigurationPermission} objects are equal.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }

    if (!(obj instanceof ConfigurationPermission)) {
        return false;
    }

    ConfigurationPermission cp = (ConfigurationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName());
}

/**
 * Returns the hash code value for this object.
 * @return Hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * Returns the canonical string representation of the
 * ConfigurationPermission actions.
 * Always returns present ConfigurationPermission actions in the
 * following order: CONFIGURE, TARGET
 * @return Canonical string representation of the
 * ConfigurationPermission actions.
 */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;

        return (result

```
if ((mask & ACTION_CONFIGURE) == ACTION_CONFIGURE) {
    sb.append(CONFIGURE);
    comma = true;
}

if ((mask & ACTION_TARGET) == ACTION_TARGET) {
    if (comma)
        sb.append(',');
    sb.append(TARGET);
}

actions = result = sb.toString();
}

return result;
}

/**
 * Returns a new { code PermissionCollection } object suitable for storing
 * { code ConfigurationPermission }s.
 *
 * @return A new { code PermissionCollection } object.
 */
public PermissionCollection newPermissionCollection() {
    return new ConfigurationPermissionCollection();
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the data, then initialize the transients
    s.defaultReadObject();
    setTransients(parseActions(actions));
final class ConfigurationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -6917638867081695839L;
    private Map<String, ConfigurationPermission> permissions;
    private boolean all_allowed;

    public ConfigurationPermissionCollection() {
        permissions = new HashMap<String, ConfigurationPermission>();
        all_allowed = false;
    }

    /*
     * Adds the specified permission to the
     * ConfigurationPermissionCollection. The key for the hash is the
     * interface name of the service.
     *
     * @param permission The ConfigurationPermission object to add.
     *
     * @exception IllegalArgumentException If the permission is not a
     * ConfigurationPermission.
     *
     * @exception SecurityException If this ConfigurationPermissionCollection
public void add(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }

    if (isReadOnly())
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");

    final ConfigurationPermission cp = (ConfigurationPermission) permission;
    final String name = cp.getName();
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        final ConfigurationPermission existing = pc.get(name);
        if (existing != null) {
            final int oldMask = existing.action_mask;
            final int newMask = cp.action_mask;
            if (oldMask != newMask) {
                pc.put(name, new ConfigurationPermission(name, oldMask | newMask));
            } else {
                pc.put(name, cp);
            }
        } else {
            pc.put(name, cp);
        }

        if (!all_allowed) {
            if (name.equals("*")) {
                all_allowed = true;
            }
        }
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in [@code permission].
 *
 * @param permission The Permission object to compare with this
 * [@code ConfigurationPermission] object.
 * @return [@code true] if [@code permission] is a proper subset of a
 * permission in the set; [@code false] otherwise.
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        return false;
    }

    final ConfigurationPermission requested = (ConfigurationPermission) permission;
int effective = ConfigurationPermission.ACTION_NONE;

Collection<ConfigurationPermission> perms;
synchronized (this) {
    Map<String, ConfigurationPermission> pc = permissions;
    /* short circuit if the "*" Permission was added */
    if (all_allowed) {
        ConfigurationPermission cp = pc.get("*");
        if (cp != null) {
            effective |= cp.action_mask;
            final int desired = requested.action_mask;
            if ((effective & desired) == desired) {
                return true;
            }
        }
    }
    perms = pc.values();
    /* iterate one by one over permissions */
    for (ConfigurationPermission perm : perms) {
        if (perm.implies0(requested, effective)) {
            return true;
        }
    }
    return false;
}

/**
 * Returns an enumeration of all ConfigurationPermission objects in
 * the container.
 *
 * @return Enumeration of all ConfigurationPermission objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("hasElement", Boolean.TYPE),
    new ObjectStreamField("permissions", HashMap.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("hasElement", false);
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
}
out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
ObjectInputStream.GetField gfields = in.readFields();
boolean hasElement = gfields.get("hasElement", false);
if (hasElement) { // old format
permissions = new HashMap<String, ConfigurationPermission>();
permissions.put("*", new ConfigurationPermission("*", ConfigurationPermission.CONFIGURE));
all_allowed = true;
} else {
permissions = (HashMap<String, ConfigurationPermission>) gfields.get("permissions", new HashMap<String, ConfigurationPermission>());
all_allowed = gfields.get("all_allowed", false);
}
}

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*/

package org.osgi.service.component.annotations;

/**
 * Configuration Policy for the [@link Component] annotation.
 * Controls whether component configurations must be satisfied depending on the presence of a corresponding Configuration object in the OSGi Configuration Admin service. A corresponding configuration is a Configuration object where the PID is the name of the component.
 */

@org.osgi.annotation.versioning.Since(1.1)
public enum ConfigurationPolicy {
    /**
     * Use the corresponding Configuration object if present but allow the
     * component to be satisfied even if the corresponding Configuration object
     * is not present.
     */
    OPTIONAL("optional"),

    /**
     * There must be a corresponding Configuration object for the component
     * configuration to become satisfied.
     */
    REQUIRE("require"),

    /**
     * Always allow the component configuration to be satisfied and do not use
     * the corresponding Configuration object even if it is present.
     */
    IGNORE("ignore"),

    private final String value;

    ConfigurationPolicy(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }
}

package org.osgi.service.component.annotations;

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
/**
 * Policy for the {@link Reference} annotation.
 *
 * @author $Id: 835125670fa25ca1205beacabb2d4cfa5896fd4 $
 */

public enum ReferencePolicy {

    /**
     * The static policy is the most simple policy and is the default policy. A
     * component instance never sees any of the dynamics. Component
     * configurations are deactivated before any bound service for a reference
     * having a static policy becomes unavailable. If a target service is
     * available to replace the bound service which became unavailable, the
     * component configuration must be reactivated and bound to the replacement
     * service.
     */
    STATIC("static"),

    /**
     * The dynamic policy is slightly more complex since the component
     * implementation must properly handle changes in the set of bound services.
     * With the dynamic policy, SCR can change the set of bound services without
     * deactivating a component configuration. If the component uses the event
     * strategy to access services, then the component instance will be notified
     * of changes in the set of bound services by calls to the bind and unbind
     * methods.
     */
    DYNAMIC("dynamic"),

    private final String value;

    ReferencePolicy(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }

    private final String value;

    ReferencePolicy(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }

    /*
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     */
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* limitations under the License.
*/

package org.osgi.service.component.annotations;

/**
 * Policy option for the [@link Reference] annotation.
 *
 * @author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $
 * @since 1.2
 */
public enum ReferencePolicyOption {

    RELUCTANT("reluctant"),

    GREEDY("greedy");

    private final String value;

    ReferencePolicyOption(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }

    private final String value;

    ReferencePolicyOption(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }
package org.osgi.service.coordinator;

import java.io.IOException;
import java.io.NotSerializableException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.AccessController;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Bundle;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * A bundle's authority to create or use a {@link Coordination}.
 * 
 * <p>
 * [code CoordinationPermission] has three actions: [code initiate],
 * [code participate] and [code admin].
 */
public final class CoordinationPermission extends BasicPermission {

    private static final long serialVersionUID = 1L;

    /**
     * The action string @code initiate
     */
    public final static String INITIATE = "initiate";

    /**
     * The action string @code participate
     */
    public final static String PARTICIPATE = "participate";

    /**
     * The action string @code admin
     */
    public final static String ADMIN = "admin";

    private final static int ACTION_INITIATE = 0x00000001;
    private final static int ACTION_PARTICIPATE = 0x00000002;
    private final static int ACTION_ADMIN = 0x00000004;
    private final static int ACTION_ALL = ACTION_INITIATE | ACTION_PARTICIPATE | ACTION_ADMIN;
    final static int ACTION_NONE = 0;

    /**
     * The actions mask.
     */
    transient int action_mask;

    /**
     * The actions in canonical form.
     * @serial
     */
    private volatile String actions = null;

    /**
     * The bundle used by this CoordinationPermission.
     */
    transient final Bundle bundle;

    /**
     * If this CoordinationPermission was constructed with a filter, this holds
     * a Filter matching object used to evaluate the filter in implies.
     */
    transient Filter filter;
/**
 * This map holds the properties of the permission, used to match a filter
 * in implies. This is not initialized until necessary, and then cached in
 * this object.
 */
private transient volatile Map<String, Object> properties;

/**
 * Creates a new granted CoordinationPermission object.
 *
 * This constructor must only be used to create a permission that is going
 * to be checked.
 *
 * Examples:
 *
 * (coordination.name=com.acme.*)
 * (&(signer=*,o=ACME,c=US)(coordination.name=com.acme.*))
 * (signer=\*,o=ACME,c=US)
 *
 * When a signer key is used within the filter expression the signer value
 * must escape the special filter chars ('*', '(', ')').
 *
 * The name is specified as a filter expression. The filter gives access to
 * the following attributes:
 *
 * signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.
 *
 * location - The location of the exporting bundle.
 *
 * id - The bundle ID of the exporting bundle.
 *
 * name - The symbolic name of the exporting bundle.
 *
 * coordination.name - The name of the requested coordination.
 *
 * Filter attribute names are processed in a case sensitive manner.
 *
 * @param filter A filter expression. Filter attribute names are processed
 * in a case sensitive manner. A special value of "*" can be
 * used to match all coordinations.
 *
 * @param actions [admin], [initiate] or [participate]
 * (canonical order).
 *
 * @throws IllegalArgumentException If the filter has an invalid syntax.
 */

public CoordinationPermission(String filter, String actions) {
    this(parseFilter(filter), parseActions(actions));
}
public CoordinationPermission(String coordinationName, Bundle coordinationBundle, String actions) {
    super(coordinationName);
    setTransients(null, parseActions(actions));
    this.bundle = coordinationBundle;
    if (coordinationName == null) {
        throw new NullPointerException("coordinationName must not be null");
    }
    if (coordinationBundle == null) {
        throw new NullPointerException("coordinationBundle must not be null");
    }
}

CoordinationPermission(Filter filter, int mask) {
    super((filter == null) ? "*" : filter.toString());
    setTransients(filter, mask);
    this.bundle = null;
}

private void setTransients(Filter filter, int mask) {
    this.filter = filter;
    // Other code...
}
if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {  
throw new IllegalArgumentException("invalid action string");  
}
this.action_mask = mask;

/**
 * Parse action string into action mask.
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 4 && (a[i - 4] == 'a' || a[i - 4] == 'A')
            && (a[i - 3] == 'd' || a[i - 3] == 'D')
            && (a[i - 2] == 'm' || a[i - 2] == 'M')
            && (a[i - 1] == 'i' || a[i - 1] == 'I')
            && (a[i] == 'n' || a[i] == 'N')) {
            matchlen = 5;
            mask |= ACTION_ADMIN;
        }
        else
            if (i >= 7 && (a[i - 7] == 'i' || a[i - 7] == 'I')
                && (a[i - 6] == 'h' || a[i - 6] == 'H')
                && (a[i - 5] == 'o' || a[i - 5] == 'O')
                && (a[i - 4] == 'o' || a[i - 4] == 'O')
                && (a[i - 3] == 'h' || a[i - 3] == 'H')
                && (a[i - 2] == 'm' || a[i - 2] == 'M')
                && (a[i - 1] == 'a' || a[i - 1] == 'A')
                && (a[i] == 'n')
            mask |= ACTION_ADMIN;
        }
&& (a[i - 6] == 'n' || a[i - 6] == 'N')
&& (a[i - 5] == 'i' || a[i - 5] == 'I')
&& (a[i - 4] == 't' || a[i - 4] == 'T')
&& (a[i - 3] == 'i' || a[i - 3] == 'I')
&& (a[i - 2] == 'a' || a[i - 2] == 'A')
&& (a[i - 1] == 't' || a[i - 1] == 'T')
&& (a[i] == 'e' || a[i] == 'E')) {
    matchlen = 8;
    mask |= ACTION_INITIATE;
}
else {
    if (i >= 10 && (a[i - 10] == 'p' || a[i - 10] == 'P')
&& (a[i - 9] == 'a' || a[i - 9] == 'A')
&& (a[i - 8] == 'r' || a[i - 8] == 'R')
&& (a[i - 7] == 't' || a[i - 7] == 'T')
&& (a[i - 6] == 'i' || a[i - 6] == 'I')
&& (a[i - 5] == 'c' || a[i - 5] == 'C')
&& (a[i - 4] == 'i' || a[i - 4] == 'I')
&& (a[i - 3] == 'p' || a[i - 3] == 'P')
&& (a[i - 2] == 'a' || a[i - 2] == 'A')
&& (a[i - 1] == 't' || a[i - 1] == 'T')
&& (a[i] == 'e' || a[i] == 'E')) {
        matchlen = 11;
        mask |= ACTION_PARTICIPATE;
    } else {
        // parse error
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
}

// make sure we didn't just match the tail of a word
// like "ackbarfadmin". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',' :
        seencomma = true;
    /* FALLTHROUGH */
    case ' ' :
    case '' :
    case '
' :
    case '' :
    case '	' :
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
// point i at the location of the comma minus one (or -1).
i -= matchlen;
}

if (seencomma) {
throw new IllegalArgumentException("invalid permission: " + actions);
}

return mask;
}

/**
 * Parse filter string into a Filter object.
 *
 * @param filterString The filter string to parse.
 * @return a Filter for this bundle.
 * @throws IllegalArgumentException If the filter syntax is invalid.
 */
private static Filter parseFilter(String filterString) {
    filterString = filterString.trim();
    if (filterString.equals("*")) {
        return null;
    }
    try {
        return FrameworkUtil.createFilter(filterString);
    } catch (InvalidSyntaxException e) {
        IllegalArgumentException iae = new IllegalArgumentException("invalid filter");
        iae.initCause(e);
        throw iae;
    }
}

/**
 * Determines if the specified permission is implied by this object.
 *
 * This method checks that the filter of the target is implied by the
 * coordination name of this object. The list of
 * {CoordinationPermission} actions must either match or allow for the
 * list of the target object to imply the target
 * {CoordinationPermission} action.
 *
 * @param p The requested permission.
 * @param p The requested permission.
 */
@return {@code true} if the specified permission is implied by this object; {@code false} otherwise.

public boolean implies(Permission p) {
    if (!(p instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission requested = (CoordinationPermission) p;
    if (bundle != null) {
        return false;
    }
    // if requested permission has a filter, then it is an invalid argument
    if (requested.filter != null) {
        return false;
    }
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission collection implies methods.
 *
 * @param requested The requested CoordinationPermission which has already been validated as a proper argument. The requested CoordinationPermission must not have a filter expression.
 * @param effective The effective actions with which to start.
 * @return {@code true} if the specified permission is implied by this object; {@code false} otherwise.
 */
boolean implies0(CoordinationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    /* Get filter */
    Filter f = filter;
    if (f == null) {
        // it's "*"
        return true;
    }
    return f.matches(requested.getProperties());
}

/**
 * Returns the canonical string representation of the
 * {CoordinationPermission} actions.
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_ADMIN) == ACTION_ADMIN) {
            sb.append(ADMIN);
            comma = true;
        }

        if ((mask & ACTION_INITIATE) == ACTION_INITIATE) {
            if (comma)
                sb.append(',');
            sb.append(INITIATE);
            comma = true;
        }

        if ((mask & ACTION_PARTICIPATE) == ACTION_PARTICIPATE) {
            if (comma)
                sb.append(',');
            sb.append(PARTICIPATE);
            comma = true;
        }

        actions = result = sb.toString();
    }
    return result;
}

/**
 * Returns a new [PermissionCollection] object suitable for storing
 * [CoordinationPermission] objects.
 * @return A new [PermissionCollection] object.
 */
public PermissionCollection newPermissionCollection() {
    return new CoordinationPermissionCollection();
}
/**
 * Determines the equality of two `CoordinationPermission` objects.
 * This method checks that specified permission has the same name and
 * `CoordinationPermission` actions as this
 * `CoordinationPermission` object.
 *
 * @param obj The object to test for equality with this
 *     `CoordinationPermission` object.
 * @return `true` if `obj` is a `CoordinationPermission`,
 *         and has the same name and actions as this
 *         `CoordinationPermission` object; `false` otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission cp = (CoordinationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName()) && ((bundle == cp.bundle) ||
    ((bundle != null) && bundle.equals(cp.bundle)));
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    if (bundle != null) {
        h = 31 * h + bundle.hashCode();
    }
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    if (bundle != null) {
        throw new NotSerializableException("cannot serialize");
    }
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseFilter(getName()), parseActions(actions));
}

/**
 * Called by { @link CoordinationPermission#implies(Permission) }. This method
 * is only called on a requested permission which cannot have a filter set.
 *
 * @return a map of properties for this permission.
 */
private Map<String, Object> getProperties() {
    Map<String, Object> result = properties;
    if (result != null) {
        return result;
    }
    final Map<String, Object> map = new HashMap<String, Object>(5);
    map.put("coordination.name", getName());
    if (bundle != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
            public Object run() {
                map.put("id", new Long(bundle.getBundleId()));
                map.put("location", bundle.getLocation());
                String name = bundle.getSymbolicName();
                if (name != null) {
                    map.put("name", name);
                }
                SignerProperty signer = new SignerProperty(bundle);
                if (signer.isBundleSigned()) {
                    map.put("bundleSigned");
                }
            }
        });
        return map;
    }
    return null;
}
/**
 * Package private class used for filter matching on signer key during filter
 * expression evaluation in the permission implies method.
 *
 * @Immutable
 */
final class SignerProperty {
    private final Bundle bundle;
    private final String pattern;

    /**
     * String constructor used by the filter matching algorithm to construct a
     * SignerProperty from the attribute value in a filter expression.
     *
     * @param pattern Attribute value in the filter expression.
     */
    public SignerProperty(String pattern) {
        this.pattern = pattern;
        this.bundle = null;
    }

    /**
     * Used by the permission implies method to build the properties for a
     * filter match.
     *
     * @param bundle The bundle whose signers are to be matched.
     */
    SignerProperty(Bundle bundle) {
        this.bundle = bundle;
        this.pattern = null;
    }

    /**
     * Used by the filter matching algorithm. This methods does NOT satisfy the
     * normal equals contract. Since the class is only used in filter expression
     * evaluations, it only needs to support comparing an instance created with
     * a Bundle to an instance created with a pattern string from the filter
     * expression.
     *
     * @param o SignerProperty to compare against.
     * @return true if the DN name chain matches the pattern.
     */

public boolean equals(Object o) {
    if (!(o instanceof SignerProperty))
        return false;
    SignerProperty other = (SignerProperty) o;
    Bundle matchBundle = bundle != null ? bundle : other.bundle;
    String matchPattern = bundle != null ? other.pattern : pattern;
    Map<X509Certificate, List<X509Certificate>> signers =
        matchBundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    for (List<X509Certificate> signerCerts : signers.values()) {
        List<String> dnChain = new ArrayList<String>(signerCerts.size());
        for (X509Certificate signerCert : signerCerts) {
            dnChain.add(signerCert.getSubjectDN().getName());
        }
        try {
            if (FrameworkUtil.matchDistinguishedNameChain(matchPattern, dnChain)) {
                return true;
            }
        } catch (IllegalArgumentException e) {
                continue; // bad pattern
        }
    }
    return false;
}

/**
 * Since the equals method does not obey the general equals contract, this
 * method cannot generate hash codes which obey the equals contract.
 */
public int hashCode() {
    return 31;
}

/**
 * Check if the bundle is signed.
 * @return true if constructed with a bundle that is signed.
 */
boolean isBundleSigned() {
    if (bundle == null) {
        return false;
    }
    Map<X509Certificate, List<X509Certificate>> signers =
        bundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    return !signers.isEmpty();
}
/**
 * Stores a set of CoordinationPermission permissions.
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */

final class CoordinationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -3350758995234427603L;

    /* Collection of permissions. */
    * @serial
    * @GuardedBy this
    */
    private Map<String, CoordinationPermission> permissions;

    /* Boolean saying if "*" is in the collection. */
    * @serial
    * @GuardedBy this
    */
    private boolean all_allowed;

    /* Create an empty CoordinationPermissions object. */
    */
    public CoordinationPermissionCollection() {
        permissions = new HashMap<String, CoordinationPermission>();
        all_allowed = false;
    }

    /* Adds a permission to this permission collection. */
    * @param permission The CoordinationPermission object to add.
    * @throws IllegalArgumentException If the specified permission is not a CoordinationPermission instance or was constructed with a Bundle object.
    * @throws SecurityException If this CoordinationPermissionCollection object has been marked read-only.
    */
    public void add(final Permission permission) {
        if (!(permission instanceof CoordinationPermission)) {
            throw new IllegalArgumentException("invalid permission: " + permission);
        }
    }
}
if (isReadOnly()) {
    throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
}

final CoordinationPermission cp = (CoordinationPermission) permission;
if (cp.bundle != null) {
    throw new IllegalArgumentException("cannot add to collection: " + cp);
}

final String name = cp.getName();
synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    final CoordinationPermission existing = pc.get(name);
    if (existing != null) {
        final int oldMask = existing.action_mask;
        final int newMask = cp.action_mask;
        if (oldMask != newMask) {
            pc.put(name, new CoordinationPermission(existing.filter, oldMask | newMask));
        }
    } else {
        pc.put(name, cp);
    }
}

if (!all_allowed) {
    if (name.equals("**")) {
        all_allowed = true;
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in { @code permission }.
 *
 * @param permission The Permission object to compare with this
 * { @code CoordinationPermission } object.
 * @return { @code true } if { @code permission } is a proper subset of a
 * permission in the set; { @code false } otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        return false;
    }
    final CoordinationPermission requested = (CoordinationPermission) permission;
    /* if requested permission has a filter, then it is an invalid argument */

if (requested.filter != null) {
    return false;
}

int effective = CoordinationPermission.ACTION_NONE;

Collection<CoordinationPermission> perms;
synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    /* short circuit if the "*" Permission was added */
    if (all_allowed) {
        CoordinationPermission cp = pc.get("*");
        if (cp != null) {
            effective |= cp.action_mask;
            final int desired = requested.action_mask;
            if ((effective & desired) == desired) {
                return true;
            }
        }
    }
    perms = pc.values();
}
/* iterate one by one over filteredPermissions */
for (CoordinationPermission perm : perms) {
    if (perm.implies0(requested, effective)) {
        return true;
    }
}
return false;

/**
 * Returns an enumeration of all @code CoordinationPermission} objects in
 * the container.
 * *
 * @return Enumeration of all @code CoordinationPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", HashMap.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
pfields.put("permissions", permissions);
pfields.put("all_allowed", all_allowed);
out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
ObjectInputStream.GetField gfields = in.readFields();
permissions = (HashMap<String, CoordinationPermission>) gfields.get("permissions", null);
all_allowed = gfields.get("all_allowed", false);
}

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/***************************************************************************/

package org.osgi.service.deploymentadmin.spi;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;
import org.osgi.service.deploymentadmin.DeploymentAdminPermission;

/**
 * The { @code DeploymentCustomizerPermission} permission gives the right to
 * Resource Processors to access a bundle's (residing in a Deployment Package)
 * private area. The bundle and the Resource Processor (customizer) have to be
 * in the same Deployment Package.
 * *
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
 */
* [link DeploymentSession#getDataFile(Bundle)] method during the session (see
* [link DeploymentSession]). After the session ends the FilePermissions are
* withdrawn. The Resource Processor will have [code FilePermission] with
* "read", "write" and "delete" actions for the returned [link java.io.File]
* that represents the the base directory of the persistent storage area and for
* its subdirectories.
* <p>
* * The actions string is converted to lowercase before processing.
*/

```
public class DeploymentCustomizerPermission extends Permission {

/**
* Constant String to the "privatearea" action.
*/
public static final String PRIVATEAREA = "privatearea";

private static final long serialVersionUID = 1L;

/**
* Creates a new [code DeploymentCustomizerPermission] object for the given
* [code name] and [code action].
* <p>
* * The name parameter is a filter string. This filter has the same syntax as
* an OSGi filter but only the "name" attribute is allowed. The value of the
```
* attribute is a Bundle Symbolic Name that represents a bundle. The only
* allowed action is the "privatearea" action. E.g.
*<pre>
* Permission perm = new DeploymentCustomizerPermission(
*     &quot;(name=com.acme.bundle)&quot;, &quot;privatearea&quot;);
*</pre>
* The Resource Processor that has this permission is allowed to access the
* bundle's private area by calling the
* {@link DeploymentSession#getDataFile(Bundle)} method. The Resource
* Processor will have {@code FilePermission} with "read", "write" and
* "delete" actions for the returned {@link java.io.File} and its
* subdirectories during the deployment session.
*
* @param name Bundle Symbolic Name of the target bundle, must not be
*        null.
* @param actions action string (only the "privatearea" or "*" action is
*        valid; "*" means all the possible actions), must not be
*        null.
* @throws IllegalArgumentException if the filter is invalid, the list of
*         actions contains unknown operations or one of the parameters is
*         null
*/
public DeploymentCustomizerPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
        } catch (Error e) {
            throw e;
        } catch (RuntimeException e) {
            throw e;
        } catch (Throwable e) {
            throw new RuntimeException(e);
        }
    }

    /**
     * Checks two DeploymentCustomizerPermission objects for equality. Two
     * permission objects are equal if:
     * <p>
     * <ul>
     * <li>their target filters are equal (semantically and not character by
* character) and
* * their actions are the same
* </ul>
*
* @param obj the reference object with which to compare.
* @return true if the two objects are equal.
* @see java.lang.Object#equals(java.lang.Object)
*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) obj;
    return delegate.equals(dcp.delegate);
}

/**
 * Returns hash code for this permission object.
 *
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
*/
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 *
 * @return Action list of this permission instance. It is always
 *         "privatearea".
 * @see java.security.Permission#getActions()
*/
public String getActions() {
    return delegate.getActions();
}

/**
 * Checks if this DeploymentCustomizerPermission would imply the parameter
 * permission. This permission implies another
 * DeploymentCustomizerPermission permission if:
 *
 * <ul>
 * <li>both of them has the "privatearea" action (other actions are not
 * allowed) and</li>
 * <li>their filters (only name attribute is allowed in the filters) match
 * similarly to { @link DeploymentAdminPermission}.</li>
 */
The value of the name attribute means Bundle Symbolic Name and not Deployment Package Symbolic Name here!

```java
/**
 * Returns a new PermissionCollection object for storing DeploymentCustomizerPermission objects.
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}
```

```java
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentCustomizerPermission))
        return false;

    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) permission;

    return delegate.implies(dcp.delegate);
}
```

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/*
package org.osgi.service.deploymentadmin;

import java.io.InputStream;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**
 * DeploymentAdminPermission controls access to the Deployment Admin service.
 * <p>
 * The permission uses a filter string formatted similarly to the
 * {@link org.osgi.framework.Filter}. The filter determines the target of the
 * permission. The { @code DeploymentAdminPermission} uses the { @code name} and
 * the { @code signer} filter attributes only. The value of the { @code signer}
 * attribute is matched against the signer chain (represented with its semicolon
 * separated Distinguished Name chain) of the Deployment Package, and the value
 * of the { @code name} attribute is matched against the value of the
 * "DeploymentPackage-Name" manifest header of the Deployment Package. Example:
 * <ul>
 * <li>(signer=cn = Bugs Bunny, o = ACME, c = US)</li>
 * <li>(name=org.osgi.ExampleApp)</li>
 * </ul>
 * <p>
 * Wildcards also can be used:
 * <pre>
 * (signer=cn=*,o=ACME,c=*)
 * </pre>
 * <p>
 * "cn" and "c" may have an arbitrary value
 * <pre>
 * (signer=*, o=ACME, c=US)
 * </pre>
 * <p>
 * Only the value of "o" and "c" are significant
 * <pre>
 * (signer=* ; ou=S &amp; V, o=Tweety Inc., c=US)
 * </pre>
 * <p>
 */
* The first element of the certificate chain is not important, only the second
  * (the Distinguished Name of the root certificate)
*  
  * <pre>
  * (signer=- ; *, o=Tweety Inc., c=US)
  * </pre>
*  
* The same as the previous but `-` represents zero or more certificates,
  * whereas the asterisk only represents a single certificate
*  
  * <pre>
  * (name=* )
  * </pre>
*  
* The name of the Deployment Package doesn't matter
*  
  * <pre>
  * (name=org.osgi.*)
  * </pre>
*  
* The name has to begin with "org.osgi."
*  
  * <p>
  * The following actions are allowed:
*  
  * <b>list</b>
*  
  * <p>
  * A holder of this permission can access the inventory information of the
  * deployment packages selected by the &lt;filter&gt; string. The filter selects
  * the deployment packages on which the holder of the permission can acquire
  * detailed inventory information. See
*  
  * [ @link DeploymentAdmin#getDeploymentPackage(Bundle) ],
*  
  * [ @link DeploymentAdmin#getDeploymentPackage(String) ] and
*  
  * [ @link DeploymentAdmin#listDeploymentPackages ].
*  
  * <p>
  *  
  * <b>install</b>
*  
  * <p>
  * A holder of this permission can install/update deployment packages if the
  * deployment package satisfies the &lt;filter&gt; string. See
*  
  * [ @link DeploymentAdmin#installDeploymentPackage ].
*  
  * <p>
  *  
  * <b>uninstall</b>
*  
  * <p>
* A holder of this permission can uninstall deployment packages if the
deployment package satisfies the &lt;filter&gt; string. See
* [&@link DeploymentPackage#uninstall()].
* 
* 
* &lt;b&gt;uninstall_forced&lt;/b&gt;
* 
* 
* A holder of this permission can forcefully uninstall deployment packages if
* the deployment package satisfies the &lt;filter&gt; string. See
* [&@link DeploymentPackage#uninstallForced()].
* 
* 
* &lt;b&gt;cancel&lt;/b&gt;
* 
* 
* A holder of this permission can cancel an active deployment action. This
* action being canceled could correspond to the install, update or uninstall of
* a deployment package that satisfies the &lt;filter&gt; string. See
* [&@link DeploymentAdmin#cancel()]
* 
* 
* &lt;b&gt;metadata&lt;/b&gt;
* 
* 
* A holder of this permission is able to retrieve metadata information about a
* Deployment Package (e.g. is able to ask its manifest headers). See
* [&@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)],
* [&@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()],
* [&@link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)],
* [&@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)],
* [&@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)], [&@link
* org.osgi.service.deploymentadmin.DeploymentPackage#getResources()]
* 
* 
* The actions string is converted to lower case before processing.
* */

public final class DeploymentAdminPermission extends Permission {

/**
 * 
*/

private static final long serialVersionUID = 1L:

/**
 * Constant String to the "install" action.
 * 
*/


* @see DeploymentAdmin#installDeploymentPackage(InputStream)
*/
public static final String INSTALL = "install";

/**
 * Constant String to the "list" action.
 * <p>
 * @see DeploymentAdmin#listDeploymentPackages()
 * @see DeploymentAdmin#getDeploymentPackage(String)
 * @see DeploymentAdmin#getDeploymentPackage(Bundle)
 */
public static final String LIST = "list";

/**
 * Constant String to the "uninstall" action.
 * <p>
 * @see DeploymentPackage#uninstall()
 */
public static final String UNINSTALL = "uninstall";

/**
 * Constant String to the "uninstall_forced" action.
 * <p>
 * @see DeploymentPackage#uninstallForced()
 */
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
 * Constant String to the "cancel" action.
 * <p>
 * @see DeploymentAdmin#cancel()
 */
public static final String CANCEL = "cancel";

/**
 * Constant String to the "metadata" action.
 * <p>
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
 */
public static final String METADATA = "metadata";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property "+delegateProperty+" is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentAdminPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new {code DeploymentAdminPermission} object for the given
 * {code name} and {code action}.
 * <p>
 * The {code name} parameter identifies the target deployment package the
 * permission relates to. The {code actions} parameter contains the comma
 * separated list of allowed actions.
 * <p>
 * @param name filter string, must not be null.
 * @param actions action string, must not be null. "+" means all the
 * possible actions.
 * @throws IllegalArgumentException if the filter is invalid, the list of
 * actions contains unknown operations or one of the parameters is
 * null
 */
public DeploymentAdminPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    }
}
try {
    throw e;
} catch (RuntimeException e) {
    throw e;
} catch (Throwable e) {
    throw new RuntimeException(e);
}  
*/

/**
 * Checks two DeploymentAdminPermission objects for equality. Two permission
 * objects are equal if:
 * <p>
 * <ul>
 * <li>their target filters are semantically equal and</li>
 * <li>their actions are the same</li>
 * </ul>
 * <p>
 * @param obj The reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) obj;
    return delegate.equals(dap.delegate);
}

/**
 * Returns hash code for this permission object.
 *
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * <p>
 * The method always gives back the actions in the following (alphabetical)
 * order:
 * [<code>cancel, install, list, metadata, uninstall, uninstall_forced</code>]
 * 
 * @return Action list of this permission instance. This is a
comma-separated list that reflects the action parameter of the constructor.

@see java.security.Permission#getActions()

public String getActions()
{
    return delegate.getActions();
}

/**
 * Checks if this DeploymentAdminPermission would imply the parameter permission.
 * Precondition of the implication is that the action set of this permission is the superset of the action set of the other permission. Further rules of implication are determined by the [ @link org.osgi.framework.Filter ] rules and the "OSGi Service Platform, Core Specification Release 4, Chapter Certificate Matching".
 * The allowed attributes are: [ @code name ] (the symbolic name of the deployment package) and [ @code signer ] (the signer of the deployment package). In both cases wildcards can be used.
 * Examples:
 *
 * <pre>
 *  1. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list")
 *  2. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list, install")
 *  3. DeploymentAdminPermission("(name=org.osgi.*)", "list")
 *  4. DeploymentAdminPermission("(signer=*, o=ACME, c=US)", "list")
 *  5. DeploymentAdminPermission("(signer=cn=Bugs Bunny, o=ACME, c=US)", "list")
 * </pre>
 * <p>
 *
 * <pre>
 *  1. implies 1.
 *  2. implies 1.
 *  1. doesn't implies 2.
 *  3. implies 1.
 *  4. implies 5.
 * </pre>
 *
 * @param permission Permission to check.
 * @return true if this DeploymentAdminPermission object implies the specified permission.
 * @see java.security.Permission#implies(java.security.Permission)
 * @see org.osgi.framework.Filter
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentAdminPermission))
        return false;

    DeploymentAdminPermission dap = (DeploymentAdminPermission) permission;
    return delegate.implies(dap.delegate);
}

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentAdminPermission objects.
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}

} /*
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* limitations under the License.
*/
package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
* Indicates the callers authority to send alerts to management servers,
* identified by their principal names.
* <p>
* {[@code AlertPermission]} has a target string which controls the principal
* names where alerts can be sent. A wildcard is allowed at the end of the
* target string, to allow sending alerts to any principal with a name matching
* the given prefix. The &quot;*&quot; target means that alerts can be sent to
* any destination.
* 
* @author $Id: c6a01d2c5e33287b1fd6bf40fedca908e9ddd072 $
* / 
public class AlertPermission extends Permission {
private static final long serialVersionUID = -3206463101788245739L;

// specifies whether the target string had a wildcard at the end
private final boolean isPrefix;

// the target string without the wildcard (if there was one)
private final String serverId;

/**
 * Creates a new {[@code AlertPermission]} object with its name set to the
 * target string. Name must be non-null and non-empty.
 * 
 * @param target the name of a principal, can end with {[@code *]} to match
 * any principal identifier with the given prefix
 * @throws NullPointerException if {[@code name]} is {[@code null]}
 * @throws IllegalArgumentException if {[@code name]} is empty
 */
public AlertPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(""))
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        serverId = target.substring(0, target.length() - 1);
    else
        serverId = target;
}

/**
 * Creates a new {[@code AlertPermission]} object using the 'canonical' two
 * argument constructor. In this version this class does not define any
* actions, the second argument of this constructor must be "*" so that this
* class can later be extended in a backward compatible way.
*
* @param target the name of the server, can end with {@code *} to match any
* server identifier with the given prefix
* @param actions no actions defined, must be "*" for forward compatibility
* @throws NullPointerException if {@code name} or {@code actions} is
*    {@code null}
* @throws IllegalArgumentException if {@code name} is empty or
*    {@code actions} is not "*"
 */
public AlertPermission(String target, String actions) {
   this(target);
   if (actions == null)
      throw new NullPointerException("'actions' parameter must not be null.");
   if (!actions.equals("*"))
      throw new IllegalArgumentException("'actions' parameter must be \"*\".");
}

/**
* Checks whether the given object is equal to this AlertPermission
* instance. Two AlertPermission instances are equal if they have the same
* target string.
*
* @param obj the object to compare to this AlertPermission instance
* @return {@code true} if the parameter represents the same permissions as
*    this instance
*/
public boolean equals(Object obj) {
   if (obj == this)
      return true;
   if (!obj instanceof AlertPermission)
      return false;
   AlertPermission other = (AlertPermission) obj;
   return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
* Returns the action list (always {@code *}) in the current version).
*
* @return the action string "*
*/
public String getActions() {

return "*";
}

/**
 * Returns the hash code for this permission object. If two AlertPermission
 * objects are equal according to the {@link #equals(Object)} method, then
 * calling this method on each of the two AlertPermission objects must
 * produce the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
return new Boolean(isPrefix).hashCode() ^ serverId.hashCode();
}

/**
 * Checks if this AlertPermission object implies the specified permission.
 * Another AlertPermission instance is implied by this permission either if
 * the target strings are identical, or if this target can be made identical
 * to the other target by replacing a trailing "*" with any
 * string.
 *
 * @param p the permission to check for implication
 * @return true if this AlertPermission instance implies the specified
 *         permission
 */
public boolean implies(Permission p) {
if (!(p instanceof AlertPermission))
return false;

AlertPermission other = (AlertPermission) p;

return impliesServer(other);
}

/**
 * Returns a new PermissionCollection object for storing AlertPermission
 * objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
return new DmtAlertPermissionCollection();
}

/**
 * Returns true if the server name parameter of the given AlertPermission is
 * implied by the server name of this permission, i.e. this server name is a
boolean impliesServer(AlertPermission p) {
    return isPrefix ? p.serverId.startsWith(serverId) : !p.isPrefix && p.serverId.equals(serverId);
}
}

/**
* Represents a homogeneous collection of AlertPermission objects.
*/
final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;
    private ArrayList perms;

    /**
     * Create an empty DmtAlertPermissionCollection object.
     */
    public DmtAlertPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtAlertPermissionCollection.
     *
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a AlertPermission
     * @exception SecurityException if this DmtAlertPermissionCollection object has been marked readonly
     */
    public void add(Permission permission) {
        if (!(permission instanceof AlertPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");
        // only add new permission if it is not already implied by the permissions in the collection
        if (!implies(permission)) {
            // remove all permissions that are implied by the new one
            Iterator i = perms.iterator();
            while (i.hasNext())
                if (permission.implies((AlertPermission) i.next()))
                    i.remove();
        }
    }
}
// before any implies() calls
perms.add(permission);

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof AlertPermission))
        return false;
    AlertPermission other = (AlertPermission) permission;
    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((AlertPermission) i.next()).impliesServer(other))
            return true;
    return false;
}

/**
 * Returns an enumeration of all the AlertPermission objects in the
 * container. The returned value cannot be [@code null].
 *
 * @return an enumeration of all the AlertPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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* limitations under the License.
*/

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.StringTokenizer;
import org.osgi.service.dmt.Acl;
import org.osgi.service.dmt.Uri;

/**
 * Controls access to management objects in the Device Management Tree (DMT). It
 * is intended to control local access to the DMT. DmtPermission target string
 * identifies the management object URI and the action field lists the OMA DM
 * commands that are permitted on the management object. Example:
 * *
 * <pre>
 * DmtPermission("./OSGi/bundles", "Add,Replace,Get");
 * </pre>
 *
 * This means that owner of this permission can execute Add, Replace and Get
 * commands on the ./OSGi/bundles management object. It is possible to use
 * wildcards in both the target and the actions field. Wildcard in the target
 * field means that the owner of the permission can access children nodes of the
 * target node. Example:
 * *
 * <pre>
 * DmtPermission("./OSGi/bundles/*", "Get");
 * </pre>
 *
 * This means that owner of this permission has Get access on every child node
 * of ./OSGi/bundles. The asterix does not necessarily have to follow a '/'
 * character. For example the '{@code "/OSGi/a*/"}' target matches the
 * '{@code /OSGi/applications} subtree.
 * <p>
 * If wildcard is present in the actions field, all legal OMA DM commands are
 * allowed on the designated nodes(s) by the owner of the permission. Action
 * names are interpreted case-insensitively, but the canonical action string
 * returned by '{@link #getActions()} uses the forms defined by the action

* constants.
* 
* @author $Id: 5fc6f3d37c4fac64313f532ad9bd9f07bc48dc39 $ 
*/
public class DmtPermission extends Permission {
private static final long serialVersionUID = -1910969921419407809L;

/**
 * Holders of DmtPermission with the Add action present can create new nodes
 * in the DMT, that is they are authorized to execute the
 * createInteriorNode() and createLeafNode() methods of the DmtSession. This
 * action is also required for the copy() command, which needs to perform
 * node creation operations (among others).
 */
public static final String ADD = "Add";

/**
 * Holders of DmtPermission with the Delete action present can delete nodes
 * from the DMT, that is they are authorized to execute the deleteNode()
 * method of the DmtSession.
 */
public static final String DELETE = "Delete";

/**
 * Holders of DmtPermission with the Exec action present can execute nodes
 * in the DMT, that is they are authorized to call the execute() method of
 * the DmtSession.
 */
public static final String EXEC = "Exec";

/**
 * Holders of DmtPermission with the Get action present can query DMT node
 * value or properties, that is they are authorized to execute the
 * isLeafNode(), getNodeAcl(), getEffectiveNodeAcl(), getMetaNode(),
 * getNodeValue(), getChildNodeNames(), getNodeTitle(), getNodeVersion(),
 * getNodeTimeStamp(), getNodeSize() and getType() methods of the
 * DmtSession. This action is also required for the copy() command, which
 * needs to perform node query operations (among others).
 */
public static final String GET = "Get";

/**
 * Holders of DmtPermission with the Replace action present can update DMT
 * node value or properties, that is they are authorized to execute the
 * setNodeAcl(), setNodeTitle(), setNodeValue(), setType() and
 * renameNode() methods of the DmtSession. This action is also be required
 * for the copy() command if the original node had a title property (which
 * must be set in the new node).
public static final String REPLACE = "Replace";

// does this permission have a wildcard at the end?
private final boolean prefixPath;

// the name without the wildcard on the end
private final String path;

// the actions mask
private final int mask;

// the canonical action string (redundant)
private final String actions;

/**
 * Creates a new DmtPermission object for the specified DMT URI with the
 * specified actions. The given URI can be:
 * <ul>
 * <li> {@code "}*"}, which matches all valid (see
 *     [link Uri#isValidUri(String)]) absolute URIs;</li>
 * <li>the prefix of an absolute URI followed by the [@code "]*"], which matches all valid absolute URIs
 *     beginning with the given prefix;</li>
 * <li>a valid absolute URI, which matches itself.</li>
 * </ul>
 * <p>
 * Since the [@code "]*"] character is itself a valid URI character, it can
 * appear as the last character of a valid absolute URI. To distinguish this
 * case from using [@code "]*"] as a wildcard, the [@code "]*"] character at the
 * end of the URI must be escaped with the [@code "]\"] charater. For example
 * the URI [@code "]./a*"] matches [@code "]./a"], [@code "]./aa"],
 * [@code "]./a/b"] etc. while [@code "]./a\*"] matches [@code "]./a*"] only.
 * <p>
 * The actions string must either be "*" to allow all actions, or it must
 * contain a non-empty subset of the valid actions, defined as constants in
 * this class.
 * 
 * @param dmtUri URI of the management object (or subtree)
 * @param actions OMA DM actions allowed
 * @throws NullPointerException if any of the parameters are [@code null]
 * @throws IllegalArgumentException if any of the parameters are invalid
 */
public DmtPermission(String dmtUri, String actions) {
    super(dmtUri);
    mask = getMask(actions);
    this.actions = canonicalActions(mask);
}
if (dmtUri == null)
throw new NullPointerException("'dmtUri' parameter must not be " + "null.");
prefixPath = dmtUri.endsWith("*") && !dmtUri.endsWith("\\*");
if (prefixPath) {
dmtUri = dmtUri.substring(0, dmtUri.length() - 1);
// the single "*" as dmtUri is the only valid non-absolute URI param
if (dmtUri.length() == 0) {
path = "";
return;
}
}
// if URI ends with "/*", remove it before the validity check
if (prefixPath && dmtUri.endsWith("/") && !dmtUri.endsWith("\\/"))
checkUri(dmtUri.substring(0, dmtUri.length() - 1));
else
checkUri(dmtUri);
// canonicalize URI: remove escapes from non-special characters
StringBuffer sb = new StringBuffer(dmtUri);
int i = 0;
while (i < sb.length()) { // length can decrease during the loop!
if (sb.charAt(i) == '\\') {
// there must be a next character after a '\' in a valid URI
char nextCh = sb.charAt(i + 1);
if (nextCh != '/' && nextCh != '\\')
sb.deleteCharAt(i); // remove the extra '\'
else
i++;
}
i++;
}
path = sb.toString();
}
private void checkUri(String dmtUri) throws IllegalArgumentException {
if (!Uri.isValidUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain a valid URI.");
if (!Uri.isAbsoluteUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain an absolute URI.");
}
/**
* Checks whether the given object is equal to this DmtPermission instance.

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Two DmtPermission instances are equal if they have the same target string
and the same action mask. The "*" action mask is considered equal to a
mask containing all actions.

@throws IllegalArgumentException if the object to compare to this DmtPermission instance

@throws NullPointerException if the object to compare is null

public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DmtPermission))
        return false;
    DmtPermission other = (DmtPermission) obj;
    return mask == other.mask && prefixPath == other.prefixPath && path.equals(other.path);
}

/**
 * Returns the String representation of the action list. The allowed actions
 * are listed in the following order: Add, Delete, Exec, Get, Replace. The
 * wildcard character is not used in the returned string, even if the class
 * was created using the "*" wildcard.
 *
 * @return canonical action list for this permission object
 */
public String getActions() {
    return actions;
}

/**
 * Returns the hash code for this permission object. If two DmtPermission
 * objects are equal according to the \{ @link #equals(Object) \} method, then
 * calling this method on each of the two DmtPermission objects must produce
 * the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
}

/**
 * Checks if this DmtPermission object \"implies\" the specified
 * permission. This method returns \{ @code false \} if and only if at least one
 * of the following conditions are fulfilled for the specified permission:
* it is not a DmtPermission
* its set of actions contains an action not allowed by this permission
* the set of nodes defined by its path contains a node not defined by
* the path of this permission

* @param p the permission to check for implication
* @return true if this DmtPermission instance implies the specified
  * permission
*/
public boolean implies(Permission p) {
if (!(p instanceof DmtPermission))
return false;

DmtPermission other = (DmtPermission) p;
if ((mask & other.mask) != other.mask)
return false;
return impliesPath(other);
}

/**
 * Returns a new PermissionCollection object for storing DmtPermission
 * objects.
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
return new DmtPermissionCollection();
}

// parses the given action string, and returns the corresponding action mask
private static int getMask(String actions) {
int mask = 0;
if (actions == null)
throw new NullPointerException("'actions' parameter cannot be null.");
if (actions.equals("*"))
return Acl.ALL_PERMISSION;

// empty tokens (swallowed by StringTokenizer) are not considered errors
StringTokenizer st = new StringTokenizer(actions, ",");
while (st.hasMoreTokens()) {
String action = st.nextToken().trim();
if (action.equalsIgnoreCase(GET))
mask |= Acl.GET;
} else
if (action.equalsIgnoreCase(ADD)) {
    mask |= Acl.ADD;
} else
if (action.equalsIgnoreCase(REPLACE)) {
    mask |= Acl.REPLACE;
} else
if (action.equalsIgnoreCase(DELETE)) {
    mask |= Acl.DELETE;
} else
if (action.equalsIgnoreCase(EXEC)) {
    mask |= Acl.EXEC;
} else
throw new IllegalArgumentException("Invalid action '" + action + "'");
}

if (mask == 0)
throw new IllegalArgumentException("Action mask cannot be empty.");

return mask;
}

// generates the canonical string representation of the action list
private static String canonicalActions(int mask) {
    StringBuffer sb = new StringBuffer();
    addAction(sb, mask, Acl.ADD, ADD);
    addAction(sb, mask, Acl.DELETE, DELETE);
    addAction(sb, mask, Acl.EXEC, EXEC);
    addAction(sb, mask, Acl.GET, GET);
    return sb.toString();
}

// if 'flag' appears in 'mask', appends the 'action' string to the contents
// of 'sb', separated by a comma if needed
private static void addAction(StringBuffer sb, int mask, int flag, String action) {
    if ((mask & flag) != 0) {
        if (sb.length() > 0)
            sb.append(' ,');
        sb.append(action);
    }
}

// used by DmtPermissionCollection to retrieve the action mask
int getMask() {
    return mask;
}
// returns true if the path parameter of the given DmtPermission is
// implied by the path of this permission, i.e. this path is a prefix of the
// other path, but ends with a *, or the two path strings are equal
boolean impliesPath(DmtPermission p) {
return prefixPath ? p.path.startsWith(path) : !p.prefixPath && p.path.equals(path);
}

/**
 * Represents a homogeneous collection of DmtPermission objects.
 */
final class DmtPermissionCollection extends PermissionCollection {
private static final long serialVersionUID = -4172481774562012941L;

// OPTIMIZE keep a special flag for permissions of "*" path
private ArrayList perms;

/**
 * Create an empty DmtPermissionCollection object.
 */
public DmtPermissionCollection() {
perms = new ArrayList();
}

/**
 * Adds a permission to the DmtPermissionCollection.
 *
 * @param permission the Permission object to add
 * @exception IllegalArgumentException if the permission is not a
 *            DmtPermission
 * @exception SecurityException if this DmtPermissionCollection object has
 *            been marked readonly
 */
public void add(Permission permission) {
if (!(permission instanceof DmtPermission))
throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
if (isReadOnly())
throw new SecurityException("Cannot add permission, collection is marked read-only.");
perms.add(permission);
}

// No need to synchronize because all adds are done sequentially
// before any implies() calls
perms.add(permission);
}

/**
 * Check whether this set of permissions implies the permission specified in
* the parameter.
* 
* @param permission the Permission object to compare
* @return true if the parameter permission is a proper subset of the
* permissions in the collection, false otherwise
* /
public boolean implies(Permission permission) {
if (!(permission instanceof DmtPermission))
return false;

DmtPermission other = (DmtPermission) permission;

int required = other.getMask();
int available = 0;
int needed = required;

Iterator i = perms.iterator();
while (i.hasNext()) {
DmtPermission p = (DmtPermission) i.next();
if (((needed & p.getMask()) != 0) && p.impliesPath(other)) {
available |= p.getMask();
if ((available & required) == required)
return true;
needed = (required ^ available);
}
}

return false;
}

/**
* Returns an enumeration of all the DmtPermission objects in the container.
* The returned value cannot be { @code null}.
* 
* @return an enumeration of all the DmtPermission objects
* /
public Enumeration elements() {
// Convert Iterator into Enumeration
return Collections.enumeration(perms);
}
}

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*
package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to create DMT sessions on behalf of a remote
 * management server. Only protocol adapters communicating with management
 * servers should be granted this permission.
 * <p>
 * [code DmtPrincipalPermission] has a target string which controls the name of
 * the principal on whose behalf the protocol adapter can act. A wildcard is
 * allowed at the end of the target string, to allow using any principal name
 * with the given prefix. The &quot;*&quot; target means the adapter can create
 * a session in the name of any principal.
 * 
 * @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $
 * */

public class DmtPrincipalPermission extends Permission {
  private static final long serialVersionUID = 6388752177325038332L;

  // specifies whether the target string had a wildcard at the end
  private static final long serialVersionUID = 6388752177325038332L;

  // the target string without the wildcard (if there was one)
  private final String principal;

  /**
   * Creates a new [code DmtPrincipalPermission] object with its name set to
   * the target string. Name must be non-null and non-empty.
   *
   * @param target the name of the principal, can end with [code *] to match
   * any principal with the given prefix
   * @throws NullPointerException if [code name] is [code null]
   * @throws IllegalArgumentException if [code name] is empty
   */

  public DmtPrincipalPermission(String target) {
    this(target, true);
  }

  public DmtPrincipalPermission(String target, boolean isPrefix) {
    // ...
/**
 * @param target the name of the principal. can end with [*] to match
 * any principal with the given prefix
 * @param actions no actions defined, must be ["*"] for forward compatibility
 * @throws NullPointerException if [code null] or [code actions] is
 * [code null]
 * @throws IllegalArgumentException if [code name] is empty or
 * [code actions] is not [code "*"]
 */
public DmtPrincipalPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    if (!actions.equals(""))
        throw new IllegalArgumentException("'actions' parameter must be ["*"].");
}

/**
 * Checks whether the given object is equal to this DmtPrincipalPermission
 * instance. Two DmtPrincipalPermission instances are equal if they have the
 * same target string.
 * @param obj the object to compare to this DmtPrincipalPermission instance
 * @return [true] if the parameter represents the same permissions as
 */
public boolean equals(Object obj) {
    if (obj == null)
        return false;

    if (obj == this)
        return true;

    if (obj instanceof DmtPrincipalPermission)
        return equals(((DmtPrincipalPermission) obj).target, target);

    return false;
}

private boolean equals(String a, String b) {
    if (a == null)
        return (b == null);

    if (b == null)
        return false;

    return a.equals(b);
}

public boolean equals(String target) {
    return equals(target, actions);
}

public boolean equalsAnyPrincipal(String name) {
    return equals(name, actions);
}

/**
 * @throws NullPointerException if 'target' parameter must not be null.
 */
public DmtPrincipalPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(""))
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        principal = target.substring(0, target.length() - 1);
    else
        principal = target;
}
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DmtPrincipalPermission))
        return false;
    DmtPrincipalPermission other = (DmtPrincipalPermission) obj;
    return isPrefix == other.isPrefix && principal.equals(other.principal);
}

/**
 * Returns the action list (always [@code *] in the current version).
 * @return the action string ["*"][]
 */
public String getActions() {
    return "+";
}

/**
 * Returns the hash code for this permission object. If two
 * DmtPrincipalPermission objects are equal according to the
 * [ @link #equals(Object) ] method, then calling this method on each of the
 * two DmtPrincipalPermission objects must produce the same integer result.
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ principal.hashCode();
}

/**
 * Checks if this DmtPrincipalPermission object implies the specified
 * permission. Another DmtPrincipalPermission instance is implied by this
 * permission either if the target strings are identical, or if this target
 * can be made identical to the other target by replacing a trailing
 * ["*"][]; with any string.
 * @param p the permission to check for implication
 * @return true if this DmtPrincipalPermission instance implies the
 *         specified permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPrincipalPermission))
        return false;
    DmtPrincipalPermission other = (DmtPrincipalPermission) p;
    return isPrefix == other.isPrefix && principal.equals(other.principal);
return false;

DmtPrincipalPermission other = (DmtPrincipalPermission) p;

return impliesPrincipal(other);
}

/**
 * Returns a new PermissionCollection object for storing
 * DmtPrincipalPermission objects.
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPrincipalPermissionCollection();
}

/**
 * Returns true if the principal parameter of the given
 * DmtPrincipalPermission is implied by the principal of this permission,
 * i.e. this principal is a prefix of the other principal but ends with a *,
 * or the two principal strings are equal.
 */
boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
}

/**
 * Represents a homogeneous collection of DmtPrincipalPermission objects.
 */
final class DmtPrincipalPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -6692103535775802684L;

    private ArrayList perms;

    /**
     * Create an empty DmtPrincipalPermissionCollection object.
     */
    public DmtPrincipalPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtPrincipalPermissionCollection.
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
* DmtPrincipalPermission
* @exception SecurityException if this DmtPrincipalPermissionCollection
* object has been marked readonly
*/
public void add(Permission permission) {
    if (!(permission instanceof DmtPrincipalPermission))
        throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    if (isReadOnly())
        throw new SecurityException("Cannot add permission, collection is marked read-only.");

    // only add new permission if it is not already implied by the
    // permissions in the collection
    if (!implies(permission)) {
        // remove all permissions that are implied by the new one
        Iterator i = perms.iterator();
        while (i.hasNext())
            if (permission.implies((DmtPrincipalPermission) i.next()))
                i.remove();

        // no need to synchronize because all adds are done sequentially
        // before any implies() calls
        perms.add(permission);
    }
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((DmtPrincipalPermission) i.next()).impliesPrincipal(other))
            return true;

    return false;
}
package org.osgi.service.dmt;

/**
 * Unchecked illegal state exception. This class is used in DMT because
 * java.lang.IllegalStateException does not exist in CLDC.
 *
 * @author $Id: ab7441ab9ccea82894de416498a66b9376001581 $
 */
public class DmtIllegalStateException extends RuntimeException {
    private static final long serialVersionUID = 2015244852018469700L;

    /**
     * Create an instance of the exception with no message.
     *
     */
    public DmtIllegalStateException() {
        super();
    }

    /**
     * Create an instance of the exception with the specified message.
     *
     */
    public DmtIllegalStateException(String message) {
        super(message);
    }
}

/public* Returns an enumeration of all the DmtPrincipalPermission objects in the
* container. The returned value cannot be [@code null].
*
* @return an enumeration of all the DmtPrincipalPermission objects
*/
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
public DmtIllegalStateException(String message) {
    super(message);
}

public DmtIllegalStateException(Throwable cause) {
    super(cause);
}

public DmtIllegalStateException(String message, Throwable cause) {
    super(message, cause);
}

package org.osgi.service.event;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Hashtable;
import java.util.List;
import java.util.Map;

/**
 * A bundle's authority to publish or subscribe to event on a topic.
 * 
 * A topic is a slash-separated string that defines a topic.
 * 
 * For example:
 * 
 * <pre>
 * org/osgi/service/foo/FooEvent/ACTION
 * </pre>
 * 
 * {@code TopicPermission} has two actions: {@code publish} and
 * {@code subscribe}.
 * 
 * @ThreadSafe
 * @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
 */
public final class TopicPermission extends Permission {
    static final long serialVersionUID = -5855563886961618300L;
    /**
     * The action string {@code publish}.
     */
    public final static String PUBLISH = "publish";
    /**
     * The action string {@code subscribe}.
     */
    public final static String SUBSCRIBE = "subscribe";
    private final static int ACTION_PUBLISH = 0x00000001;
    private final static int ACTION_SUBSCRIBE = 0x00000002;
    private final static int ACTION_ALL = ACTION_PUBLISH | ACTION_SUBSCRIBE;
    private final static int ACTION_NONE = 0;
    /**
     * The actions mask.
     */
    private transient int action_mask;
/**
 * prefix if the name is wildcarded.
 */
private transient volatile String prefix;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * Defines the authority to publish and/or subscribe to a topic within the
 * EventAdmin service.
 * <p>
 * The name is specified as a slash-separated string. Wildcards may be used.
 * For example:
 * <p>
 * <pre>
 * org/osgi/service/fooFooEvent/ACTION
 * com/isv/*
 * *
 * </pre>
 * <p>
 * A bundle that needs to publish events on a topic must have the
 * appropriate [@code TopicPermission] for that topic; similarly, a bundle
 * that needs to subscribe to events on a topic must have the appropriate
 * [@code TopicPermission] for that topic.
 * <p>
 * @param name Topic name.
 * @param actions [@code publish],[@code subscribe] (canonical order).
 */
public TopicPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by TopicPermissionCollection.
 *
 * @param name class name
 * @param mask action mask
 */
TopicPermission(String name, int mask) {
    super(name);
private synchronized void setTransients(int mask) {
    final String name = getName();
    if ((name == null) || name.length() == 0) {
        throw new IllegalArgumentException("invalid name");
    }

    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }

    action_mask = mask;

    if (name.equals("*")) {
        prefix = "";
    } else {
        if (name.endsWith("/*")) {
            prefix = name.substring(0, name.length() - 1);
        } else {
            prefix = null;
        }
    }
}

/**
 * Returns the current action mask.
 * <p>
 * Used by the TopicPermissionCollection class.
 * * @param actions Action string.
 * * @return Current action mask.
 */
synchronized int getActionsMask() {
    return action_mask;
}

/**
 * Parse action string into action mask.
 * *
 * * @param actions Action string.
 * * @return action mask.
 */
private static int parseActions(final String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 8 && (a[i - 8] == 's' || a[i - 8] == 'S')
            && (a[i - 7] == 'u' || a[i - 7] == 'U')
            && (a[i - 6] == 'b' || a[i - 6] == 'B')
            && (a[i - 5] == 's' || a[i - 5] == 'S')
            && (a[i - 4] == 'c' || a[i - 4] == 'C')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'i' || a[i - 2] == 'I')
            && (a[i - 1] == 'b' || a[i - 1] == 'B')
            && (a[i] == 'e' || a[i] == 'E')) {
            matchlen = 9;
            mask |= ACTION_SUBSCRIBE;
        } else {
            // parse error
            throw new IllegalArgumentException("invalid permission: "+ actions);
        }
        // make sure we didn’t just match the tail of a word
        // like "ackbarfpush". Also, skip to the comma.
        seencomma = false;
        // ...
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',':
        seencomma = true;
        /* FALLTHROUGH */
    case ' ':
    case 'r' :
    case 'm' :
    case 'f' :
    case 't' :
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
}
// point i at the location of the comma minus one (or -1).
i -= matchlen;
}
if (seencomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}
return mask;

/**
 * Determines if the specified permission is implied by this object.
 *
 * <p>
 * This method checks that the topic name of the target is implied by the
 * topic name of this object. The list of {@code TopicPermission} actions
 * must either match or allow for the list of the target object to imply the
 * target {@code TopicPermission} action.
 * </p>
 *
 * @param p The target permission to interrogate.
 * @return {@code true} if the specified {@code TopicPermission} action is
 *         implied by this object; {@code false} otherwise.
 */
public boolean implies(Permission p) {
    if (p instanceof TopicPermission) {
        TopicPermission requested = (TopicPermission) p;
        if (p instanceof TopicPermission) {
            // Code continues here...
        } else {
            // Code continues here...
        }
    } else {
        // Code continues here...
    }
}
int requestedMask = requested.getActionsMask();
if ((getActionsMask() & requestedMask) == requestedMask) {
    String requestedName = requested.getName();
    String pre = prefix;
    if (pre != null) {
        return requestedName.startsWith(pre);
    }

    return requestedName.equals(getName());
}

return false;

/**
 * Returns the canonical string representation of the
 * @code TopicPermission actions.
 * *
 * <p>
 * Always returns present @code TopicPermission actions in the following
 * order: {@code publish},{@code subscribe}.
 * *
 * @return Canonical string representation of the @code TopicPermission
 *         actions.
 * */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;
        int mask = getActionsMask();
        if ((mask & ACTION_PUBLISH) == ACTION_PUBLISH) {
            sb.append(PUBLISH);
            comma = true;
        }
        if ((mask & ACTION_SUBSCRIBE) == ACTION_SUBSCRIBE) {
            if (comma)
                sb.append(',');
            sb.append(SUBSCRIBE);
        }
        actions = result = sb.toString();
    }
    return result;
}

/**
 * Returns a new @code PermissionCollection object suitable for storing
 * @code TopicPermission objects.
 */
public PermissionCollection newPermissionCollection() {
    return new TopicPermissionCollection();
}

/**
 * Determines the equality of two TopicPermission objects.
 *
 * This method checks that specified TopicPermission has the same
 * topic name and actions as this TopicPermission object.
 *
 * @param obj The object to test for equality with this
 *    TopicPermission object.
 * @return true if obj is a TopicPermission, and has
 *    the same topic name and actions as this TopicPermission
 *    object; false otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof TopicPermission)) {
        return false;
    }
    TopicPermission tp = (TopicPermission) obj;
    return (getActionsMask() == tp.getActionsMask()) && getName().equals(tp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
}
// call getActions to make sure actions field is initialized
if (actions == null)
getActions();
s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseActions(actions));
}

/**
 * Stores a set of {@code TopicPermission} permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class TopicPermissionCollection extends PermissionCollection {
static final long serialVersionUID = -614647783533924048L;
    /**
     * Table of permissions.
     *
     * @GuardedBy this
     */
    private transient Map<String, TopicPermission> permissions;
    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;

/**
 * Create an empty TopicPermissions object.
 *
 */
public TopicPermissionCollection() {
    permissions = new HashMap<String, TopicPermission>();
    all_allowed = false;
}
/**
 * Adds a permission to the {@code TopicPermission} objects. The key for the
 * hash is the name.
 * *
 * @param permission The {@code TopicPermission} object to add.
 * *
 * @throws IllegalArgumentException If the permission is not a
 *         {@code TopicPermission} instance.
 * *
 * @throws SecurityException If this {@code TopicPermissionCollection}
 *         object has been marked read-only.
 */
public void add(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    }
    final TopicPermission tp = (TopicPermission) permission;
    final String name = tp.getName();
    final int newMask = tp.getActionsMask();

    synchronized (this) {
        final TopicPermission existing = permissions.get(name);
        if (existing != null) {
            final int oldMask = existing.getActionsMask();
            if (oldMask != newMask) {
                permissions.put(name, new TopicPermission(name, oldMask | newMask));
            }
        } else {
            permissions.put(name, tp);
        }
        if (!all_allowed) {
            if (name.equals("*"))
                all_allowed = true;
        }
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in {@code permission}.
 * *
 * @param permission The Permission object to compare with this
 *         {@code TopicPermission} object.
 * */
public boolean implies(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        return false;
    }
    final TopicPermission requested = (TopicPermission) permission;
    String name = requested.getName();
    final int desired = requested.getActionsMask();
    int effective = 0;

    TopicPermission x;
    // short circuit if the "*" Permission was added
    synchronized (this) {
        if (all_allowed) {
            x = permissions.get("*");
            if (x != null) {
                effective |= x.getActionsMask();
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        x = permissions.get(name);
    }
    // strategy:
    // Check for full match first. Then work our way up the
    // name looking for matches on a/b/*
    if (x != null) {
        // we have a direct hit!
        effective |= x.getActionsMask();
        if ((effective & desired) == desired) {
            return true;
        }
    }
    // work our way up the tree...
    int last;
    int offset = name.length() - 1;
    while ((last = name.lastIndexOf("/", offset)) != -1) {
        name = name.substring(0, last + 1) + "*";
        synchronized (this) {
            x = permissions.get(name);
        }
        if (x != null) {
            effective |= x.getActionsMask();
            if ((effective & desired) == desired) {
                return true;
            }
        }
    }
    return false;
}
offset = last - 1;

// we don't have to check for "*" as it was already checked
// at the top (all_allowed), so we just return false
return false;

/**
 * Returns an enumeration of all {@code TopicPermission} objects in the
 * container.
 *
 * @return Enumeration of all {@code TopicPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", Hashtable.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    Hashtable<String, TopicPermission> hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions", null);
    permissions = new HashMap<String, TopicPermission>(hashtable);
    all_allowed = gfields.get("all_allowed", false);
}

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*/

package org.osgi.service.monitor;

import java.io.UnsupportedEncodingException;
import java.security.Permission;
import java.util.StringTokenizer;

/**
 * Indicates the callers authority to publish, read or reset
 * @code StatusVariable}s, to switch event sending on or off or to start
 * monitoring jobs. The target of the permission is the identifier of the
 * @code StatusVariable}, the action can be @code read], @code publish],
 * @code reset], @code startjob], @code switchevents], or the combination of
 * these separated by commas. Action names are interpreted case-insensitively,
 * but the canonical action string returned by @link #getActions} uses the
 * forms defined by the action constants.
 * <p>
 * If the wildcard @code * appears in the actions field, all legal monitoring
 * commands are allowed on the designated target(s) by the owner of the
 * permission.
 * *
 * @author $Id: 2899bf825eb4b7708601d99fb39019087deddefb $
 */

public class MonitorPermission extends Permission {

    /**
    */

    private static final long serialVersionUID = -9084425194463274314L;

    /**
     * Holders of @code MonitorPermission] with the @code read] action present
     * are allowed to read the value of the @code StatusVariable}s specified in
     * the permission's target field.
     */

    public static final String READ = "read";

    /**
     * Holders of @code MonitorPermission] with the @code reset] action
     * present are allowed to reset the value of the @code StatusVariable}s
* specified in the permission's target field.
*/
public static final String RESET = "reset";

/**
 * Holders of @code MonitorPermission with the @code publish action
 * present are @code Monitorable services that are allowed to publish the
 * @code StatusVariable}s specified in the permission's target field. Note,
 * that this permission cannot be enforced when a @code Monitorable
 * registers to the framework, because the Service Registry does not know
 * about this permission. Instead, any @code StatusVariable}s published by
 * a @code Monitorable without the corresponding @code publish
 * permission are silently ignored by @code MonitorAdmin, and are
 * therefore invisible to the users of the monitoring service.
 */
public static final String PUBLISH = "publish";

/**
 * Holders of @code MonitorPermission with the @code startjob action
 * present are allowed to initiate monitoring jobs involving the
 * @code StatusVariable}s specified in the permission's target field.
 * <p>
 * A minimal sampling interval can be optionally defined in the following
 * form: @code startjob:n}. This allows the holder of the permission to
 * initiate time based jobs with a measurement interval of at least
 * @code n} seconds. If @code n} is not specified or 0 then the holder of
 * this permission is allowed to start monitoring jobs specifying any
 * frequency.
 */
public static final String STARTJOB = "startjob";

/**
 * Holders of @code MonitorPermission with the @code switchevents action
 * present are allowed to switch event sending on or off for the value of
 * the @code StatusVariable}s specified in the permission's target field.
 */
public static final String SWITCHEVENTS = "switchevents";

private static final int READ_FLAG = 0x1;
private static final int RESET_FLAG = 0x2;
private static final int PUBLISH_FLAG = 0x4;
private static final int STARTJOB_FLAG = 0x8;
private static final int SWITCHEVENTS_FLAG = 0x10;

private static final int ALL_FLAGS = READ_FLAG | RESET_FLAG | PUBLISH_FLAG | STARTJOB_FLAG |
SWITCHEVENTS_FLAG;

private String monId;
private String varId;
private boolean prefixMonId;
private boolean prefixVarId;
private int mask;
private int minJobInterval;

/**
* Create a {@code MonitorPermission} object, specifying the target and
* actions.
* 
* The {@code statusVariable} parameter is the target of the permission,
* defining one or more status variable names to which the specified actions
* apply. Multiple status variable names can be selected by using the
* wildcard {@code * } in the target string. The wildcard is allowed in both
* fragments, but only at the end of the fragments.
* 
* For example, the following targets are valid:
* 
* @code com.mycomp.myapp/queue_length}, {@code com.mycomp.myapp/*},
* <code>com.mycomp.&amp;#42;/</code>, <code>&amp;#42;/</code>,
* <code>&amp;#42;/queue_length</code>, <code>&amp;#42;/queue*</code>,
* 
* The following targets are invalid: {@code *.myapp/queue_length},
* {@code com.*.myapp/*}, { @code * }.
* 
* The { @code actions } parameter specifies the allowed action(s):
* { @code read }, { @code publish }, { @code startjob }, { @code reset },
* { @code switchevents }, or the combination of these separated by commas.
* String constants are defined in this class for each valid action. Passing
* { @code * } as the action string is equivalent to listing all actions.
* 
* @param statusVariable the identifier of the { @code StatusVariable } in
* [Monitorable_id]/[StatusVariable_id] format
* @param actions the list of allowed actions separated by commas, or
* { @code * } for all actions
* @throws java.lang.IllegalArgumentException if either parameter is
* { @code null }, or invalid with regard to the constraints defined
* above and in the documentation of the used actions
*/

public MonitorPermission(String statusVariable, String actions) throws IllegalArgumentException {
  super(statusVariable);

  if (statusVariable == null)
    throw new IllegalArgumentException("Invalid StatusVariable path 'null'.");

  if (actions == null)
    throw new IllegalArgumentException("Invalid actions string 'null'.");

  int sep = statusVariable.indexOf('/');
int len = statusVariable.length();

if (sep == -1)
    throw new IllegalArgumentException("Invalid StatusVariable path: should contain '/' separator.");
if (sep == 0 || sep == statusVariable.length() - 1)
    throw new IllegalArgumentException("Invalid StatusVariable path: empty monitorable ID or StatusVariable name.");

prefixMonId = statusVariable.charAt(sep - 1) == '*';
prefixVarId = statusVariable.charAt(len - 1) == '*';

monId = statusVariable.substring(0, prefixMonId ? sep - 1 : sep);
varId = statusVariable.substring(sep + 1, prefixVarId ? len - 1 : len);

checkId(monId, "Monitorable ID part of the target");
checkId(varId, "Status Variable ID part of the target");

minJobInterval = 0;

if (actions.equals("*"))
    mask = ALL_FLAGS;
else {
    mask = 0;
    StringTokenizer st = new StringTokenizer(actions, ",");
    while (st.hasMoreTokens()) {
        String action = st.nextToken().trim();
        if (action.equalsIgnoreCase(READ)) {
            addToMask(READ_FLAG, READ);
        } else
            if (action.equalsIgnoreCase(RESET)) {
                addToMask(RESET_FLAG, RESET);
            } else
                if (action.equalsIgnoreCase(PUBLISH)) {
                    addToMask(PUBLISH_FLAG, PUBLISH);
                } else
                    if (action.equalsIgnoreCase(SWITCHEVENTS)) {
                        addToMask(SWITCHEVENTS_FLAG, SWITCHEVENTS);
                    } else
                        if (action.toLowerCase().startsWith(STARTJOB)) {
                            minJobInterval = 0;
                            int slen = STARTJOB.length();
                            if (action.length() != slen) {
                                if (action.charAt(slen) != ':')
                                    throw new IllegalArgumentException("Invalid action '" + action + "'.");
                                try {
                                    minJobInterval = Integer.parseInt(action.substring(slen + 1));
                                } catch (NumberFormatException e) {
                                    throw new IllegalArgumentException("Invalid action '" + action + "'.");
                                }
                            }
                        }
                    }
    }
}

try {
    minJobInterval = Integer.parseInt(action.substring(slen + 1));
}
private void addToMask(int action, String actionString) {
    if ((mask & action) != 0)
        throw new IllegalArgumentException("Invalid action string: "+actionString+" appears multiple times.");
    mask |= action;
}

private void checkId(String id, String idName) throws IllegalArgumentException {
    byte[] nameBytes;
    try {
        nameBytes = id.getBytes("UTF-8");
    } catch (UnsupportedEncodingException e) {
        throw new IllegalStateException(e.getMessage());
    }
    if (nameBytes.length > StatusVariable.MAX_ID_LENGTH)
        throw new IllegalArgumentException(idName+" is too long (over "+StatusVariable.MAX_ID_LENGTH+" bytes in UTF-8 encoding.");
    if (id.equals(".") || id.equals(".."))
        throw new IllegalArgumentException(idName+" is invalid.");
    char[] chars = id.toCharArray();
    for (int i = 0; i < chars.length; i++)
        if (StatusVariable.SYMBOLIC_NAME_CHARACTERS.indexOf(chars[i]) == -1)
            throw new IllegalArgumentException(idName+" contains invalid characters.");
}

/**
 * Create an integer hash of the object. The hash codes of
 * @code MonitorPermission)s @code p1 and @code p2 are the same if
 * @code p1.equals(p2).
 * @return the hash of the object
 */
public int hashCode() {
    // catch (NumberFormatException e) {
    throw new IllegalArgumentExce

}

/**
 * Determines the equality of two {@code MonitorPermission} objects. Two
 * {@code MonitorPermission} objects are equal if their target strings are
 * equal and the same set of actions are listed in their action strings.
 * *
 * @param o the object being compared for equality with this object
 * @return {@code true} if the two permissions are equal
 */
public boolean equals(Object o) {
    if (!(o instanceof MonitorPermission))
        return false;
    MonitorPermission other = (MonitorPermission) o;

    return mask == other.mask && minJobInterval == other.minJobInterval && monId.equals(other.monId) &&
    prefixMonId == other.prefixMonId && varId.equals(other.varId) &&
    prefixVarId == other.prefixVarId;
}

/**
 * Get the action string associated with this permission. The actions are
 * returned in the following order: {@code read}, {@code reset},
 * {@code publish}, {@code startjob}, {@code switchevents}.
 * *
 * @return the allowed actions separated by commas, cannot be {@code null}
 */
public String getActions() {
    StringBuffer sb = new StringBuffer();

    appendAction(sb, READ_FLAG, READ);
    appendAction(sb, RESET_FLAG, RESET);
    appendAction(sb, PUBLISH_FLAG, PUBLISH);
    appendAction(sb, STARTJOB_FLAG, STARTJOB);
    appendAction(sb, SWITCHEVENTS_FLAG, SWITCHEVENTS);

    return sb.toString();
}

private void appendAction(StringBuffer sb, int flag, String actionName) {
    if (((mask & flag) != 0) && sb.length() != 0) {
        if (sb.length() != 0)
            sb.append(');
        sb.append(actionName);
    }
}
if (flag == STARTJOB_FLAG && minJobInterval != 0)
    sb.append(':').append(minJobInterval);
}

/**
 * Determines if the specified permission is implied by this permission.
 * <p>
 * This method returns {@code false} if and only if at least one of the
 * following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a {@code MonitorPermission}</li>
 * <li>it has a broader set of actions allowed than this one</li>
 * <li>it allows initiating time based monitoring jobs with a lower minimal
 * sampling interval</li>
 * <li>the target set of {@code Monitorable}s is not the same nor a subset
 * of the target set of {@code Monitorable}s of this permission</li>
 * <li>the target set of {@code StatusVariable}s is not the same nor a
 * subset of the target set of {@code StatusVariable}s of this permission</li>
 * </ul>
 * @param p the permission to be checked
 * @return {@code true} if the given permission is implied by this
 *         permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof MonitorPermission))
        return false;
    MonitorPermission other = (MonitorPermission) p;
    if ((mask & other.mask) != other.mask)
        return false;
    if ((other.mask & STARTJOB_FLAG) != 0 && minJobInterval > other.minJobInterval)
        return false;
    return implies(monId, prefixMonId, other.monId, other.prefixMonId) && implies(varId, prefixVarId, other.varId,
                                           other.prefixVarId);
}

private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {
    return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}
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4.136 packethandler-model 0.1.1-Helium-SR1

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4.139 pcep-spi 0.3.2-Helium-SR1

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4.141 pcep-topology-provider 0.3.2-Helium-SR1

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 */

package org.opendaylight.controller.cluster.example;
import akka.actor.ActorRef;
import akka.actor.Props;
import akka.japi.Creator;
import com.google.common.base.Optional;
import com.google.protobuf.ByteString;
import org.opendaylight.controller.cluster.DataPersistenceProvider;
import org.opendaylight.controller.cluster.example.messages.KeyValue;
import org.opendaylight.controller.cluster.example.messages.KeyValueSaved;
import org.opendaylight.controller.cluster.example.messages.PrintRole;
import org.opendaylight.controller.cluster.example.messages.PrintState;
import org.opendaylight.controller.cluster.raft.ConfigParams;
import org.opendaylight.controller.cluster.raft.RaftActor;
import org.opendaylight.controller.cluster.raft.base.messages.CaptureSnapshotReply;
import org.opendaylight.controller.cluster.raft.protobuff.client.messages.Payload;

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.util.HashMap;
import java.util.Map;

/**
 * A sample actor showing how the RaftActor is to be extended
 */
public class ExampleActor extends RaftActor {

    private final Map<String, String> state = new HashMap();
    private final DataPersistenceProvider dataPersistenceProvider;
    private long persistIdentifier = 1;

    public ExampleActor(String id, Map<String, String> peerAddresses,
        Optional<ConfigParams> configParams) {
        super(id, peerAddresses, configParams);
        this.dataPersistenceProvider = new PersistentDataProvider();
    }

    public static Props props(final String id, final Map<String, String> peerAddresses,
        final Optional<ConfigParams> configParams) {
        return Props.create(new Creator<ExampleActor>() {
            @Override
            public ExampleActor create() throws Exception {
                return new ExampleActor(id, peerAddresses, configParams);
            }
        });
    }
}
@Override public void onReceiveCommand(Object message) throws Exception{
    if(message instanceof KeyValue){
        if(isLeader()) {
            String persistId = Long.toString(persistIdentifier++);
            persistData(getSender(), persistId, (Payload) message);
        } else {
            if(getLeader() != null) {
                getLeader().forward(message, getContext());
            }
        }
    } else if (message instanceof PrintState) {
        if(LOG.isDebugEnabled()) {
            LOG.debug("State of the node:{} has entries={}, {}", getId(), state.size(), getReplicatedLogState());
        }
    } else if (message instanceof PrintRole) {
        if(LOG.isDebugEnabled()) {
            LOG.debug("{} = {}, Peers={}", getId(), getRaftState(), getPeers());
        }
    } else {
        super.onReceiveCommand(message);
    }
}

@Override protected void applyState(ActorRef clientActor, String identifier, Object data) {
    if(data instanceof KeyValue){
        KeyValue kv = (KeyValue) data;
        state.put(kv.getKey(), kv.getValue());
        if(clientActor != null) {
            clientActor.tell(new KeyValueSaved(), getSelf());
        }
    }
}

@Override protected void createSnapshot() {
    ByteString bs = null;
    try {
        bs = fromObject(state);
    } catch (Exception e) {
        LOG.error(e, "Exception in creating snapshot");
    }
    getSelf().tell(new CaptureSnapshotReply(bs), null);
}
@Override protected void applySnapshot(ByteString snapshot) {
    state.clear();
    try {
        state.putAll((HashMap) toObject(snapshot));
    } catch (Exception e) {
        LOG.error(e, "Exception in applying snapshot");
    }
    if (LOG.isDebugEnabled()) {
        LOG.debug("Snapshot applied to state : ", ((HashMap) state).size());
    }
}

private ByteString fromObject(Object snapshot) throws Exception {
    ByteArrayOutputStream b = null;
    ObjectOutputStream o = null;
    try {
        b = new ByteArrayOutputStream();
        o = new ObjectOutputStream(b);
        o.writeObject(snapshot);
        byte[] snapshotBytes = b.toByteArray();
        return ByteString.copyFrom(snapshotBytes);
    } finally {
        if (o != null) {
            o.flush();
            o.close();
        }
        if (b != null) {
            b.close();
        }
    }
}

private Object toObject(ByteString bs) throws ClassNotFoundException, IOException {
    Object obj = null;
    ByteArrayInputStream bis = null;
    ObjectInputStream ois = null;
    try {
        bis = new ByteArrayInputStream(bs.toByteArray());
        ois = new ObjectInputStream(bis);
        obj = ois.readObject();
    } finally {
        if (bis != null) {
            bis.close();
        }
        if (ois != null) {
            ois.close();
        }
    }
    return obj;
}

```java

Override protected void onStateChanged()
}

@override
protected DataPersistenceProvider persistence()
return dataPersistenceProvider;

@override
public void onReceiveRecover(Object message) throws Exception
super.onReceiveRecover(message);

@override
public String persistenceId()
return getId();

@override
protected void startLogRecoveryBatch(int maxBatchSize)

@override
protected void appendRecoveredLogEntry(Payload data)

@override
protected void applyCurrentLogRecoveryBatch()

@override
protected void onRecoveryComplete()

@override
protected void applyRecoverySnapshot(ByteString snapshot)

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* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
```
package org.opendaylight.controller.cluster.example;

import org.opendaylight.controller.cluster.raft.DefaultConfigParamsImpl;

/**
 * Implementation of ConfigParams for Example
 */
public class ExampleConfigParamsImpl extends DefaultConfigParamsImpl {

    @Override
    public long getSnapshotBatchCount() {
        return 50;
    }

    @Override
    public int getSnapshotChunkSize() {
        return 50;
    }

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    */

    package org.opendaylight.controller.cluster.raft.base.messages;

    import java.io.Serializable;

    /**
    * Message sent to commit an entry to the log
    */
    public class CommitEntry implements Serializable {
        }

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    */

    package org.opendaylight.controller.cluster.raft.base.messages;

    import akka.actor.ActorRef;
    import org.opendaylight.controller.cluster.raft.ReplicatedLogEntry;
import java.io.Serializable;

public class Replicate implements Serializable {
    private final ActorRef clientActor;
    private final String identifier;
    private final ReplicatedLogEntry replicatedLogEntry;

    public Replicate(ActorRef clientActor, String identifier,
                     ReplicatedLogEntry replicatedLogEntry) {
        this.clientActor = clientActor;
        this.identifier = identifier;
        this.replicatedLogEntry = replicatedLogEntry;
    }

    public ActorRef getClientActor() {
        return clientActor;
    }

    public String getIdentifier() {
        return identifier;
    }

    public ReplicatedLogEntry getReplicatedLogEntry() {
        return replicatedLogEntry;
    }
}

package org.opendaylight.controller.cluster.raft;

import java.util.concurrent.atomic.AtomicLong;

public class FollowerLogInformationImpl implements FollowerLogInformation {
    private final String id;
    private final AtomicLong nextIndex;
    private final AtomicLong matchIndex;

    public FollowerLogInformationImpl(String id, AtomicLong nextIndex, AtomicLong matchIndex) {
        this.id = id;
        this.nextIndex = nextIndex;
        this.matchIndex = matchIndex;
    }

    public String getId() {
        return id;
    }

    public AtomicLong getNextIndex() {
        return nextIndex;
    }

    public AtomicLong getMatchIndex() {
        return matchIndex;
    }
}

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.cluster.raft;

import java.util.concurrent.atomic.AtomicLong;

public class FollowerLogInformationImpl implements FollowerLogInformation {
    private final String id;
    private final AtomicLong nextIndex;
    private final AtomicLong matchIndex;

    public FollowerLogInformationImpl(String id, AtomicLong nextIndex, AtomicLong matchIndex) {
        this.id = id;
        this.nextIndex = nextIndex;
        this.matchIndex = matchIndex;
    }

    public String getId() {
        return id;
    }

    public AtomicLong getNextIndex() {
        return nextIndex;
    }

    public AtomicLong getMatchIndex() {
        return matchIndex;
    }
}

package org.opendaylight.controller.cluster.raft;

import java.util.concurrent.atomic.AtomicLong;

public class FollowerLogInformationImpl implements FollowerLogInformation {
    private final String id;
    private final AtomicLong nextIndex;
    private final AtomicLong matchIndex;

    public FollowerLogInformationImpl(String id, AtomicLong nextIndex, AtomicLong matchIndex) {
        this.id = id;
        this.nextIndex = nextIndex;
        this.matchIndex = matchIndex;
    }

    public String getId() {
        return id;
    }

    public AtomicLong getNextIndex() {
        return nextIndex;
    }

    public AtomicLong getMatchIndex() {
        return matchIndex;
    }
}
public FollowerLogInformationImpl(String id, AtomicLong nextIndex,
    AtomicLong matchIndex) {
    this.id = id;
    this.nextIndex = nextIndex;
    this.matchIndex = matchIndex;
}

public long incrNextIndex(){
    return nextIndex.incrementAndGet();
}

@Override public long decrNextIndex() {
    return nextIndex.decrementAndGet();
}

@Override public void setNextIndex(long nextIndex) {
    this.nextIndex.set(nextIndex);
}

public long incrMatchIndex(){
    return matchIndex.incrementAndGet();
}

@Override public void setMatchIndex(long matchIndex) {
    this.matchIndex.set(matchIndex);
}

public String getId() {
    return id;
}

public AtomicLong getNextIndex() {
    return nextIndex;
}

public AtomicLong getMatchIndex() {
    return matchIndex;
}

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 */
package org.opendaylight.controller.cluster.raft;

import akka.actor.ActorRef;
import akka.actor.ActorSelection;
import akka.actor.ActorSystem;
import akka.actor.Props;
import akka.actor.UntypedActorContext;
import akka.event.LoggingAdapter;
import java.util.Map;
import static com.google.common.base.Preconditions.checkState;

public class RaftActorContextImpl implements RaftActorContext {

    private final ActorRef actor;
    private final UntypedActorContext context;
    private final String id;
    private final ElectionTerm termInformation;
    private long commitIndex;
    private long lastApplied;
    private ReplicatedLog replicatedLog;
    private final Map<String, String> peerAddresses;
    private final LoggingAdapter LOG;
    private final ConfigParams configParams;

    public RaftActorContextImpl(ActorRef actor, UntypedActorContext context,
                                 String id,
                                 ElectionTerm termInformation, long commitIndex,
                                 long lastApplied, ReplicatedLog replicatedLog,
                                 Map<String, String> peerAddresses, ConfigParams configParams,
                                 LoggingAdapter logger) {
        this.actor = actor;
        this.context = context;
        this.id = id;
        this.termInformation = termInformation;
        this.commitIndex = commitIndex;
        this.lastApplied = lastApplied;
        this.replicatedLog = replicatedLog;
    }
}
this.peerAddresses = peerAddresses;
this.configParams = configParams;
this.LOG = logger;
}

@Override
public ActorRef actorOf(Props props){
    return context.actorOf(props);
}

@Override
public ActorSelection actorSelection(String path){
    return context.actorSelection(path);
}

@Override
public String getId() {
    return id;
}

@Override
public ActorRef getActor() {
    return actor;
}

@Override
public ElectionTerm getTermInformation() {
    return termInformation;
}

@Override
public long getCommitIndex() {
    return commitIndex;
}

@Override public void setCommitIndex(long commitIndex) {
    this.commitIndex = commitIndex;
}

@Override
public long getLastApplied() {
    return lastApplied;
}

@Override public void setLastApplied(long lastApplied) {
    this.lastApplied = lastApplied;
}
@Override public void setReplicatedLog(ReplicatedLog replicatedLog) {
    this.replicatedLog = replicatedLog;
}

@Override public ReplicatedLog getReplicatedLog() {
    return replicatedLog;
}

@Override public ActorSystem getActorSystem() {
    return context.system();
}

@Override public LoggingAdapter getLogger() {
    return this.LOG;
}

@Override public Map<String, String> getPeerAddresses() {
    return peerAddresses;
}

@Override public String getPeerAddress(String peerId) {
    return peerAddresses.get(peerId);
}

@Override public ConfigParams getConfigParams() {
    return configParams;
}

@Override public void addToPeers(String name, String address) {
    peerAddresses.put(name, address);
}

@Override public void removePeer(String name) {
    peerAddresses.remove(name);
}

@Override public ActorSelection getPeerActorSelection(String peerId) {
    String peerAddress = getPeerAddress(peerId);
    if(peerAddress != null){
        return actorSelection(peerAddress);
    }
    return null;
}

@Override public void setPeerAddress(String peerId, String peerAddress) {
    LOG.info("Peer address for peer {} set to {}", peerId, peerAddress);
    checkState(peerAddresses.containsKey(peerId), peerId + " is unknown");
}
peerAddresses.put(peerId, peerAddress);
}
}
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 */

package org.opendaylight.controller.cluster.raft;

import com.google.protobuf.ByteString;
import java.util.List;

/**
 * Represents the ReplicatedLog that needs to be kept in sync by the RaftActor
 */
public interface ReplicatedLog {

/**
 * Get a replicated log entry at the specified index
 * @param index the index of the log entry
 * @return the ReplicatedLogEntry at index. null if index less than 0 or
 * greater than the size of the in-memory journal.
 */
ReplicatedLogEntry get(long index);

/**
 * Get the last replicated log entry
 * @return
 */
ReplicatedLogEntry last();

/**
 * @return
 */
long lastIndex();

/**
 * @return
 */
long lastTerm();

/**
 * To be called when we need to remove entries from the in-memory log.
 * This method will remove all entries >= index. This method should be used
 * during recovery to appropriately trim the log based on persisted
 * information
 *
 * @param index the index of the log entry
 */
void removeFront(long index);

/**
 * To be called when we need to remove entries from the in-memory log and we
 * need that information persisted to disk. This method will remove all
 * entries >= index.
 * <p>
 * The persisted information would then be used during recovery to properly
 * reconstruct the state of the in-memory replicated log
 *
 * @param index the index of the log entry
 */
void removeFromAndPersist(long index);

/**
 * Append an entry to the log
 * @param replicatedLogEntry
 */
void append(ReplicatedLogEntry replicatedLogEntry);

/**
 * Optimization method to increase the capacity of the journal log prior to appending entries.
 *
 * @param amount the amount to increase by
 */
void increaseJournalLogCapacity(int amount);

/**
 *
 * @param replicatedLogEntry
 */
void appendAndPersist(final ReplicatedLogEntry replicatedLogEntry);

/**
 *
 * @param index the index of the log entry
 */
List<ReplicatedLogEntry> getFrom(long index);

/**
 * @param index the index of the log entry
 */
List<ReplicatedLogEntry> getFrom(long index, int max);

/**
 * @return
 */
long size();

/**
 * Checks if the entry at the specified index is present or not
 * @param index the index of the log entry
 * @return true if the entry is present in the in-memory journal
 */
boolean isPresent(long index);

/**
 * Checks if the entry is present in a snapshot
 * @param index the index of the log entry
 * @return true if the entry is in the snapshot. false if the entry is not
 * in the snapshot even if the entry may be present in the replicated log
 */
boolean isInSnapshot(long index);

/**
 * Get the snapshot
 * @return an object representing the snapshot if it exists. null otherwise
 */
ByteString getSnapshot();

/**
 * Get the index of the snapshot
 * @return the index from which the snapshot was created. -1 otherwise.
 */
long getSnapshotIndex();

/**
 * Get the term of the snapshot
 *
* @return the term of the index from which the snapshot was created. -1
* otherwise
*/
long getSnapshotTerm();

/**
* sets the snapshot index in the replicated log
* @param snapshotIndex
*/
void setSnapshotIndex(long snapshotIndex);

/**
* sets snapshot term
* @param snapshotTerm
*/
public void setSnapshotTerm(long snapshotTerm);

/**
* sets the snapshot in bytes
* @param snapshot
*/
public void setSnapshot(ByteString snapshot);

/**
* Clears the journal entries with startIndex(inclusive) and endIndex (exclusive)
* @param startInde
* @param endInde
*/
public void clear(int startIndex, int endIndex);

/**
* Handles all the bookkeeping in order to perform a rollback in the
* event of SaveSnapshotFailure
* @param snapshot
* @param snapshotCapturedIndex
* @param snapshotCapturedTerm
*/
public void snapshotPreCommit(ByteString snapshot,
   long snapshotCapturedIndex, long snapshotCapturedTerm);

/**
* Sets the Replicated log to state after snapshot success.
*/
public void snapshotCommit();

/**
* Restores the replicated log to a state in the event of a save snapshot failure
*/
public void snapshotRollback();
}
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*/

package org.opendaylight.controller.cluster.raft;

import akka.actor.ActorRef;

public class ClientRequestTrackerImpl implements ClientRequestTracker {

    private final ActorRef clientActor;
    private final String identifier;
    private final long logIndex;

    public ClientRequestTrackerImpl(ActorRef clientActor, String identifier,
         long logIndex) {
        this.clientActor = clientActor;
        this.identifier = identifier;
        this.logIndex = logIndex;
    }

    @Override public ActorRef getClientActor() {
        return clientActor;
    }

    @Override public long getIndex() {
        return logIndex;
    }

    public String getIdentifier() {
        return identifier;
    }
}
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*/
package org.opendaylight.controller.cluster.raft;

import org.opendaylight.controller.cluster.raft.protobuff.client.messages.Payload;

import java.io.Serializable;

public class ReplicatedLogImplEntry implements ReplicatedLogEntry, Serializable {

    private final long index;
    private final long term;
    private final Payload payload;

    public ReplicatedLogImplEntry(long index, long term, Payload payload) {
        this.index = index;
        this.term = term;
        this.payload = payload;
    }

    @Override public Payload getData() {
        return payload;
    }

    @Override public long getTerm() {
        return term;
    }

    @Override public long getIndex() {
        return index;
    }

    @Override public String toString() {
        return "Entry{" +
                    "index=" + index +
                    ", term=" + term +
                    "}";
    }
}

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 */
package org.opendaylight.controller.cluster.raft;

import scala.concurrent.duration.FiniteDuration;

import java.util.concurrent.TimeUnit;

/**
 * Default implementation of the ConfigParams
 * 
 * If no implementation is provided for ConfigParams, then this will be used.
 */
public class DefaultConfigParamsImpl implements ConfigParams {

    private static final int SNAPSHOT_BATCH_COUNT = 20000;
    private static final int JOURNAL_RECOVERY_LOG_BATCH_SIZE = 1000;

    /**
     * The maximum election time variance
     */
    private static final int ELECTION_TIME_MAX_VARIANCE = 100;

    private static final int SNAPSHOT_CHUNK_SIZE = 2048 * 1000; //2MB

    /**
     * The interval at which a heart beat message will be sent to the remote
     * RaftActor
     * 
     * Since this is set to 100 milliseconds the Election timeout should be
     * at least 200 milliseconds
     */
    public static final FiniteDuration HEART_BEAT_INTERVAL =
            new FiniteDuration(100, TimeUnit.MILLISECONDS);

    private FiniteDuration heartBeatInterval = HEART_BEAT_INTERVAL;
    private long snapshotBatchCount = SNAPSHOT_BATCH_COUNT;
    private int journalRecoveryLogBatchSize = JOURNAL_RECOVERY_LOG_BATCH_SIZE;

    public void setHeartBeatInterval(FiniteDuration heartBeatInterval) {
        this.heartBeatInterval = heartBeatInterval;
    }

    public void setSnapshotBatchCount(long snapshotBatchCount) {
        this.snapshotBatchCount = snapshotBatchCount;
    }
public void setJournalRecoveryLogBatchSize(int journalRecoveryLogBatchSize) {
    this.journalRecoveryLogBatchSize = journalRecoveryLogBatchSize;
}

@Override
public long getSnapshotBatchCount() {
    return snapshotBatchCount;
}

@Override
public FiniteDuration getHeartBeatInterval() {
    return heartBeatInterval;
}

@Override
public FiniteDuration getElectionTimeOutInterval() {
    // returns 2 times the heart beat interval
    return getHeartBeatInterval().times(2);
}

@Override
public int getElectionTimeVariance() {
    return ELECTION_TIME_MAX_VARIANCE;
}

@Override
public int getSnapshotChunkSize() {
    return SNAPSHOT_CHUNK_SIZE;
}

@Override
public int getJournalRecoveryLogBatchSize() {
    return journalRecoveryLogBatchSize;
}
} /*
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 */
package org.opendaylight.controller.cluster.raft;

import com.google.protobuf.ByteString;
import java.util.ArrayList;
import java.util.List;

import java.util.ArrayList;
import java.util.List;
/**
 * Abstract class handling the mapping of
 * logical LogEntry Index and the physical list index.
 */
public abstract class AbstractReplicatedLogImpl implements ReplicatedLog {

    // We define this as ArrayList so we can use ensureCapacity.
    protected ArrayList<ReplicatedLogEntry> journal;
    protected ByteString snapshot;
    protected long snapshotIndex = -1;
    protected long snapshotTerm = -1;

    // to be used for rollback during save snapshot failure
    protected ArrayList<ReplicatedLogEntry> snapshottedJournal;
    protected ByteString previousSnapshot;
    protected long previousSnapshotIndex = -1;
    protected long previousSnapshotTerm = -1;

    public AbstractReplicatedLogImpl(ByteString state, long snapshotIndex,
         long snapshotTerm, List<ReplicatedLogEntry> unAppliedEntries) {
        this.snapshot = state;
        this.snapshotIndex = snapshotIndex;
        this.snapshotTerm = snapshotTerm;
        this.journal = new ArrayList<>(unAppliedEntries);
    }

    public AbstractReplicatedLogImpl() {
        this.snapshot = null;
        this.journal = new ArrayList<>();
    }

    protected int adjustedIndex(long logEntryIndex) {
        if(snapshotIndex < 0){
            return (int) logEntryIndex;
        }
        return (int) (logEntryIndex - (snapshotIndex + 1));
    }

    @Override
    public ReplicatedLogEntry get(long logEntryIndex) {
        int adjustedIndex = adjustedIndex(logEntryIndex);

        if (adjustedIndex < 0 || adjustedIndex >= journal.size()) {
            // physical index should be less than list size and >= 0
            return null;
        }
        return journal.get(adjustedIndex);
    }
}
return journal.get(adjustedIndex);
}

@Override
public ReplicatedLogEntry last() {
    if (journal.isEmpty()) {
        return null;
    }
    // get the last entry directly from the physical index
    return journal.get(journal.size() - 1);
}

@Override
public long lastIndex() {
    if (journal.isEmpty()) {
        // it can happen that after snapshot, all the entries of the
        // journal are trimmed till lastApplied, so lastIndex = snapshotIndex
        return snapshotIndex;
    }
    return last().getIndex();
}

@Override
public long lastTerm() {
    if (journal.isEmpty()) {
        // it can happen that after snapshot, all the entries of the
        // journal are trimmed till lastApplied, so lastTerm = snapshotTerm
        return snapshotTerm;
    }
    return last().getTerm();
}

@Override
public void removeFrom(long logEntryIndex) {
    int adjustedIndex = adjustedIndex(logEntryIndex);
    if (adjustedIndex < 0 || adjustedIndex >= journal.size()) {
        // physical index should be less than list size and >= 0
        return;
    }
    journal.subList(adjustedIndex, journal.size()).clear();
}

@Override
public void append(ReplicatedLogEntry replicatedLogEntry) {
    journal.add(replicatedLogEntry);
}
@Override
public void increaseJournalLogCapacity(int amount) {
    journal.ensureCapacity(journal.size() + amount);
}

@Override
public List<ReplicatedLogEntry> getFrom(long logEntryIndex) {
    return getFrom(logEntryIndex, journal.size());
}

@Override
public List<ReplicatedLogEntry> getFrom(long logEntryIndex, int max) {
    int adjustedIndex = adjustedIndex(logEntryIndex);
    int size = journal.size();
    List<ReplicatedLogEntry> entries = new ArrayList<>(100);
    if (adjustedIndex >= 0 && adjustedIndex < size) {
        int maxIndex = adjustedIndex + max;
        if (maxIndex > size) {
            maxIndex = size;
        }
        entries.addAll(journal.subList(adjustedIndex, maxIndex));
    }
    return entries;
}

@Override
public long size() {
    return journal.size();
}

@Override
public boolean isPresent(long logEntryIndex) {
    if (logEntryIndex > lastIndex()) {
        // if the request logical index is less than the last present in the list
        return false;
    }
    int adjustedIndex = adjustedIndex(logEntryIndex);
    return (adjustedIndex >= 0);
}

@Override
public boolean isInSnapshot(long logEntryIndex) {
    return logEntryIndex <= snapshotIndex && snapshotIndex != -1;
}

@Override
public ByteString getSnapshot() {
    return snapshot;
}

@Override
public long getSnapshotIndex() {
    return snapshotIndex;
}

@Override
public long getSnapshotTerm() {
    return snapshotTerm;
}

@Override
public abstract void appendAndPersist(ReplicatedLogEntry replicatedLogEntry);

@Override
public abstract void removeFromAndPersist(long index);

@Override
public void setSnapshotIndex(long snapshotIndex) {
    this.snapshotIndex = snapshotIndex;
}

@Override
public void setSnapshotTerm(long snapshotTerm) {
    this.snapshotTerm = snapshotTerm;
}

@Override
public void setSnapshot(ByteString snapshot) {
    this.snapshot = snapshot;
}

@Override
public void clear(int startIndex, int endIndex) {
    journal.subList(startIndex, endIndex).clear();
}

@Override
public void snapshotPreCommit(ByteString snapshot, long snapshotCapturedIndex, long snapshotCapturedTerm) {
    snapshottedJournal = new ArrayList<>(journal.size());
    snapshottedJournal.addAll(journal.subList(0, (int)(snapshotCapturedIndex - snapshotIndex)));
    clear(0, (int) (snapshotCapturedIndex - snapshotIndex));
previousSnapshotIndex = snapshotIndex;
setSnapshotIndex(snapshotCapturedIndex);

previousSnapshotTerm = snapshotTerm;
setSnapshotTerm(snapshotCapturedTerm);

previousSnapshot = getSnapshot();
setSnapshot(snapshot);}

@Override
public void snapshotCommit() {
    snapshottedJournal = null;
    previousSnapshotIndex = -1;
    previousSnapshotTerm = -1;
    previousSnapshot = null;
}

@Override
public void snapshotRollback() {
    snapshottedJournal.addAll(journal);
    journal = snapshottedJournal;
    snapshottedJournal = null;

    snapshotIndex = previousSnapshotIndex;
    previousSnapshotIndex = -1;

    snapshotTerm = previousSnapshotTerm;
    previousSnapshotTerm = -1;

    snapshot = previousSnapshot;
    previousSnapshot = null;
}

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 */

package org.opendaylight.controller.cluster.raft;

import org.opendaylight.controller.cluster.raft.protobuff.client.messages.Payload;
* Represents one entry in the replicated log
*
public interface ReplicatedLogEntry {
    /**
     * The data stored in that entry
     * @return
     */
    Payload getData();

    /**
     * The term stored in that entry
     * @return
     */
    long getTerm();

    /**
     * The index of the entry
     * @return
     */
    long getIndex();
}
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4.155 sal-binding-broker-impl 1.1.1-Helium-SR1

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 */

package org.opendaylight.controller.md.sal.binding.impl;

import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataReadOnlyTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import com.google.common.base.Optional;
import com.google.common.util.concurrent.CheckedFuture;

class BindingDataReadTransactionImpl extends AbstractForwardedTransaction<DOMDataReadOnlyTransaction>
   implements ReadOnlyTransaction {

   protected BindingDataReadTransactionImpl(final DOMDataReadOnlyTransaction delegate,
      final BindingToNormalizedNodeCodec codec) {
      super(delegate, codec);
   }

   @Override
   public <T extends DataObject> CheckedFuture<Optional<T>,ReadFailedException> read(
      final LogicalDatastoreType store, final InstanceIdentifier<T> path) {
      return doRead(getDelegate(),store, path);
   }


@Override
public void close() {
    getDelegate().close();
}

} /*
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 */
package org.opendaylight.controller.md.sal.binding.impl;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.WriteTransaction;
import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataTransaction;
import org.opendaylight.controller.md.sal.common.impl.util.compat.DataNormalizationException;
import org.opendaylight.controller.md.sal.common.impl.util.compat.DataNormalizationOperation;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.PathArgument;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.ListenableFuture;

class BindingDataWriteTransactionImpl<T extends DOMDataWriteTransaction> extends 
    AbstractWriteTransaction<T> implements WriteTransaction {

    protected BindingDataWriteTransactionImpl(final T delegateTx, final BindingToNormalizedNodeCodec codec) {
        super(delegateTx, codec);
    }

    @Override
    public <U extends DataObject> void put(final LogicalDatastoreType store, final InstanceIdentifier<U> path,
        final U data) {
        put(store, path, data, false);
    }
}
@Override
public <T extends DataObject> void merge(final LogicalDatastoreType store, final InstanceIdentifier<T> path, final T data) {
    merge(store, path, data, false);
}

@Override
protected void ensureParentsByMerge(final LogicalDatastoreType store, final org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier normalizedPath, final InstanceIdentifier<?> path) {
    List<PathArgument> currentArguments = new ArrayList<>();
    DataNormalizationOperation<?> currentOp = getCodec().getDataNormalizer().getRootOperation();
    Iterator<PathArgument> iterator = normalizedPath.getPathArguments().iterator();
    while (iterator.hasNext()) {
        PathArgument currentArg = iterator.next();
        try {
            currentOp = currentOp.getChild(currentArg);
        } catch (DataNormalizationException e) {
            throw new IllegalArgumentException(String.format("Invalid child encountered in path %s", path), e);
        }
        currentArguments.add(currentArg);
        org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier currentPath = org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.create(
            currentArguments);
        getDelegate().merge(store, currentPath, currentOp.createDefault(currentArg));
    }
}

@Override
public void delete(final LogicalDatastoreType store, final InstanceIdentifier<?> path) {
    doDelete(store, path);
}

@Override
public ListenableFuture<RpcResult<TransactionStatus>> commit() {
    return AbstractDataTransaction.convertToLegacyCommitFuture(submit());
}

@Override
public CheckedFuture<Void, TransactionCommitFailedException> submit() {
    return doSubmit();
}

@Override
public boolean cancel() {
    return doCancel();
}
package org.opendaylight.controller.md.sal.binding.impl;

import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataReadWriteTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import com.google.common.base.Optional;
import com.google.common.util.concurrent.CheckedFuture;

class BindingDataReadWriteTransactionImpl extends
    BindingDataWriteTransactionImpl<DOMDataReadWriteTransaction> implements ReadWriteTransaction {
    protected BindingDataReadWriteTransactionImpl(final DOMDataReadWriteTransaction delegate,
        final BindingToNormalizedNodeCodec codec) {
        super(delegate, codec);
    }

    @Override
    public <T extends DataObject> CheckedFuture<Optional<T>, ReadFailedException> read(
        final LogicalDatastoreType store, final InstanceIdentifier<T> path) {
        return doRead(getDelegate(), store, path);
    }
}

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package org.opendaylight.controller.md.sal.binding.impl;

import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataReadWriteTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import com.google.common.base.Optional;
import com.google.common.util.concurrent.CheckedFuture;

class BindingDataReadWriteTransactionImpl extends
    BindingDataWriteTransactionImpl<DOMDataReadWriteTransaction> implements ReadWriteTransaction {
    protected BindingDataReadWriteTransactionImpl(final DOMDataReadWriteTransaction delegate,
        final BindingToNormalizedNodeCodec codec) {
        super(delegate, codec);
    }

    @Override
    public <T extends DataObject> CheckedFuture<Optional<T>, ReadFailedException> read(
        final LogicalDatastoreType store, final InstanceIdentifier<T> path) {
        return doRead(getDelegate(), store, path);
    }
}

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/** Generated file */

* Generated from: yang module name: opendaylight-sal-binding-broker-impl yang module local name: binding-broker-impl
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package org.opendaylight.controller.config.yang.md.sal.binding.impl;

public class BindingBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractBindingBrokerImplModuleFactory {

}

package org.opendaylight.controller.config.yang.md.sal.binding.impl;

public class NotificationBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractNotificationBrokerImplModuleFactory {

}

package org.opendaylight.controller.config.yang.md.sal.binding.impl;

import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.controller.sal.binding.impl.NotificationBrokerImpl;
import com.google.common.util.concurrent.ListeningExecutorService;

public final class NotificationBrokerImplModule extends
    super(identifier, dependencyResolver, oldModule, oldInstance);
}

@Override
public void validate() {
    super.validate();
    // Add custom validation for module attributes here.
}

@Override
public java.lang.AutoCloseable createInstance() {
    ListeningExecutorService listeningExecutor = SingletonHolder.getDefaultNotificationExecutor();
    NotificationBrokerImpl broker = new NotificationBrokerImpl(listeningExecutor);
    return broker;
}

import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.controller.sal.binding.impl.RootBindingAwareBroker;
import org.opendaylight.controller.sal.binding.impl.RpcProviderRegistryImpl;
import org.opendaylight.controller.sal.binding.impl.forward.DomForwardedBindingBrokerImpl;
import org.opendaylight.controller.sal.binding.impl.forward.DomForwardingUtils;

/**
 *
 */
public final class BindingBrokerImplModule extends
org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractBindingBrokerImplModule {

public BindingBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
    super(identifier, dependencyResolver);
}

public BindingBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
final BindingBrokerImplModule oldModule, final java.lang.AutoCloseable oldInstance) {
    super(identifier, dependencyResolver, oldModule, oldInstance);
}

@Override
public void validate() {
    super.validate();
}

@Override
public java.lang.AutoCloseable createInstance() {

    RootBindingAwareBroker broker;
    if (DomForwardingUtils.isDomForwardedBroker(getDataBrokerDependency())) {
        broker = createForwardedBroker();
    } else {
        broker = createStandaloneBroker();
    }
    broker.start();
    return broker;
}

private RootBindingAwareBroker createStandaloneBroker() {
    RootBindingAwareBroker broker = new RootBindingAwareBroker(getIdentifier().getInstanceName());
    broker.setLegacyDataBroker(getDataBrokerDependency());
    broker.setNotificationBroker(getNotificationServiceDependency());
    broker.setRpcBroker(new RpcProviderRegistryImpl(broker.getIdentifier()));
    broker.setDataBroker(getRootDataBrokerDependency());
    return broker;
}
private RootBindingAwareBroker createForwardedBroker() {
    DomForwardedBindingBrokerImpl broker = new DomForwardedBindingBrokerImpl(getIdentifier().getInstanceName());

    broker.setLegacyDataBroker(getDataBrokerDependency());
    broker.setNotificationBroker(getNotificationServiceDependency());
    broker.setRpcBroker(new RpcProviderRegistryImpl(broker.getIdentifier()));

    broker.getMountManager().setDataCommitExecutor(SingletonHolder.getDefaultCommitExecutor());
    broker.getMountManager().setNotificationExecutor(SingletonHolder.getDefaultNotificationExecutor());

    broker.setDataBroker(getRootDataBrokerDependency());
    DomForwardingUtils.reuseForwardingFrom(broker, broker.getDataBroker());
    broker.startForwarding();
    return broker;
}
public RpcBrokerImplModule(org.opendaylight.controller.config.api.ModuleIdentifier identifier,
        org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

public RpcBrokerImplModule(org.opendaylight.controller.config.api.ModuleIdentifier identifier,
        org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
        RpcBrokerImplModule oldModule, java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

@Override
public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

@Override
public java.lang.AutoCloseable createInstance() {
        // TODO:implement
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

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package org.opendaylight.controller.config.yang.md.sal.binding.impl;

import com.google.common.util.concurrent.ListeningExecutorService;
import java.util.Collection;
import java.util.Collections;
import org.opendaylight.controller.md.sal.binding.impl.BindingToNormalizedNodeCodec;
import org.opendaylight.controller.md.sal.binding.impl.ForwardedBackwardsCompatibleDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.controller.sal.binding.impl.connect.dom.BindingDomConnectorDeployer;
import org.opendaylight.controller.sal.core.api.Broker;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.model.SchemaService;

/**
* 
*/
public final class ForwardedCompatibleDataBrokerImplModule extends
org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractForwardedCompatibleDataBrokerImplModule
implements Provider {  

public ForwardedCompatibleDataBrokerImplModule(
    final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
    final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
  super(identifier, dependencyResolver);
}

public ForwardedCompatibleDataBrokerImplModule(
    final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
    final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
    final ForwardedCompatibleDataBrokerImplModule oldModule, final java.lang.AutoCloseable oldInstance) {  
  super(identifier, dependencyResolver, oldModule, oldInstance);
}

@Override
protected void customValidation() {
  // Add custom validation for module attributes here.
}

@Override
public java.lang.AutoCloseable createInstance() {
  ListeningExecutorService listeningExecutor = SingletonHolder.getDefaultCommitExecutor();
  BindingToNormalizedNodeCodec mappingService = getBindingMappingServiceDependency();

  Broker domBroker = getDomAsyncBrokerDependency();
  ProviderSession session = domBroker.registerProvider(this, null);
  DOMDataBroker domDataBroker = session.getService(DOMDataBroker.class);
  SchemaService schemaService = session.getService(SchemaService.class);
  ForwardedBackwardsCompatibleDataBroker dataBroker = new
  ForwardedBackwardsCompatibleDataBroker(domDataBroker,
      mappingService, schemaService,listeningExecutor);

  dataBroker.setConnector(BindingDomConnectorDeployer.createConnector(mappingService.getLegacy()));
  dataBroker.setDomProviderContext(session);
  return dataBroker;
}

@Override
public void onSessionInitiated(final ProviderSession session) {

}

@Override
public Collection<ProviderFunctionality> getProviderFunctionality() {

return Collections.emptySet();
}
}
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*/
package org.opendaylight.controller.config.yang.md.sal.binding.impl;

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*/
package org.opendaylight.controller.sal.binding.impl.forward;

import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.opendaylight.controller.sal.binding.api.mount.MountProviderInstance;
import org.opendaylight.controller.sal.binding.impl.RootBindingAwareBroker;
import org.opendaylight.controller.sal.binding.impl.connect.dom.BindingDomConnectorDeployer;
import org.opendaylight.controller.sal.binding.impl.connect.dom.BindingIndependentConnector;
import org.opendaylight.yangtools.yang.data.impl.codec.DeserializationException;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionInstance;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionService;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionListener;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

public class DomForwardedBindingBrokerImpl extends RootBindingAwareBroker implements
DomForwardedBroker {

    private ProviderSession domProviderContext;
    private BindingIndependentConnector connector;

    private MountProvisionService domMountService;

    private final DomMountPointForwardingManager domForwardingManager = new DomMountPointForwardingManager();
    private final BindingMountPointForwardingManager bindingForwardingManager = new BindingMountPointForwardingManager();

    private ConcurrentMap<InstanceIdentifier<?>, BindingIndependentConnector> connectors = new ConcurrentHashMap<>();
    private ConcurrentMap<InstanceIdentifier<?>, org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier> forwarded = new ConcurrentHashMap<>();
    private ListenerRegistration<MountProvisionListener> domListenerRegistration;
    private ListenerRegistration<org.opendaylight.controller.sal.binding.api.mount.MountProviderService.MountProvisionListe
    nert> baListenerRegistration;

    public DomForwardedBindingBrokerImpl(String instanceName) {
        super(instanceName);
    }

    @Override
    public BindingIndependentConnector getConnector() {
        return connector;
    }

    @Override
    public ProviderSession getDomProviderContext() {
        return domProviderContext;
    }

    @Override
    public void setConnector(BindingIndependentConnector connector) {
        this.connector = connector;
    }

    @Override
    public void setDomProviderContext(ProviderSession domProviderContext) {
        this.domProviderContext = domProviderContext;
    }

    @Override
    public void startForwarding() {

    }
BindingDomConnectorDeployer.startDataForwarding(getConnector(), getDataBroker(), getDomProviderContext());
BindingDomConnectorDeployer.startRpcForwarding(getConnector(), getRpcProviderRegistry(), getDomProviderContext());
BindingDomConnectorDeployer.startNotificationForwarding(getConnector(), getNotificationBroker(), getDomProviderContext());
startMountpointForwarding();
}

private void startMountpointForwarding() {
domMountService = getDomProviderContext().getService(MountProvisionService.class);
if (domMountService != null && getMountManager() != null) {
domListenerRegistration = domMountService.registerProvisionListener(domForwardingManager);
bाListenerRegistration = getMountManager().registerProvisionListener(bindingForwardingManager);
}
}

public MountProvisionService getDomMountService() {
return domMountService;
}

public void setDomMountService(MountProvisionService domMountService) {
this.domMountService = domMountService;
}

private void tryToDeployConnector(InstanceIdentifier<?> baPath, org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier biPath) {
org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier previous = forwarded.putIfAbsent(baPath, biPath);
if (previous != null) {
return;
}
MountProviderInstance baMountPoint = getMountManager().createOrGetMountPoint(baPath);
MountProvisionInstance domMountPoint = domMountService.createOrGetMountPoint(biPath);
BindingIndependentConnector connector = createForwarder(baPath, baMountPoint, domMountPoint);
connectors.put(baPath, connector);
}

private BindingIndependentConnector createForwarder(InstanceIdentifier<?> path, MountProviderInstance baMountPoint, MountProvisionInstance domMountPoint) {
BindingIndependentConnector mountConnector =
BindingDomConnectorDeployer.createConnector(getConnector());

BindingDomConnectorDeployer.startDataForwarding(mountConnector, baMountPoint, domMountPoint);
BindingDomConnectorDeployer.startRpcForwarding(mountConnector, baMountPoint, domMountPoint);
BindingDomConnectorDeployer.startNotificationForwarding(mountConnector, baMountPoint, domMountPoint);
// connector.setDomNotificationBroker(domMountPoint);
return mountConnector;
}

public synchronized void
tryToDeployDomForwarder(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier domPath) {
    InstanceIdentifier<?> baPath;
    try {
        baPath = connector.getMappingService().fromDataDom(domPath);
        BindingIndependentConnector potentialConnector = connectors.get(baPath);
        if (potentialConnector != null) {
            return;
        }
        tryToDeployConnector(baPath, domPath);
    } catch (DeserializationException e) {
    }
}

public synchronized void tryToDeployBindingForwarder(InstanceIdentifier<?> baPath) {
    BindingIndependentConnector potentialConnector = connectors.get(baPath);
    if (potentialConnector != null) {
        return;
    }
    org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier domPath =
        connector.getMappingService().toDataDom(baPath);
    tryToDeployConnector(baPath, domPath);
}

public synchronized void undeployBindingForwarder(InstanceIdentifier<?> baPath) {
    // FIXME: Implement closeMountPoint
}

public synchronized void undeployDomForwarder(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier biPath) {
    // FIXME: Implement closeMountPoint
}

private class DomMountPointForwardingManager implements MountProvisionListener {
    @Override
    public void onMountPointCreated(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier path) {
        tryToDeployDomForwarder(path);
    }

    @Override
    public void onMountPointRemoved(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier path) {
        undeployDomForwarder(path);
    }
}
private class BindingMountPointForwardingManager implements
    org.opendaylight.controller.sal.binding.api.mount.MountProviderService.MountProvisionListener {

    @Override
    public void onMountPointCreated(InstanceIdentifier<?> path) {
        tryToDeployBindingForwarder(path);
    }

    @Override
    public void onMountPointRemoved(InstanceIdentifier<?> path) {
        undeployBindingForwarder(path);
    }

    }

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     * and is available at http://www.eclipse.org/legal/epl-v10.html
     */
    package org.opendaylight.controller.sal.binding.impl;

    import java.util.Map;
    import java.util.Map.Entry;
    import java.util.Set;
    import java.util.concurrent.atomic.AtomicLong;

    import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
    import org.opendaylight.controller.md.sal.common.api.data.DataReader;
    import org.opendaylight.controller.md.sal.common.impl.routing.AbstractDataReadRouter;
    import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataBroker;
    import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
    import org.opendaylight.controller.sal.binding.api.data.DataProviderService;
    import org.opendaylight.yangtools.concepts.Registration;
    import org.opendaylight.yangtools.yang.binding.DataObject;
    import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
    import org.opendaylight.yangtools.yang.binding.util.DataObjectReadingUtil;

    import com.google.common.base.Predicate;
    import com.google.common.collect.ImmutableList;
    import com.google.common.collect.ImmutableMap;
    import com.google.common.collect.ImmutableMap.Builder;
    import com.google.common.collect.Maps;
public class DataBrokerImpl extends AbstractDataBroker<InstanceIdentifier<? extends DataObject>, DataObject, DataChangeListener> // implements DataProviderService, AutoCloseable {

private final static class ContainsWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public ContainsWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

private final static class IsContainedWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public IsContainedWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return input.containsWildcarded(key);
    }
}

private final AtomicLong nextTransaction = new AtomicLong();
private final AtomicLong createdTransactionsCount = new AtomicLong();
private final DelegatingDataReadRouter router = new DelegatingDataReadRouter();
private DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject> rootCommitHandler;

public DataBrokerImpl() {
    setDataReadRouter(router);
}

public void setDataReadDelegate(final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> delegate) {
    router.setDelegate(delegate);
}
public AtomicLong getCreatedTransactionsCount() {
    return createdTransactionsCount;
}

@Override
public DataTransactionImpl beginTransaction() {
    String transactionId = "BA-" + nextTransaction.getAndIncrement();
    createdTransactionsCount.getAndIncrement();
    return new DataTransactionImpl(transactionId, this);
}

@Override
public void close() {
}

@Override
protected Predicate<InstanceIdentifier<? extends DataObject>> createContainsPredicate(final InstanceIdentifier<? extends DataObject> key) {
    return new ContainsWildcarded(key);
}

@Override
protected Predicate<InstanceIdentifier<? extends DataObject>> createIsContainedPredicate(final InstanceIdentifier<? extends DataObject> key) {
    return new IsContainedWildcarded(key);
}

@SuppressWarnings({ "unchecked", "rawtypes" })
@Override
protected Map<InstanceIdentifier<? extends DataObject>, DataObject> deepGetBySubpath(final Map<InstanceIdentifier<? extends DataObject>, DataObject> dataSet, final InstanceIdentifier<? extends DataObject> path) {
    Builder<InstanceIdentifier<? extends DataObject>, DataObject> builder = ImmutableMap.builder();
    Map<InstanceIdentifier<? extends DataObject>, DataObject> potential = Maps.filterKeys(dataSet, createIsContainedPredicate(path));
    for (Entry<InstanceIdentifier<? extends DataObject>, DataObject> entry : potential.entrySet()) {
        try {
            builder.putAll(DataObjectReadingUtil.readData(entry.getValue(), (InstanceIdentifier) entry.getKey(), path));
        } catch (Exception e) {
            // FIXME : Log exception;
        }
    }
    return builder.build();
}
public class DelegatingDataReadRouter extends AbstractDataReadRouter<InstanceIdentifier<? extends DataObject>, DataObject> {

    private DataReader<InstanceIdentifier<? extends DataObject>, DataObject> delegate;

    @Override
    public DataObject readConfigurationData(final InstanceIdentifier<? extends DataObject> path) {
        return delegate.readConfigurationData(path);
    }

    public void setDelegate(final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> delegate) {
        this.delegate = delegate;
    }

    @Override
    public DataObject readOperationalData(final InstanceIdentifier<? extends DataObject> path) {
        return delegate.readOperationalData(path);
    }

    @Override
    protected DataObject merge(final InstanceIdentifier<? extends DataObject> path, final Iterable<DataObject> data) {
        throw new UnsupportedOperationException("Not supported");
    }

    @Override
    public Registration registerConfigurationReader(final InstanceIdentifier<? extends DataObject> path, final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> reader) {
        throw new UnsupportedOperationException("Not supported");
    }

    @Override
    public Registration registerOperationalReader(final InstanceIdentifier<? extends DataObject> path, final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> reader) {
        throw new UnsupportedOperationException("Not supported");
    }

    @Override
    protected ImmutableList<DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject>> affectedCommitHandlers(final Set<InstanceIdentifier<? extends DataObject>> paths) {
        ImmutableList.Builder<DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject>> handlersBuilder = ImmutableList.builder();
        return handlersBuilder //
            .add(rootCommitHandler) //
public void setRootCommitHandler(final DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject> commitHandler) {
    rootCommitHandler = commitHandler;
}

package org.opendaylight.controller.sal.binding.impl;

import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataTransaction;
import org.opendaylight.controller.sal.binding.api.data.DataModificationTransaction;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

public class DataTransactionImpl extends AbstractDataTransaction<InstanceIdentifier<? extends DataObject>, DataObject>
    implements DataModificationTransaction {
    private final ListenerRegistry<DataTransactionListener> listeners = new ListenerRegistry<DataTransactionListener>();

    public DataTransactionImpl(Object identifier, DataBrokerImpl dataBroker) {
        super(identifier, dataBroker);
    }

    @Override
    public ListenerRegistration<DataTransactionListener> registerListener(DataTransactionListener listener) {
        return listeners.register(listener);
    }

    @Override
    protected void onStatusChange(TransactionStatus status) {
        for (ListenerRegistration<DataTransactionListener> listenerRegistration : listeners) {
            listenerRegistration.getInstance().onStatusUpdated(this, status);
        }
    }

    @Override
    public ListenerRegistration<DataTransactionListener> registerListener(DataTransactionListener listener) {
        return listeners.register(listener);
    }

    protected void onStatusChange(TransactionStatus status) {
        for (ListenerRegistration<DataTransactionListener> listenerRegistration : listeners) {
            listenerRegistration.getInstance().onStatusUpdated(this, status);
        }
    }
package org.opendaylight.controller.sal.binding.impl;

import com.google.common.util.concurrent.ListeningExecutorService;
import com.google.common.util.concurrent.MoreExecutors;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.Executors;
import org.opendaylight.controller.md.sal.binding.util.AbstractBindingSalProviderInstance;
import org.opendaylight.controller.sal.binding.api.mount.MountProviderInstance;
import org.opendaylight.controller.sal.binding.api.mount.MountProviderService;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class MountPointManagerImpl implements MountProviderService {
    public final Logger LOG = LoggerFactory.getLogger(MountPointManagerImpl.class);
    private final ConcurrentMap<InstanceIdentifier<?>, BindingMountPointImpl> mountPoints;
    private final ListenerRegistry<MountProvisionListener> listeners = ListenerRegistry.create();
    private ListeningExecutorService notificationExecutor;
    private ListeningExecutorService dataCommitExecutor;

    public MountPointManagerImpl() {
        mountPoints = new ConcurrentHashMap<>();
    }

    public ListeningExecutorService getNotificationExecutor() {
        return notificationExecutor;
    }

    public void setNotificationExecutor(final ListeningExecutorService notificationExecutor) {
        this.notificationExecutor = notificationExecutor;
    }

    public ListeningExecutorService getDataCommitExecutor() {
        return dataCommitExecutor;
    }

    public void setDataCommitExecutor(final ListeningExecutorService dataCommitExecutor) {
        this.dataCommitExecutor = dataCommitExecutor;
    }
}

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*/
public ListeningExecutorService getDataCommitExecutor() {
    return dataCommitExecutor;
}

generic void setDataCommitExecutor(final ListeningExecutorService dataCommitExecutor) {
    this.dataCommitExecutor = dataCommitExecutor;
}

@Override
public synchronized BindingMountPointImpl createMountPoint(final InstanceIdentifier<?> path) {
    BindingMountPointImpl potential = mountPoints.get(path);
    if (potential != null) {
        throw new IllegalStateException("Mount point already exists.");
    }
    return createOrGetMountPointImpl(path);
}

@Override
public BindingMountPointImpl createOrGetMountPoint(final InstanceIdentifier<?> path) {
    BindingMountPointImpl potential = getMountPoint(path);
    if (potential != null) {
        return potential;
    }
    return createOrGetMountPointImpl(path);
}

@Override
public BindingMountPointImpl getMountPoint(final InstanceIdentifier<?> path) {
    return mountPoints.get(path);
}

private synchronized BindingMountPointImpl createOrGetMountPointImpl(final InstanceIdentifier<?> path) {
    BindingMountPointImpl potential = getMountPoint(path);
    if (potential != null) {
        return potential;
    }
    RpcProviderRegistryImpl rpcRegistry = new RpcProviderRegistryImpl("mount");
    NotificationBrokerImpl notificationBroker = new NotificationBrokerImpl(getNotificationExecutor());
    DataBrokerImpl dataBroker = new DataBrokerImpl();
    dataBroker.setExecutor(MoreExecutors.listeningDecorator(Executors.newSingleThreadExecutor()));
    BindingMountPointImpl mountInstance = new BindingMountPointImpl(path, rpcRegistry, notificationBroker,
        dataBroker);
    mountPoints.putIfAbsent(path, mountInstance);
    notifyMountPointCreated(path);
    return mountInstance;
}

private void notifyMountPointCreated(final InstanceIdentifier<?> path) {
for (ListenerRegistration<MountProvisionListener> listener : listeners) {
    try {
        listener.getInstance().onMountPointCreated(path);
    } catch (Exception e) {
        LOG.error("Unhandled exception during invoking listener.", e);
    }
}

@Override
public ListenerRegistration<MountProvisionListener> registerProvisionListener(final MountProvisionListener listener) {
    return listeners.register(listener);
}

public class BindingMountPointImpl extends AbstractBindingSalProviderInstance<DataBrokerImpl, NotificationBrokerImpl, RpcProviderRegistryImpl> implements MountProviderInstance {
    private final InstanceIdentifier<?> identifier;

    public BindingMountPointImpl(final InstanceIdentifier<?> identifier, final RpcProviderRegistryImpl rpcRegistry, final NotificationBrokerImpl notificationBroker, final DataBrokerImpl dataBroker) {
        super(rpcRegistry, notificationBroker, dataBroker);
        this.identifier = identifier;
    }

    // Needed only for BI Connector
    public DataBrokerImpl getDataBrokerImpl() {
        return getDataBroker();
    }

    @Override
    public InstanceIdentifier<?> getIdentifier() {
        return this.identifier;
    }
}

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 */
import java.util.Set;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.atomic.AtomicReference;

import javax.annotation.concurrent.GuardedBy;

import org.opendaylight.controller.sal.binding.api.NotificationListener;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.Notification;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.HashMultimap;
import com.google.common.collect.Multimap;

public class NotificationBrokerImpl implements NotificationProviderService, AutoCloseable {
    private static final Logger LOG = LoggerFactory.getLogger(NotificationBrokerImpl.class);

    private final ListenerRegistry<NotificationInterestListener> interestListeners =
            ListenerRegistry.create();
    private final AtomicReference<ListenerMapGeneration> listeners = new AtomicReference<>(new
            ListenerMapGeneration());
    private final ExecutorService executor;

    public NotificationBrokerImpl(final ExecutorService executor) {
        this.executor = Preconditions.checkNotNull(executor);
    }

    @Override
    public void publish(final Notification notification) {
        publish(notification, executor);
    }

    @Override
    public void publish(final Notification notification, final ExecutorService service) {
        for (NotificationListenerRegistration<?> r : listeners.get().listenersFor(notification)) {
            service.submit(new NotifyTask(r, notification));
        }
    }

    @GuardedBy("this")
    private Multimap<Class<? extends Notification>, NotificationListenerRegistration<?>>
            mutableListeners() {

        // Implementation details...
    }

    // Other methods...
}
return HashMultimap.create(listeners.get().getListeners());
}

private final void addRegistrations(final NotificationListenerRegistration<?>... registrations) {
    synchronized (this) {
        final Multimap<Class<? extends Notification>, NotificationListenerRegistration<?>> newListeners =
            mutableListeners();
        for (NotificationListenerRegistration<?> reg : registrations) {
            newListeners.put(reg.getType(), reg);
        }

        listeners.set(new ListenerMapGeneration(newListeners));
    }

    // Notifications are dispatched out of lock...
    for (NotificationListenerRegistration<?> reg : registrations) {
        announceNotificationSubscription(reg.getType());
    }
}

private synchronized void removeRegistrations(final NotificationListenerRegistration<?>... registrations) {
    final Multimap<Class<? extends Notification>, NotificationListenerRegistration<?>> newListeners =
        mutableListeners();

    for (NotificationListenerRegistration<?> reg : registrations) {
        newListeners.remove(reg.getType(), reg);
    }

    listeners.set(new ListenerMapGeneration(newListeners));
}

private void announceNotificationSubscription(final Class<? extends Notification> notification) {
    for (final ListenerRegistration<NotificationInterestListener> listener : interestListeners) {
        try {
            listener.getInstance().onNotificationSubscription(notification);
        } catch (Exception e) {
            LOG.warn("Listener {} reported unexpected error on notification {}",
                     listener.getInstance(), notification, e);
        }
    }
}

@Override
public ListenerRegistration<NotificationInterestListener> registerInterestListener(final NotificationInterestListener interestListener) {
    final ListenerRegistration<NotificationInterestListener> registration =
        this.interestListeners.register(interestListener);

    return registration;
}
for (final Class<? extends Notification> notification : listeners.get().getKnownTypes()) {
    interestListener.onNotificationSubscription(notification);
}
return registration;
}

@Override
public <T extends Notification> NotificationListenerRegistration<T> registerNotificationListener(final Class<T> notificationType, final NotificationListener<T> listener) {
    final NotificationListenerRegistration<T> reg = new
    AbstractNotificationListenerRegistration<T>(notificationType, listener) {
        @Override
        protected void removeRegistration() {
            removeRegistrations(this);
        }
    };
    addRegistrations(reg);
    return reg;
}

@Override
public ListenerRegistration<org.opendaylight.yangtools.yang.binding.NotificationListener>
    registerNotificationListener(final org.opendaylight.yangtools.yang.binding.NotificationListener listener) {
    final NotificationInvoker invoker = SingletonHolder.INVOKER_FACTORY.invokerFor(listener);
    final Set<Class<? extends Notification>> types = invoker.getSupportedNotifications();
    final NotificationListenerRegistration<?>[] regs = new NotificationListenerRegistration<?>[types.size()];
    // Populate the registrations...
    int i = 0;
    for (Class<? extends Notification> type : types) {
        regs[i] = new AggregatedNotificationListenerRegistration<Notification, Object>(type,
            invoker.getInvocationProxy(), regs) {
            @Override
            protected void removeRegistration() {
                // Nothing to do, will be cleaned up by parent (below)
            }
        };
        i++;
    }
    // ... now put them to use ...
    addRegistrations(regs);
    // ... finally return the parent registration
    return new AbstractListenerRegistration<org.opendaylight.yangtools.yang.binding.NotificationListener>(listener) {
        @Override
        protected void removeRegistration() {
            removeRegistrations(this);
        }
    };
}
protected void removeRegistration() {
    removeRegistrations(regs);
    for (ListenerRegistration<? extends Listener> reg : regs) {
        reg.close();
    }
}

@Override
public void close() {
}

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.binding.impl;

import static com.google.common.base.Preconditions.checkState;
import java.util.EventListener;
import java.util.HashMap;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.atomic.AtomicBoolean;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChange;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangePublisher;
import org.opendaylight.controller.md.sal.common.impl.routing.RoutingUtils;
import org.opendaylight.controller.sal.binding.api.BindingAwareBroker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.binding.api.BindingAwareBroker.RpcRegistration;
import org.opendaylight.controller.sal.binding.api.RpcProviderRegistry;
import org.opendaylight.controller.sal.binding.api.rpc.RpcContextIdentifier;
import org.opendaylight.controller.sal.binding.api.rpc.RpcRouter;
import org.opendaylight.controller.sal.binding.codegen.RpcIsNotRoutedException;
import org.opendaylight.controller.sal.binding.codegen.RuntimeCodeGenerator;
import org.opendaylight.controller.sal.binding.codegen.RuntimeCodeHelper;
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.yangtools.concepts.AbstractObjectRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.BaseIdentity;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.RpcService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Throwables;
import com.google.common.cache.Cache;
import com.google.common.cache.CacheBuilder;
import com.google.common.cache.CacheLoader;
import com.google.common.cache.LoadingCache;
import com.google.common.util.concurrent.UncheckedExecutionException;

public class RpcProviderRegistryImpl implements RpcProviderRegistry,
RouteChangePublisher<RpcContextIdentifier, InstanceIdentifier<?>> {

    private RuntimeCodeGenerator rpcFactory = SingletonHolder.RPC_GENERATOR_IMPL;

    // cache of proxy objects where each value in the map corresponds to a specific RpcService
    private final LoadingCache<Class<? extends RpcService>, RpcService> publicProxies =
    CacheBuilder.newBuilder().weakKeys().
    build(new CacheLoader<Class<? extends RpcService>, RpcService>() {
        @Override
        public RpcService load(final Class<? extends RpcService> type) {
            final RpcService proxy = rpcFactory.getDirectProxyFor(type);
            LOG.debug("Created {} as public proxy for {} in {}", proxy, type.getSimpleName(), this);
            return proxy;
        }
    });

    private final Cache<Class<? extends RpcService>, RpcRouter<?>> rpcRouters =
    CacheBuilder.newBuilder().weakKeys().
    build();

    private final ListenerRegistry<RouteChangeListener<RpcContextIdentifier, InstanceIdentifier<?>>> routeChangeListeners =
    ListenerRegistry.create();
    private final ListenerRegistry<RouterInstantiationListener> routerInstantiationListener =
    ListenerRegistry.create();

    private final static Logger LOG = LoggerFactory.getLogger(RpcProviderRegistryImpl.class);
    private final String name;
    private final ListenerRegistry<GlobalRpcRegistrationListener> globalRpcListeners = ListenerRegistry.create();
}
public String getName() {
    return name;
}

public RpcProviderRegistryImpl(final String name) {
    super();
    this.name = name;
}

@Override
public final <T extends RpcService> RoutedRpcRegistration<T> addRoutedRpcImplementation(final Class<T>
    type,
    final T implementation) throws IllegalStateException {
    return getRpcRouter(type).addRoutedRpcImplementation(implementation);
}

@Override
public final <T extends RpcService> RpcRegistration<T> addRpcImplementation(final Class<T> type, final T
    implementation) throws IllegalStateException {
    // FIXME: This should be well documented - addRpcImplementation for
    // routed RPCs
    try {
        // Note: If RPC is really global, expected count of registrations
        // of this method is really low.
        RpcRouter<T> potentialRouter = getRpcRouter(type);
        checkState(potentialRouter.getDefaultService() == null,
            "Default service for routed RPC already registered.");
        return potentialRouter.registerDefaultService(implementation);
    } catch (RpcIsNotRoutedException e) {
        // NOOP - we could safely continue, since RPC is not routed
        // so we fallback to global routing.
        LOG.debug("RPC is not routed. Using global registration.",e);
    }
    T publicProxy = getRpcService(type);
    RpcService currentDelegate = RuntimeCodeHelper.getDelegate(publicProxy);
    checkState(currentDelegate == null, "Rpc service is already registered");
    LOG.debug("Registering {} as global implementation of {} in {}", implementation, type.getSimpleName(),
        this);
    RuntimeCodeHelper.setDelegate(publicProxy, implementation);
    notifyGlobalRpcAdded(type);
    return new RpcProxyRegistration<T>(type, implementation, this);
}

@SuppressWarnings("unchecked")
@Override
public final <T extends RpcService> T getRpcService(final Class<T> type) {

return (T) publicProxies.getUnchecked(type);
}

public <T extends RpcService> RpcRouter<T> getRpcRouter(final Class<T> type) {
    try {
        final AtomicBoolean created = new AtomicBoolean(false);
        @SuppressWarnings( "unchecked"")
        // LoadingCache is unsuitable for RpcRouter since we need to distinguish
        // first creation of RPC Router, so that is why
        // we are using normal cache with load API and shared AtomicBoolean
        // for this call, which will be set to true if router was created.
        RpcRouter<T> router = (RpcRouter<T>) rpcRouters.get(type,new Callable<RpcRouter<?>>() {
            @Override
            public org.opendaylight.controller.sal.binding.api.rpc.RpcRouter<?> call() {
                RpcRouter<?> router = rpcFactory.getRouterFor(type, name);
                router.registerRouteChangeListener(new RouteChangeForwarder<T>(type));
                LOG.debug("Registering router {} as global implementation of {} in ", router, type.getSimpleName(),
                        this);
                RuntimeCodeHelper.setDelegate(getRpcService(type), router.getInvocationProxy());
                created.set(true);
                return router;
            }
        }).get();
        if(created.get()) {
            notifyListenersRoutedCreated(router);
        }
        return router;
    } catch (ExecutionException | UncheckedExecutionException e) {
        // We rethrow Runtime Exceptions which were wrapped by
        // Execution Exceptions
        // otherwise we throw IllegalStateException with original
        Throwables.propagateIfPossible(e.getCause());
        throw new IllegalStateException("Could not load RPC Router for "+type.getName(),e);
    }
}

private void notifyGlobalRpcAdded(final Class<? extends RpcService> type) {
    for(ListenerRegistration<GlobalRpcRegistrationListener> listener : globalRpcListeners) {
        try {
            listener.getInstance().onGlobalRpcRegistered(type);
        } catch (Exception e) {
            LOG.error("Unhandle exception during invoking listener ", e);
        }
    }
}
private void notifyListenersRoutedCreated(final RpcRouter<?> router) {

    for (ListenerRegistration<RouterInstantiationListener> listener : routerInstantiationListener) {
        try {
            listener.getInstance().onRpcRouterCreated(router);
        } catch (Exception e) {
            LOG.error("Unhandled exception during invoking listener ", e);
        }
    }
}

public ListenerRegistration<RouterInstantiationListener> registerRouterInstantiationListener(
    final RouterInstantiationListener listener) {
    ListenerRegistration<RouterInstantiationListener> reg = routerInstantiationListener.register(listener);
    try {
        for (RpcRouter<?> router : rpcRouters.asMap().values()) {
            listener.onRpcRouterCreated(router);
        }
    } catch (Exception e) {
        LOG.error("Unhandled exception during invoking listener ", e);
    }
    return reg;
}

@SuppressWarnings("unchecked")
@Override
public <L extends RouteChangeListener<RpcContextIdentifier, InstanceIdentifier<?>>> ListenerRegistration<L> registerRouteChangeListener(
    final L listener) {
    return (ListenerRegistration<L>) routeChangeListeners.register(listener);
}

public RuntimeCodeGenerator getRpcFactory() {
    return rpcFactory;
}

public void setRpcFactory(final RuntimeCodeGenerator rpcFactory) {
    this.rpcFactory = rpcFactory;
}

public interface RouterInstantiationListener extends EventListener {
    void onRpcRouterCreated(RpcRouter<?> router);
}

public ListenerRegistration<GlobalRpcRegistrationListener> registerGlobalRpcRegistrationListener(final
    GlobalRpcRegistrationListener listener) {
return globalRpcListeners.register(listener);
}

public interface GlobalRpcRegistrationListener extends EventListener {
    void onGlobalRpcRegistered(Class<? extends RpcService> cls);
    void onGlobalRpcUnregistered(Class<? extends RpcService> cls);
}

private class RouteChangeForwarder<T extends RpcService> implements RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>> {

    private final Class<T> type;

    public RouteChangeForwarder(final Class<T> type) {
        this.type = type;
    }

    @Override
    public void onRouteChange(final RouteChange<Class<? extends BaseIdentity>, InstanceIdentifier<?>> change) {

        Map<RpcContextIdentifier, Set<InstanceIdentifier<?>>> announcements = new HashMap<>();
        for (Entry<Class<? extends BaseIdentity>, Set<InstanceIdentifier<?>> entry : change.getAnnouncements().entrySet()) {
            RpcContextIdentifier key = RpcContextIdentifier.contextFor(type, entry.getKey());
            announcements.put(key, entry.getValue());
        }

        Map<RpcContextIdentifier, Set<InstanceIdentifier<?>>> removals = new HashMap<>();
        for (Entry<Class<? extends BaseIdentity>, Set<InstanceIdentifier<?>> entry : change.getRemovals().entrySet()) {
            RpcContextIdentifier key = RpcContextIdentifier.contextFor(type, entry.getKey());
            removals.put(key, entry.getValue());
        }

        RouteChange<RpcContextIdentifier, InstanceIdentifier<?>> toPublish = RoutingUtils.change(announcements, removals);
        for (ListenerRegistration<RouteChangeListener<RpcContextIdentifier, InstanceIdentifier<?>>> listener : routeChangeListeners) {
            try {
                listener.getInstance().onRouteChange(toPublish);
            } catch (Exception e) {
                LOG.error("Un handled exception during invoking listener", listener.getInstance(), e);
            }
        }
    }
}

public static class RpcProxyRegistration<T extendsRpcService> extends AbstractObjectRegistration<T> implements RpcRegistration<T> {
private final Class<T> serviceType;
private RpcProviderRegistryImpl registry;

public RpcProxyRegistration(final Class<T> type, final T service, final RpcProviderRegistryImpl registry) {
    super(service);
    this.serviceType = type;
    this.registry = registry;
}

@Override
public Class<T> getServiceType() {
    return serviceType;
}

@Override
protected void removeRegistration() {
    if (registry != null) {
        T publicProxy = registry.getRpcService(serviceType);
        RpcService currentDelegate = RuntimeCodeHelper.getDelegate(publicProxy);
        if (currentDelegate == getInstance()) {
            RuntimeCodeHelper.setDelegate(publicProxy, null);
        }
        registry = null;
    }
}

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 */
package org.opendaylight.controller.sal.binding.codegen.impl;

import java.util.Collections;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangePublisher;
import org.opendaylight.controller.md.sal.common.impl.routing.RoutingUtils;
import org.opendaylight.yangtools.concepts.AbstractObjectRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.Mutable;
import org.opendaylight.yangtools.yang.binding.BaseIdentity;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.RpcService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

class RpcRoutingTableImpl<C extends BaseIdentity, S extends RpcService> //
    implements //
    Mutable, //
    RpcRoutingTable<C, S>, //
    RouteChangePublisher<Class<? extends BaseIdentity>, InstanceIdentifier<?>> {

private static final Logger LOGGER = LoggerFactory.getLogger(RpcRoutingTableImpl.class);
private final String routerName;
private final Class<S> serviceType;
private final Class<C> contextType;
private final ConcurrentMap<InstanceIdentifier<?>, S> routes;
private final Map<InstanceIdentifier<?>, S> unmodifiableRoutes;
private RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>> listener;
private S defaultRoute;

public RpcRoutingTableImpl(String routerName, Class<C> contextType, Class<S> serviceType) {
    super();
    this.routerName = routerName;
    this.serviceType = serviceType;
    this.contextType = contextType;
    this.routes = new ConcurrentHashMap<>();
    this.unmodifiableRoutes = Collections.unmodifiableMap(routes);
}

@Override
public void setDefaultRoute(S target) {
    defaultRoute = target;
}

@Override
public S getDefaultRoute() {
    return defaultRoute;
}

@Override
public <L extends RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>>
ListenerRegistration<L> registerRouteChangeListener(
    L listener) {
    return new SingletonListenerRegistration<L>(listener);
}
@Override
public Class<C> getIdentifier() {
    return contextType;
}

@Override
@SuppressWarnings("unchecked")
public void updateRoute(InstanceIdentifier<?> path, S service) {
    S previous = this.routes.put(path, service);

    LOGGER.debug("Route {} updated to {} in routing table ", path, service, this);
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (previous == null && listenerCapture != null) {
        listenerCapture.onRouteChange(RoutingUtils.announcementChange(contextType, path));
    }
}

@SuppressWarnings("unchecked")
public void removeRoute(InstanceIdentifier<?> path) {
    S previous = this.routes.remove(path);
    LOGGER.debug("Route {} to {} removed in routing table ", path, previous, this);
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (previous != null && listenerCapture != null) {
        listenerCapture.onRouteChange(RoutingUtils.removalChange(contextType, path));
    }
}

public void removeRoute(InstanceIdentifier<?> path, S service) {
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (routes.remove(path, service) && listenerCapture != null) {
        LOGGER.debug("Route {} to {} removed in routing table ", path, service, this);
        listenerCapture.onRouteChange(RoutingUtils.removalChange(contextType, path));
    }
}

@SuppressWarnings("unchecked")
public S getRoute(InstanceIdentifier<?> nodeInstance) {
    S route = routes.get(nodeInstance);
    if (route != null) {
        return route;
    }
}


return getDefaultRoute();
}

@Override
public Map<InstanceIdentifier<?>, S> getRoutes() {
    return unmodifiableRoutes;
}

protected void removeAllReferences(S service) {
}

@Override
public String toString() {
    return "RpcRoutingTableImpl [router=" + routerName + ", service=" + serviceType.getSimpleName() + ",
    context="
    + contextType.getSimpleName() + "]";
}

private class SingletonListenerRegistration<L extends RouteChangeListener<Class<? extends BaseIdentity>,
    InstanceIdentifier<?>>> extends
    AbstractObjectRegistration<L>
    implements ListenerRegistration<L> {

    public SingletonListenerRegistration(L instance) {
        super(instance);
        listener = instance;
    }

    @Override
    protected void removeRegistration() {
        listener = null;
    }
}

4.156 sal-binding-config 1.1.1-Helium-SR1

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4.158 sal-broker-impl 1.1.1-Helium-SR1

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     */

    package org.opendaylight.controller.md.sal.dom.broker.impl.jmx;

    /**
     * MXBean interface for retrieving write Tx commit statistics.
     */
* @author Thomas Pantelis
*

public interface CommitStatsMXBean {

    /**
     * Returns the total number of commits that have occurred.
     * /
    long getTotalCommits();

    /**
     * Returns a string representing the time duration of the longest commit, in the appropriate
     * scaled units, along with the date/time that it occurred.
     * /
    String getLongestCommitTime();

    /**
     * Returns a string representing the time duration of the shortest commit, in the appropriate
     * scaled units, along with the date/time that it occurred.
     * /
    String getShortestCommitTime();

    /**
     * Returns a string representing average commit time duration, in the appropriate
     * scaled units.
     * /
    String getAverageCommitTime();

    /**
     * Clears the current stats to their defaults.
     * /
    void clearStats();
}

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*/

package org.opendaylight.controller.md.sal.dom.broker.impl.jmx;

import javax.annotation.Nonnull;
import org.opendaylight.controller.md.sal.common.util.jmx.AbstractMXBean;
import org.opendaylight.yangtools.util.DurationStatisticsTracker;

/**
 * Implementation of the CommitStatsMXBean interface.
 */
public class CommitStatsMXBeanImpl extends AbstractMXBean implements CommitStatsMXBean {

    private final DurationStatisticsTracker commitStatsTracker;

    /**
     * Constructor.
     *
     * @param commitStatsTracker the DurationStatsTracker used to obtain the stats.
     * @param mBeanType mBeanType Used as the <code>type</code> property in the bean's ObjectName.
     */
    public CommitStatsMXBeanImpl(@Nonnull DurationStatisticsTracker commitStatsTracker,
                                  @Nonnull String mBeanType) {
        super("CommitStats", mBeanType, null);
        this.commitStatsTracker = commitStatsTracker;
    }

    @Override
    public long getTotalCommits() {
        return commitStatsTracker.getTotalDurations();
    }

    @Override
    public String getLongestCommitTime() {
        return commitStatsTracker.getDisplayableLongestDuration();
    }

    @Override
    public String getShortestCommitTime() {
        return commitStatsTracker.getDisplayableShortestDuration();
    }

    @Override
    public String getAverageCommitTime() {
        return commitStatsTracker.getDisplayableAverageDuration();
    }

    @Override
    public void clearStats() {
        commitStatsTracker.reset();
    }
}

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public class DOMMountPointServiceImpl implements DOMMountPointService {

    private final Map<YangInstanceIdentifier, DOMMountPoint> mountPoints = new HashMap<>();

    private final ListenerRegistry<MountProvisionListener> listeners = ListenerRegistry.create();

    @Override
    public Optional<DOMMountPoint> getMountPoint(final YangInstanceIdentifier path) {
        return Optional.fromNullable(mountPoints.get(path));
    }

    @Override
    public DOMMountPointBuilder createMountPoint(final YangInstanceIdentifier path) {
        Preconditions.checkState(!mountPoints.containsKey(path), "Mount point already exists");
        return new DOMMountPointBuilderImpl(path);
    }

    public void notifyMountCreated(final YangInstanceIdentifier identifier) {
        for (final ListenerRegistration<MountProvisionListener> listener : listeners.getListeners()) {
            listener.getInstance().onMountPointCreated(identifier);
        }
    }

    public void notifyMountRemoved(final YangInstanceIdentifier identifier) {
    }
}
for (final ListenerRegistration<MountProvisionListener> listener : listeners.getListeners()) {
    listener.getInstance().onMountPointRemoved(identifier);
}

@Override
public ListenerRegistration<MountProvisionListener> registerProvisionListener(final MountProvisionListener listener) {
    return listeners.register(listener);
}

public ObjectRegistration<DOMMountPoint> registerMountPoint(final DOMMountPoint mountPoint) {
    synchronized (mountPoints) {
        Preconditions.checkState(!mountPoints.containsKey(mountPoint.getIdentifier()), "Mount point already exists");
        mountPoints.put(mountPoint.getIdentifier(), mountPoint);
    }
    notifyMountCreated(mountPoint.getIdentifier());

    return new MountRegistration(mountPoint);
}

public void unregisterMountPoint(final YangInstanceIdentifier mountPointId) {
    synchronized (mountPoints) {
        Preconditions.checkState(mountPoints.containsKey(mountPointId), "Mount point does not exist");
        mountPoints.remove(mountPointId);
    }
    notifyMountRemoved(mountPointId);
}

public class DOMMountPointBuilderImpl implements DOMMountPointBuilder {

    private final YangInstanceIdentifier path;
    private SchemaContext schemaContext;

    public DOMMountPointBuilderImpl(final YangInstanceIdentifier path) {
        this.path = path;
    }

    @Override
    public <T extends DOMService> DOMMountPointBuilder addService(final Class<T> type, final T impl) {
        services.putInstance(type, impl);
        return this;
    }

    ClassToInstanceMap<DOMService> services = MutableClassToInstanceMap.create();
    private SimpleDOMMountPoint mountPoint;
    private final YangInstanceIdentifier path;
    private SchemaContext schemaContext;

    public DOMMountPointBuilderImpl(final YangInstanceIdentifier path) {
        this.path = path;
    }

    @Override
    public <T extends DOMService> DOMMountPointBuilder addService(final Class<T> type, final T impl) {
        services.putInstance(type, impl);
        return this;
    }
}
@Override
public DOMMountPointBuilder addInitialSchemaContext(final SchemaContext ctx) {
    schemaContext = ctx;
    return this;
}

@Override
public ObjectRegistration<DOMMountPoint> register() {
    Preconditions.checkState(mountPoint == null, "Mount point is already built.");
    mountPoint = SimpleDOMMountPoint.create(path, services, schemaContext);
    return registerMountPoint(mountPoint);
}

private final class MountRegistration implements ObjectRegistration<DOMMountPoint> {
    private final DOMMountPoint mountPoint;

    public MountRegistration(final DOMMountPoint mountPoint) {
        this.mountPoint = mountPoint;
    }

    @Override
    public DOMMountPoint getInstance() {
        return mountPoint;
    }

    @Override
    public void close() throws Exception {
        unregisterMountPoint(mountPoint.getIdentifier());
    }
}

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 */
package org.opendaylight.controller.md.sal.dom.broker.impl;

import com.google.common.util.concurrent.CheckedFuture;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;

/**
 * Executor of Three Phase Commit coordination for
* { @link DOMDataWriteTransaction} transactions.
* 
* Implementations are responsible for executing implementation of three-phase
* commit protocol on supplied { @link DOMStoreThreePhaseCommitCohort}s.
* 
* */
public interface DOMDataCommitExecutor {

/**
 * Submits supplied transaction to be executed in context of provided
 * cohorts.
 *
 * Transaction is used only as a context, cohorts should be associated with
 * this transaction.
 *
 * @param tx
 *              Transaction to be used as context for reporting
 * @param cohort
 *              DOM Store cohorts representing provided transaction, its
 *              subtransactions.
 * @return a CheckedFuture. if commit coordination on cohorts finished successfully,
 *         nothing is returned from the Future, On failure,
 *         the Future fails with a { @link TransactionCommitFailedException}.
 * 
 */
CheckedFuture<Void,TransactionCommitFailedException> submit(DOMDataWriteTransaction tx,
        Iterable<DOMStoreThreePhaseCommitCohort> cohort);
}

/*
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 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.dom.broker.impl;

import static com.google.common.base.Preconditions.checkState;
import com.google.common.base.Preconditions;
import com.google.common.base.Preconditions;  
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.ListeningExecutorService;
import java.util.EnumMap;
import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;

import static com.google.common.base.Preconditions.checkNotNull;
public class DOMDataBrokerImpl extends AbstractDOMForwardedTransactionFactory<DOMStore> implements DOMDataBroker, AutoCloseable {
    private static final Logger LOG = LoggerFactory.getLogger(DOMDataBrokerImpl.class);

    private final DOMDataCommitExecutor coordinator;
    private final AtomicLong txNum = new AtomicLong();
    private final AtomicLong chainNum = new AtomicLong();
    private volatile AutoCloseable closeable;

    public DOMDataBrokerImpl(final Map<LogicalDatastoreType, DOMStore> datastores, final ListeningExecutorService executor) {
        this(datastores, new DOMDataCommitCoordinatorImpl(executor));
    }

    public DOMDataBrokerImpl(final Map<LogicalDatastoreType, DOMStore> datastores, final DOMDataCommitExecutor coordinator) {
        super(datastores);
        this.coordinator = Preconditions.checkNotNull(coordinator);
    }

    public void setCloseable(final AutoCloseable closeable) {
        this.closeable = closeable;
    }

    @Override
    public void close() {
        super.close();
        if(closeable != null) {
            try {
                closeable.close();
            } catch(Exception e) {
                LOG.debug(e.getMessage(), e);
            }
        }
    }
}
LOG.debug("Error closing instance", e);
}
}

@Override
protected Object newTransactionIdentifier() {
    return "DOM-" + txNum.getAndIncrement();
}

@Override
public ListenerRegistration&lt;DOMDataChangeListener&gt; registerDataChangeListener(final LogicalDatastoreType store,
    final YangInstanceIdentifier path, final DOMDataChangeListener listener, final DataChangeScope triggeringScope) {
    DOMStore potentialStore = getTxFactories().get(store);
    checkState(potentialStore != null, "Requested logical data store is not available.");
    return potentialStore.registerChangeListener(path, listener, triggeringScope);
}

@Override
public DOMTransactionChain createTransactionChain(final TransactionChainListener listener) {
    checkNotClosed();

    final Map&lt;LogicalDatastoreType, DOMStoreTransactionChain&gt; backingChains = new EnumMap<>(LogicalDatastoreType.class);
    for (Entry&lt;LogicalDatastoreType, DOMStore&gt; entry : getTxFactories().entrySet()) {
        backingChains.put(entry.getKey(), entry.getValue().createTransactionChain());
    }

    final long chainId = chainNum.getAndIncrement();
    LOG.debug("Transaction chain {} created with listener {}, backing store chains {}", chainId, listener,
        backingChains);
    return new DOMDataBrokerTransactionChainImpl(chainId, backingChains, coordinator, listener);
}

@Override
public CheckedFuture&lt;Void,TransactionCommitFailedException&gt; submit(final DOMDataWriteTransaction transaction,
    final Iterable&lt;DOMStoreThreePhaseCommitCohort&gt; cohorts) {
    LOG.debug("Transaction: {} submitted with cohorts {}.", transaction.getIdentifier(), cohorts);
    return coordinator.submit(transaction, cohorts);
}

/*
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*/
import com.google.common.base.Preconditions;
import com.google.common.base.Throwables;
import com.google.common.collect.Iterables;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;
import com.google.common.util.concurrent.ListeningExecutorService;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.RejectedExecutionException;
import java.util.concurrent.atomic.AtomicReferenceFieldUpdater;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.yangtools.util.concurrent.MappingCheckedFuture;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Implementation of blocking three-phase commit coordinator, which which
 * supports coordination on multiple {@link DOMStoreThreePhaseCommitCohort}.
 *
 * This implementation does not support cancelation of commit,
 *
 * In order to advance to next phase of three-phase commit all subtasks of
 * previous step must be finish.
 *
 * This executor does not have an upper bound on subtask timeout.
 *
 */

public class DOMDataCommitCoordinatorImpl implements DOMDataCommitExecutor {

  private static final Logger LOG = LoggerFactory.getLogger(DOMDataCommitCoordinatorImpl.class);
  private final DurationStatisticsTracker commitStatsTracker = DurationStatisticsTracker.createConcurrent();
  private final ListeningExecutorService executor;

  public DOMDataCommitCoordinatorImpl(ListeningExecutorService executor) {
    this.executor = executor;
  }

  @Override
  public void executeWriteOperation(DOMDataWriteTransaction writeTransaction) throws TransactionCommitFailedException {
    LOG.info("Executing write operation... ", writeTransaction); // Logging the write transaction
    try {
      // Submit the write transaction to the executor
      AtomicReferenceFieldUpdater<DOMDataWriteTransaction, String> updater =
          AtomicReferenceFieldUpdater.newUpdater(DOMDataWriteTransaction.class, String.class, DOMDataWriteTransaction::getCommitCallback);
      updater.update(writeTransaction, LogNullifier.INSTANCE);
      LOG.info("Submit commit callback for write operation... ", writeTransaction);
      Futures.<CheckedFuture<String>>submitAsynchronous(executor, updater.get(writeTransaction));
      LOG.info("Submit commit callback for write operation... ", writeTransaction);
      // Wait for the future to complete
      LOG.info("Waiting for commit callback to complete... ", writeTransaction);
      LOG.info("Commit callback completed with result: ", updater.get(writeTransaction));
      LOG.info("Commit callback completed with result: ", updater.get(writeTransaction));
      // Process the result
    } catch (ExecutionException e) {
      LOG.error("Exception occurred while executing write operation... ", writeTransaction, e);
    } catch (RejectedExecutionException e) {
      LOG.error("Rejected execution exception occurred while executing write operation... ", writeTransaction, e);
    }
  }

  @Override
  public void executeCommitCommit(DOMStoreThreePhaseCommitCohort cohort) throws TransactionCommitFailedException {
    LOG.info("Executing commit commit... ", cohort);
    try {
      // Submit the commit coordinator to the executor
      AtomicReferenceFieldUpdater<DOMStoreThreePhaseCommitCohort, String> updater =
          AtomicReferenceFieldUpdater.newUpdater(DOMStoreThreePhaseCommitCohort.class, String.class, DOMStoreThreePhaseCommitCohort::getCommitCallback);
      updater.update(cohort, LogNullifier.INSTANCE);
      LOG.info("Submit commit callback for commit commit... ", cohort);
      Futures.<CheckedFuture<String>>submitAsynchronous(executor, updater.get(cohort));
      LOG.info("Submit commit callback for commit commit... ", cohort);
      // Wait for the future to complete
      LOG.info("Waiting for commit callback to complete... ", cohort);
      LOG.info("Commit callback completed with result: ", updater.get(cohort));
      LOG.info("Commit callback completed with result: ", updater.get(cohort));
      // Process the result
    } catch (ExecutionException e) {
      LOG.error("Exception occurred while executing commit commit... ", cohort, e);
    } catch (RejectedExecutionException e) {
      LOG.error("Rejected execution exception occurred while executing commit commit... ", cohort, e);
    }
  }

  @Override
  public void executeReTryCommit(DOMStoreThreePhaseCommitCohort cohort) throws TransactionCommitFailedException {
    LOG.info("Executing re-try commit... ", cohort);
    try {
      // Submit the re-try commit coordinator to the executor
      AtomicReferenceFieldUpdater<DOMStoreThreePhaseCommitCohort, String> updater =
          AtomicReferenceFieldUpdater.newUpdater(DOMStoreThreePhaseCommitCohort.class, String.class, DOMStoreThreePhaseCommitCohort::getCommitCallback);
      updater.update(cohort, LogNullifier.INSTANCE);
      LOG.info("Submit commit callback for re-try commit... ", cohort);
      Futures.<CheckedFuture<String>>submitAsynchronous(executor, updater.get(cohort));
      LOG.info("Submit commit callback for re-try commit... ", cohort);
      // Wait for the future to complete
      LOG.info("Waiting for commit callback to complete... ", cohort);
      LOG.info("Commit callback completed with result: ", updater.get(cohort));
      LOG.info("Commit callback completed with result: ", updater.get(cohort));
      // Process the result
    } catch (ExecutionException e) {
      LOG.error("Exception occurred while executing re-try commit... ", cohort, e);
    } catch (RejectedExecutionException e) {
      LOG.error("Rejected execution exception occurred while executing re-try commit... ", cohort, e);
    }
  }

  private static class LogNullifier implements AtomicReferenceFieldUpdater<DOMDataWriteTransaction, String> {
    @Override
    public String update(DOMDataWriteTransaction ref, String value) {
      return null;
    }

    @Override
    public String get(DOMDataWriteTransaction ref) {
      return null;
    }

    @Override
    public boolean compareAndSet(DOMDataWriteTransaction ref, String expected, String value) {
      return false;
    }
  }

  private static class LogNullifier implements AtomicReferenceFieldUpdater<DOMStoreThreePhaseCommitCohort, String> {
    @Override
    public String update(DOMStoreThreePhaseCommitCohort ref, String value) {
      return null;
    }

    @Override
    public String get(DOMStoreThreePhaseCommitCohort ref) {
      return null;
    }

    @Override
    public boolean compareAndSet(DOMStoreThreePhaseCommitCohort ref, String expected, String value) {
      return false;
    }
  }
}
* process commit coordinations.
  *
  * @param executor
  */
public DOMDataCommitCoordinatorImpl(final ListeningExecutorService executor) {
    this.executor = Preconditions.checkNotNull(executor, "executor must not be null.");
}

public DurationStatisticsTracker getCommitStatsTracker() {
    return commitStatsTracker;
}

@Override
public CheckedFuture<Void, TransactionCommitFailedException> submit(final DOMDataWriteTransaction
transaction, final Iterable<DOMStoreThreePhaseCommitCohort> cohorts) {
    Preconditions.checkArgument(transaction != null, "Transaction must not be null.");
    Preconditions.checkArgument(cohorts != null, "Cohorts must not be null.");
    LOG.debug("Tx: {} is submitted for execution.", transaction.getIdentifier());

    ListenableFuture<Void> commitFuture = null;
    try {
        commitFuture = executor.submit(new CommitCoordinationTask(transaction, cohorts,
commitStatsTracker));
    } catch(RejectedExecutionException e) {
        LOG.error("The commit executor's queue is full - submit task was rejected. \n" +
        executor, e);
        return Futures.immediateFailedCheckedFuture(
new TransactionCommitFailedException(
            "Could not submit the commit task - the commit queue capacity has been exceeded.", e));
    }

    return MappingCheckedFuture.create(commitFuture,
        TransactionCommitFailedExceptionMapper.COMMIT_ERROR_MAPPER);
}

/**
 * Phase of 3PC commit
 *
 * Represents phase of 3PC Commit
 *
 */
private static enum CommitPhase {
    /**
     * Commit Coordination Task is submitted for executing
     */
SUBMITTED,
/**
 * Commit Coordination Task is in can commit phase of 3PC
 *
 */
CAN_COMMIT,
/**
 * Commit Coordination Task is in pre-commit phase of 3PC
 *
 */
PRE_COMMIT,
/**
 * Commit Coordination Task is in commit phase of 3PC
 *
 */
COMMIT,
/**
 * Commit Coordination Task is in abort phase of 3PC
 *
 */
ABORT
}

/**
 * Implementation of blocking three-phase commit-coordination tasks without
 * support of cancellation.
 */
private static final class CommitCoordinationTask implements Callable<Void> {
    private static final AtomicReferenceFieldUpdater<CommitCoordinationTask, CommitPhase> PHASE_UPDATER =
            AtomicReferenceFieldUpdater.newUpdater(CommitCoordinationTask.class, CommitPhase.class,
                        "currentPhase");
    private final DOMDataWriteTransaction tx;
    private final Iterable<DOMStoreThreePhaseCommitCohort> cohorts;
    private final DurationStatisticsTracker commitStatTracker;
    private final int cohortSize;
    private volatile CommitPhase currentPhase = CommitPhase.SUBMITTED;

    public CommitCoordinationTask(final DOMDataWriteTransaction transaction,
            final Iterable<DOMStoreThreePhaseCommitCohort> cohorts,
            final DurationStatisticsTracker commitStatsTracker) {
        this.tx = Preconditions.checkNotNull(transaction, "transaction must not be null");
        this.cohorts = Preconditions.checkNotNull(cohorts, "cohorts must not be null");
        this.commitStatTracker = commitStatsTracker;
        this.cohortSize = Iterables.size(cohorts);
    }
@Override
public Void call() throws TransactionCommitFailedException {
    final long startTime = commitStatTracker != null ? System.nanoTime() : 0;

    try {
        canCommitBlocking();
        preCommitBlocking();
        commitBlocking();
        return null;
    } catch (TransactionCommitFailedException e) {
        final CommitPhase phase = currentPhase;
        LOG.warn("Tx: {} Error during phase {}, starting Abort", tx.getIdentifier(), phase, e);
        abortBlocking(e, phase);
        throw e;
    } finally {
        if (commitStatTracker != null) {
            commitStatTracker.addDuration(System.nanoTime() - startTime);
        }
    }
}

/**
 * Invokes canCommit on underlying cohorts and blocks till
 * all results are returned.
 * @throws TransactionCommitFailedException
 *             If one of cohorts failed can Commit
 */
private void canCommitBlocking() throws TransactionCommitFailedException {
    for (ListenableFuture<?> canCommit : canCommitAll()) {
        try {
            final Boolean result = (Boolean)canCommit.get();
            if (result == null || !result) {
                throw new TransactionCommitFailedException("Can Commit failed, no detailed cause available.");
            }
        } catch (InterruptedException | ExecutionException e) {
            throw TransactionCommitFailedExceptionMapper.CAN_COMMIT_ERROR_MAPPER.apply(e);
        }
    }
}

/**
* Invokes canCommit on underlying cohorts and returns composite future
* which will contains { @link Boolean#TRUE} only and only if
* all cohorts returned true.
*
* Valid state transition is from SUBMITTED to CAN_COMMIT,
* if currentPhase is not SUBMITTED throws IllegalStateException.
*
* @return List of all cohorts futures from can commit phase.
* */
private ListenableFuture<?>[] canCommitAll() {
    changeStateFrom(CommitPhase.SUBMITTED, CommitPhase.CAN_COMMIT);

    final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
    int i = 0;
    for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
        ops[i++] = cohort.canCommit();
    }
    return ops;
}

/**
 *
* Invokes preCommit on underlying cohorts and blocks till
* all results are returned.
*
* Valid state transition is from CAN_COMMIT to PRE_COMMIT, if current
* state is not CAN_COMMIT
* throws IllegalStateException.
*
* @throws TransactionCommitFailedException
*     If one of cohorts failed preCommit
*
*/
private void preCommitBlocking() throws TransactionCommitFailedException {
    final ListenableFuture<?>[] preCommitFutures = preCommitAll();
    try {
        for (ListenableFuture<?> future : preCommitFutures) {
            future.get();
        }
    } catch (InterruptedException | ExecutionException e) {
        throw TransactionCommitFailedExceptionMapper.PRE_COMMIT_MAPPER.apply(e);
    }
}

/**
*
* Invokes preCommit on underlying cohorts and returns future
* which will complete once all preCommit on cohorts completed or
* failed.
*
* Valid state transition is from CAN_COMMIT to PRE_COMMIT, if current
* state is not CAN_COMMIT
* throws IllegalStateException.
*
* @return List of all cohorts futures from can commit phase.
*
/**
private ListenableFuture<?>[] preCommitAll() {
    changeStateFrom(CommitPhase.CAN_COMMIT, CommitPhase.PRE_COMMIT);

    final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
    int i = 0;
    for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
        ops[i++] = cohort.preCommit();
    }
    return ops;
}

/**
* Invokes commit on underlying cohorts and blocks till
* all results are returned.
*
* Valid state transition is from PRE_COMMIT to COMMIT, if not throws
* IllegalStateException.
*
* @throws TransactionCommitFailedException
*         If one of cohorts failed preCommit
*
*/
private void commitBlocking() throws TransactionCommitFailedException {
    final ListenableFuture<?>[] commitFutures = commitAll();
    try {
        for (ListenableFuture<?> future : commitFutures) {
            future.get();
        }
    } catch (InterruptedException | ExecutionException e) {
        throw TransactionCommitFailedExceptionMapper.COMMIT_ERROR_MAPPER.apply(e);
    }
}

/**
*
* Invokes commit on underlying cohorts and returns future which
* completes
* once all commits on cohorts are completed.
*
* Valid state transition is from PRE_COMMIT to COMMIT, if not throws
* IllegalStateException
*
* @return List of all cohorts futures from can commit phase.
*
*/

private ListenableFuture<?>[] commitAll() {
    changeStateFrom(CommitPhase.PRE_COMMIT, CommitPhase.COMMIT);

    final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
    int i = 0;
    for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
        ops[i++] = cohort.commit();
    }
    return ops;
}

/**
 * Aborts transaction.
 *
 * Invokes { @link DOMStoreThreePhaseCommitCohort#abort() } on all
 * cohorts, blocks
 * for all results. If any of the abort failed throws
 * IllegalStateException,
 * which will contains originalCause as suppressed Exception.
 *
 * If aborts we're successful throws supplied exception
 *
 * @param originalCause
 * Exception which should be used to fail transaction for
 * consumers of transaction
 * future and listeners of transaction failure.
 * @param phase phase in which the problem ensued
 *@throws TransactionCommitFailedException
 * on invocation of this method.
 *
 * @throws IllegalStateException
 * if abort failed.
 */

private void abortBlocking(final TransactionCommitFailedException originalCause, final CommitPhase phase)
    throws TransactionCommitFailedException {
    LOG.warn("Tx: {} Error during phase {}, starting Abort", tx.getIdentifier(), phase, originalCause);
    Exception cause = originalCause;
    try {

abortAsyncAll(phase).get();
} catch (InterruptedException | ExecutionException e) {
    LOG.error("Tx: {} Error during Abort.", tx.getIdentifier(), e);
    cause = new IllegalStateException("Abort failed.", e);
    cause.addSuppressed(e);
}
Throwables.propagateIfPossible(cause, TransactionCommitFailedException.class);

/**
 * Invokes abort on underlying cohorts and returns future which
 * completes once all abort on cohorts are completed.
 *
 * @param phase phase in which the problem ensued
 * @return Future which will complete once all cohorts completed
 *         abort.
 */
private ListenableFuture<Void> abortAsyncAll(final CommitPhase phase) {
    changeStateFrom(phase, CommitPhase.ABORT);

    final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
    int i = 0;
    for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
        ops[i++] = cohort.abort();
    }

    /*
     * We are returning all futures as list, not only succeeded ones in
     * order to fail composite future if any of them failed.
     * See Futures.allAsList for this description.
     */
    @SuppressWarnings({ "unchecked", "rawtypes" })
    ListenableFuture<Void> compositeResult = (ListenableFuture) Futures.allAsList(ops);
    return compositeResult;
}

/**
 * Change phase / state of transaction from expected value to new value
 *
 * This method checks state and updates state to new state of
 * this task if current state equals expected state.
 * If expected state and current state are different raises
 * IllegalStateException
 * which means there is probably bug in implementation of commit
 * coordination.
 *
 * If transition is successful, it logs transition on DEBUG level.
 */
private void changeStateFrom(final CommitPhase currentExpected, final CommitPhase newState) {
    final boolean success = PHASE_UPDATER.compareAndSet(this, currentExpected, newState);
    Preconditions.checkNotNull(success, "Invalid state transition: Tx: %s expected: %s current: %s target: %s",
            tx.getIdentifier(), currentExpected, currentPhase, newState);
    LOG.debug("Transaction {}: Phase {} Started", tx.getIdentifier(), newState);
}
final class DOMDataBrokerTransactionChainImpl extends AbstractDOMForwardedTransactionFactory<DOMStoreTransactionChain>
    implements DOMTransactionChain {
    private static enum State {
        RUNNING,
        CLOSING,
        CLOSED,
        FAILED,
    }
    private static final AtomicIntegerFieldUpdater<DOMDataBrokerTransactionChainImpl> COUNTER_UPDATER =
        AtomicIntegerFieldUpdater.newUpdater(DOMDataBrokerTransactionChainImpl.class, "counter");
    private static final AtomicReferenceFieldUpdater<DOMDataBrokerTransactionChainImpl, State> STATE_UPDATER =
        AtomicReferenceFieldUpdater.newUpdater(DOMDataBrokerTransactionChainImpl.class, State.class, "state");
    private static final Logger LOG = LoggerFactory.getLogger(DOMDataBrokerTransactionChainImpl.class);
    private final AtomicLong txNum = new AtomicLong();
    private final DOMDataCommitExecutor coordinator;
    private final TransactionChainListener listener;
    private final long chainId;
    private volatile State state = State.RUNNING;
    private volatile int counter = 0;
    
    /**
     * @param chainId
     *    ID of transaction chain
     * @param chains
     * Backing [@link DOMStoreTransactionChain]s.
     * @param coordinator
     * Commit Coordinator which should be used to coordinate commits
     * of transaction
     * produced by this chain.
     * @param listener
     * Listener, which listens on transaction chain events.
     * @throws NullPointerException
     * If any of arguments is null.
     */
    public DOMDataBrokerTransactionChainImpl(final long chainId,
                                             final Map<LogicalDatastoreType, DOMStoreTransactionChain> chains,
                                             final DOMDataCommitExecutor coordinator, final TransactionChainListener listener) {
        super(chains);
        this.chainId = chainId;
this.coordinator = Preconditions.checkNotNull(coordinator);
this.listener = Preconditions.checkNotNull(listener);
}

private void checkNotFailed() {
    Preconditions.checkState(state != State.FAILED, "Transaction chain has failed");
}

@Override
protected Object newTransactionIdentifier() {
    return "DOM-CHAIN-" + chainId + "." + txNum.getAndIncrement();
}

@Override
public CheckedFuture<Void, TransactionCommitFailedException> submit(
    final DOMDataWriteTransaction transaction, final Iterable<DOMStoreThreePhaseCommitCohort> cohorts)
{
    checkNotFailed();
    checkNotClosed();

    final CheckedFuture<Void, TransactionCommitFailedException> ret = coordinator.submit(transaction, cohorts);

    COUNTER_UPDATER.incrementAndGet(this);
    Futures.addCallback(ret, new FutureCallback<Void>() {
        @Override
        public void onSuccess(final Void result) {
            transactionCompleted();
        }

        @Override
        public void onFailure(final Throwable t) {
            transactionFailed(transaction, t);
        }
    });

    return ret;
}

@Override
public void close() {
    final boolean success = STATE_UPDATER.compareAndSet(this, State.RUNNING, State.CLOSING);
    if (!success) {
        LOG.debug("Chain {} is no longer running", this);
        return;
    }

    super.close();
}
for (DOMStoreTransactionChain subChain : getTxFactories().values()) {
    subChain.close();
}

if (counter == 0) {
    finishClose();
}

private void finishClose() {
    state = State.CLOSED;
    listener.onTransactionChainSuccessful(this);
}

private void transactionCompleted() {
    if (COUNTER_UPDATER.decrementAndGet(this) == 0 && state == State.CLOSING) {
        finishClose();
    }
}

private void transactionFailed(final DOMDataWriteTransaction tx, final Throwable cause) {
    state = State.FAILED;
    LOG.debug("Transaction chain {} failed.", this, cause);
    listener.onTransactionChainFailed(this, tx, cause);
}

/*
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.dom.broker.impl;

import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import com.google.common.util.concurrent.CheckedFuture;

/**<p>
 * Implementation prototype of commit method for
 * { @link DOMForwardedWriteTransaction }.
 *</p>
 *
 */
public interface DOMDataCommitImplementation {
/**
 * User-supplied implementation of {@link DOMDataWriteTransaction#submit()} for transaction.
 *
 * Callback invoked when {@link DOMDataWriteTransaction#submit()} is invoked on transaction created by this factory.
 *
 * @param transaction Transaction on which {@link DOMDataWriteTransaction#commit()} was invoked.
 * @param cohorts Iteration of cohorts for subtransactions associated with commited transaction.
 *
 */

CheckedFuture<Void,TransactionCommitFailedException> submit(final DOMDataWriteTransaction transaction, final Iterable<DOMStoreThreePhaseCommitCohort> cohorts);

/*----------------------------------------------------------------------------*/
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*/

package org.opendaylight.controller.md.sal.dom.broker.impl;

import java.util.List;
import java.util.concurrent.Executor;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicInteger;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.yangtools.util.DurationStatisticsTracker;
import org.opendaylight.yangtools.util.concurrent.MappingCheckedFuture;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.Iterables;
import com.google.common.util.concurrent.AbstractFuture;
import com.google.common.util.concurrent.AbstractListeningExecutorService;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;

import java.util.concurrent.Executor;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicInteger;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.yangtools.util.DurationStatisticsTracker;
import org.opendaylight.yangtools.util.concurrent.MappingCheckedFuture;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.Iterables;
import com.google.common.util.concurrent.AbstractFuture;
import com.google.common.util.concurrent.AbstractListeningExecutorService;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;
/**
 * Implementation of DOMDataCommitExecutor that coordinates transaction commits concurrently. The 3
 * commit phases (canCommit, preCommit, and commit) are performed serially and non-blocking
 * (ie async) per transaction but multiple transaction commits can run concurrent.
 * @author Thomas Pantelis
 */
public class DOMConcurrentDataCommitCoordinator implements DOMDataCommitExecutor {

    private static final String CAN_COMMIT = "CAN_COMMIT";
    private static final String PRE_COMMIT = "PRE_COMMIT";
    private static final String COMMIT = "COMMIT";

    private static final Logger LOG = LoggerFactory.getLogger(DOMConcurrentDataCommitCoordinator.class);

    private final DurationStatisticsTracker commitStatsTracker = DurationStatisticsTracker.createConcurrent();

    /**
     * This executor is used to execute Future listener callback Runnables async.
     */
    private final ExecutorService clientFutureCallbackExecutor;

    /**
     * This executor is re-used internally in calls to Futures#addCallback to avoid the overhead
     * of Futures#addCallback creating a MoreExecutors#sameThreadExecutor for each call.
     */
    private final ExecutorService internalFutureCallbackExecutor = new SimpleSameThreadExecutor();

    public DOMConcurrentDataCommitCoordinator(ExecutorService listenableFutureExecutor) {
        this.clientFutureCallbackExecutor = Preconditions.checkNotNull(listenableFutureExecutor);
    }

    public DurationStatisticsTracker getCommitStatsTracker() {
        return commitStatsTracker;
    }

    @Override
    public CheckedFuture<Void, TransactionCommitFailedException> submit(DOMDataWriteTransaction
            transaction,
            Iterable<DOMStoreThreePhaseCommitCohort> cohorts) {

        Preconditions.checkArgument(transaction != null, "Transaction must not be null.");
        Preconditions.checkArgument(cohorts != null, "Cohorts must not be null.");
        LOG.debug("Tx: {} is submitted for execution.", transaction.getIdentifier());

        final int cohortSize = Iterables.size(cohorts);
        final AsyncNotifyingSettableFuture clientSubmitFuture =
                new AsyncNotifyingSettableFuture(clientFutureCallbackExecutor);
doCanCommit(clientSubmitFuture, transaction, cohorts, cohortSize);

return MappingCheckedFuture.create(clientSubmitFuture,
    TransactionCommitFailedExceptionMapper.COMMIT_ERROR_MAPPER);
}

private void doCanCommit(final AsyncNotifyingSettableFuture clientSubmitFuture,
    final DOMDataWriteTransaction transaction,
    final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, final int cohortSize) {

    final long startTime = System.nanoTime();

    // Not using Futures.allAsList here to avoid its internal overhead.
    final AtomicInteger remaining = new AtomicInteger(cohortSize);
    FutureCallback<Boolean> futureCallback = new FutureCallback<Boolean>() {
        @Override
        public void onSuccess(Boolean result) {
            if (result == null || !result) {
                handleException(clientSubmitFuture, transaction, cohorts, cohortSize,
                    CAN_COMMIT, new TransactionCommitFailedException(
                        "Can Commit failed, no detailed cause available.");
            } else {
                if(remaining.decrementAndGet() == 0) {
                    // All cohorts completed successfully - we can move on to the preCommit phase
                    doPreCommit(startTime, clientSubmitFuture, transaction, cohorts, cohortSize);
                }
            }
        }

        @Override
        public void onFailure(Throwable t) {
            handleException(clientSubmitFuture, transaction, cohorts, cohortSize, CAN_COMMIT, t);
        }
    };

    for(DOMStoreThreePhaseCommitCohort cohort: cohorts) {
        ListenableFuture<Boolean> canCommitFuture = cohort.canCommit();
        Futures.addCallback(canCommitFuture, futureCallback, internalFutureCallbackExecutor);
    }
}

private void doPreCommit(final long startTime, final AsyncNotifyingSettableFuture clientSubmitFuture,
    final DOMDataWriteTransaction transaction,
    final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, final int cohortSize) {

    // Not using Futures.allAsList here to avoid its internal overhead.
    final AtomicInteger remaining = new AtomicInteger(cohortSize);
FutureCallback<Void> futureCallback = new FutureCallback<Void>() {
    @Override
    public void onSuccess(Void notUsed) {
        if(remaining.decrementAndGet() == 0) {
            // All cohorts completed successfully - we can move on to the commit phase
            doCommit(startTime, clientSubmitFuture, transaction, cohorts, cohortSize);
        }
    }
    
    @Override
    public void onFailure(Throwable t) {
        handleException(clientSubmitFuture, transaction, cohorts, cohortSize, CAN_COMMIT, t);
    }
};

for (DOMStoreThreePhaseCommitCohort cohort: cohorts) {
    ListenableFuture<Void> preCommitFuture = cohort.preCommit();
    Futures.addCallback(preCommitFuture, futureCallback, internalFutureCallbackExecutor);
};

private void doCommit(final long startTime, final AsyncNotifyingSettableFuture clientSubmitFuture,
                        final DOMDataWriteTransaction transaction,
                        final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, final int cohortSize) {

    // Not using Futures.allAsList here to avoid its internal overhead.
    final AtomicInteger remaining = new AtomicInteger(cohortSize);
    FutureCallback<Void> futureCallback = new FutureCallback<Void>() {
        @Override
        public void onSuccess(Void notUsed) {
            if(remaining.decrementAndGet() == 0) {
                // All cohorts completed successfully - we're done.
                commitStatsTracker.addDuration(System.nanoTime() - startTime);
                clientSubmitFuture.set();
            }
        }
        
        @Override
        public void onFailure(Throwable t) {
            handleException(clientSubmitFuture, transaction, cohorts, cohortSize, CAN_COMMIT, t);
        }
    };;

    for (DOMStoreThreePhaseCommitCohort cohort: cohorts) {
        ListenableFuture<Void> commitFuture = cohort.commit();
        Futures.addCallback(commitFuture, futureCallback, internalFutureCallbackExecutor);
    }
}
private void handleException(final AsyncNotifyingSettableFuture clientSubmitFuture,
        final DOMDataWriteTransaction transaction,
        final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, int cohortSize,
        final String phase, final Throwable t) {

        if (clientSubmitFuture.isDone()) {
            // We must have had failures from multiple cohorts.
            return;
        }

        LOG.warn("Tx: {} Error during phase {}, starting Abort", transaction.getIdentifier(), phase, t);
        Exception e;
        if (t instanceof Exception) {
            e = (Exception)t;
        } else {
            e = new RuntimeException("Unexpected error occurred", t);
        }

        final TransactionCommitFailedException clientException =
                TransactionCommitFailedExceptionMapper.CAN_COMMIT_ERROR_MAPPER.apply(e);

        // Transaction failed - tell all cohorts to abort.

        @SuppressWarnings("unchecked")
        ListenableFuture<Void>[] canCommitFutures = new ListenableFuture[cohortSize];
        int i = 0;
        for (DOMStoreThreePhaseCommitCohort cohort: cohorts) {
            canCommitFutures[i++] = cohort.abort();
        }

        ListenableFuture<List<Void>> combinedFuture = Futures.allAsList(canCommitFutures);
        Futures.addCallback(combinedFuture, new FutureCallback<List<Void>>() {
            @Override
            public void onSuccess(List<Void> notUsed) {
                // Propagate the original exception to the client.
                clientSubmitFuture.setException(clientException);
            }

            @Override
            public void onFailure(Throwable t) {
                LOG.error("Tx: {} Error during Abort.", transaction.getIdentifier(), t);
                // Propagate the original exception as that is what caused the Tx to fail and is
                // what's interesting to the client.
                clientSubmitFuture.setException(clientException);
            }
        });
/**
 * A settable future that uses an {link Executor} to execute listener callback Runnables, 
 * registered via {link addListener}, asynchronously when this future completes. This is 
 * done to guarantee listener executions are off-loaded onto another thread to avoid blocking 
 * the thread that completed this future, as a common use case is to pass an executor that runs 
 * tasks in the same thread as the caller (ie MoreExecutors#sameThreadExecutor) 
 * to {link addListener}. 
 * 
 * FIXME: This class should probably be moved to yangtools common utils for re-usability and 
 * unified with AsyncNotifyingListenableFutureTask. 
 */
private static class AsyncNotifyingSettableFuture extends AbstractFuture<Void> {

    private static final ThreadLocal<Boolean> ON_TASK_COMPLETION_THREAD_TL = new 
        ThreadLocal<Boolean>();

    private final ExecutorService listenerExecutor;

    AsyncNotifyingSettableFuture(ExecutorService listenerExecutor) {
        this.listenerExecutor = listenerExecutor;
    }

    @Override
    public void addListener(final Runnable listener, final Executor executor) {
        // Wrap the listener Runnable in a DelegatingRunnable. If the specified executor is one 
        // that runs tasks in the same thread as the caller submitting the task 
        // (e.g. {link com.google.common.util.concurrent.MoreExecutors#sameThreadExecutor}) and 
        // the listener is executed from the #set methods, then the DelegatingRunnable will detect 
        // this via the ThreadLocal and submit the listener Runnable to the listenerExecutor. 
        // 
        // On the other hand, if this task is already complete, the call to ExecutionList#add in 
        // superclass will execute the listener Runnable immediately and, since the ThreadLocal 
        // won't be set, the DelegatingRunnable will run the listener Runnable inline.
        super.addListener(new DelegatingRunnable(listener, listenerExecutor), executor);
    }

    boolean set() {
        ON_TASK_COMPLETION_THREAD_TL.set(Boolean.TRUE);
        try {
            return super.set(null);
        } finally {
            ON_TASK_COMPLETION_THREAD_TL.set(null);
        }
    }
}
@Override
protected boolean setException(Throwable throwable) {
    ON_TASK_COMPLETION_THREAD_TL.set(Boolean.TRUE);
    try {
        return super.setException(throwable);
    } finally {
        ON_TASK_COMPLETION_THREAD_TL.set(null);
    }
}

private static final class DelegatingRunnable implements Runnable {
    private final Runnable delegate;
    private final Executor executor;

    DelegatingRunnable(final Runnable delegate, final Executor executor) {
        this.delegate = Preconditions.checkNotNull(delegate);
        this.executor = Preconditions.checkNotNull(executor);
    }

    @Override
    public void run() {
        if (ON_TASK_COMPLETION_THREAD_TL.get() != null) {
            // We're running on the task completion thread so off-load to the executor.
            LOG.trace("Submitting ListenenableFuture Runnable from thread {} to executor {}", 
                Thread.currentThread().getName(), executor);
            executor.execute(delegate);
        } else {
            // We're not running on the task completion thread so run the delegate inline.
            LOG.trace("Executing ListenenableFuture Runnable on this thread: {}", 
                Thread.currentThread().getName());
            delegate.run();
        }
    }
}

/**
 * A simple same-thread executor without the internal locking overhead that
 * MoreExecutors#sameThreadExecutor has. The #execute method is the only one of concern - we
 * don't shutdown the executor so the other methods irrelevant.
 */
private static class SimpleSameThreadExecutor extends AbstractListeningExecutorService {

    @Override
    public void execute(Runnable command) {

command.run();
}

@Override
public boolean awaitTermination(long arg0, TimeUnit arg1) throws InterruptedException {
    return true;
}

@Override
public boolean isShutdown() {
    return false;
}

@Override
public boolean isTerminated() {
    return false;
}

@Override
public void shutdown() {
}

@Override
public List<Runnable> shutdownNow() {
    return null;
}
}

package org.opendaylight.controller.md.sal.dom.broker.impl;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.yangtools.util.concurrent.ExceptionMapper;

/**
 * Utility exception mapper which translates Exception to TransactionCommitFailedException.
 * @see ExceptionMapper
 */
final class TransactionCommitFailedExceptionMapper
    extends ExceptionMapper<TransactionCommitFailedException> {

static final TransactionCommitFailedExceptionMapper PRE_COMMIT_MAPPER = create("canCommit");

static final TransactionCommitFailedExceptionMapper CAN_COMMIT_ERROR_MAPPER = create("preCommit");

static final TransactionCommitFailedExceptionMapper COMMIT_ERROR_MAPPER = create("commit");

private TransactionCommitFailedExceptionMapper(final String opName) {
    super( opName, TransactionCommitFailedException.class );
}

public static final TransactionCommitFailedExceptionMapper create(final String opName) {
    return new TransactionCommitFailedExceptionMapper(opName);
}

@Override
protected TransactionCommitFailedException newWithCause( String message, Throwable cause ) {
    return new TransactionCommitFailedException( message, cause );
}

/*
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 * *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution, *
 * and is available at http://www.eclipse.org/legal/epl-v10.html *
 */
package org.opendaylight.controller.config.yang.md.sal.dom.impl;

/**
 * *
 */
public class DomBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractDomBrokerImplModuleFactory {
}

/*
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 * *
 * This program and the accompanying materials are made available under the *
 * terms of the Eclipse Public License v1.0 which accompanies this distribution, *
 * and is available at http://www.eclipse.org/legal/epl-v10.html *
 */
package org.opendaylight.controller.config.yang.md.sal.dom.impl;

import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.MutableClassToInstanceMap;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMMountPointService;
import org.opendaylight.controller.md.sal.dom.api.compat.BackwardsCompatibleDataBroker;
import org.opendaylight.controller.md.sal.dom.api.mount.DOMMountPointServiceImpl;
import org.opendaylight.controller.md.sal.dom.api.BrokerService;
import org.opendaylight.controller.md.sal.dom.api.RpcProvisionRegistry;
import org.opendaylight.controller.md.sal.dom.api.data.DataBrokerService;
import org.opendaylight.controller.md.sal.dom.api.data.DataProviderService;
import org.opendaylight.controller.md.sal.dom.api.data.DataStore;
import org.opendaylight.controller.md.sal.core.api.model.SchemaService;
import org.opendaylight.controller.md.sal.core.api.mount.Mount provisionService;
import org.opendaylight.controller.md.sal.core.api.mount.MountService;
import org.opendaylight.controller.sal.dom.broker.BackwardsCompatibleMountPointManager;
import org.opendaylight.controller.sal.dom.broker.BrokerImpl;
import org.opendaylight.controller.sal.dom.broker.data.DataBrokerImpl;
import org.opendaylight.controller.sal.dom.broker.ssal.core.api.model.SchemaServiceImpl;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareDataStoreAdapter;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareRpcBroker;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaContextProviders;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

/**
 * *
 */
public final class DomBrokerImplModule extends
org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractDomBrokerImplModule
{

    public DomBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier, final
org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    public DomBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier, final
org.opendaylight.controller.config.api.DependencyResolver dependencyResolver, final DomBrokerImplModule
oldModule, final java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate(){
            super.validate();
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
            final DataStore legacyStore = getDataStoreDependency();
            final DOMDataBroker asyncBroker= getAsyncDataBrokerDependency();

        return asyncBroker;
    }
}
ClassToInstanceMap<BrokerService> services = new MutableClassToInstanceMap();

SchemaService schemaService = getSchemaServiceImpl();
services.putInstance(SchemaService.class, schemaService);
SchemaAwareRpcBroker router = new SchemaAwareRpcBroker("/", SchemaContextProviders .fromSchemaService(schemaService));
services.putInstance(RpcProvisionRegistry.class, router);

final DataProviderService legacyData;
if(asyncBroker != null) {
    services.putInstance(DOMDataBroker.class, asyncBroker);
    legacyData = new BackwardsCompatibleDataBroker(asyncBroker, schemaService);
} else {
    legacyData = createLegacyDataService(legacyStore, schemaService);
}
services.putInstance(DataProviderService.class, legacyData);
services.putInstance(DataBrokerService.class, legacyData);

final DOMMountPointService mountService = new DOMMountPointServiceImpl();
services.putInstance(DOMMountPointService.class, mountService);

// TODO remove backwards service, use only new DOMMountPointService
final MountProvisionService backwardsMountService = new BackwardsCompatibleMountPointManager(mountService);
services.putInstance(MountService.class, backwardsMountService);
services.putInstance(MountProvisionService.class, backwardsMountService);

return new BrokerImpl(router, services);
}

private DataProviderService createLegacyDataService(final DataStore legacyStore, final SchemaService schemaService) {
    YangInstanceIdentifier rootPath = YangInstanceIdentifier.builder().toInstance();
    DataBrokerImpl dataService = new DataBrokerImpl();
    SchemaAwareDataStoreAdapter wrappedStore = new SchemaAwareDataStoreAdapter();
    wrappedStore.changeDelegate(legacyStore);
    wrappedStore.setValidationEnabled(false);

    schemaService.registerSchemaContextListener(wrappedStore);

    dataService.registerConfigurationReader(rootPath, wrappedStore);
    dataService.registerCommitHandler(rootPath, wrappedStore);
    dataService.registerOperationalReader(rootPath, wrappedStore);
    return dataService;
}
private SchemaService getSchemaServiceImpl() {
    final SchemaService schemaService;
    if(getRootSchemaService() != null) {
        schemaService = getRootSchemaServiceDependency();
    } else {
        schemaService = GlobalBundleScanningSchemaServiceImpl.getInstance();
    }
    return schemaService;
}
/*
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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.config.yang.md.sal.dom.impl;
import org.opendaylight.controller.config.api.DependencyResolver;
import org.osgi.framework.BundleContext;
import static com.google.common.base.Preconditions.checkArgument;

public class SchemaServiceImplSingletonModuleFactory extends
    org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractSchemaServiceImplSingletonModuleFactory {

    public static final String SINGLETON_NAME = "yang-schema-service";

    @Override
    public SchemaServiceImplSingletonModule instantiateModule(String instanceName, DependencyResolver
        dependencyResolver, SchemaServiceImplSingletonModule oldModule, AutoCloseable oldInstance, BundleContext
        bundleContext) {
        checkArgument(SINGLETON_NAME.equals(instanceName),"Illegal instance name " + instanceName + ",
            only allowed name is " + SINGLETON_NAME);
        SchemaServiceImplSingletonModule module = super.instantiateModule(instanceName, dependencyResolver,
            oldModule, oldInstance, bundleContext);
        // FIXME bundle context should not be passed around
        module.setBundleContext(bundleContext);
        return module;
    }

    @Override
    public SchemaServiceImplSingletonModule instantiateModule(String instanceName, DependencyResolver
        dependencyResolver, BundleContext bundleContext) {
        checkArgument(SINGLETON_NAME.equals(instanceName),"Illegal instance name " + instanceName + ",
            only allowed name is " + SINGLETON_NAME);
public final class SchemaServiceImplSingletonModule extends
org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractSchemaServiceImplSingletonModule {

    private static final Logger LOG = LoggerFactory.getLogger(SchemaServiceImplSingletonModule.class);

BundleContext bundleContext;

    public SchemaServiceImplSingletonModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    public SchemaServiceImplSingletonModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
        final SchemaServiceImplSingletonModule oldModule, final java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override

    public SchemaServiceImplSingletonModule module = super.instantiateModule(instanceName, dependencyResolver, bundleContext);

    // FIXME bundle context should not be passed around
    module.setBundleContext(bundleContext);
    return module;
}

*/

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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
public boolean canReuseInstance(final AbstractSchemaServiceImplSingletonModule oldModule) {
    return true;
}

global BundleContext getBundleContext() {
    return bundleContext;
}

global void setBundleContext(final BundleContext bundleContext) {
    this.bundleContext = bundleContext;
}

@ Override
public void validate() {
    super.validate();
}

@ Override
public java.lang.AutoCloseable createInstance() {
    return GlobalBundleScanningSchemaServiceImpl.getInstance();
}

public class GlobalSchemaServiceProxy implements AutoCloseable, SchemaService, Delegator<SchemaService> {

    private SchemaService delegate;

    public GlobalSchemaServiceProxy() {
        this.delegate = GlobalBundleScanningSchemaServiceImpl.getInstance();
    }

    @Override
    public void close() throws Exception {
        if (delegate != null) {
            delegate = null;
        }
    }

    @Override
    public void addModule(final Module arg0) {
        delegate.addModule(arg0);
    }

    @Override
    public SchemaContext getGlobalContext() {
        return delegate.getGlobalContext();
    }
```java
@Override
public SchemaContext getSessionContext() {
    return delegate.getSessionContext();
}

@Override
public ListenerRegistration<SchemaContextListener> registerSchemaContextListener(final
    SchemaContextListener arg0) {
    return delegate.registerSchemaContextListener(arg0);
}

@Override
public void removeModule(final Module arg0) {
    delegate.removeModule(arg0);
}

@Override
public SchemaService getDelegate() {
    return delegate;
}

public class DomBrokerRuntimeMXBeanImpl implements
DomBrokerImplRuntimeMXBean {
    private final DataBrokerImpl dataService;
    private final Transactions transactions = new Transactions();
    private final Data data = new Data();

    public DomBrokerRuntimeMXBeanImpl(DataBrokerImpl dataService) {
        this.dataService = dataService;
    }
```
public Transactions getTransactions() {
    transactions.setCreated(dataService.getCreatedTransactionsCount().get());
    transactions.setSubmitted(dataService.getSubmittedTransactionsCount().get());
    transactions.setSuccessful(dataService.getFinishedTransactionsCount().get());
    transactions.setFailed(dataService.getFailedTransactionsCount().get());
    return transactions;
}

@Override
public Data getData() {
    transactions.setCreated(dataService.getCreatedTransactionsCount().get());
    transactions.setSubmitted(dataService.getSubmittedTransactionsCount().get());
    transactions.setSuccessful(dataService.getFinishedTransactionsCount().get());
    transactions.setFailed(dataService.getFailedTransactionsCount().get());
    data.setTransactions(transactions);
    return data;
}

}
private void sendNotification(CompositeNode notification) {
    final QName type = notification.getNodeType();
    final Collection<MyListenerRegistration> toNotify = listeners.get(type);
    log.trace("Publishing notification "+ type);

    if ((toNotify == null) || toNotify.isEmpty()) {
        log.debug("No listener registered for handling of notification ", type);
        return;
    }

    for (MyListenerRegistration listener : toNotify) {
        try {
            // FIXME: ensure that notification is immutable
            listener.getInstance().onNotification(notification);
        } catch (Exception e) {
            log.error("Uncaught exception in NotificationListener", e);
        }
    }
}

@Override
public void publish(CompositeNode notification) {
    sendNotification(notification);
}

@Override
public ListenerRegistration<NotificationListener> addNotificationListener(QName notification, NotificationListener listener) {
    MyListenerRegistration ret = new MyListenerRegistration(notification, listener);
    listeners.put(notification, ret);
    return ret;
}

private class MyListenerRegistration extends AbstractListenerRegistration<NotificationListener> {
    final QName type;

    public MyListenerRegistration(QName type, NotificationListener instance) {
        super(instance);
        this.type = type;
    }

    @Override
    protected void removeRegistration() {
        listeners.remove(type, this);
    }
}
package org.opendaylight.controller.sal.dom.broker.impl;

import org.opendaylight.controller.sal.core.api.Broker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.yangtools.concepts.AbstractObjectRegistration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

class RoutedRpcRegImpl extends AbstractObjectRegistration<RpcImplementation> implements RoutedRpcRegistration {
    private final QName type;
    private final RoutedRpcSelector router;

    public RoutedRpcRegImpl(final QName rpcType, final RpcImplementation implementation, final RoutedRpcSelector routedRpcSelector) {
        super(implementation);
        this.type = rpcType;
        router = routedRpcSelector;
    }

    @Override
    public void registerPath(final QName context, final YangInstanceIdentifier path) {
        router.addPath(context, path, this);
    }

    @Override
    public void unregisterPath(final QName context, final YangInstanceIdentifier path) {
        router.removePath(context, path, this);
    }

    @Override
    protected void removeRegistration() {
    }

    @Override
    public QName getType() {
        return type;
    }
}
package org.opendaylight.controller.sal.dom.broker;

import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.md.sal.common.api.data.DataReader;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataBroker;
import org.opendaylight.controller.sal.common.DataStoreIdentifier;
import org.opendaylight.controller.sal.core.api.data.DataChangeListener;
import org.opendaylight.controller.sal.core.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.api.data.DataValidator;
import org.opendaylight.controller.sal.dom.broker.impl.DataReaderRouter;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import com.google.common.util.concurrent.MoreExecutors;

public class DataBrokerImpl extends AbstractDataBroker<YangInstanceIdentifier, CompositeNode, DataChangeListener> implements DataProviderService, AutoCloseable {

    private AtomicLong nextTransaction = new AtomicLong();
    private final AtomicLong createdTransactionsCount = new AtomicLong();

    public DataBrokerImpl() {
        setDataReadRouter(new DataReaderRouter());
        setExecutor(MoreExecutors.sameThreadExecutor());
    }

    public AtomicLong getCreatedTransactionsCount() {
        return createdTransactionsCount;
    }

    @Override
    public DataTransactionImpl beginTransaction() {
        String transactionId = "DOM-" + nextTransaction.getAndIncrement();
        createdTransactionsCount.getAndIncrement();
        return new DataTransactionImpl(transactionId, this);
    }

    public AtomicLong getCreatedTransactionsCount() {
        return createdTransactionsCount;
    }

    public DataBrokerImpl() {
        setDataReadRouter(new DataReaderRouter());
        setExecutor(MoreExecutors.sameThreadExecutor());
    }

    public AtomicLong getCreatedTransactionsCount() {
        return createdTransactionsCount;
    }

    @Override
    public DataTransactionImpl beginTransaction() {
        String transactionId = "DOM-" + nextTransaction.getAndIncrement();
        createdTransactionsCount.getAndIncrement();
        return new DataTransactionImpl(transactionId, this);
    }

}
public Registration registerConfigurationReader(YangInstanceIdentifier path, DataReader<YangInstanceIdentifier, CompositeNode> reader) {
    return getDataReadRouter().registerConfigurationReader(path, reader);
}

public Registration registerOperationalReader(YangInstanceIdentifier path, DataReader<YangInstanceIdentifier, CompositeNode> reader) {
    return getDataReadRouter().registerOperationalReader(path, reader);
}

@Deprecated
@Override
public void addValidator(DataStoreIdentifier store, DataValidator validator) {
    throw new UnsupportedOperationException("Deprecated");
}

@Deprecated
@Override
public void removeValidator(DataStoreIdentifier store, DataValidator validator) {
    throw new UnsupportedOperationException("Deprecated");
}

@Deprecated
@Override
public void addRefresher(DataStoreIdentifier store, DataRefresher refresher) {
    throw new UnsupportedOperationException("Deprecated");
}

@Deprecated
@Override
public void removeRefresher(DataStoreIdentifier store, DataRefresher refresher) {
    throw new UnsupportedOperationException("Deprecated");
}

@Override
public void close() throws Exception {
    //
}

/*
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package org.opendaylight.controller.sal.dom.broker;

import java.util.List;
import java.util.Set;

import org.opendaylight.controller.md.sal.common.api.RegistrationListener;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandlerRegistration;
import org.opendaylight.controller.md.sal.common.api.data.DataReader;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.md.sal.common.data.DataStoreIdentifier;
import org.opendaylight.controller.sal.core.api.Broker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.core.api.Broker.RpcRegistration;
import org.opendaylight.controller.sal.core.api.RoutedRpcDefaultImplementation;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.controller.sal.core.api.RpcRegistrationListener;
import org.opendaylight.controller.sal.core.api.RpcRoutingContext;
import org.opendaylight.controller.sal.core.api.data.DataChangeListener;
import org.opendaylight.controller.sal.core.api.data.DataModificationTransaction;
import org.opendaylight.controller.sal.core.api.data.DataValidator;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionInstance;
import org.opendaylight.controller.sal.core.api.notify.NotificationListener;
import org.opendaylight.controller.sal.dom.broker.impl.NotificationRouterImpl;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareRpcBroker;
import org.opendaylight.controller.sal.dom.broker.spi.NotificationRouter;
import org.opendaylight.controller.sal.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.PathArgument;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;

import com.google.common.util.concurrent.ListenableFuture;

@Deprecated
public class MountPointImpl implements MountProvisionInstance, SchemaContextProvider {
    private final SchemaAwareRpcBroker rpcs;
    private final DataBrokerImpl dataReader;
    private final NotificationRouter notificationRouter;
    private final DataReader<YangInstanceIdentifier,CompositeNode> readWrapper;


private final YangInstanceIdentifier mountPath;

private SchemaContext schemaContext;

public MountPointImpl(final YangInstanceIdentifier path) {
    this.mountPath = path;
    rpcs = new SchemaAwareRpcBroker(path.toString(),this);
    dataReader = new DataBrokerImpl();
    notificationRouter = new NotificationRouterImpl();
    readWrapper = new ReadWrapper();
}

public YangInstanceIdentifier getMountPath() {
    return mountPath;
}

public DataReader<YangInstanceIdentifier, CompositeNode> getReadWrapper() {
    return readWrapper;
}

@Override
public void publish(final CompositeNode notification) {
    notificationRouter.publish(notification);
}

@Override
public ListenerRegistration<NotificationListener> addNotificationListener(final QName notification, final NotificationListener listener) {
    return notificationRouter.addNotificationListener(notification, listener);
}

@Override
public CompositeNode readConfigurationData(final YangInstanceIdentifier path) {
    return dataReader.readConfigurationData(path);
}

@Override
public CompositeNode readOperationalData(final YangInstanceIdentifier path) {
    return dataReader.readOperationalData(path);
}

@Override
public Registration registerOperationalReader(
    final YangInstanceIdentifier path, final DataReader<YangInstanceIdentifier, CompositeNode> reader) {
    return dataReader.registerOperationalReader(path, reader);
}
@Override
public Registration registerConfigurationReader(
    final YangInstanceIdentifier path, final DataReader<YangInstanceIdentifier, CompositeNode> reader) {
    return dataReader.registerConfigurationReader(path, reader);
}

@Override
public RoutedRpcRegistration addRoutedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    return rpcs.addRoutedRpcImplementation(rpcType, implementation);
}

@Override
public void setRoutedRpcDefaultDelegate(final RoutedRpcDefaultImplementation defaultImplementation) {
    rpcs.setRoutedRpcDefaultDelegate(defaultImplementation);
}

@Override
public RpcRegistration addRpcImplementation(final QName rpcType, final RpcImplementation implementation) throws IllegalArgumentException {
    return rpcs.addRpcImplementation(rpcType, implementation);
}

@Override
public Set<QName> getSupportedRpcs() {
    return rpcs.getSupportedRpcs();
}

@Override
public ListenableFuture<RpcResult<CompositeNode>> invokeRpc(final QName rpc, final CompositeNode input) {
    return rpcs.invokeRpc(rpc, input);
}

@Override
public ListenerRegistration<RpcRegistrationListener> addRpcRegistrationListener(final RpcRegistrationListener listener) {
    return rpcs.addRpcRegistrationListener(listener);
}

@Override
public ListenableFuture<RpcResult<CompositeNode>> rpc(final QName type, final CompositeNode input) {
    return rpcs.invokeRpc(type, input);
}

@Override
public DataModificationTransaction beginTransaction() {
    return dataReader.beginTransaction();
}
@Override
public ListenerRegistration<DataChangeListener> registerDataChangeListener(final YangInstanceIdentifier path,
final DataChangeListener listener) {
    return dataReader.registerDataChangeListener(path, listener);
}

@Override
public Registration registerCommitHandler(final YangInstanceIdentifier path, final DataCommitHandler<YangInstanceIdentifier, CompositeNode> commitHandler) {
    return dataReader.registerCommitHandler(path, commitHandler);
}

@Override
public void removeRefresher(final DataStoreIdentifier store, final DataRefresher refresher) {
    // NOOP
}

@Override
public void addRefresher(final DataStoreIdentifier store, final DataRefresher refresher) {
    // NOOP
}

@Override
public void addValidator(final DataStoreIdentifier store, final DataValidator validator) {
    // NOOP
}

@Override
public void removeValidator(final DataStoreIdentifier store, final DataValidator validator) {
    // NOOP
}

@Override
public SchemaContext getSchemaContext() {
    return schemaContext;
}

@Override
public void setSchemaContext(final SchemaContext schemaContext) {
    this.schemaContext = schemaContext;
}

class ReadWrapper implements DataReader<YangInstanceIdentifier, CompositeNode> {
    private YangInstanceIdentifier shortenPath(final YangInstanceIdentifier path) {
        final YangInstanceIdentifier ret = null;
        if(mountPath.contains(path)) {
            // Implementation
        }
    }
}
List<PathArgument> newArgs = path.getPath().subList(mountPath.getPath().size(), path.getPath().size());
ret = YangInstanceIdentifier.create(newArgs);
}
return ret;

@Override
public CompositeNode readConfigurationData(final YangInstanceIdentifier path) {
YangInstanceIdentifier newPath = shortenPath(path);
if(newPath == null) {
    return null;
}
return MountPointImpl.this.readConfigurationData(newPath);
}

@Override
public CompositeNode readOperationalData(final YangInstanceIdentifier path) {
YangInstanceIdentifier newPath = shortenPath(path);
if(newPath == null) {
    return null;
}
return MountPointImpl.this.readOperationalData(newPath);
}

@Override
public ListenerRegistration<RegistrationListener<DataCommitHandlerRegistration<YangInstanceIdentifier, CompositeNode>>> registerCommitHandlerListener(
    final RegistrationListener<DataCommitHandlerRegistration<YangInstanceIdentifier, CompositeNode>> commitHandlerListener) {
    return dataReader.registerCommitHandlerListener(commitHandlerListener);
}

@Override
public <L extends RouteChangeListener<RpcRoutingContext, YangInstanceIdentifier>> ListenerRegistration<L> registerRouteChangeListener(
    final L listener) {
    return rpcs.registerRouteChangeListener(listener);
}

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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.sal.dom.broker;
import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataTransaction;
import org.opendaylight.controller.sal.core.api.data.DataModificationTransaction;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

public class DataTransactionImpl extends AbstractDataTransaction<YangInstanceIdentifier, CompositeNode>
implements DataModificationTransaction {
    private final ListenerRegistry<DataTransactionListener> listeners = new
    ListenerRegistry<DataTransactionListener>();

    public DataTransactionImpl(Object identifier, DataBrokerImpl dataBroker) {
        super(identifier, dataBroker);
    }

    @Override
    public ListenerRegistration<DataTransactionListener> registerListener(DataTransactionListener listener) {
        return listeners.register(listener);
    }

    protected void onStatusChange(TransactionStatus status) {
        for (ListenerRegistration<DataTransactionListener> listenerRegistration : listeners) {
            listenerRegistration.getInstance().onStatusUpdated(this, status);
        }
    }

    /**
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     *
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     * terms of the Eclipse Public License v1.0 which accompanies this distribution,
     * and is available at http://www.eclipse.org/legal/epl-v10.html
     */

    package org.opendaylight.controller.sal.dom.broker;

    import static com.google.common.base.Preconditions.checkNotNull;
    import java.util.concurrent.ConcurrentHashMap;
    import java.util.concurrent.ConcurrentMap;
    import org.opendaylight.controller.sal.core.api.data.DataProviderService;
    import org.opendaylight.controller.sal.core.api.mount.MountProvisionInstance;
    import org.opendaylight.controller.sal.core.api.mount.MountProvisionListener;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionService;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

@Deprecated
public class MountPointManagerImpl implements MountProvisionService {

    private final ListenerRegistry<MountProvisionListener> listeners =
        ListenerRegistry.create();
    private final ConcurrentHashMap<YangInstanceIdentifier, MountPointImpl> mounts =
        new ConcurrentHashMap<>();
    private DataProviderService dataBroker = null;

    @Override
    public MountProvisionInstance createMountPoint(final YangInstanceIdentifier path) {
        checkState(!mounts.containsKey(path), "Mount already created");
        final MountPointImpl mount = new MountPointImpl(path);
        registerMountPoint(mount);
        mounts.put(path, mount);
        notifyMountCreated(path);
        return mount;
    }

    public void notifyMountCreated(final YangInstanceIdentifier identifier) {
        for (final ListenerRegistration<MountProvisionListener> listener : listeners
            .getListeners()) {
            listener.getInstance().onMountPointCreated(identifier);
        }
    }

    public Object registerMountPoint(final MountPointImpl impl) {
        // FIXME: Why is this commented out? Either we need it or we don't
        // dataBroker?.registerConfigurationReader(impl.mountPath, impl.readWrapper);
        // dataBroker?.registerOperationalReader(impl.mountPath, impl.readWrapper);
        return null;
    }

    @Override
    public MountProvisionInstance createOrGetMountPoint(final YangInstanceIdentifier path) {
        final MountPointImpl mount = mounts.get(path);
        if (mount == null) {
            return createMountPoint(path);
        }
        return mount;
    }
}
package org.opendaylight.controller.sal.dom.broker;

import java.util.Collections;
import java.util.HashSet;
import java.util.Set;
import java.util.concurrent.Future;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.sal.core.api.Broker;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.Consumer;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.RoutedRpcDefaultImplementation;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.controller.sal.core.api.RpcProvisionRegistry;

@Override
public MountProvisionInstance getMountPoint(final YangInstanceIdentifier path) {
    return mounts.get(path);
}

/**
 * @return the dataBroker
 */
public DataProviderService getDataBroker() {
    return dataBroker;
}

/**
 * @param dataBroker
 *      the dataBroker to set
 */
public void setDataBroker(final DataProviderService dataBroker) {
    this.dataBroker = dataBroker;
}

@Override
public ListenerRegistration<MountProvisionListener> registerProvisionListener(
    final MountProvisionListener listener) {
    return listeners.register(listener);
}

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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.sal.dom.broker;

import java.util.Collections;
import java.util.HashSet;
import java.util.Set;
import java.util.concurrent.Future;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.sal.core.api.Broker;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.Consumer;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.RoutedRpcDefaultImplementation;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.controller.sal.core.api.RpcProvisionRegistry;

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import org.opendaylight.controller.sal.core.api.RpcRegistrationListener;
import org.opendaylight.controller.sal.core.api.RpcRoutingContext;
import org.opendaylight.controller.sal.dom.broker.spi.RpcRouter;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.osgi.framework.BundleContext;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.ImmutableClassToInstanceMap;
import com.google.common.util.concurrent.ListenableFuture;

public class BrokerImpl implements Broker, RpcProvisionRegistry, AutoCloseable {
    private final static Logger log = LoggerFactory.getLogger(BrokerImpl.class);

    // Broker Generic Context
    private final Set<ConsumerContextImpl> sessions = Collections.synchronizedSet(new HashSet<ConsumerContextImpl>());
    private final Set<ProviderContextImpl> providerSessions = Collections.synchronizedSet(new HashSet<ProviderContextImpl>());
    private AutoCloseable deactivator = null;
    private RpcRouter router = null;
    private final ClassToInstanceMap<BrokerService> services;

    public BrokerImpl(final RpcRouter router, final ClassToInstanceMap<BrokerService> services) {
        this.router = Preconditions.checkNotNull(router, "RPC Router must not be null");
        this.services = ImmutableClassToInstanceMap.copyOf(services);
    }

    @Override
    public ConsumerSession registerConsumer(final Consumer consumer, final BundleContext ctx) {
        return registerConsumer(consumer);
    }

    @Override
    public ProviderSession registerProvider(final Provider provider, final BundleContext ctx) {
        // Implementation
    }
}
return registerProvider(provider);
}

protected Future<RpcResult<CompositeNode>> invokeRpcAsync(final QName rpc,
    final CompositeNode input) {
    return router.invokeRpc(rpc, input);
}

// Validation
private void checkPredicates(final Provider prov) {
    Preconditions.checkNotNull(prov, "Provider should not be null.");
    for (ProviderContextImpl session : providerSessions) {
        if (prov.equals(session.getProvider())) {
            throw new IllegalStateException("Provider already registered");
        }
    }
}

private void checkPredicates(final Consumer cons) {
    Preconditions.checkNotNull(cons, "Consumer should not be null.");
    for (ConsumerContextImpl session : sessions) {
        if (cons.equals(session.getConsumer())) {
            throw new IllegalStateException("Consumer already registered");
        }
    }
}

// Private Factory methods
private ConsumerContextImpl newSessionFor(final Consumer provider) {
    ConsumerContextImpl ret = new ConsumerContextImpl(provider, this);
    return ret;
}

private ProviderContextImpl newSessionFor(final Provider provider) {
    ProviderContextImpl ret = new ProviderContextImpl(provider, this);
    return ret;
}

protected void consumerSessionClosed(
    final ConsumerContextImpl consumerContextImpl) {
    sessions.remove(consumerContextImpl);
    providerSessions.remove(consumerContextImpl);
}

@Override
public void close() throws Exception {
    if (deactivator != null) {

deactivator.close();
deaactive = null;
}
}

@override
public RpcRegistration addRpcImplementation(final QName rpcType,
final RpcImplementation implementation)
throws IllegalArgumentException {
    return router.addRpcImplementation(rpcType, implementation);
}

@override
public RoutedRpcRegistration addRoutedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    return router.addRoutedRpcImplementation(rpcType, implementation);
}

@override
public void setRoutedRpcDefaultDelegate(final RoutedRpcDefaultImplementation defaultImplementation) {
    router.setRoutedRpcDefaultDelegate(defaultImplementation);
}

@override
public ListenerRegistration<RpcRegistrationListener> addRpcRegistrationListener(final RpcRegistrationListener listener) {
    return router.addRpcRegistrationListener(listener);
}

@override
public <L extends RouteChangeListener<RpcRoutingContext, YangInstanceIdentifier>> ListenerRegistration<L> registerRouteChangeListener(final L listener) {
    return router.registerRouteChangeListener(listener);
}

@override
public Set<QName> getSupportedRpcs() {
    return router.getSupportedRpcs();
}

@override
public ListenableFuture<RpcResult<CompositeNode>> invokeRpc(final QName rpc, final CompositeNode input) {
    return router.invokeRpc(rpc, input);
/**
 * @return the deactivator
 */

public AutoCloseable getDeactivator() {
    return deactivator;
}

/**
 * @param deactivator
 * the deactivator to set
 */

public void setDeactivator(final AutoCloseable deactivator) {
    this.deactivator = deactivator;
}

/**
 * @return the router
 */

public RpcRouter getRouter() {
    return router;
}

/**
 * @param router
 * the router to set
 */

public void setRouter(final RpcRouter router) {
    this.router = router;
}

protected <T extends BrokerService> Optional<T> getGlobalService(final Class<T> service) {
    return Optional.fromNullable(services.getInstance(service));
}

@Override

public ConsumerSession registerConsumer(Consumer consumer) {
    checkPredicates(consumer);
    log.trace("Registering consumer {}", consumer);
    final ConsumerContextImpl session = newSessionFor(consumer);
    consumer.onSessionInitiated(session);
    sessions.add(session);
    return session;
}

@Override

public ProviderSession registerProvider(Provider provider) {
checkPredicates(provider);
final ProviderContextImpl session = newSessionFor(provider);
provider.onSessionInitiated(session);
providerSessions.add(session);
return session;
}

*/

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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/

package org.opendaylight.controller.sal.dom.broker;

import static com.google.common.base.Preconditions.checkState;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import java.net.URL;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.List;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaContextProvider;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.model.api.Module;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;
import org.opendaylight.yangtools.yang.model.api.SchemaContextListener;
import org.opendaylight.yangtools.yang.parser.repo.URLSchemaContextResolver;
import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;
import org.osgi.framework.BundleEvent;
import org.osgi.framework.ServiceReference;
import org.osgi.util.tracker.BundleTracker;
import org.osgi.util.tracker.BundleTrackerCustomizer;
import org.osgi.util.tracker.ServiceTracker;
import org.osgi.util.tracker.ServiceTrackerCustomizer;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class GlobalBundleScanningSchemaServiceImpl implements SchemaContextProvider, SchemaService,
ServiceTrackerCustomizer<SchemaContextListener, SchemaContextListener>, AutoCloseable {
    private static final Logger LOG = LoggerFactory.getLogger(GlobalBundleScanningSchemaServiceImpl.class);

    private final static ListenerRegistry<SchemaContextListener> listeners = new ListenerRegistry<>();
    private final URLSchemaContextResolver contextResolver = URLSchemaContextResolver.create("global-
bundle");
    private final BundleScanner scanner = new BundleScanner();
    private final BundleContext context;
    private ServiceTracker<SchemaContextListener, SchemaContextListener> listenerTracker;
    private BundleTracker<Iterable<Registration>> bundleTracker;
    private final BundleContext context;
    private boolean starting = true;
    private static GlobalBundleScanningSchemaServiceImpl instance;

    private GlobalBundleScanningSchemaServiceImpl(final BundleContext context) {
        this.context = Preconditions.checkNotNull(context);
    }

    public synchronized static GlobalBundleScanningSchemaServiceImpl createInstance(final BundleContext ctx) {
        Preconditions.checkState(instance == null);
        instance = new GlobalBundleScanningSchemaServiceImpl(ctx);
        instance.start();
        return instance;
    }

    public synchronized static GlobalBundleScanningSchemaServiceImpl getInstance() {
        Preconditions.checkState(instance != null, "Global Instance was not instantiated");
        return instance;
    }

    @VisibleForTesting
    public static synchronized void destroyInstance() {
        try {
            instance.close();
        } finally {
            instance = null;
        }
    }

    public BundleContext getContext() {
        return context;
    }

    public synchronized static GlobalBundleScanningSchemaServiceImpl createInstance(final BundleContext ctx) {
        Preconditions.checkState(instance == null);
        instance = new GlobalBundleScanningSchemaServiceImpl(ctx);
        instance.start();
        return instance;
    }

    public synchronized static GlobalBundleScanningSchemaServiceImpl getInstance() {
        Preconditions.checkState(instance != null, "Global Instance was not instantiated");
        return instance;
    }

    @VisibleForTesting
    public static synchronized void destroyInstance() {
        try {
            instance.close();
        } finally {
            instance = null;
        }
    }

    public BundleContext getContext() {
        return context;
    }

    public void start() {
        checkState(context != null);
    }
}
listenerTracker = new ServiceTracker<>(context, SchemaContextListener.class, GlobalBundleScanningSchemaServiceImpl.this);
bundleTracker = new BundleTracker<>(context, BundleEvent.RESOLVED | BundleEvent.UNRESOLVED, scanner);
bundleTracker.open();
listenerTracker.open();
starting = false;
tryToUpdateSchemaContext();

@Override
public SchemaContext getSchemaContext() {
    return getGlobalContext();
}

@Override
public SchemaContext getGlobalContext() {
    return contextResolver.getSchemaContext().orElse(null);
}

@Override
public void addModule(final Module module) {
    throw new UnsupportedOperationException();
}

@Override
public SchemaContext getSessionContext() {
    throw new UnsupportedOperationException();
}

@Override
public void removeModule(final Module module) {
    throw new UnsupportedOperationException();
}

@Override
public synchronized ListenerRegistration<SchemaContextListener> registerSchemaContextListener(final SchemaContextListener listener) {
    Optional<SchemaContext> potentialCtx = contextResolver.getSchemaContext();
    if(potentialCtx.isPresent()) {
        listener.onGlobalContextUpdated(potentialCtx.get());
    }
    return listeners.register(listener);
}

@Override
public void close() {

if (bundleTracker != null) {
    bundleTracker.close();
}
if (listenerTracker != null) {
    listenerTracker.close();
}

for (ListenerRegistration<SchemaContextListener> l : listeners.getListeners()) {
    l.close();
}

private synchronized void updateContext(final SchemaContext snapshot) {
    Object[] services = listenerTracker.getServices();
    for (ListenerRegistration<SchemaContextListener> listener : listeners) {
        try {
            listener.getInstance().onGlobalContextUpdated(snapshot);
        } catch (Exception e) {
            LOG.error("Exception occurred during invoking listener", e);
        }
    }
    if (services != null) {
        for (Object rawListener : services) {
            final SchemaContextListener listener = (SchemaContextListener) rawListener;
            try {
                listener.onGlobalContextUpdated(snapshot);
            } catch (Exception e) {
                LOG.error("Exception occurred during invoking listener ", listener, e);
            }
        }
    }
}

private class BundleScanner implements BundleTrackerCustomizer<Iterable<Registration>> {
    @Override
    public Iterable<Registration> addingBundle(final Bundle bundle, final BundleEvent event) {
        if (bundle.getBundleId() == 0) {
            return Collections.emptyList();
        }

        final Enumeration<URL> enumeration = bundle.findEntries("META-INF/yang", ".yang", false);
        final List<Registration> urls = new ArrayList<>();
        while (enumeration.hasMoreElements()) {
            final Registration registration = enumeration.nextElement();
            urls.add(registration);
        }

        final List<Registration> urls2 = new ArrayList<>();
        for (Registration registration : urls) {
            try {
                if (registration instanceof DDMLearningListener) {
                    DDMLearningListener learningListener = (DDMLearningListener) registration;
                    learningListener.onDiscovery(snapshot);
                }
            } catch (Exception e) {
                LOG.error("Exception occurred during invoking listener ", registration, e);
            }
        }
        return urls2;
    }
}

final URL u = enumeration.nextElement();
try {
    urls.add(contextResolver.registerSource(u));
    LOG.debug("Registered {}", u);
} catch (Exception e) {
    LOG.warn("Failed to register {}, ignoring it", e);
}

if (!urls.isEmpty()) {
    LOG.debug("Loaded {} new URLs, rebuilding schema context", urls.size());
    tryToUpdateSchemaContext();
}

return ImmutableList.copyOf(urls);
}

@Override
public void modifiedBundle(final Bundle bundle, final BundleEvent event, final Iterable<Registration> object) {
    LOG.debug("Modified bundle {} {} {}", bundle, event, object);
}

/**
 * If removing YANG files makes yang store inconsistent, method
 * {@link #getYangStoreSnapshot()} will throw exception. There is no
 * rollback.
 */

@Override
public synchronized void removedBundle(final Bundle bundle, final BundleEvent event, final
Iterable<Registration> urls) {
    for (Registration url : urls) {
        try {
            url.close();
        } catch (Exception e) {
            LOG.warn("Failed do unregister URL {}, proceeding", url, e);
        }
    }
    tryToUpdateSchemaContext();
}

@Override
public synchronized SchemaContextListener addingService(final ServiceReference<SchemaContextListener>
reference) {

    SchemaContextListener listener = context.getService(reference);

SchemaContext _ctxContext = getGlobalContext();
if (getContext() != null && _ctxContext != null) {
    listener.onGlobalContextUpdated(_ctxContext);
}
return listener;

public synchronized void tryToUpdateSchemaContext() {
    if (starting) {
        return;
    }
    Optional<SchemaContext> schema = contextResolver.getSchemaContext();
    if (schema.isPresent()) {
        updateContext(schema.get());
    }
}

@Override
public void modifiedService(final ServiceReference<SchemaContextListener> reference, final
SchemaContextListener service) {
    // NOOP
}

@Override
public void removedService(final ServiceReference<SchemaContextListener> reference, final
SchemaContextListener service) {
    context.ungetService(reference);
}

package org.opendaylight.controller.sal.dom.broker;
import java.util.Collection;
import java.util.concurrent.Future;
import javax.annotation.concurrent.GuardedBy;
import org.opendaylight.controller.sal.core.api.Broker.ConsumerSession;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.Consumer;
import org.opendaylight.controller.sal.dom.broker.osgi.AbstractBrokerServiceProxy;
import org.opendaylight.controller.sal.dom.broker.osgi.ProxyFactory;

import java.util.Collection;
import java.util.concurrent.Future;
import javax.annotation.concurrent.GuardedBy;
import org.opendaylight.controller.sal.core.api.Broker.ConsumerSession;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.Consumer;
import org.opendaylight.controller.sal.dom.broker.osgi.AbstractBrokerServiceProxy;
import org.opendaylight.controller.sal.dom.broker.osgi.ProxyFactory;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.MutableClassToInstanceMap;

class ConsumerContextImpl implements ConsumerSession {

    private final ClassToInstanceMap<BrokerService> instantiatedServices = MutableClassToInstanceMap
        .create();
    private final Consumer consumer;
    private BrokerImpl broker = null;
    @GuardedBy("this")
    private boolean closed = false;

    public ConsumerContextImpl(final Consumer provider, final BrokerImpl brokerImpl) {
        broker = brokerImpl;
        consumer = provider;
    }

    @Override
    public Future<RpcResult<CompositeNode>> rpc(final QName rpc,
        final CompositeNode input) {
        checkNotClosed();
        return broker.invokeRpcAsync(rpc, input);
    }

    @Override
    public <T extends BrokerService> T getService(final Class<T> service) {
        checkNotClosed();
        final T localProxy = instantiatedServices.getInstance(service);
        if (localProxy != null) {
            return localProxy;
        } else {
            final Optional<T> serviceImpl = broker.getGlobalService(service);
            if (serviceImpl.isPresent()) {
                final T ret = ProxyFactory.createProxy(null, serviceImpl.get());
                instantiatedServices.putInstance(service, ret);
                return ret;
            } else {
                return null;
            }
        }
    }
}
@Override
public void close() {
    synchronized (this) {
        if (closed) {
            return;
        }
        this.closed = true;
    }

    Collection<BrokerService> toStop = instantiatedServices.values();
    for (BrokerService brokerService : toStop) {
        if (brokerService instanceof AbstractBrokerServiceProxy<?>) {
            ((AbstractBrokerServiceProxy<?>) brokerService).close();
        }
    }
    broker.consumerSessionClosed(this);
    broker = null;
}

@override
public synchronized boolean isClosed() {
    return closed;
}

/**
 * @return the broker
 */
protected final BrokerImpl getBrokerChecked() {
    checkNotClosed();
    return broker;
}

/**
 * @return the _consumer
 */
public Consumer getConsumer() {
    return consumer;
}

protected final void checkNotClosed() {
    Preconditions.checkState(!closed, "Session is closed.");
}

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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
package org.opendaylight.controller.sal.dom.broker;

import java.util.HashSet;
import java.util.Set;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.Broker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.core.api.Broker.RpcRegistration;
import org.opendaylight.controller.sal.core.api.Broker.RpcRegistrationListener;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.common.QName;

class ProviderContextImpl extends ConsumerContextImpl implements ProviderSession {
    private final Set<RpcRegistrationWrapper> registrations = new HashSet<>();
    private final Provider provider;

    public ProviderContextImpl(final Provider provider, final BrokerImpl broker) {
        super(null, broker);
        this.provider = provider;
    }

    @Override
    public RpcRegistrationWrapper addRpcImplementation(final QName rpcType,
            final RpcImplementation implementation) throws IllegalArgumentException {
        final RpcRegistration origReg = getBrokerChecked().getRouter().
                addRpcImplementation(rpcType, implementation);
        final RpcRegistrationWrapper newReg = new RpcRegistrationWrapper(
                origReg);
        registrations.add(newReg);
        return newReg;
    }

    protected boolean removeRpcImplementation(final RpcRegistrationWrapper implToRemove) {
        return registrations.remove(implToRemove);
    }

    @Override
    public void close() {
        for (final RpcRegistrationWrapper reg : registrations) {
            reg.close();
        }
    }

    @Override
    public RpcRegistrationWrapper addRpcImplementation(final QName rpcType,
            final RpcImplementation implementation) throws IllegalArgumentException {
        final RpcRegistration origReg = getBrokerChecked().getRouter()
                .addRpcImplementation(rpcType, implementation);
        final RpcRegistrationWrapper newReg = new RpcRegistrationWrapper(
                origReg);
        registrations.add(newReg);
        return newReg;
    }

    protected boolean removeRpcImplementation(final RpcRegistrationWrapper implToRemove) {
        return registrations.remove(implToRemove);
    }

    @Override
    public void close() {
        for (final RpcRegistrationWrapper reg : registrations) {
            reg.close();
        }
    }

    @Override
public RoutedRpcRegistration addMountedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    throw new UnsupportedOperationException("TODO: auto-generated method stub");
}

@Override
public RoutedRpcRegistration addRoutedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    return getBrokerChecked().getRouter().addRoutedRpcImplementation(rpcType, implementation);
}

@Override
public Set<QName> getSupportedRpcs() {
    return getBrokerChecked().getRouter().getSupportedRpcs();
}

@Override
public ListenerRegistration<RpcRegistrationListener> addRpcRegistrationListener(final RpcRegistrationListener listener) {
    return getBrokerChecked().getRouter().addRpcRegistrationListener(listener);
}

/**
 * @return the provider
 */
public Provider getProvider() {
    return provider;
}

/**
 * @param provider
 * @param the provider to set
 */

4.159 sal-clustering-commons 1.1.1-Helium-SR1

4.159.1 Available under license :

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 */
package org.opendaylight.controller.cluster.datastore.node.utils.serialization;

import java.util.List;

/**
 * Implementation of the QNameDeSerializationContext interface.
 *
 * @author Thomas Pantelis
 */
public class QNameDeSerializationContextImpl implements QNameDeSerializationContext {

    private final List<String> codeList;

    public QNameDeSerializationContextImpl(List<String> codeList) {
        this.codeList = codeList;
    }

    @Override
    public String getNamespace(int namespace) {
        return codeList.get(namespace);
    }

    @Override
    public String getRevision(int revision) {
        return codeList.get(revision);
    }

    @Override
    public String getLocalName(int localName) {
        return codeList.get(localName);
    }
}

package org.opendaylight.controller.cluster.datastore.node.utils.serialization;

import java.net.URI;
import java.util.ArrayList;
import java.util.Date;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.opendaylight.yangtools.yang.common.SimpleDateFormatUtil;

/**
 * Implementation of the QNameSerializationContext interface.
 * @author Thomas Pantelis
 */
public class QNameSerializationContextImpl implements QNameSerializationContext {

    private final Map<Object, Integer> codeMap = new HashMap<>();
    private final List<String> codes = new ArrayList<>();

    public List<String> getCodes() {
        return codes;
    }

    @Override
    public int addNamespace(URI namespace) {
        int namespaceInt = getCode(namespace);

        if(namespaceInt == -1) {
            namespaceInt = addCode(namespace, namespace.toString());
        }
        return namespaceInt;
    }

    @Override
    public int addRevision(Date revision) {
        if(revision == null){
            return -1;
        }

        int revisionInt = getCode(revision);
        if(revisionInt == -1) {
            String formattedRevision =
                SimpleDateFormatUtil.getRevisionFormat().format(revision);
            revisionInt = addCode(revision, formattedRevision);
        }
        return revisionInt;
    }

    @Override
    public int addLocalName(String localName) {
        int localNameInt = getCode(localName);
        if(localNameInt == -1) {
            localNameInt = addCode(localName, localName);
        }
        return localNameInt;
    }
}
private int addCode(Object code, String codeStr) {
    int count = codes.size();
    codes.add(codeStr);
    codeMap.put(code, Integer.valueOf(count));
    return count;
}

private int getCode(Object code) {
    Integer value = codeMap.get(code);
    return value == null ? -1 : value.intValue();
}

4.160 sal-common-api 1.1.1-Helium-SR1

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.concepts.Registration;

/**
 * @deprecated This was intended as Registration object, normal use of
 * @link org.opendaylight.yangtools.concepts.ObjectRegistration
 * is sufficient, since @link #getPath() was implementation leak.
 * @param <P>
 * @param <D>
 */
@Deprecated
public interface DataCommitHandlerRegistration<P extends Path<P>, D> extends Registration {
    P getPath();
}

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 * */
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package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.ObjectRegistration;
import org.opendaylight.yangtools.concepts.Path;

/**
 * Three Phase Commit Coordinator with support of user-supplied commit cohorts * which participates in three-phase commit protocols *
 * @param <P>
 * Type of path (subtree identifier), which represents location in *
 * tree *
 * @param <D>
 * Type of data (payload), which represents data payload */
public interface AsyncConfigurationCommitCoordinator<P extends Path<P>, D> {

/**
 * Register configuration commit handler for particular subtree *
 * Configuration commit handler is invoked for all write transactions *
 * which modifies <code>subtree</code> *
 * @param subtree Subtree which configuration commit handler is interested it *
 * @param commitHandler Instance of user-provided commit handler *
 * @return Registration object representing this registration. Invoking { @link ObjectRegistration#close() } *
 * will unregister configuration commit handler. */
 <C extends AsyncConfigurationCommitCohort<P, D>> ObjectRegistration<C>
 registerConfigurationCommitHandler(
     P subtree, C commitHandler);
}
/*
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 * and is available at http://www.eclipse.org/legal/epl-v10.html */
package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.ObjectRegistration;
import org.opendaylight.yangtools.concepts.Path;

import com.google.common.util.concurrent.ListenableFuture;
/**
 * Three phase Commit Cohort for subtree, which is
 * uniquely associated with user submitted transaction.
 * @param <P>
 * Type of path (subtree identifier), which represents location in
 * tree
 * @param <D>
 * Type of data (payload), which represents data payload
 */

public interface AsyncConfigurationCommitCohort<P extends Path<P>, D> {

    /**
     * Initiates a pre-commit of associated request
     *
     * Implementation MUST NOT do any blocking calls during this callback, all
     * pre-commit preparation SHOULD happen asynchronously and MUST result in
     * completing returned future object.
     *
     * @param rebasedTransaction
     * Read-only view of transaction as if happened on top of actual
     * data store
     * @return Future which is completed once pre-commit phase for this request
     * is finished.
     */
    ListenableFuture<Void> preCommit(AsyncReadTransaction<P, D> rebasedTransaction);

    /**
     * Initiates a commit phase of associated request
     *
     * Implementation MUST NOT do any blocking calls during this callback, all
     * commit finalization SHOULD happen asynchronously and MUST result in
     * completing returned future object.
     *
     * @return Future which is completed once commit phase for associated
     * request is finished.
     */
    ListenableFuture<Void> commit();

    /**
     * Initiates abort phase of associated request
     *
     * Implementation MUST NOT do any blocking calls during this callback, all
     * commit finalization SHOULD happen asynchronously and MUST result in
ListenableFuture<Void> abort();

}
<ol>
<li><code>Broker</code> invokes a <code>DataCommitHandler.requestCommit(DataStoreIdentifier)</code> operation.
<li><code>DataCommitHandler</code> returns a <code>RpcResult</code> with <code>CommitTransaction</code>
<li>If the result was successful, broker adds <code>CommitTransaction</code> to the list of opened transactions. If not, brokers stops a commit request phase and starts a rollback phase.
</ol>

* <h4>Commit Finish Phase</h4>

* <ol>
<li>For each <code>CommitTransaction</code> from Commit Request phase
* <ol>
<li><code>Broker</code> invokes a <code>CommitTransaction.finish()</code>
<li>The provider finishes a commit (applies the change) and returns an <code>RpcResult</code>.
</ol>
<li>...<ul>
<li>If all returned results means successful, the brokers end two-phase commit by returning a success commit result to the Consumer.
<li>If error occured, the broker starts a commit rollback phase.
</ul>
</ol>

* <h4>Commit Rollback Phase</h4>

* <li>For each <code>DataCommitTransaction</code> from Commit Request phase
* <ol>
<li><code>Broker</code> invokes a <code>DataCommitTransaction#finish()</code>
<li>The provider rollbacks a commit and returns an <code>RpcResult</code> of rollback.
</ol>
* <li>Broker returns a error result to the consumer.

* @param <code>P</code> Class representing a path
* @param <code>D</code> Superclass from which all data objects are derived from.
* @deprecated Replaced by [AsyncConfigurationCommitHandler]

public interface DataCommitHandler<code>P extends Path&lt;P&gt;, D</code> {

    DataCommitTransaction&lt;P, D&gt; requestCommit(DataModification&lt;P,D&gt; modification);
}
public interface DataCommitTransaction<P extends Path<P>, D> {

    DataModification<P,D> getModification();

    /**
     * Finishes a commit.
     * This callback is invoked by commit coordinator to finish commit action.
     * The implementation is required to finish transaction or return unsuccessful
     * rpc result if something went wrong.
     * The provider (commit handler) should apply all changes to its state
     * which are a result of data change-
     * @return
     */
    RpcResult<Void> finish() throws IllegalStateException;

    /**
     * Rollbacks a commit.
     * This callback is invoked by commit coordinator to finish commit action.
     * The provider (commit handler) should rollback all changes to its state
     * which were a result of previous request commit.
     * @return
     * @throws IllegalStateException
     */
    RpcResult<Void> rollback() throws IllegalStateException;
}

package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.yang.common.OperationFailedException;
import org.opendaylight.yangtools.yang.common.RpcError;
/**
 * Failed commit of asynchronous transaction
 * This exception is raised and returned when transaction commit
 * failed.
 */

public class TransactionCommitFailedException extends OperationFailedException {

    private static final long serialVersionUID = 1L;

    public TransactionCommitFailedException(final String message, final RpcError... errors) {
this(message, null, errors);
    }

    public TransactionCommitFailedException(final String message, final Throwable cause,
final RpcError... errors) {
        super(message, cause, errors);
    }
}

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.Path;
import com.google.common.util.concurrent.CheckedFuture;

/**
 * User-supplied participant in three-phase commit of transaction for configuration data tree
 * Client-supplied implementation of commit handler for subtree, which
 * is responsible for processing CAN-COMMIT phase of three-phase commit protocol
 * and return CommitCohort, which provides access to additional transitions
 * such as PRE-COMMIT, COMMIT and ABORT.
 *
 * @param <P>
 * Type of path (subtree identifier), which represents location in
 * tree
 * @param <D>
 * Type of data (payload), which represents data payload
 */
public interface AsyncConfigurationCommitHandler<P extends Path<P>, D> {

    /**
     * Requests a can commit phase
     *
     * Implementations SHOULD NOT do any blocking operation during
     * processing this callback.
     *
     * <b>Implementation Notes</b>
     * <ul>
     * <li>Implementation are REQUIRED to use <code>request</code> object for any data related access</li>
     * <li>Implementations SHOULD NOT use any other state stored outside configuration subtree for validation</li>
     * <li>Validation should happen asynchronously, outside callback call by updating returned [
     * @link CheckedFuture object. 
     * </li>
     * <li>If validation (CAN_COMMIT) phase: 
     * <ul>
     * <li><b>is successful</b> - invocation of { @link CheckedFuture#checkedGet() } on returned future MUST
     * return { @link AsyncConfigurationCommitCohort } associated with request.
     * </li>
     * <li><b>is unsuccessful</b> - invocation of { @link CheckedFuture#checkedGet() } must throw instance of
     * { @link DataValidationFailedException } with human readable explanation of error condition.
     * </li>
     * </ul>
     * </li>
     * </ul>
     *
     * @param request
     * Commit Request submitted by client, which contains
     * information about modifications and read-only view as
     * if transaction happened.
     *
     * @return CheckedFuture which contains client-supplied implementation of { @link AsyncConfigurationCommitCohort }
     * associated with submitted request, if can commit phase is
     * successful, if can commit was unsuccessful, future must fail with
     * { @link TransactionCommitFailedException } exception.
     */
    CheckedFuture<AsyncConfigurationCommitCohort<P, D>, DataValidationFailedException> canCommit(
        ConfigurationCommitRequest<P, D> request);

}
static interface ConfigurationCommitRequest<P extends Path<P>, D> {

/**
 * Read-only transaction which provides access only to configuration
 * data tree as if submitted transaction successfully happened and
 * no other concurrent modifications happened between allocation
 * of client transactions and write of client transactions.
 * Implementations of Commit Handlers are REQUIRED to use this
 * read-only view to access any data from configuration data tree,
 * in order to capture them as preconditions for this transaction.
 * @return Read-only transaction which provides access only to configuration
 * data tree as if submitted transaction successfully happened
 */
 AsyncReadTransaction<P, D> getReadOnlyView();

/**
 * Returns iteration of paths, to data which was introduced by this transaction.
 * @return Iteration of paths, which was introduced by this transaction.
 */
 Iterable<P> getCreatedPaths();

/**
 * Returns iteration of paths, to data which was updated by this transaction.
 * @return Iteration of paths, which was updated by this transaction.
 */
 Iterable<P> getUpdatedPaths();

/**
 * Returns iteration of paths, to data which was removed by this transaction.
 * @return Iteration of paths, which was removed by this transaction.
 */
 Iterable<P> getRemovedPaths();
}
package org.opendaylight.controller.md.sal.common.api.data;

import com.google.common.base.Supplier;
import org.opendaylight.yangtools.yang.common.RpcError;
import org.opendaylight.yangtools.yang.common.RpcResultBuilder;

/*@ * A type of TransactionCommitFailedException that indicates a situation that would result in a * threading deadlock. This can occur if a caller that submits a write transaction tries to perform * a blocking call via one of the get methods on the returned ListenableFuture. Callers * should process the commit result asynchronously (via Futures#addCallback) to ensure deadlock * won't occur. * */

public class TransactionCommitDeadlockException extends TransactionCommitFailedException {
    private static final long serialVersionUID = 1L;
    private static final String DEADLOCK_MESSAGE =
            "An attempt to block on a ListenableFuture via a get method from a write " +
            "transaction submit was detected that would result in deadlock. The commit " +
            "result must be obtained asynchronously, e.g. via Futures#addCallback, to avoid deadlock."
            ;
    private static final RpcError DEADLOCK_RPCERROR =
            RpcResultBuilder.newError(ErrorType.APPLICATION, "lock-denied", DEADLOCK_MESSAGE);

    public TransactionCommitDeadlockException(final String message, final RpcError... errors) {
        super(message, errors);
    }
}

public static final Supplier<Exception> DEADLOCK_EXCEPTION_SUPPLIER = new Supplier<Exception>() {
    @Override
    public Exception get() {
        return new TransactionCommitDeadlockException(DEADLOCK_MESSAGE, DEADLOCK_RPCERROR);
    }
};

public TransactionCommitDeadlockException(final String message, final RpcError... errors) {
    super(message, errors);
}
4.161 sal-common-impl 1.1.1-Helium-SR1

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 */

package org.opendaylight.controller.md.sal.common.impl.service;

import java.util.Collections;
import java.util.Map;
import java.util.Set;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.yangtools.concepts.Immutable;
import org.opendaylight.yangtools.concepts.Path;

public class InitialDataChangeEventImpl<P extends Path<P>, D> implements DataChangeEvent<P, D>, Immutable {
    private final D updatedOperationalTree;
    private final D updatedConfigurationTree;
    private final Map<P, D> updatedConfigurationData;
    private final Map<P, D> updatedOperationalData;

    public InitialDataChangeEventImpl(D configTree, D operTree) {
        updatedConfigurationTree = configTree;
        updatedOperationalTree = operTree;
        updatedConfigurationData = Collections.emptyMap();
        updatedOperationalData = Collections.emptyMap();
    }

    public InitialDataChangeEventImpl(D configTree, D operTree, Map<P, D> updatedCfgData, Map<P, D> updatedOperData) {
        updatedConfigurationTree = configTree;
        updatedOperationalTree = operTree;
        updatedConfigurationData = Collections.emptyMap();
        updatedOperationalData = Collections.emptyMap();
    }

    @Override
    public Map<P, D> getCreatedConfigurationData() {
        return Collections.emptyMap();
    }
}

import java.util.Collections;
import java.util.Map;
import java.util.Set;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.yangtools.concepts.Immutable;
import org.opendaylight.yangtools.concepts.Path;

public class InitialDataChangeEventImpl<P extends Path<P>, D> implements DataChangeEvent<P, D>, Immutable {
    private final D updatedOperationalTree;
    private final D updatedConfigurationTree;
    private final Map<P, D> updatedConfigurationData;
    private final Map<P, D> updatedOperationalData;

    public InitialDataChangeEventImpl(D configTree, D operTree) {
        updatedConfigurationTree = configTree;
        updatedOperationalTree = operTree;
        updatedConfigurationData = Collections.emptyMap();
        updatedOperationalData = Collections.emptyMap();
    }

    public InitialDataChangeEventImpl(D configTree, D operTree, Map<P, D> updatedCfgData, Map<P, D> updatedOperData) {
        updatedConfigurationTree = configTree;
        updatedOperationalTree = operTree;
        updatedConfigurationData = Collections.emptyMap();
        updatedOperationalData = Collections.emptyMap();
    }

    @Override
    public Map<P, D> getCreatedConfigurationData() {
        return Collections.emptyMap();
    }
}
@Override
public Map<P, D> getCreatedOperationalData() {
    return Collections.emptyMap();
}

@Override
public Map<P, D> getOriginalConfigurationData() {
    return Collections.emptyMap();
}

@Override
public Map<P, D> getOriginalOperationalData() {
    return Collections.emptyMap();
}

@Override
public Set<P> getRemovedConfigurationData() {
    return Collections.emptySet();
}

@Override
public Set<P> getRemovedOperationalData() {
    return Collections.emptySet();
}

@Override
public Map<P, D> getUpdatedConfigurationData() {
    return updatedConfigurationData;
}

@Override
public D getUpdatedConfigurationSubtree() {
    return updatedConfigurationTree;
}

@Override
public D getUpdatedOperationalSubtree() {
    return updatedOperationalTree;
}

@Override
public D getOriginalConfigurationSubtree() {
    return updatedConfigurationTree;
}

@Override
public D getOriginalOperationalSubtree() {
    return updatedOperationalTree;
}

@Override
public Map<P, D> getUpdatedOperationalData() {
return updatedOperationalData;
}

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 */
package org.opendaylight.controller.md.sal.common.impl.service;

import java.util.Map;
import java.util.Set;
import org.opendaylight.controller.md.sal.common.api.data.DataChange;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.yangtools.concepts.Immutable;
import org.opendaylight.yangtools.concepts.Path;

public class DataChangeEventImpl<P extends Path<P>, D> implements DataChangeEvent<P, D>, Immutable {

private final DataChange<P, D> dataChange;
private final D originalConfigurationSubtree;
private final D originalOperationalSubtree;
private final D updatedOperationalSubtree;
private final D updatedConfigurationSubtree;

public DataChangeEventImpl(DataChange<P, D> dataChange, D originalConfigurationSubtree,
D originalOperationalSubtree, D updatedOperationalSubtree, D updatedConfigurationSubtree) {
super();
this.dataChange = dataChange;
this.originalConfigurationSubtree = originalConfigurationSubtree;
this.originalOperationalSubtree = originalOperationalSubtree;
this.updatedOperationalSubtree = updatedOperationalSubtree;
this.updatedConfigurationSubtree = updatedConfigurationSubtree;
}

@Override
public D getOriginalConfigurationSubtree() {
return originalConfigurationSubtree;
}
@Override
public D getOriginalOperationalSubtree() {
    return originalOperationalSubtree;
}

@Override
public D getUpdatedOperationalSubtree() {
    return updatedOperationalSubtree;
}

@Override
public D getUpdatedConfigurationSubtree() {
    return updatedConfigurationSubtree;
}

public Map<P, D> getCreatedOperationalData() {
    return dataChange.getCreatedOperationalData();
}

public Map<P, D> getCreatedConfigurationData() {
    return dataChange.getCreatedConfigurationData();
}

public Map<P, D> getUpdatedOperationalData() {
    return dataChange.getUpdatedOperationalData();
}

public Map<P, D> getUpdatedConfigurationData() {
    return dataChange.getUpdatedConfigurationData();
}

public Set<P> getRemovedConfigurationData() {
    return dataChange.getRemovedConfigurationData();
}

public Set<P> getRemovedOperationalData() {
    return dataChange.getRemovedOperationalData();
}

public Map<P, D> getOriginalConfigurationData() {
    return dataChange.getOriginalConfigurationData();
}

public Map<P, D> getOriginalOperationalData() {
    return dataChange.getOriginalOperationalData();
}
package org.opendaylight.controller.md.sal.common.impl.service;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorService;
import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeListener;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitTransaction;
import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.common.RpcResultBuilder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Predicate;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.ImmutableList.Builder;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

public class TwoPhaseCommit<P extends Path<P>, D extends Object, DCL extends DataChangeListener<P, D>>
        implements Callable<RpcResult<TransactionStatus>> {
    private static final Logger log = LoggerFactory.getLogger(TwoPhaseCommit.class);
    private final AbstractDataTransaction<P, D> transaction;
    private final AbstractDataBroker<P, D, DCL> dataBroker;

    public TwoPhaseCommit(final AbstractDataTransaction<P, D> transaction, final AbstractDataBroker<P, D, DCL> broker) {
        this.transaction = transaction;
    }
}

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
this.dataBroker = broker;
}

@Override
call() throws Exception {
    final Object transactionId = this.transaction.getIdentifier();

    Set<P> changedPaths = ImmutableSet.<P>
    builder().addAll(transaction.getUpdatedConfigurationData().keySet())
      .addAll(transaction.getCreatedConfigurationData().keySet())
      .addAll(transaction.getRemovedConfigurationData().keySet())
      .addAll(transaction.getUpdatedOperationalData().keySet())
      .addAll(transaction.getCreatedOperationalData().keySet())
      .addAll(transaction.getRemovedOperationalData()).build();

    log.trace("Transaction: {} Affected Subtrees: {}", transactionId, changedPaths);

    // The transaction has no effects, let's just shortcut it
    if (changedPaths.isEmpty()) {
        dataBroker.getFinishedTransactionsCount().getAndIncrement();
        transaction.succeeded();

        log.trace("Transaction: {} Finished successfully (no effects).", transactionId);

        return RpcResultBuilder.<TransactionStatus>success(TransactionStatus.COMMITTED).build();
    }

    final ImmutableList.Builder<ListenerStateCapture<P, D, DCL>> listenersBuilder = ImmutableList.builder();
    listenersBuilder.addAll(dataBroker.affectedListeners(changedPaths));
    filterProbablyAffectedListeners(dataBroker.probablyAffectedListeners(changedPaths), listenersBuilder);

    final ImmutableList<ListenerStateCapture<P, D, DCL>> listeners = listenersBuilder.build();
    final Iterable<DataCommitHandler<P, D>> commitHandlers =
    dataBroker.affectedCommitHandlers(changedPaths);
    captureInitialState(listeners);

    log.trace("Transaction: {} Starting Request Commit.", transactionId);
    final List<DataCommitTransaction<P, D>> handlerTransactions = new ArrayList<>();
    try {
        for (final DataCommitHandler<P, D> handler : commitHandlers) {
            DataCommitTransaction<P, D> requestCommit = handler.requestCommit(this.transaction);
            if (requestCommit != null) {
                handlerTransactions.add(requestCommit);
            } else {
                log.debug("Transaction: {}, Handler {} is not participating in transaction.", transactionId,
handler;
}
}

} catch (Exception e) {
    log.error("Transaction: {} Request Commit failed", transactionId, e);
dataBroker.getFailedTransactionsCount().getAndIncrement();
    this.transaction.failed();
    return this.rollback(handlerTransactions, e);
}

log.trace("Transaction: {} Starting Finish.", transactionId);
final List<RpcResult<Void>> results = new ArrayList<RpcResult<Void>>(());
try {
    for (final DataCommitTransaction<P, D> subtransaction : handlerTransactions) {
        results.add(subtransaction.finish());
    }
} catch (Exception e) {
    log.error("Transaction: {} Finish Commit failed", transactionId, e);
dataBroker.getFailedTransactionsCount().getAndIncrement();
    transaction.failed();
    return this.rollback(handlerTransactions, e);
}

dataBroker.getFinishedTransactionsCount().getAndIncrement();
transaction.succeeded();

log.trace("Transaction: {} Finished successfully.", transactionId);

captureFinalState(listeners);

log.trace("Transaction: {} Notifying listeners.", transactionId);
publishDataChangeEvent(listeners);
return RpcResultBuilder.<TransactionStatus> success(TransactionStatus.COMMITTED).build();

private void captureInitialState(ImmutableList<ListenerStateCapture<P, D, DCL>> listeners) {
    for (ListenerStateCapture<P, D, DCL> state : listeners) {
        state.setInitialConfigurationState(dataBroker.readConfigurationData(state.getPath()));
        state.setInitialOperationalState(dataBroker.readOperationalData(state.getPath()));
    }
}

private void captureFinalState(ImmutableList<ListenerStateCapture<P, D, DCL>> listeners) {
    for (ListenerStateCapture<P, D, DCL> state : listeners) {
state.setFinalConfigurationState(dataBroker.readConfigurationData(state.getPath()));
state.setFinalOperationalState(dataBroker.readOperationalData(state.getPath()));
}
}

private void filterProbablyAffectedListeners(
  ImmutableList<ListenerStateCapture<P, D, DCL>> probablyAffectedListeners,
  Builder<ListenerStateCapture<P, D, DCL>> reallyAffected)
{
  for (ListenerStateCapture<P, D, DCL> listenerSet : probablyAffectedListeners) {
    P affectedPath = listenerSet.getPath();
    Optional<RootedChangeSet<P, D>> configChange = resolveConfigChange(affectedPath);
    Optional<RootedChangeSet<P, D>> operChange = resolveOperChange(affectedPath);
    if (configChange.isPresent() || operChange.isPresent()) {
      reallyAffected.add(listenerSet);
      if (configChange.isPresent()) {
        listenerSet.setNormalizedConfigurationChanges(configChange.get());
      }
      if (operChange.isPresent()) {
        listenerSet.setNormalizedOperationalChanges(operChange.get());
      }
    }
  }
}

private Optional<RootedChangeSet<P, D>> resolveOperChange(P affectedPath) {
  Map<P, D> originalOper =
  dataBroker.deepGetBySubpath(transaction.getOriginalOperationalData(), affectedPath);
  Map<P, D> createdOper =
  dataBroker.deepGetBySubpath(transaction.getCreatedOperationalData(), affectedPath);
  Map<P, D> updatedOper =
  dataBroker.deepGetBySubpath(transaction.getUpdatedOperationalData(), affectedPath);
  Set<P> removedOper = Sets.filter(transaction.getRemovedOperationalData(),
  dataBroker.createIsContainedPredicate(affectedPath));
  return resolveChanges(affectedPath, originalOper, createdOper, updatedOper, removedOper);
}

private Optional<RootedChangeSet<P, D>> resolveConfigChange(P affectedPath) {
  Map<P, D> originalConfig =
  dataBroker.deepGetBySubpath(transaction.getOriginalConfigurationData(), affectedPath);
  Map<P, D> createdConfig =
  dataBroker.deepGetBySubpath(transaction.getCreatedConfigurationData(), affectedPath);
  Map<P, D> updatedConfig =
  dataBroker.deepGetBySubpath(transaction.getUpdatedConfigurationData(), affectedPath);
  Set<P> removedConfig = Sets.filter(transaction.getRemovedConfigurationData(),
  dataBroker.createIsContainedPredicate(affectedPath));
  return resolveChanges(affectedPath, originalConfig, createdConfig, updatedConfig, removedConfig);
}
return resolveChanges(affectedPath, originalConfig, createdConfig, updatedConfig, removedConfig);
}

private Optional<RootedChangeSet<P, D>> resolveChanges(P affectedPath, Map<P, D> originalConfig, Map<P, D> createdConfig, Map<P, D> updatedConfig, Set<P> potentialDeletions) {
    Predicate<P> isContained = dataBroker.createIsContainedPredicate(affectedPath);

    if(createdConfig.isEmpty() && updatedConfig.isEmpty() && potentialDeletions.isEmpty()) {
        return Optional.absent();
    }

    RootedChangeSet<P, D> changeSet = new RootedChangeSet<P, D>(affectedPath, originalConfig);
    changeSet.addCreated(createdConfig);

    for(Entry<P, D> entry : updatedConfig.entrySet()) {
        if(originalConfig.containsKey(entry.getKey())) {
            changeSet.addUpdated(entry);
        } else {
            changeSet.addCreated(entry);
        }
    }

    for(Entry<P, D> entry : originalConfig.entrySet()) {
        for(P deletion : potentialDeletions) {
            if(isContained.apply(deletion)) {
                changeSet.addRemoval(entry.getKey());
            }
        }
    }

    if(changeSet.isChange()) {
        return Optional.of(changeSet);
    } else {
        return Optional.absent();
    }
}

public void publishDataChangeEvent(final ImmutableList<ListenerStateCapture<P, D, DCL>> listeners) {
    ExecutorService executor = this.dataBroker.getExecutor();
    final Runnable notifyTask = new Runnable() {
        @Override
        public void run() {
            for (final ListenerStateCapture<P, D, DCL> listenerSet : listeners) {
                try {
                    DataChangeEvent<P, D> changeEvent = listenerSet.createEvent(transaction);
                    for (final DataChangeListenerRegistration<P, D, DCL> listener : listenerSet.getListeners()) {
                        listener.getInstance().onDataChanged(changeEvent);
                    }
                } catch (Exception e) {
                    
                }
            }
        }
    }
    executor.execute(notifyTask);
}
4.162 sal-common-util 1.1.1-Helium-SR1

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 */

package org.opendaylight.controller.md.sal.common.util.jmx;

import com.google.common.base.Preconditions;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.Executor;
import java.util.concurrent.RejectedExecutionHandler;
import java.util.concurrent.ThreadPoolExecutor;
import javax.annotation.Nullable;
import org.opendaylight.yangtools.util.concurrent.CountingRejectedExecutionHandler;
import org.opendaylight.yangtools.util.concurrent.TrackingLinkedBlockingQueue;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * MXBean implementation of the ThreadExecutorStatsMXBean interface that retrieves statistics
 * from a backing { @link java.util.concurrent.ExecutorService}.
 *
 * @author Thomas Pantelis
 */

public RpcResult<TransactionStatus> rollback(final List<DataCommitTransaction<P, D>> transactions, final
    Exception e) {
    for (final DataCommitTransaction<P, D> transaction : transactions) {
        transaction.rollback();
    }
    return RpcResultBuilder.<TransactionStatus> failed().withResult(TransactionStatus.FAILED).build();
}
public class ThreadExecutorStatsMXBeanImpl extends AbstractMXBean
    implements ThreadExecutorStatsMXBean {
    private static final Logger LOG = LoggerFactory.getLogger(ThreadExecutorStatsMXBeanImpl.class);
    private final ThreadPoolExecutor executor;

    /**
     * Constructs an instance for the given Executor.
     *
     * @param executor the backing Executor
     * @param mBeanName Used as the name property in the bean's ObjectName.
     * @param mBeanType Used as the type property in the bean's ObjectName.
     * @param mBeanCategory Used as the Category property in the bean's ObjectName.
     */
    public ThreadExecutorStatsMXBeanImpl(final ThreadPoolExecutor executor, final String mBeanName,
                                         final String mBeanType, @Nullable final String mBeanCategory) {
        super(mBeanName, mBeanType, mBeanCategory);
        this.executor = Preconditions.checkNotNull(executor);
    }

    private static ThreadExecutorStatsMXBeanImpl createInternal(final Executor executor,
                                                                  final String mBeanName, final String mBeanType, final String mBeanCategory) {
        if (executor instanceof ThreadPoolExecutor) {
            final ThreadExecutorStatsMXBeanImpl ret = new ThreadExecutorStatsMXBeanImpl(
                (ThreadPoolExecutor) executor, mBeanName, mBeanType, mBeanCategory);
            return ret;
        }
        LOG.info("Executor {} is not supported", executor);
        return null;
    }

    /**
     * Creates a new bean if the backing executor is a ThreadPoolExecutor and registers it.
     *
     * @param executor the backing Executor
     * @param mBeanName Used as the name property in the bean's ObjectName.
     * @param mBeanType Used as the type property in the bean's ObjectName.
     * @param mBeanCategory Used as the Category property in the bean's ObjectName.
     * @return a registered ThreadExecutorStatsMXBeanImpl instance if the backing executor
     *         is a ThreadPoolExecutor, otherwise null.
     */
    public static ThreadExecutorStatsMXBeanImpl create(final Executor executor, final String mBeanName,
                                                        final String mBeanType, @Nullable final String mBeanCategory) {
        ThreadExecutorStatsMXBeanImpl ret = createInternal(executor, mBeanName, mBeanType, mBeanCategory);
        if(ret != null) {
            ret.registerMBean();
        }
    }
}
return ret;
}

/**
 * Creates a new bean if the backing executor is a ThreadPoolExecutor.
 *
 * @param executor the backing Executor
 * @return a ThreadExecutorStatsMXBeanImpl instance if the backing executor is a
 *         ThreadPoolExecutor, otherwise null.
 */
public static ThreadExecutorStatsMXBeanImpl create(final Executor executor) {
    return createInternal(executor, "", "", null);
}

@Override
public long getCurrentThreadPoolSize() {
    return executor.getPoolSize();
}

@Override
public long getLargestThreadPoolSize() {
    return executor.getLargestPoolSize();
}

@Override
public long getMaxThreadPoolSize() {
    return executor.getMaximumPoolSize();
}

@Override
public long getCurrentQueueSize() {
    return executor.getQueue().size();
}

@Override
public Long getLargestQueueSize() {
    BlockingQueue<Runnable> queue = executor.getQueue();
    if(queue instanceof TrackingLinkedBlockingQueue) {
    }
    return null;
}

@Override
public long getMaxQueueSize() {
    long queueSize = executor.getQueue().size();
    return queueSize;
}

@Override
public Long getLargestQueueSize() {
    BlockingQueue<Runnable> queue = executor.getQueue();
    if(queue instanceof TrackingLinkedBlockingQueue) {
    }
    return null;
}

@Override
public long getMaxQueueSize() {
    long queueSize = executor.getQueue().size();
    return queueSize;
}
return executor.getQueue().remainingCapacity() + queueSize;
}

@Override
public long getActiveThreadCount() {
    return executor.getActiveCount();
}

@Override
public long getCompletedTaskCount() {
    return executor.getCompletedTaskCount();
}

@Override
public long getTotalTaskCount() {
    return executor.getTaskCount();
}

@Override
public Long getRejectedTaskCount() {
    RejectedExecutionHandler rejectedHandler = executor.getRejectedExecutionHandler();
    if(rejectedHandler instanceof CountingRejectedExecutionHandler) {
        return Long.valueOf(((CountingRejectedExecutionHandler)rejectedHandler)
            .getRejectedTaskCount());
    }

    return null;
}

/**
 * Returns a {@link ThreadExecutorStats} instance containing a snapshot of the statistic
 * metrics.
 */
public ThreadExecutorStats toThreadExecutorStats() {
    return new ThreadExecutorStats(getActiveThreadCount(), getCurrentThreadPoolSize(),
        getLargestThreadPoolSize(), getMaxThreadPoolSize(), getCurrentQueueSize(),
        getLargestQueueSize(), getMaxQueueSize(), getCompletedTaskCount(),
        getTotalTaskCount(), getRejectedTaskCount());
}

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.common.util.jmx;

import java.util.List;
import org.opendaylight.yangtools.util.concurrent.ListenerNotificationQueueStats;
import org.opendaylight.yangtools.util.concurrent.QueuedNotificationManager;

import com.google.common.base.Preconditions;

/**
 * Implementation of the QueuedNotificationManagerMXBean interface.
 * 
 * This class is not intended for use outside of MD-SAL and its part of private
 * implementation (still exported as public to be reused across MD-SAL implementation
 * components) and may be removed in subsequent
 * releases.
 * 
 * @author Thomas Pantelis
 */
public class QueuedNotificationManagerMXBeanImpl extends AbstractMXBean
    implements QueuedNotificationManagerMXBean {

    private final QueuedNotificationManager<?,?> manager;

    public QueuedNotificationManagerMXBeanImpl( QueuedNotificationManager<?,?> manager,
        String mBeanName, String mBeanType, String mBeanCategory ) {
        super(mBeanName, mBeanType, mBeanCategory);
        this.manager = Preconditions.checkNotNull( manager );
    }

    @Override
    public List<ListenerNotificationQueueStats> getCurrentListenerQueueStats() {
        return manager.getListenerNotificationQueueStats();
    }

    @Override
    public int getMaxListenerQueueSize() {
        return manager.getMaxQueueCapacity();
    }

    public QueuedNotificationManagerStats toQueuedNotificationManagerStats() {
        return new QueuedNotificationManagerStats( getMaxListenerQueueSize(),
            getCurrentListenerQueueStats() );
    }

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     */
}
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*/
package org.opendaylight.controller.sal.common.util;

import org.opendaylight.controller.md.sal.common.api.data.DataModification;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler.DataCommitTransaction;
import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.common.RpcResultBuilder;

public class CommitHandlerTransactions {

    private static class AlwaysSuccessfulTransaction<P extends Path<P>, D> implements DataCommitTransaction<P, D> {
        private final DataModification<P, D> modification;

        public AlwaysSuccessfulTransaction(DataModification<P, D> modification) {
            this.modification = modification;
        }

        @Override
        public RpcResult<Void> rollback() throws IllegalStateException {
            return RpcResultBuilder.<Void>success().build();
        }

        @Override
        public RpcResult<Void> finish() throws IllegalStateException {
            return RpcResultBuilder.<Void>success().build();
        }

        @Override
        public DataModification<P, D> getModification() {
            return modification;
        }
    }

    public static final <P extends Path<P>, D> AlwaysSuccessfulTransaction<P, D> alwaysSuccessfulTransaction(DataModification<P, D> modification) {
        return new AlwaysSuccessfulTransaction<>(modification);
    }
}

4.163 sal-connector-api 1.1.1-Helium-SR1
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4.164 sal-core-api 1.1.1-Helium-SR1

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   */

package org.opendaylight.controller.sal.core.api;

import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import com.google.common.util.concurrent.ListenableFuture;
public interface RoutedRpcDefaultImplementation {

        ListenableFuture<RpcResult<CompositeNode>> invokeRpc(QName rpc, YangInstanceIdentifier identifier, CompositeNode input);

    }

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    */

    package org.opendaylight.controller.sal.core.api;

    import java.util.Set;

    import org.opendaylight.yangtools.yang.common.QName;
    import org.opendaylight.yangtools.yang.common.RpcResult;
    import org.opendaylight.yangtools.yang.data.api.CompositeNode;

    import com.google.common.util.concurrent.ListenableFuture;

    /**
    * {@link Provider}'s implementation of an RPC.
    *
    * In order to expose an RPC to other components, the provider MUST register
    * a concrete implementation of this interface.
    *
    * The registration could be done by :
    * <ul>
    * <li>returning an instance of implementation in the return value of
    *    {@link Provider#getProviderFunctionality()}
    * <li>passing an instance of implementation and {@link QName} of rpc as
    *    arguments to the
    * <ul>
    * <li> {@link org.opendaylight.controller.sal.core.api.Broker.ProviderSession#addRpcImplementation(QName, RpcImplementation)}
    * </ul>
    * 
    * The simplified process of the invocation of rpc is following:
    *
    * <ol>
    * <li> {@link Consumer} invokes
    * <li> {@link org.opendaylight.controller.sal.core.api.Broker.ConsumerSession#rpc(QName, CompositeNode)}
    * <li> finds registered implementations
    * <li> invokes
    * <li> invokes
    * <li> processes the data and returns a
public interface RpcImplementation extends Provider.ProviderFunctionality {

/**
 * A set of rpc types supported by implementation.
 *
 * The set of rpc QName)s which are supported by this implementation.
 * This set is used, when Provider is registered to the SAL, to
 * register and expose the implementation of the returned rpcs.
 *
 * @return Set of QNames identifying supported RPCs
 */
Set<QName> getSupportedRpcs();

/**
 * Invokes a implementation of specified RPC asynchronously.
 *
 * @param rpc
 *           RPC to be invoked
 * @param input
 *           Input data for the RPC.
 *
 * @throws IllegalArgumentException
 *           
 *          If rpc is null.
 *          If input is not null and false == rpc.equals(input.getNodeType)
 * @return Future promising an RpcResult containing the output of
 *         the RPC if was executed successfully, the list of errors
 *         otherwise.
 */
ListenableFuture<RpcResult<CompositeNode>> invokeRpc(QName rpc, CompositeNode input);
}

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 */
public class RpcImplementationUnavailableException extends RuntimeException {
    private static final long serialVersionUID = 1L;

    public RpcImplementationUnavailableException(final String message) {
        super(message);
    }

    public RpcImplementationUnavailableException(final String message, final Throwable cause) {
        super(message, cause);
    }
}

4.165 sal-core-spi 1.1.1-Helium-SR1

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 */
package org.opendaylight.controller.sal.core.spi.data;

import com.google.common.util.concurrent.ListenableFuture;

/**
 * Interface implemented by the [@link DOMStore] and exposed for each [@link DOMStoreWriteTransaction]
 * upon its transition to Ready state. The frontend (DOMStore user) uses this interface to drive the
 * commit procedure across potentially multiple DOMStores using the Three-Phase-Commit (3PC) Protocol,
 * as described in [@link https://en.wikipedia.org/wiki/Three-phase_commit].
 */
public interface DOMStoreThreePhaseCommitCohort {

    /**
     * Sends transaction associated with this three phase commit instance to the
     * participant, participant votes on the transaction, if the transaction
     * should be committed or aborted.
     *
     * @return ListenableFuture with vote of the participant. Vote
     *         [@link ListenableFuture#get] is following:
     *         <ul>
     *         <li>true if transaction is approved by data store.
     *         <li>false if the transaction is not approved by data store and
     *         should be aborted.
     */

}
ListenFuture<Boolean> canCommit();

/**
 * Initiates a pre-commit phase of associated transaction on datastore.
 * This message is valid only and only if and only if the participant responded
 * on [@link canCommit()] call with positive response.
 * @return ListenableFuture representing acknowledgment for participant
 * that pre-commit message was received and processed.
 */
ListenableFuture<Void> preCommit();

/**
 * Initiates a abort phase of associated transaction on data store.
 * @return ListenableFuture representing acknowledgment for participant
 * that abort message was received.
 */
ListenableFuture<Void> abort();

/**
 * Initiates a commit phase on of associated transaction on data store.
 * @return ListenableFuture representing acknowledgment for participant
 * that commit message was received and commit of transaction was
 * processed.
 */
ListenableFuture<Void> commit();
}

4.166 sal-distributed-datastore 1.1.1-Helium-SR1
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 */

package org.opendaylight.controller.cluster.datastore.messages;
import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class CommitTransaction implements SerializableMessage {
    public static final Class<ThreePhaseCommitCohortMessages.CommitTransaction> SERIALIZABLE_CLASS =
            ThreePhaseCommitCohortMessages.CommitTransaction.class;

    private final String transactionID;

    public CommitTransaction(String transactionID) {
        this.transactionID = transactionID;
    }

    public String getTransactionID() {
        return transactionID;
    }

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.CommitTransaction.newBuilder().setTransactionId(
                transactionID).build();
    }

    public static CommitTransaction fromSerializable(Object message) {
        return new CommitTransaction(((ThreePhaseCommitCohortMessages.
            CommitTransaction)message).getTransactionId());
    }
    }

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 */

package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class PreCommitTransaction implements SerializableMessage{

    public static final Class SERIALIZABLE_CLASS =
            ThreePhaseCommitCohortMessages.PreCommitTransaction.class;

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.PreCommitTransaction.newBuilder().build();
    }
package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class CanCommitTransactionReply implements SerializableMessage {
    private final Boolean canCommit;

    public CanCommitTransactionReply(Boolean canCommit) {
        this.canCommit = canCommit;
    }

    public Boolean getCanCommit() {
        return canCommit;
    }

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.CanCommitTransactionReply.newBuilder().setCanCommit(canCommit).build();
    }

    public static CanCommitTransactionReply fromSerializable(Object message) {
    }
}
package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class CanCommitTransaction implements SerializableMessage {

    public static final Class<?> SERIALIZABLE_CLASS = ThreePhaseCommitCohortMessages.CanCommitTransaction.class;

    private final String transactionID;

    public CanCommitTransaction(String transactionID) {
        this.transactionID = transactionID;
    }

    public String getTransactionID() {
        return transactionID;
    }

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.CanCommitTransaction.newBuilder().
                setTransactionId(transactionID).build();
    }

    public static CanCommitTransaction fromSerializable(Object message) {
        return new CanCommitTransaction(((ThreePhaseCommitCohortMessages.CanCommitTransaction)message).getTransactionId());
    }

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.CommitTransactionReply.newBuilder().
                setTransactionId(transactionID).build();
    }

    public static CommitTransactionReply fromSerializable(Object message) {
        return new CommitTransactionReply(((ThreePhaseCommitCohortMessages.CommitTransactionReply)message).getTransactionId());
    }

    /*
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     */
return ThreePhaseCommitCohortMessages.CommitTransactionReply.newBuilder().build();
} } /*
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 */

package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class PreCommitTransactionReply implements SerializableMessage {

public static final Class SERIALIZABLE_CLASS = ThreePhaseCommitCohortMessages.PreCommitTransactionReply.class;

@Override
public Object toSerializable() {
    return ThreePhaseCommitCohortMessages.PreCommitTransactionReply.newBuilder().build();
} }

/*
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 */

package org.opendaylight.controller.cluster.datastore.compat;

import org.opendaylight.controller.cluster.common.actor.AbstractUntypedActor;
import org.opendaylight.controller.cluster.datastore.messages.AbortTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.PreCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.PreCommitTransactionReply;
import akka.actor.PoisonPill;
import akka.actor.Props;
import akka.event.Logging;
import akka.event.LoggingAdapter;
import akka.japi.Creator;

/**
 * An actor to maintain backwards compatibility for the base Helium version where the 3-phase commit
* messages don't contain the transactionId. This actor just forwards a new message containing the
* transactionId to the parent Shard.
*
* @author Thomas Pantelis
*/

public class BackwardsCompatibleThreePhaseCommitCohort extends AbstractUntypedActor {

    private final LoggingAdapter LOG = Logging.getLogger(getContext().system(), this);

    private final String transactionId;

    private BackwardsCompatibleThreePhaseCommitCohort(String transactionId) {
        this.transactionId = transactionId;
    }

    @Override
    public void handleReceive(Object message) throws Exception {
        if(message.getClass().equals(CanCommitTransaction.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort CanCommitTransaction");
            getContext().parent().forward(new CanCommitTransaction(transactionId).toSerializable(),
                getContext());
        } else if(message.getClass().equals(PreCommitTransaction.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort PreCommitTransaction");
            // The Shard doesn't need the PreCommitTransaction message so just return the reply here.
            getSender().tell(new PreCommitTransactionReply().toSerializable(), self());
        } else if(message.getClass().equals(CommitTransaction.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort CommitTransaction");
            getContext().parent().forward(new CommitTransaction(transactionId).toSerializable(),
                getContext());
            // We're done now - we can self-destruct
            self().tell(PoisonPill.getInstance(), self());
        } else if(message.getClass().equals(AbortTransaction.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort AbortTransaction");
            getContext().parent().forward(new AbortTransaction(transactionId).toSerializable(),
                getContext());
            self().tell(PoisonPill.getInstance(), self());
        }
    }

    public static Props props(String transactionId) {
        return Props.create(new BackwardsCompatibleThreePhaseCommitCohortCreator(transactionId));
    }
}
private static class BackwardsCompatibleThreePhaseCommitCohortCreator implements Creator<BackwardsCompatibleThreePhaseCommitCohort> {
    private static final long serialVersionUID = 1L;

    private final String transactionId;

    BackwardsCompatibleThreePhaseCommitCohortCreator(String transactionId) {
        this.transactionId = transactionId;
    }

    @Override
    public BackwardsCompatibleThreePhaseCommitCohort create() throws Exception {
        return new BackwardsCompatibleThreePhaseCommitCohort(transactionId);
    }
}

package org.opendaylight.controller.cluster.datastore;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.typesafe.config.Config;
import com.typesafe.config.ConfigFactory;
import com.typesafe.config.ConfigObject;
import org.opendaylight.controller.cluster.datastore.shardstrategy.DefaultShardStrategy;
import org.opendaylight.controller.cluster.datastore.shardstrategy.ModuleShardStrategy;
import org.opendaylight.controller.cluster.datastore.shardstrategy.ShardStrategy;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.io.File;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

public class ConfigurationImpl implements Configuration {

import java.io.File;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

public class ConfigurationImpl implements Configuration {
private final List<ModuleShard> moduleShards = new ArrayList<>();

private final List<Module> modules = new ArrayList<>();

private static final Logger LOG = LoggerFactory.getLogger(DistributedDataStore.class);

// Look up maps to speed things up

// key = memberName, value = list of shardNames
private Map<String, List<String>> memberShardNames = new HashMap<>();

// key = shardName, value = list of replicaNames (replicaNames are the same as memberNames)
private Map<String, List<String>> shardReplicaNames = new HashMap<>();

public ConfigurationImpl(String moduleShardsConfigPath, String modulesConfigPath){

    Preconditions.checkNotNull(moduleShardsConfigPath, "moduleShardsConfigPath should not be null");
    Preconditions.checkNotNull(modulesConfigPath, "modulesConfigPath should not be null");

    File moduleShardsFile = new File("./configuration/initial/" + moduleShardsConfigPath);
    File modulesFile = new File("./configuration/initial/" + modulesConfigPath);

    Config moduleShardsConfig = null;
    if(moduleShardsFile.exists()) {
        LOG.info("module shards config file exists - reading config from it");
        moduleShardsConfig = ConfigFactory.parseFile(moduleShardsFile);
    } else {
        LOG.warn("module shards configuration read from resource");
        moduleShardsConfig = ConfigFactory.load(moduleShardsConfigPath);
    }

    Config modulesConfig = null;
    if(modulesFile.exists()) {
        LOG.info("modules config file exists - reading config from it");
        modulesConfig = ConfigFactory.parseFile(modulesFile);
    } else {
        LOG.warn("modules configuration read from resource");
        modulesConfig = ConfigFactory.load(modulesConfigPath);
    }

    readModuleShards(moduleShardsConfig);
    readModules(modulesConfig);
@Override public List<String> getMemberShardNames(String memberName) {

    Preconditions.checkNotNull(memberName, "memberName should not be null");

    if(memberShardNames.containsKey(memberName)){
        return memberShardNames.get(memberName);
    }

    List<String> shards = new ArrayList<>();
    for(ModuleShard ms : moduleShards){
        for(Shard s : ms.getShards()){  
            for(String m : s.getReplicas()){  
                if(memberName.equals(m)){
                    shards.add(s.getName());
                }
            }
        }
    }

    memberShardNames.put(memberName, shards);

    return shards;
}

@override public Optional<String> getModuleNameFromNameSpace(String nameSpace) {

    Preconditions.checkNotNull(nameSpace, "nameSpace should not be null");

    for(Module m : modules){
        if(m.getNameSpace().equals(nameSpace)){
            return Optional.of(m.getName());
        }
    }

    return Optional.absent();
}

@override public Map<String, ShardStrategy> getModuleNameToShardStrategyMap() {

    Map<String, ShardStrategy> map = new HashMap<>();
    for(Module m : modules){
        map.put(m.getName(), m.getShardStrategy());
    }

    return map;
}

@override public List<String> getShardNamesFromModuleName(String moduleName) {
Preconditions.checkNotNull(moduleName, "moduleName should not be null");

for(ModuleShard m : moduleShards)
    if(m.getModuleName().equals(moduleName)){
        List<String> l = new ArrayList<>();
        for(Shard s : m.getShards()){
            l.add(s.getName());
        }
        return l;
    }
    return Collections.EMPTY_LIST;
}

@Override public List<String> getMembersFromShardName(String shardName) {
    Preconditions.checkNotNull(shardName, "shardName should not be null");

    if(shardReplicaNames.containsKey(shardName)){
        return shardReplicaNames.get(shardName);
    }

    for(ModuleShard ms : moduleShards){
        for(Shard s : ms.getShards()) {
            if(s.getName().equals(shardName)){
                List<String> replicas = s.getReplicas();
                shardReplicaNames.put(shardName, replicas);
                return replicas;
            }
        }
    }
    shardReplicaNames.put(shardName, Collections.EMPTY_LIST);
    return Collections.EMPTY_LIST;
}

@Override public Set<String> getAllShardNames() {
    Set<String> shardNames = new LinkedHashSet<>();
    for(ModuleShard ms : moduleShards){
        for(Shard s : ms.getShards()) {
            shardNames.add(s.getName());
        }
    }
    return shardNames;
}
private void readModules(Config modulesConfig) {
    List<? extends ConfigObject> modulesConfigObjectList =
    modulesConfig.getObjectList("modules");

    for(ConfigObject o : modulesConfigObjectList){
        ConfigObjectWrapper w = new ConfigObjectWrapper(o);
        modules.add(new Module(w.stringValue("name"), w.stringValue("namespace"),
                                w.stringValue("shard-strategy")));
    }
}

private void readModuleShards(Config moduleShardsConfig) {
    List<? extends ConfigObject> moduleShardsConfigObjectList =
    moduleShardsConfig.getObjectList("module-shards");

    for(ConfigObject moduleShardConfigObject : moduleShardsConfigObjectList){
        String moduleName = moduleShardConfigObject.get("name").unwrapped().toString();

        List<? extends ConfigObject> shardsConfigObjectList =
        moduleShardConfigObject.toConfig().getObjectList("shards");

        List<Shard> shards = new ArrayList<>();

        for(ConfigObject shard : shardsConfigObjectList){
            String shardName = shard.get("name").unwrapped().toString();
            List<String> replicas = shard.toConfig().getStringList("replicas");
            shards.add(new Shard(shardName, replicas));
        }

        this.moduleShards.add(new ModuleShard(moduleName, shards));
    }
}

private class ModuleShard {
    private final String moduleName;
    private final List<Shard> shards;

    public ModuleShard(String moduleName, List<Shard> shards) {
        this.moduleName = moduleName;
        this.shards = shards;
    }

    public String getModuleName() {
        return moduleName;
    }
}
public List<Shard> getShards() {
    return shards;
}

private class Shard {
    private final String name;
    private final List<String> replicas;

    Shard(String name, List<String> replicas) {
        this.name = name;
        this.replicas = replicas;
    }

    public String getName() {
        return name;
    }

    public List<String> getReplicas() {
        return replicas;
    }
}

private class Module {
    private final String name;
    private final String nameSpace;
    private final ShardStrategy shardStrategy;

    Module(String name, String nameSpace, String shardStrategy) {
        this.name = name;
        this.nameSpace = nameSpace;
        if(ModuleShardStrategy.NAME.equals(shardStrategy)){
            this.shardStrategy = new ModuleShardStrategy(name, ConfigurationImpl.this);
        } else {
            this.shardStrategy = new DefaultShardStrategy();
        }
    }

    public String getName() {
        return name;
    }

    public String getNameSpace() {
        return nameSpace;
    }
}
public ShardStrategy getShardStrategy() {
    return shardStrategy;
}

private static class ConfigObjectWrapper{
    private final ConfigObject configObject;

    ConfigObjectWrapper(ConfigObject configObject) {
        this.configObject = configObject;
    }

    public String stringValue(String name) {
        return configObject.get(name).unwrapped().toString();
    }
}

package org.opendaylight.controller.cluster.datastore;

import java.util.LinkedList;
import java.util.Queue;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.modification.Modification;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import akka.actor.ActorRef;
import akka.actor.Status;
import com.google.common.cache.Cache;
import com.google.common.cache.CacheBuilder;

/**
 * Coordinates commits for a shard ensuring only one concurrent 3-phase commit.
 *
 * @author Thomas Pantelis
 */

import java.util.concurrent.TimeUnit;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.modification.Modification;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import akka.actor.ActorRef;
import akka.actor.Status;
import com.google.common.cache.Cache;
import com.google.common.cache.CacheBuilder;

/**
 * Coordinates commits for a shard ensuring only one concurrent 3-phase commit.
 *
 * @author Thomas Pantelis
 */
public class ShardCommitCoordinator {

    private static final Logger LOG = LoggerFactory.getLogger(ShardCommitCoordinator.class);

    private static final Object CAN_COMMIT_REPLY_TRUE =
        new CanCommitTransactionReply(Boolean.TRUE).toSerializable();

    private static final Object CAN_COMMIT_REPLY_FALSE =
        new CanCommitTransactionReply(Boolean.FALSE).toSerializable();

    private final Cache<String, CohortEntry> cohortCache;

    private CohortEntry currentCohortEntry;

    private final Queue<CohortEntry> queuedCohortEntries;

    private final int queueCapacity;

    public ShardCommitCoordinator(long cacheExpiryTimeoutInSec, int queueCapacity) {
        cohortCache = CacheBuilder.newBuilder().expireAfterAccess(
            cacheExpiryTimeoutInSec, TimeUnit.SECONDS).build();

        this.queueCapacity = queueCapacity;

        // We use a LinkedList here to avoid synchronization overhead with concurrent queue impls
        // since this should only be accessed on the shard's dispatcher.
        queuedCohortEntries = new LinkedList<>();
    }

    /**
     * This method caches a cohort entry for the given transactions ID in preparation for the
     * subsequent 3-phase commit.
     *
     * @param transactionID the ID of the transaction
     * @param cohort the cohort to participate in the transaction commit
     * @param modification the modification made by the transaction
     */
    public void transactionReady(String transactionID, DOMStoreThreePhaseCommitCohort cohort,
                                  Modification modification) {
        cohortCache.put(transactionID, new CohortEntry(transactionID, cohort, modification));
    }

    /**
     * This method handles the canCommit phase for a transaction.
     *
     * @param canCommit the CanCommitTransaction message
     * @param sender the actor that sent the message
     */

* @param shard the transaction's shard actor
*/

public void handleCanCommit(CanCommitTransaction canCommit, final ActorRef sender,
     final ActorRef shard) {
    String transactionID = canCommit.getTransactionID();
    if(LOG.isDebugEnabled()) {
        LOG.debug("Processing canCommit for transaction {} for shard {}",
                 transactionID, shard.path());
    }

    // Lookup the cohort entry that was cached previously (or should have been) by
    // transactionReady (via the ForwardedReadyTransaction message).
    final CohortEntry cohortEntry = cohortCache.getIfPresent(transactionID);
    if(cohortEntry == null) {
        // Either canCommit was invoked before ready(shouldn't happen) or a long time passed
        // between canCommit and ready and the entry was expired from the cache.
        IllegalStateException ex = new IllegalStateException(
            String.format("No cohort entry found for transaction %s", transactionID));
        LOG.error(ex.getMessage());
        sender.tell(new Status.Failure(ex), shard);
        return;
    }

    cohortEntry.setCanCommitSender(sender);
    cohortEntry.setShard(shard);

    if(currentCohortEntry != null) {
        // There's already a Tx commit in progress - attempt to queue this entry to be
        // committed after the current Tx completes.
        LOG.debug("Transaction {} is already in progress - queueing transaction {}",
                 currentCohortEntry.getTransactionID(), transactionID);

        if(queuedCohortEntries.size() < queueCapacity) {
            queuedCohortEntries.offer(cohortEntry);
        } else {
            removeCohortEntry(transactionID);

            RuntimeException ex = new RuntimeException(
                String.format("Could not enqueue transaction %s - the maximum commit queue"+" capacity %d has been reached.
                 transactionID, queueCapacity));
            LOG.error(ex.getMessage());
            sender.tell(new Status.Failure(ex), shard);
        }
    } else {
        // No Tx commit currently in progress - make this the current entry and proceed with
        // canCommit.
        cohortEntry.updateLastAccessTime();
    }
}
currentCohortEntry = cohortEntry;

doCanCommit(cohortEntry);
}

private void doCanCommit(final CohortEntry cohortEntry) {
    try {
        // We block on the future here so we don't have to worry about possibly accessing our
        // state on a different thread outside of our dispatcher. Also, the data store
        // currently uses a same thread executor anyway.
        Boolean canCommit = cohortEntry.getCohort().canCommit().get();

        cohortEntry.getCanCommitSender().tell(
            canCommit ? CAN_COMMIT_REPLY_TRUE : CAN_COMMIT_REPLY_FALSE,
            cohortEntry.getShard());

        if(!canCommit) {
            // Remove the entry from the cache now since the Tx will be aborted.
            removeCohortEntry(cohortEntry.getTransactionID());
        }
    } catch (InterruptedException | ExecutionException e) {
        LOG.debug("An exception occurred during canCommit", e);

        // Remove the entry from the cache now since the Tx will be aborted.
        removeCohortEntry(cohortEntry.getTransactionID());
        cohortEntry.getCanCommitSender().tell(new Status.Failure(e), cohortEntry.getShard());
    }
}

/**
 * Returns the cohort entry for the Tx commit currently in progress if the given transaction ID
 * matches the current entry.
 *
 * @param transactionID the ID of the transaction
 * @return the current CohortEntry or null if the given transaction ID does not match the
 *         current entry.
 */
public CohortEntry getCohortEntryIfCurrent(String transactionID) {
    if(isCurrentTransaction(transactionID)) {
        return currentCohortEntry;
    }

    return null;
}

public CohortEntry getCurrentCohortEntry() {
return currentCohortEntry;
}

public CohortEntry getAndRemoveCohortEntry(String transactionID) {
    CohortEntry cohortEntry = cohortCache.getIfPresent(transactionID);
    cohortCache.invalidate(transactionID);
    return cohortEntry;
}

public void removeCohortEntry(String transactionID) {
    cohortCache.invalidate(transactionID);
}

public boolean isCurrentTransaction(String transactionID) {
    return currentCohortEntry != null &&
            currentCohortEntry.getTransactionID().equals(transactionID);
}

/**
 * This method is called when a transaction is complete, successful or not. If the given
 * given transaction ID matches the current in-progress transaction, the next cohort entry,
 * if any, is dequeued and processed.
 *
 * @param transactionID the ID of the completed transaction
 * @param removeCohortEntry if true the CohortEntry for the transaction is also removed from
 *        the cache.
 * /
public void currentTransactionComplete(String transactionID, boolean removeCohortEntry) {
    if(removeCohortEntry) {
        removeCohortEntry(transactionID);
    }

    if(isCurrentTransaction(transactionID)) {
        // Dequeue the next cohort entry waiting in the queue.
        currentCohortEntry = queuedCohortEntries.poll();
        if(currentCohortEntry != null) {
            doCanCommit(currentCohortEntry);
        }
    }
}

static class CohortEntry {
    private final String transactionID;
    private final DOMStoreThreePhaseCommitCohort cohort;
    private final Modification modification;
    private ActorRef canCommitSender;
    private ActorRef shard;
    private long lastAccessTime;
}
CohortEntry(String transactionID, DOMStoreThreePhaseCommitCohort cohort,
        Modification modification) {
    this.transactionID = transactionID;
    this.cohort = cohort;
    this.modification = modification;
}

void updateLastAccessTime() {
    lastAccessTime = System.currentTimeMillis();
}

long getLastAccessTime() {
    return lastAccessTime;
}

String getTransactionID() {
    return transactionID;
}

DOMStoreThreePhaseCommitCohort getCohort() {
    return cohort;
}

Modification getModification() {
    return modification;
}

ActorRef getCanCommitSender() {
    return canCommitSender;
}

void setCanCommitSender(ActorRef canCommitSender) {
    this.canCommitSender = canCommitSender;
}

ActorRef getShard() {
    return shard;
}

void setShard(ActorRef shard) {
    this.shard = shard;
}

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*/

package org.opendaylight.controller.cluster.datastore;

import akka.actor.ActorSelection;
import akka.dispatch.Futures;
import akka.dispatch.OnComplete;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.collect.Lists;
import com.google.common.util.concurrent.ListenableFuture;
import com.google.common.util.concurrent.SettableFuture;
import org.opendaylight.controller.cluster.datastore.messages.AbortTransaction;
import org.opendaylight.controller.cluster.datastore.messages.AbortTransactionReply;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.messages.CommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.utils.ActorContext;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import scala.concurrent.Future;
import scala.runtime.AbstractFunction1;
import java.util.Collections;
import java.util.List;

/**
 * ThreePhaseCommitCohortProxy represents a set of remote cohort proxies
 */
public class ThreePhaseCommitCohortProxy implements DOMStoreThreePhaseCommitCohort{

    private static final Logger LOG = LoggerFactory.getLogger(ThreePhaseCommitCohortProxy.class);

    private static final ListenableFuture<Void> IMMEDIATE_SUCCESS =
    com.google.common.util.concurrent.Futures.immediateFuture(null);

    private final ActorContext actorContext;
    private final List<Future<ActorSelection>> cohortFutures;
    private volatile List<ActorSelection> cohorts;
    private final String transactionId;

    public ThreePhaseCommitCohortProxy(ActorContext actorContext,
                                       List<Future<ActorSelection>> cohortFutures, String transactionId) {
        this.actorContext = actorContext;
        this.cohortFutures = cohortFutures;
        this.transactionId = transactionId;

    }
this.transactionId = transactionId;
}

private Future<Void> buildCohortList() {

    Future<Iterable<ActorSelection>> combinedFutures = Futures.sequence(cohortFutures,
        actorContext.getActorSystem().dispatcher());

    return combinedFutures.transform(new.AbstractFunction1<Iterable<ActorSelection>, Void>() {
        @Override
        public Void apply(Iterable<ActorSelection> actorSelections) {
            cohorts = Lists.newArrayList(actorSelections);
            if(LOG.isDebugEnabled()) {
                LOG.debug("Tx {} successfully built cohort path list: {}", transactionId, cohorts);
            }
            return null;
        }
    }, TransactionProxy.SAME_FAILURE_TRANSFORMER, actorContext.getActorSystem().dispatcher());
}

    @Override
    public ListenableFuture<Boolean> canCommit() {
        if(LOG.isDebugEnabled()) {
            LOG.debug("Tx {} canCommit", transactionId);
        }
        final SettableFuture<Boolean> returnFuture = SettableFuture.create();

        // The first phase of canCommit is to gather the list of cohort actor paths that will
        // participate in the commit. buildCohortPathsList combines the cohort path Futures into
        // one Future which we wait on asynchronously here. The cohort actor paths are
        // extracted from ReadyTransactionReply messages by the Futures that were obtained earlier
        // and passed to us from upstream processing. If any one fails then we'll fail canCommit.

        buildCohortList().onComplete(new.OnComplete<Void>() {
            @Override
            public void onComplete(Throwable failure, Void notUsed) throws Throwable {
                if(failure != null) {
                    if(LOG.isDebugEnabled()) {
                        LOG.debug("Tx {}: a cohort Future failed: {}", transactionId, failure);
                    }
                    returnFuture.setException(failure);
                } else {
                    finishCanCommit(returnFuture);
                }
            }
        }, actorContext.getActorSystem().dispatcher());
return returnFuture;
}

private void finishCanCommit(final SettableFuture<Boolean> returnFuture) {
    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {} finishCanCommit", transactionId);
    }
    // The last phase of canCommit is to invoke all the cohort actors asynchronously to perform
    // their canCommit processing. If any one fails then we'll fail canCommit.

    Future<Iterable<Object>> combinedFuture =
    invokeCohorts(new CanCommitTransaction(transactionId).toSerializable());

    combinedFuture.onComplete(new OnComplete<Iterable<Object>>() {
        @Override
        public void onComplete(Throwable failure, Iterable<Object> responses) throws Throwable {
            if(failure != null) {
                if(LOG.isDebugEnabled()) {
                    LOG.debug("Tx {}: a canCommit cohort Future failed: {}", transactionId, failure);
                }
                returnFuture.setException(failure);
                return;
            }
            boolean result = true;
            for(Object response: responses) {
                if (response.getClass().equals(CanCommitTransactionReply.SERIALIZABLE_CLASS)) {
                    CanCommitTransactionReply reply =
                    CanCommitTransactionReply.fromSerializable(response);
                    if (!reply.getCanCommit()) {
                        result = false;
                        break;
                    }
                } else {
                    LOG.error("Unexpected response type {}", response.getClass());
                    returnFuture.setException(new IllegalArgumentException("Unexpected response type {}", response.getClass()));
                    return;
                }
            }
            if(LOG.isDebugEnabled()) {
                LOG.debug("Tx {}: canCommit returning result: {}", transactionId, result);
            }
            returnFuture.set(Boolean.valueOf(result));
        }
    }, actorContext.getActorSystem().dispatcher());
}
private Future<Iterable<Object>> invokeCohorts(Object message) {
    List<Future<Object>> futureList = Lists.newArrayListWithCapacity(cohorts.size());
    for (ActorSelection cohort : cohorts) {
        if (LOG.isDebugEnabled()) {
            LOG.debug("Tx {}: Sending {} to cohort {}", transactionId, message, cohort);
        }

        futureList.add(actorContext.executeOperationAsync(cohort, message));
    }

    return Futures.sequence(futureList, actorContext.getActorSystem().dispatcher());
}

@Override
public ListenableFuture<Void> preCommit() {
    // We don't need to do anything here - preCommit is done atomically with the commit phase
    // by the shard.
    return IMMEDIATE_SUCCESS;
}

@Override
public ListenableFuture<Void> abort() {
    // Note - we pass false for propagateException. In the front-end data broker, this method
    // is called when one of the 3 phases fails with an exception. We'd rather have that
    // original exception propagated to the client. If our abort fails and we propagate the
    // exception then that exception will supersede and suppress the original exception. But
    // it's the original exception that is the root cause and of more interest to the client.

    return voidOperation("abort", new AbortTransaction(transactionId).toSerializable(),
                        AbortTransactionReply.SERIALIZABLE_CLASS, false);
}

@Override
public ListenableFuture<Void> commit() {
    return voidOperation("commit", new CommitTransaction(transactionId).toSerializable(),
                        CommitTransactionReply.SERIALIZABLE_CLASS, true);
}

private ListenableFuture<Void> voidOperation(final String operationName, final Object message,
                                              final Class<?> expectedResponseClass, final boolean propagateException) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("Tx {} {}", transactionId, operationName);
    }

    final SettableFuture<Void> returnFuture = SettableFuture.create();

    // The cohort actor list should already be built at this point by the canCommit phase but,
    // if not for some reason, we'll try to build it here.
if(cohorts != null) {
    finishVoidOperation(operationName, message, expectedResponseClass, propagateException,
                         returnFuture);
} else {
    buildCohortList().onComplete(new OnComplete<Void>() {
        @Override
        public void onComplete(Throwable failure, Void notUsed) throws Throwable {
            if(failure != null) {
                if(LOG.isDebugEnabled()) {
                    LOG.debug("Tx {}: a {} cohort path Future failed: {}", transactionId, operationName, failure);
                }
                if(propagateException) {
                    returnFuture.setException(failure);
                } else {
                    returnFuture.set(null);
                }
            } else {
                finishVoidOperation(operationName, message, expectedResponseClass, propagateException, returnFuture);
            }
        }, actorContext.getActorSystem().dispatcher());
    });
}

return returnFuture;

private void finishVoidOperation(final String operationName, final Object message, final Class<?> expectedResponseClass, final boolean propagateException, final SettableFuture<Void> returnFuture) {
    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {} finish ", transactionId, operationName);
    }
    Future<Iterable<Object>> combinedFuture = invokeCohorts(message);
    combinedFuture.onComplete(new OnComplete<Iterable<Object>>() {
        @Override
        public void onComplete(Throwable failure, Iterable<Object> responses) throws Throwable {
            Throwable exceptionToPropagate = failure;
            if(exceptionToPropagate == null) {
                for(Object response: responses) {
                    if(!response.getClass().equals(expectedResponseClass)) {
                        exceptionToPropagate = new IllegalArgumentException(String.format("Unexpected response type ", response.getClass()));
                    }
                }
            }
            finishVoidOperation(operationName, message, expectedResponseClass, propagateException, returnFuture);
        }
    }, actorContext.getActorSystem().dispatcher());
}

throwable exceptionToPropagate = failure;
if(exceptionToPropagate == null) {
    for(Object response: responses) {
        if(!response.getClass().equals(expectedResponseClass)) {
            exceptionToPropagate = new IllegalArgumentException(String.format("Unexpected response type ", response.getClass()));
        }
    }
}
break;
}

if(exceptionToPropagate != null) {
    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {}: a {} cohort Future failed: ", transactionId, 
            operationName, exceptionToPropagate);
    }
    if(propagateException) {
        // We don't log the exception here to avoid redundant logging since we're 
        // propagating to the caller in MD-SAL core who will log it.
        returnFuture.setException(exceptionToPropagate);
    } else {
        // Since the caller doesn't want us to propagate the exception we'll also 
        // not log it normally. But it's usually not good to totally silence 
        // exceptions so we'll log it to debug level.
        if(LOG.isDebugEnabled()) {
            LOG.debug(String.format("%s failed", message.getClass().getSimpleName()), 
                exceptionToPropagate);
        }
        returnFuture.set(null);
    }
} else {
    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {}: {} succeeded", transactionId, operationName);
    }
    returnFuture.set(null);
}
}, actorContext.getActorSystem().dispatcher());

@VisibleForTesting
List<Future<ActorSelection>> getCohortFutures() {
    return Collections.unmodifiableList(cohortFutures);
}

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 *
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 */
import akka.actor.ActorRef;
import akka.actor.ActorSystem;
import akka.cluster.Cluster;
import akka.cluster.ClusterEvent;
import com.google.common.base.Preconditions;

public class ClusterWrapperImpl implements ClusterWrapper {
    private final Cluster cluster;
    private final String currentMemberName;
    private final String selfAddress;

    public ClusterWrapperImpl(ActorSystem actorSystem) {
        Preconditions.checkNotNull(actorSystem, "actorSystem should not be null");

        cluster = Cluster.get(actorSystem);

        Preconditions.checkState(cluster.getSelfRoles().size() > 0,
                "No akka roles were specified"
                + 
                "One way to specify the member name is to pass a property on the command line like so"
                + 
                
                "member-3 here would be the name of the member"
                );

        currentMemberName = (String) cluster.getSelfRoles().toArray()[0];
        selfAddress = cluster.selfAddress().toString();
    }

    public void subscribeToMemberEvents(ActorRef actorRef) {
        Preconditions.checkNotNull(actorRef, "actorRef should not be null");

        cluster.subscribe(actorRef, ClusterEvent.initialStateAsEvents(),
                ClusterEvent.MemberEvent.class,
                ClusterEvent.UnreachableMember.class);
    }

    public String getCurrentMemberName() {
        return currentMemberName;
    }

    public String getSelfAddress() {
        return selfAddress;
    }
}
4.167 sal-dom-xsql 1.1.1-Helium-SR1

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4.168 sal-inmemory-datastore 1.1.1-Helium-SR1

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4.169 sal-netconf-connector 1.1.1-Helium-SR1
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**4.170 sal-remote 1.1.1-Helium-SR1**

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4.171 sal-remoterpc-connector 1.1.1-Helium-SR1

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 */
package org.opendaylight.controller.remote.rpc.registry.gossip;

import java.io.Serializable;

public class BucketImpl<T extends Copier<T>> implements Bucket<T>, Serializable {

    private Long version = System.currentTimeMillis();

    private T data;

    @Override
    public Long getVersion() {
        return version;
    }

    @Override
    public T getData() {
        if (this.data == null)
            return null;
        return data.copy();
    }

    public void setData(T data){
        this.version = System.currentTimeMillis()+1;
        this.data = data;
    }

    @Override
}
public String toString() {
    return "BucketImpl{" +
    "version=" + version +
    ", data=" + data +
    "}';
}
}

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 *
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 */
package org.opendaylight.controller.remote.rpc;

import com.google.common.base.Preconditions;
import org.opendaylight.controller.sal.connector.api.RpcRouter;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import java.io.Serializable;

public class RouteIdentifierImpl implements RpcRouter.RouteIdentifier<QName, QName, YangInstanceIdentifier>, Serializable {
    private static final long serialVersionUID = 1L;
    private final QName context;
    private final QName type;
    private final YangInstanceIdentifier route;

    public RouteIdentifierImpl(final QName context, final QName type, final YangInstanceIdentifier route) {
        Preconditions.checkNotNull(type, "Rpc type should not be null");
        this.context = context;
        this.type = type;
        this.route = route;
    }

    @Override
    public QName getContext() {
        return this.context;
    }

    @Override
    public QName getType() {
        return this.type;
    }

    @Override
    public QName getRoute() {
        return this.route;
    }
}

import java.io.Serializable;

public class RouteIdentifierImpl implements RpcRouter.RouteIdentifier<QName, QName, YangInstanceIdentifier>, Serializable {
    private static final long serialVersionUID = 1L;
    private final QName context;
    private final QName type;
    private final YangInstanceIdentifier route;

    public RouteIdentifierImpl(final QName context, final QName type, final YangInstanceIdentifier route) {
        Preconditions.checkNotNull(type, "Rpc type should not be null");
        this.context = context;
        this.type = type;
        this.route = route;
    }

    @Override
    public QName getContext() {
        return this.context;
    }

    @Override
    public QName getType() {
        return this.type;
    }

    @Override
    public QName getRoute() {
        return this.route;
    }
}
@Override
public YangInstanceIdentifier getRoute() {
    return this.route;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    RouteIdentifierImpl that = (RouteIdentifierImpl) o;
    if (context == null) {
        if (that.getContext() != null) return false;
    } else if (!context.equals(that.context)) return false;
    if (route == null) {
        if (that.getRoute() != null) return false;
    } else if (!route.equals(that.route)) return false;
    if (type == null) {
        if (that.getType() != null) return false;
    } else if (!type.equals(that.type)) return false;
    return true;
}

@override
public int hashCode() {
    int prime = 31;
    int result = 0;
    result = prime * result + (context == null ? 0:context.hashCode());
    result = prime * result + (type    == null ? 0:type.hashCode());
    result = prime * result + (route   == null ? 0:route.hashCode());
    return result;
}

@Override
public String toString() {
    return "RouteIdentifierImpl{" +
            "context=" + context +
            ", type=" + type +
            ", route=" + route +
    "};
}
4.172 sal-rest-connector 1.1.1-Helium-SR1

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 */
package org.opendaylight.controller.sal.rest.impl;

import com.google.common.collect.ImmutableSet;
import java.util.HashSet;
import javax.ws.rs.core.Application;
import org.opendaylight.controller.sal.restconf.impl.BrokerFacade;
import org.opendaylight.controller.sal.restconf.impl.ControllerContext;
import org.opendaylight.controller.sal.restconf.impl.RestconfImpl;
import org.opendaylight.controller.sal.restconf.impl.StatisticsRestconfServiceWrapper;

public class RestconfApplication extends Application {

    @Override
    public Set<Class<?>> getClasses() {
        return ImmutableSet.<Class<?>> builder()
            .add(RestconfDocumentedExceptionMapper.class)
            .add(XmlNormalizedNodeBodyReader.class)
            .add(JsonNormalizedNodeBodyReader.class)
            .add(NormalizedNodeJsonBodyWriter.class)
            .add(NormalizedNodeXmlBodyWriter.class)
            .build();
    }

    @Override
    public Set<Object> getSingletons() {
        Set<Object> singletons = new HashSet<>();
        ControllerContext controllerContext = ControllerContext.getInstance();
        BrokerFacade brokerFacade = BrokerFacade.getInstance();
        RestconfImpl restconfImpl = RestconfImpl.getInstance();
        restconfImpl.setBroker(brokerFacade);
        restconfImpl.setControllerContext(controllerContext);
        singletons.add(controllerContext);
    }
}
singletons.add(brokerFacade);
singletons.add(StatisticsRestconfServiceWrapper.getInstance());
singletons.add(StructuredDataToXmlProvider.INSTANCE);
singletons.add(StructuredDataToJsonProvider.INSTANCE);
singletons.add(JsonToCompositeNodeProvider.INSTANCE);
singletons.add(XmlToCompositeNodeProvider.INSTANCE);
return singletons;
}

} /*
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.restconf.impl;

import org.opendaylight.controller.config.yang.md.sal.rest.connector.Config;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Get;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Operational;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Post;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Put;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.RestConnectorRuntimeMXBean;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Rpcs;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMMountPointService;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.rest.api.RestConnector;
import org.opendaylight.controller.sal.streams.websockets.WebSocketServer;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.model.api.SchemaContextListener;
import java.math.BigInteger;
import java.util.Collection;
import java.util.Collections;
public class RestconfProviderImpl implements Provider, AutoCloseable, RestConnector,
RestConnectorRuntimeMXBean {

    private final StatisticsRestconfServiceWrapper stats = StatisticsRestconfServiceWrapper.getInstance();
    private ListenerRegistration<SchemaContextListener> listenerRegistration;
    private PortNumber port;
    private Thread webSocketServerThread;
public void setWebsocketPort(PortNumber port) {
    this.port = port;
}

@Override
public void onSessionInitiated(ProviderSession session) {
    final DOMDataBroker domDataBroker = session.getService(DOMDataBroker.class);

    BrokerFacade.getInstance().setContext(session);
    BrokerFacade.getInstance().setDomDataBroker( domDataBroker);

    SchemaService schemaService = session.getService(SchemaService.class);
    listenerRegistration = schemaService.registerSchemaContextListener(ControllerContext.getInstance());
    ControllerContext.getInstance().setMountService(session.getService(DOMMountPointService.class));

    webSocketServerThread = new Thread(WebSocketServer.createInstance(port.getValue().intValue()));
    webSocketServerThread.setName("Web socket server on port " + port);
    webSocketServerThread.start();
}

@Override
public Collection<ProviderFunctionality> getProviderFunctionality() {
    return Collections.emptySet();
}

@Override
public void close() {
    if (listenerRegistration != null) {
        listenerRegistration.close();
    }

    WebSocketServer.destroyInstance();
    webSocketServerThread.interrupt();
}

@Override
public Config getConfig() {
    Config config = new Config();
    Get get = new Get();
    get.setReceivedRequests(stats.getConfigGet());
    config.setGet(get);
    Post post = new Post();
    post.setReceivedRequests(stats.getConfigPost());
    config.setPost(post);
    Put put = new Put();
}
put.setReceivedRequests(stats.getConfigPut());
config.setPut(put);
return config;
}

@Override
public Operational getOperational() {
    BigInteger opGet = stats.getOperationalGet();
    Operational operational = new Operational();
    Get get = new Get();
    get.setReceivedRequests(opGet);
    operational.setGet(get);
    return operational;
}

@Override
public Rpcs getRpcs() {
    BigInteger rpcInvoke = stats.getRpc();
    Rpcs rpcs = new Rpcs();
    rpcs.setReceivedRequests(rpcInvoke);
    return rpcs;
}

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 */
package org.opendaylight.controller.sal.restconf.impl;

import com.google.common.base.Preconditions;
import java.net.URI;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.ModifyAction;
import org.opendaylight.yangtools.yang.data.api.MutableSimpleNode;
import org.opendaylight.yangtools.yang.data.api.SimpleNode;
import org.opendaylight.yangtools.yang.data.impl.NodeFactory;

public final class SimpleNodeWrapper implements NodeWrapper<SimpleNode<?>>, SimpleNode<Object> {

    private SimpleNode<Object> simpleNode;

    private String localName;
    private Object value;
    private URI namespace;


private QName name;

public SimpleNodeWrapper(final String localName, final Object value) {
    this.localName = Preconditions.checkNotNull(localName);
    this.value = value;
}

public SimpleNodeWrapper(final URI namespace, final String localName, final Object value) {
    this(localName, value);
    this.namespace = namespace;
}

@Override
public void setQname(final QName name) {
    Preconditions.checkState(simpleNode == null, "Cannot change the object, due to data inconsistencies.");
    this.name = name;
}

@Override
public QName getQname() {
    return name;
}

@Override
public String getLocalName() {
    if (simpleNode != null) {
        return simpleNode.getNodeType().getLocalName();
    }
    return localName;
}

@Override
public URI getNamespace() {
    if (simpleNode != null) {
        return simpleNode.getNodeType().getNamespace();
    }
    return namespace;
}

@Override
public void setNamespace(final URI namespace) {
    Preconditions.checkState(simpleNode == null, "Cannot change the object, due to data inconsistencies.");
    this.namespace = namespace;
}

@Override
public boolean isChangeAllowed() {
    return simpleNode == null ? true : false;
}
@Override
public SimpleNode<Object> unwrap() {
    if (simpleNode == null) {
        if (name == null) {
            Preconditions.checkNotNull(namespace);
            name = new QName(namespace, localName);
        }
        simpleNode = NodeFactory.createImmutableSimpleNode(name, null, value);
    }
    value = null;
    namespace = null;
    localName = null;
    name = null;
    return simpleNode;
}

@Override
public QName getNodeType() {
    return unwrap().getNodeType();
}

@Override
@Deprecated
public CompositeNode getParent() {
    return unwrap().getParent();
}

@Override
public Object getValue() {
    return unwrap().getValue();
}

@Override
@Deprecated
public ModifyAction getModificationAction() {
    return unwrap().getModificationAction();
}

@Override
public MutableSimpleNode<Object> asMutable() {
    return unwrap().asMutable();
}

@Override
public QName getKey() {
    return null;
}
    return unwrap().getKey();
  }

  @Override
  public Object setValue(final Object value) {
    return unwrap().setValue(value);
  }
}

/**
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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.sal.restconf.impl;

import com.google.common.base.EnumeratedSet;
import com.google.common.base.Functions;
import com.google.common.base.Joiner;
import com.google.common.base.Strings;
import com.google.common.base.Throwables;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.Lists;
import com.google.common.collect.Maps;
import com.google.common.collect.Sets;
import java.math.BigInteger;
import java.net.URI;
import java.net.URISyntaxException;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.ws.rs.core.Response;
import javax.ws.rs.core.Response.Status;
import javax.ws.rs.core.UriBuilder;
import javax.ws.rs.core.UriInfo;
import org.apache.commons.lang3.StringUtils;

    return unwrap().getKey();
  }

  @Override
  public Object setValue(final Object value) {
    return unwrap().setValue(value);
  }
}

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 */

package org.opendaylight.controller.sal.restconf.impl;

import com.google.common.base.EnumeratedSet;
import com.google.common.base.Functions;
import com.google.common.base.Joiner;
import com.google.common.base.Strings;
import com.google.common.base.Throwables;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.Lists;
import com.google.common.collect.Maps;
import com.google.common.collect.Sets;
import java.math.BigInteger;
import java.net.URI;
import java.net.URISyntaxException;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.ws.rs.core.Response;
import javax.ws.rs.core.Response.Status;
import javax.ws.rs.core.UriBuilder;
import javax.ws.rs.core.UriInfo;
import org.apache.commons.lang3.StringUtils;
public class RestconfImpl implements RestconfService {

    private enum UriParameters {
        PRETTY_PRINT("prettyPrint"),
        DEPTH("depth"),
    }

    private String uriParameterName;

    UriParameters(final String uriParameterName) {
        this.uriParameterName = uriParameterName;
    }

    @Override
    public String toString() {
        return uriParameterName;
    }

    private final static RestconfImpl INSTANCE = new RestconfImpl();

    private static final int NOTIFICATION_PORT = 8181;

    private static final int CHAR_NOT_FOUND = -1;

    private final static String MOUNT_POINT_MODULE_NAME = "ietf-netconf";

    private final static SimpleDateFormat REVISION_FORMAT = new SimpleDateFormat("yyyy-MM-dd");


    private final static String SAL_REMOTE_RPC_SUBSCRIBE = "create-data-change-event-subscription";

    private BrokerFacade broker;

    private ControllerContext controllerContext;

    private static final Logger LOG = LoggerFactory.getLogger(RestconfImpl.class);

    private static final DataChangeScope DEFAULT_SCOPE = DataChangeScope.BASE;
private static final LogicalDatastoreType DEFAULT_DATASTORE = LogicalDatastoreType.CONFIGURATION;

private static final URI NAMESPACE_EVENT_SUBSCRIPTION_AUGMENT = URI.create("urn:sal:restconf:event:subscription");

private static final Date EVENT_SUBSCRIPTION_AUGMENT_REVISION;

private static final String DATASTORE_PARAM_NAME = "datastore";

private static final String SCOPE_PARAM_NAME = "scope";

private static final String NETCONF_BASE = "urn:ietf:params:xml:ns:netconf:base:1.0";

private static final String NETCONF_BASE_PAYLOAD_NAME = "data";

private static final QName NETCONF_BASE_QNAME;

static {
    try {
        EVENT_SUBSCRIPTION_AUGMENT_REVISION = new SimpleDateFormat("yyyy-MM-dd").parse("2014-07-08");
        NETCONF_BASE_QNAME = QName.create(QNameModule.create(new URI(NETCONF_BASE), null), NETCONF_BASE_PAYLOAD_NAME);
    } catch (ParseException e) {
        throw new RestconfDocumentedException("It wasn't possible to convert revision date of sal-remote-augment to date", ErrorType.APPLICATION, ErrorTag.OPERATION_FAILED);
    } catch (URISyntaxException e) {
        throw new RestconfDocumentedException("It wasn't possible to create instance of URI class with "+NETCONF_BASE+" URI", ErrorType.APPLICATION, ErrorTag.OPERATION_FAILED);
    }
}

public void setBroker(final BrokerFacade broker) {
    this.broker = broker;
}

public void setControllerContext(final ControllerContext controllerContext) {
    this.controllerContext = controllerContext;
}

private RestconfImpl() {
}
public static RestconfImpl getInstance() {
    return INSTANCE;
}

@Override
public StructuredData getModules(final UriInfo uriInfo) {
    final Module restconfModule = this.getRestconfModule();

    final List<Node<?>> modulesAsData = new ArrayList<Node<?>>();
    final DataSchemaNode moduleSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.MODULE_LIST_SCHEMA_NODE);
    Set<Module> allModules = this.controllerContext.getAllModules();
    for (final Module module : allModules) {
        CompositeNode moduleCompositeNode = this.toModuleCompositeNode(module, moduleSchemaNode);
        modulesAsData.add(moduleCompositeNode);
    }

    final DataSchemaNode modulesSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.MODULES_CONTAINER_SCHEMA_NODE);
    QName qName = modulesSchemaNode.getQName();
    final CompositeNode modulesNode = NodeFactory.createImmutableCompositeNode(qName, null, modulesAsData);
    return new StructuredData(modulesNode, modulesSchemaNode, null, parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getAvailableStreams(final UriInfo uriInfo) {
    Set<String> availableStreams = Notificator.getStreamNames();

    final List<Node<?>> streamsAsData = new ArrayList<Node<?>>();
    Module restconfModule = this.getRestconfModule();
    final DataSchemaNode streamSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.STREAM_LIST_SCHEMA_NODE);
    for (final String streamName : availableStreams) {
        streamsAsData.add(this.toStreamCompositeNode(streamName, streamSchemaNode));
    }

    final DataSchemaNode streamsSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.STREAMS_CONTAINER_SCHEMA_NODE);
    QName qName = streamsSchemaNode.getQName();
    final CompositeNode streamsNode = NodeFactory.createImmutableCompositeNode(qName, null, streamsAsData);
    return new StructuredData(streamsNode, streamsSchemaNode, null, parsePrettyPrintParameter(uriInfo));
}
@Override
public StructuredData getModules(final String identifier, final UriInfo uriInfo) {
    Set<Module> modules = null;
    DOMMountPoint mountPoint = null;
    if (identifier.contains(ControllerContext.MOUNT)) {
        InstanceIdentifierContext mountPointIdentifier = this.controllerContext.toMountPointIdentifier(identifier);
        mountPoint = mountPointIdentifier.getMountPoint();
        modules = this.controllerContext.getAllModules(mountPoint);
    } else {
        throw new RestconfDocumentedException(
            "URI has bad format. If modules behind mount point should be showed, URI has to end with "+ ControllerContext.MOUNT, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    final List<Node<?>> modulesAsData = new ArrayList<Node<?>>();
    Module restconfModule = this.getRestconfModule();
    final DataSchemaNode moduleSchemaNode =
        controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
            Draft02.RestConfModule.MODULE_LIST_SCHEMA_NODE);
    for (final Module module : modules) {
        modulesAsData.add(this.toModuleCompositeNode(module, moduleSchemaNode));
    }

    final DataSchemaNode modulesSchemaNode =
        controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
            Draft02.RestConfModule.MODULES_CONTAINER_SCHEMA_NODE);
    QName qName = modulesSchemaNode.getQName();
    final CompositeNode modulesNode = NodeFactory.createImmutableCompositeNode(qName, null,
        modulesAsData);
    return new StructuredData(modulesNode, modulesSchemaNode, mountPoint,
        parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getModule(final String identifier, final UriInfo uriInfo) {
    final QName moduleNameAndRevision = this.getModuleNameAndRevision(identifier);
    Module module = null;
    DOMMountPoint mountPoint = null;
    if (identifier.contains(ControllerContext.MOUNT)) {
        InstanceIdentifierContext mountPointIdentifier = this.controllerContext.toMountPointIdentifier(identifier);
        mountPoint = mountPointIdentifier.getMountPoint();
        module = this.controllerContext.findModuleByNameAndRevision(mountPoint, moduleNameAndRevision);
    } else {
        module = this.controllerContext.findModuleByNameAndRevision(moduleNameAndRevision);
    }

}
if (module == null) {
    throw new RestconfDocumentedException("Module with name "+
        moduleNameAndRevision.getLocalName()
    + " and revision "+ moduleNameAndRevision.getRevision() + " was not found.",
        ErrorType.PROTOCOL, ErrorTag.UNKNOWN_ELEMENT);
}

Module restconfModule = this.getRestconfModule();
final DataSchemaNode moduleSchemaNode =
controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
    Draft02.RestConfModule.MODULE_LIST_SCHEMA_NODE);
final CompositeNode moduleNode = this.toModuleCompositeNode(module, moduleSchemaNode);
return new StructuredData(moduleNode, moduleSchemaNode, mountPoint,
    parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getOperations(final UriInfo uriInfo) {
    Set<Module> allModules = this.controllerContext.getAllModules();
    return this.operationsFromModulesToStructuredData(allModules, null, parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getOperations(final String identifier, final UriInfo uriInfo) {
    Set<Module> modules = null;
    DOMMountPoint mountPoint = null;
    if (identifier.contains(ControllerContext.MOUNT)) {
        InstanceIdentifierContext mountPointIdentifier = this.controllerContext.toMountPointIdentifier(identifier);
        mountPoint = mountPointIdentifier.getMountPoint();
        modules = this.controllerContext.getAllModules(mountPoint);
    } else {
        throw new RestconfDocumentedException(
            "URI has bad format. If operations behind mount point should be showed, URI has to end with "
            + ControllerContext.MOUNT, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    return this.operationsFromModulesToStructuredData(modules, mountPoint,
        parsePrettyPrintParameter(uriInfo));
}

private StructuredData operationsFromModulesToStructuredData(final Set<Module> modules,
    final DOMMountPoint mountPoint, final boolean prettyPrint) {
    final List<Node<?>> operationsAsData = new ArrayList<Node<?>>();
    Module restconfModule = this.getRestconfModule();
    final DataSchemaNode operationsSchemaNode = controllerContext.getRestconfModuleRestConfSchemaNode(
        restconfModule, Draft02.RestConfModule.OPERATIONS_CONTAINER_SCHEMA_NODE);
    QName qName = operationsSchemaNode.getQName();
SchemaPath path = operationsSchemaNode.getPath();
ContainerSchemaNodeBuilder containerSchemaNodeBuilder = new ContainerSchemaNodeBuilder(
    Draft02.RestConfModule.NAME, 0, qName, path);
final ContainerSchemaNodeBuilder fakeOperationsSchemaNode = containerSchemaNodeBuilder;
for (final Module module : modules) {
    Set<RpcDefinition> rpcs = module.getRpcs();
    for (final RpcDefinition rpc : rpcs) {
        QName rpcQName = rpc.getQName();
        SimpleNode<Object> immutableSimpleNode = NodeFactory.<Object>
            createImmutableSimpleNode(rpcQName, null, null);
        operationsAsData.add(immutableSimpleNode);

        String name = module.getName();
        LeafSchemaNodeBuilder leafSchemaNodeBuilder = new LeafSchemaNodeBuilder(name, 0, rpcQName,
            SchemaPath.create(true, QName.create("dummy")));
        final LeafSchemaNodeBuilder fakeRpcSchemaNode = leafSchemaNodeBuilder;
        fakeRpcSchemaNode.setAugmenting(true);
        EmptyType instance = EmptyType.getInstance();
        fakeRpcSchemaNode.setType(instance);
        fakeOperationsSchemaNode.addChildNode(fakeRpcSchemaNode.build());
    }
}

final CompositeNode operationsNode = NodeFactory.createImmutableCompositeNode(qName, null, operationsAsData);
ContainerSchemaNode schemaNode = fakeOperationsSchemaNode.build();
return new StructuredData(operationsNode, schemaNode, mountPoint, prettyPrint);

private Module getRestconfModule() {
    Module restconfModule = controllerContext.getRestconfModule();
    if (restconfModule == null) {
        throw new RestconfDocumentedException("ietf-restconf module was not found.",
            ErrorType.APPLICATION,
            ErrorTag.OPERATION_NOT_SUPPORTED);
    }

    return restconfModule;
}

private QName getModuleNameAndRevision(final String identifier) {
    final int mountIndex = identifier.indexOf(ControllerContext.MOUNT);
    String moduleNameAndRevision = "";
    if (mountIndex >= 0) {
        moduleNameAndRevision = identifier.substring(mountIndex + ControllerContext.MOUNT.length());
    } else {
moduleNameAndRevision = identifier;

Splitter splitter = Splitter.on("/").omitEmptyStrings();
Iterable<String> split = splitter.split(moduleNameAndRevision);
final List<String> pathArgs = Lists.<String> newArrayList(split);
if (pathArgs.size() < 2) {
    throw new RestconfDocumentedException("URI has bad format. End of URI should be in format \moduleName/yyyy-MM-dd\",
        ErrorType.PROTOCOL,
        ErrorTag.INVALID_VALUE);
}

try {
    final String moduleName = pathArgs.get(0);
    String revision = pathArgs.get(1);
    final Date moduleRevision = REVISION_FORMAT.parse(revision);
    return QName.create(null, moduleRevision, moduleName);
} catch (ParseException e) {
    throw new RestconfDocumentedException("URI has bad format. It should be \moduleName/yyyy-MM-dd\",
        ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
}

private CompositeNode toStreamCompositeNode(final String streamName, final DataSchemaNode streamSchemaNode) {
    final List<Node<?>> streamNodeValues = new ArrayList<Node<?>>();
    List<DataSchemaNode> instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName(
        ((DataNodeContainer) streamSchemaNode), "name");
    final DataSchemaNode nameSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues .add(NodeFactory.<String> createImmutableSimpleNode(nameSchemaNode.getQName(), null, streamName));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName(
        ((DataNodeContainer) streamSchemaNode), "description");
    final DataSchemaNode descriptionSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(descriptionSchemaNode.getQName(), null,
        "DESCRIPTION_PLACEHOLDER");

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName(
        ((DataNodeContainer) streamSchemaNode), "replay-support");
    final DataSchemaNode replaySupportSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<Boolean> createImmutableSimpleNode(replaySupportSchemaNode.getQName(), null,
        Boolean.valueOf(true)));
}
instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "replay-log-creation-time");

final DataSchemaNode replayLogCreationTimeSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);

streamNodeValues.add(NodeFactory.<String>createImmutableSimpleNode(replayLogCreationTimeSchemaNode.getQName(), null, "."));

instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "events");

final DataSchemaNode eventsSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);

streamNodeValues.add(NodeFactory.<String>createImmutableSimpleNode(eventsSchemaNode.getQName(), null, "."));

return NodeFactory.createImmutableCompositeNode(streamSchemaNode.getQName(), null, streamNodeValues);

private CompositeNode toModuleCompositeNode(final Module module, final DataSchemaNode moduleSchemaNode) {

    List<DataSchemaNode> instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "name");

    final DataSchemaNode nameSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);

    moduleNodeValues.add(NodeFactory.<String>createImmutableSimpleNode(nameSchemaNode.getQName(), null, module.getName()));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "revision");

    final DataSchemaNode revisionSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);

    Date _revision = module.getRevision();

    moduleNodeValues.add(NodeFactory.<String>createImmutableSimpleNode(revisionSchemaNode.getQName(), null, REVISION_FORMAT.format(_revision)));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "namespace");

    final DataSchemaNode namespaceSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);

    moduleNodeValues.add(NodeFactory.<String>createImmutableSimpleNode(namespaceSchemaNode.getQName(), null, module.getNamespace().toString()));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "feature");

    final DataSchemaNode featureSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);

    for (final FeatureDefinition feature : module.getFeatures()) {

    }
moduleNodeValues.add(NodeFactory.<String>
createImmutableSimpleNode(featureSchemaNode.getQName(), null,
feature.getQName().getLocalName()));

return NodeFactory.createImmutableCompositeNode(moduleSchemaNode.getQName(), null,
moduleNodeValues);

@override
public Object getRoot() {
    return null;
}

@override
public StructuredData invokeRpc(final String identifier, final CompositeNode payload, final UriInfo uriInfo) {
    final RpcExecutor rpc = this.resolveIdentifierInInvokeRpc(identifier);
    QName rpcName = rpc.getRpcDefinition().getQName();
    URI rpcNamespace = rpcName.getNamespace();
    if (Objects.equal(rpcNamespace.toString(), SAL_REMOTE_NAMESPACE)
        && Objects.equal(rpcName.getLocalName(), SAL_REMOTE_RPC_SUBSRCIBE)) {
        return invokeSalRemoteRpcSubscribeRPC(payload, rpc.getRpcDefinition(),
parsePrettyPrintParameter(uriInfo));
    }

    validateInput(rpc.getRpcDefinition().getInput(), payload);

    return callRpc(rpc, payload, parsePrettyPrintParameter(uriInfo));
}

private void validateInput(final DataSchemaNode inputSchema, final Node<?> payload) {
    if (inputSchema != null && payload == null) {
        // expected a non null payload
        throw new RestconfDocumentedException("Input is required.", ErrorType.PROTOCOL,
ErrorTag.MALFORMED_MESSAGE);
    } else if (inputSchema == null && payload != null) {
        // did not expect any input
        throw new RestconfDocumentedException("No input expected.", ErrorType.PROTOCOL,
ErrorTag.MALFORMED_MESSAGE);
    }
    // else
    // {
    //   TODO: Validate "mandatory" and "config" values here?? Or should those be
    //   those be
    //   validate in a more central location inside MD-SAL core.
    //   // }
    // }
private StructuredData invokeSalRemoteRpcSubscribeRPC(final CompositeNode payload, final RpcDefinition rpc,
    final boolean prettyPrint) {
    final CompositeNode value = this.normalizeNode(payload, rpc.getInput(), null);
    final SimpleNode<? extends Object> pathNode = value == null ? null :
        value.getFirstSimpleByName(QName.create(rpc.getQName(), "path"));
    final Object pathValue = pathNode == null ? null : pathNode.getValue();

    if (!(pathValue instanceof YangInstanceIdentifier)) {
        throw new RestconfDocumentedException("Instance identifier was not normalized correctly.",
            ErrorType.APPLICATION, ErrorTag.OPERATION_FAILED);
    }

    final YangInstanceIdentifier pathIdentifier = ((YangInstanceIdentifier) pathValue);
    String streamName = null;
    if (!Iterables.isEmpty(pathIdentifier.getPathArguments())) {
        String fullRestconfIdentifier = this.controllerContext.toFullRestconfIdentifier(pathIdentifier);

        LogicalDatastoreType datastore = parseEnumTypeParameter(value, LogicalDatastoreType.class,
            DATASTORE_PARAM_NAME);
        datastore = datastore == null ? DEFAULT_DATASTORE : datastore;

        DataChangeScope scope = parseEnumTypeParameter(value, DataChangeScope.class,
            SCOPE_PARAM_NAME);
        scope = scope == null ? DEFAULT_SCOPE : scope;

        streamName = Notificator.createStreamNameFromUri(fullRestconfIdentifier + "/datastore=" + datastore
            + "/scope=" + scope);
        }

    if (Strings.isNullOrEmpty(streamName)) {
        throw new RestconfDocumentedException(  "Path is empty or contains data node which is not Container or List build-in type.",
            ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    final SimpleNode<String> streamNameNode = NodeFactory.<String> createImmutableSimpleNode(
        QName.create(rpc.getOutput().getQName(), "stream-name"), null, streamName);
    final List<Node<?>> output = new ArrayList<Node<?>>();
    output.add(streamNameNode);

    final MutableCompositeNode responseData =
        NodeFactory.createMutableCompositeNode(rpc.getOutput().getQName(),
            null, output, null, null);

    if (!Notificator.existListenerFor(streamName)) {
        Notificator.createListener(pathIdentifier, streamName);
    }
}
return new StructuredData(responseData, rpc.getOutput(), null, prettyPrint);
}
@Override
public StructuredData invokeRpc(final String identifier, final String noPayload, final UriInfo uriInfo) {
if (StringUtils.isNotBlank(noPayload)) {
throw new RestconfDocumentedException("Content must be empty.", ErrorType.PROTOCOL,
ErrorTag.INVALID_VALUE);
}
return invokeRpc(identifier, (CompositeNode) null, uriInfo);
}
private RpcExecutor resolveIdentifierInInvokeRpc(final String identifier) {
String identifierEncoded = null;
DOMMountPoint mountPoint = null;
if (identifier.contains(ControllerContext.MOUNT)) {
// mounted RPC call - look up mount instance.
InstanceIdentifierContext mountPointId = controllerContext.toMountPointIdentifier(identifier);
mountPoint = mountPointId.getMountPoint();
int startOfRemoteRpcName = identifier.lastIndexOf(ControllerContext.MOUNT)
+ ControllerContext.MOUNT.length() + 1;
String remoteRpcName = identifier.substring(startOfRemoteRpcName);
identifierEncoded = remoteRpcName;
} else if (identifier.indexOf("/") != CHAR_NOT_FOUND) {
final String slashErrorMsg = String.format("Identifier %n%s%ncan\'t contain slash "
+ "character (/).%nIf slash is part of identifier name then use %%2F placeholder.", identifier);
throw new RestconfDocumentedException(slashErrorMsg, ErrorType.PROTOCOL,
ErrorTag.INVALID_VALUE);
} else {
identifierEncoded = identifier;
}
final String identifierDecoded = controllerContext.urlPathArgDecode(identifierEncoded);
RpcDefinition rpc = null;
if (mountPoint == null) {
rpc = controllerContext.getRpcDefinition(identifierDecoded);
} else {
rpc = findRpc(mountPoint.getSchemaContext(), identifierDecoded);
}
if (rpc == null) {
throw new RestconfDocumentedException("RPC does not exist.", ErrorType.RPC,
ErrorTag.UNKNOWN_ELEMENT);

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if (mountPoint == null) {
    return new BrokerRpcExecutor(rpc, broker);
} else {
    return new MountPointRpcExecutor(rpc, mountPoint);
}

private RpcDefinition findRpc(final SchemaContext schemaContext, final String identifierDecoded) {
    final String[] splittedIdentifier = identifierDecoded.split(":");
    if (splittedIdentifier.length != 2) {
        throw new RestconfDocumentedException(identifierDecoded + " couldn't be splitted to 2 parts (module:rpc name)", ErrorType.APPLICATION, ErrorTag.INVALID_VALUE);
    }
    for (Module module : schemaContext.getModules()) {
        if (module.getName().equals(splittedIdentifier[0])) {
            for (RpcDefinition rpcDefinition : module.getRpcs()) {
                if (rpcDefinition.getQName().getLocalName().equals(splittedIdentifier[1])) {
                    return rpcDefinition;
                }
            }
        }
    }
    return null;
}

private StructuredData callRpc(final RpcExecutor rpcExecutor, final CompositeNode payload, final boolean prettyPrint) {
    if (rpcExecutor == null) {
        throw new RestconfDocumentedException("RPC does not exist.", ErrorType.RPC, ErrorTag.UNKNOWN_ELEMENT);
    }
    CompositeNode rpcRequest = null;
    RpcDefinition rpc = rpcExecutor.getRpcDefinition();
    QName rpcName = rpc.getQName();
    if (payload == null) {
        rpcRequest = NodeFactory.createMutableCompositeNode(rpcName, null, null, null, null);
    } else {
        final CompositeNode value = this.normalizeNode(payload, rpc.getInput(), null);
        List<Node<?>> input = Collections.<Node<?>> singletonList(value);
        rpcRequest = NodeFactory.createMutableCompositeNode(rpcName, null, input, null, null);
    }
    return rpcRequest;

RpcResult<CompositeNode> rpcResult = rpcExecutor.invokeRpc(rpcRequest);

checkRpcSuccessAndThrowException(rpcResult);

if (rpcResult.getResult() == null) {
    return null;
}

if (rpcResult.getOutput() == null) {
    return null; // no output, nothing to send back.
}

return new StructuredData(rpcResult.getResult(), rpcResult.getOutput(), null, prettyPrint);

private void checkRpcSuccessAndThrowException(final RpcResult<CompositeNode> rpcResult) {
    if (!rpcResult.isSuccessful()) {
        throw new RestconfDocumentedException("The operation was not successful", null,
            rpcResult.getErrors());
    }
}

@Override
public NormalizedNodeContext readConfigurationData(final String identifier, final UriInfo uriInfo) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    NormalizedNode<?, ?> data = null;
    YangInstanceIdentifier normalizedII;
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData
            .getInstanceIdentifier());
        data = broker.readConfigurationData(mountPoint, normalizedII);
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readConfigurationData(normalizedII);
    }
    return new NormalizedNodeContext(iiWithData, data);
}

@SuppressWarnings("unchecked")
private <T extends Node<? extends Node<?>>> T pruneDataAtDepth(final T node, final Integer depth) {
    if (depth == null) {
        return node;
    }

    if (node instanceof CompositeNode) {
if (depth > 1) {
    for (Node<? extends Node> childNode : ((CompositeNode) node).getValue()) {
        newChildNodes.add(pruneDataAtDepth(childNode, depth - 1));
    }
}

return (T) ImmutableCompositeNode.create(node.getNodeType(), newChildNodes.build());
} else {  // SimpleNode
    return node;
}
}

private Integer parseDepthParameter(final UriInfo info) {
    String param = info.getQueryParameters(false).getFirst(UriParameters.DEPTH.toString());
    if (Strings.isNullOrEmpty(param) || "unbounded".equals(param)) {
        return null;
    }

    try {
        Integer depth = Integer.valueOf(param);
        if (depth < 1) {
            throw new RestconfDocumentedException(new RestconfError(ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE,
                "Invalid depth parameter: \" + depth, null,
                "The depth parameter must be an integer \> 1 or \"unbounded\"\"));
        }
    }
    catch (NumberFormatException e) {
        throw new RestconfDocumentedException(new RestconfError(ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE,
            "Invalid depth parameter: \" + e.getMessage(), null,
            "The depth parameter must be an integer \> 1 or \"unbounded\"\"));
    }

    return depth;
} catch (NumberFormatException e) {
    throw new RestconfDocumentedException(new RestconfError(ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE,
        "Invalid depth parameter: \" + e.getMessage(), null,
        "The depth parameter must be an integer \> 1 or \"unbounded\"\"));
}

@Override
public NormalizedNodeContext readOperationalData(final String identifier, final UriInfo info) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    NormalizedNode<?, ?> data = null;
    YangInstanceIdentifier normalizedII;
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readOperationalData(mountPoint, normalizedII);
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readOperationalData(mountPoint, normalizedII);
    }

    return data;
}

@Override
public NormalizedNodeContext readOperationalData(final String identifier, final UriInfo info) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    NormalizedNode<?, ?> data = null;
    YangInstanceIdentifier normalizedII;
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readOperationalData(mountPoint, normalizedII);
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readOperationalData(mountPoint, normalizedII);
    }

    return data;
}
data = broker.readOperationalData(normalizedII);
}

return new NormalizedNodeContext(iiWithData, data);
}

private boolean parsePrettyPrintParameter(final UriInfo info) {
    String param = info.getQueryParameters(false).getFirst(UriParameters.PRETTY_PRINT.toString());
    return Boolean.parseBoolean(param);
}

@Override
public Response updateConfigurationData(final String identifier, final Node<?> payload) {
    final InstanceIdentifierContext iiWithData = this.controllerContext.toInstanceIdentifier(identifier);

    validateInput(iiWithData.getSchemaNode(), payload);

    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    validateTopLevelNodeName(payload, iiWithData.getInstanceIdentifier());
    final CompositeNode value = this.normalizeNode(payload, iiWithData.getSchemaNode(), mountPoint);
    validateListKeysEqualityInPayloadAndUri(iiWithData, value);
    final NormalizedNode<?, ?> datastoreNormalizedNode = compositeNodeToDatastoreNormalizedNode(value, iiWithData.getSchemaNode());

    YangInstanceIdentifier normalizedII;
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData.getInstanceIdentifier());
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
    }

    /*
    * There is a small window where another write transaction could be updating the same data
    * simultaneously and we get an OptimisticLockFailedException. This error is likely
    * transient and The WriteTransaction#submit API docs state that a retry will likely
    * succeed. So we'll try again if that scenario occurs. If it fails a third time then it
    * probably will never succeed so we'll fail in that case.
    *
    * By retrying we're attempting to hide the internal implementation of the data store and
    * how it handles concurrent updates from the restconf client. The client has instructed us
    * to put the data and we should make every effort to do so without pushing optimistic lock
    * failures back to the client and forcing them to handle it via retry (and having to
    * document the behavior).
    */
    int tries = 2;
    while(true) {

try {
    if (mountPoint != null) {
        broker.commitConfigurationDataPut(mountPoint, normalizedII,
            datastoreNormalizedNode).checkedGet();
    } else {
        broker.commitConfigurationDataPut(normalizedII,
            datastoreNormalizedNode).checkedGet();
    }

    break;
} catch (TransactionCommitFailedException e) {
    if (e instanceof OptimisticLockFailedException) {
        if (--tries <= 0) {
            LOG.debug("Got OptimisticLockFailedException on last try - failing");
            throw new RestconfDocumentedException(e.getMessage(), e, e.getErrorList());
        }
        LOG.debug("Got OptimisticLockFailedException - trying again");
    } else {
        throw new RestconfDocumentedException(e.getMessage(), e, e.getErrorList());
    }
}

return Response.status(Status.OK).build();

private void validateTopLevelNodeName(final Node<?> node,
    final YangInstanceIdentifier identifier) {
    final String payloadName = getName(node);
    final Iterator<PathArgument> pathArguments = identifier.getReversePathArguments().iterator();

    // no arguments
    if (!pathArguments.hasNext()) {
        // no "data" payload
        if (!node.getNodeType().equals(NETCONF_BASE_QNAME)) {
            throw new RestconfDocumentedException("Instance identifier has to contain at least one path argument",
                ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
        }
        // any arguments
    } else {
        final String identifierName = pathArguments.next().getNodeType().getLocalName();
        if (!payloadName.equals(identifierName)) {
            throw new RestconfDocumentedException("Payload name (" + payloadName
                + ") is different from identifier name (" + identifierName + ")",
                ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
        }
    }
}
private void isEqualUriAndPayloadKeyValues(final Map<QName, Object> uriKeyValues, final CompositeNode payload, final List<QName> keyDefinitions) {
    for (QName keyDefinition : keyDefinitions) {
        final Object uriKeyValue = uriKeyValues.get(keyDefinition);
        if (uriKeyValue == null) {
            throw new RestconfDocumentedException("Missing key " + keyDefinition + " in URI.", ErrorType.PROTOCOL, ErrorTag.DATA_MISSING);
        }
        final List<SimpleNode<?>> payloadKeyValues = payload.getSimpleNodesByName(keyDefinition.getLocalName());
        if (payloadKeyValues.isEmpty()) {
            throw new RestconfDocumentedException("Missing key " + keyDefinition.getLocalName() + " in the message body.", ErrorType.PROTOCOL, ErrorTag.DATA_MISSING);
        }
        Object payloadKeyValue = payloadKeyValues.iterator().next().getValue();
        if (!uriKeyValue.equals(payloadKeyValue)) {
            throw new RestconfDocumentedException("The value '" + uriKeyValue + "' for key '" + keyDefinition.getLocalName() + "' specified in the URI doesn't match the value " + payloadKeyValue + "' specified in the message body.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
        }
    }
}

private void validateListKeysEqualityInPayloadAndUri(final InstanceIdentifierContext iiWithData, final CompositeNode payload) {
    if (iiWithData.getSchemaNode() instanceof ListSchemaNode) {
        final List<QName> keyDefinitions = ((ListSchemaNode) iiWithData.getSchemaNode()).getKeyDefinition();
        final PathArgument lastPathArgument = iiWithData.getInstanceIdentifier().getLastPathArgument();
        if (lastPathArgument instanceof NodeIdentifierWithPredicates) {
            final Map<QName, Object> uriKeyValues = ((NodeIdentifierWithPredicates) lastPathArgument).getKeyValues();
            isEqualUriAndPayloadKeyValues(uriKeyValues, payload, keyDefinitions);
        }
    }
}

/**
 * Validates whether keys in `{payload}` are equal to values of keys in `{iiWithData}` for list schema node
 * @throws RestconfDocumentedException if key values or key count in payload and URI isn't equal
 */
private void validateListKeysEqualityInPayloadAndUri(final InstanceIdentifierContext iiWithData, final CompositeNode payload) { ...
@Override
public Response createConfigurationData(final String identifier, final Node<?> payload) {
    if (payload == null) {
        throw new RestconfDocumentedException("Input is required.", ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
    }

    URI payloadNS = this.namespace(payload);
    if (payloadNS == null) {
        throw new RestconfDocumentedException("Data has bad format. Root element node must have namespace (XML format) or module name(JSON format)", ErrorType.PROTOCOL, ErrorTag.UNKNOWN_NAMESPACE);
    }

    InstanceIdentifierContext iiWithData = null;
    CompositeNode value = null;
    if (this.representsMountPointRootData(payload)) {
        // payload represents mount point data and URI represents path to the mount point

        if (this.endsWithMountPoint(identifier)) {
            throw new RestconfDocumentedException("URI has bad format. URI should be without \\
            + ControllerContext.MOUNT + \\
            " for POST operation.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
        }

        final String completeIdentifier = this.addMountPointIdentifier(identifier);
        iiWithData = this.controllerContext.toInstanceIdentifier(completeIdentifier);

        value = this.normalizeNode(payload, iiWithData.getSchemaNode(), iiWithData.getMountPoint());
    } else {
        final InstanceIdentifierContext incompleteInstIdWithData = this.controllerContext.toInstanceIdentifier(identifier);
        final DataNodeContainer parentSchema = (DataNodeContainer) incompleteInstIdWithData.getSchemaNode();
        DOMMountPoint mountPoint = incompleteInstIdWithData.getMountPoint();
        final Module module = findModule(mountPoint, payload);
        if (module == null) {
            throw new RestconfDocumentedException("Module was not found for \\
            " + payloadNS + \\
            ".", ErrorType.PROTOCOL, ErrorTag.UNKNOWN_ELEMENT);
        }

        String payloadName = this.getName(payload);
        final DataSchemaNode schemaNode = ControllerContext.findInstanceDataChildByNameAndNamespace(parentSchema, payloadName, module.getNamespace());
    }

    return new Response();
}
value = this.normalizeNode(payload, schemaNode, mountPoint);

iiWithData = addLastIdentifierFromData(incompleteInstIdWithData, value, schemaNode, incompleteInstIdWithData.getSchemaContext());
}

final NormalizedNode<?, ?> datastoreNormalizedData = compositeNodeToDatastoreNormalizedNode(value, iiWithData.getSchemaNode());
DOMMountPoint mountPoint = iiWithData.getMountPoint();
YangInstanceIdentifier normalizedII;

try {
  if (mountPoint != null) {
    normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData.getInstanceIdentifier());
    broker.commitConfigurationDataPost(mountPoint, normalizedII, datastoreNormalizedData);
  } else {
    normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
    broker.commitConfigurationDataPost(normalizedII, datastoreNormalizedData);
  }
} catch(RestconfDocumentedException e) {
  throw e;
} catch (Exception e) {
  throw new RestconfDocumentedException("Error creating data", e);
}

return Response.status(Status.NO_CONTENT).build();

@Override
public Response createConfigurationData(final Node<?> payload) {
  if (payload == null) {
    throw new RestconfDocumentedException("Input is required.", ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
  }

  URI payloadNS = this.namespace(payload);
  if (payloadNS == null) {
    throw new RestconfDocumentedException("Data has bad format. Root element node must have namespace (XML format) or module name(JSON format)", ErrorType.PROTOCOL, ErrorTag.UNKNOWN_NAMESPACE);
  }

  final Module module = this.findModule(null, payload);
  if (module == null) {
    throw new RestconfDocumentedException("Data has bad format. Root element node has incorrect namespace (XML format) or module
name(JSON format)
        ,
        ErrorType.PROTOCOL, ErrorTag.UNKNOWN_NAMESPACE);
    }

    String payloadName = this.getName(payload);
    final DataSchemaNode schemaNode = ControllerContext.getInstanceDataChildByNameAndNamespace(module,
        payloadName, module.getNamespace());
    final CompositeNode value = this.normalizeNode(payload, schemaNode, null);
    final InstanceIdentifierContext iiWithData = this.addLastIdentifierFromData(null, value,
        schemaNode,ControllerContext.getInstance().getGlobalSchema());
    final NormalizedNode<?> datastoreNormalizedData = compositeNodeToDatastoreNormalizedNode(value,
        schemaNode);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    YangInstanceIdentifier normalizedII;

    try {
        if (mountPoint != null) {
            normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData
                .getInstanceIdentifier());
            broker.commitConfigurationDataPost(mountPoint, normalizedII, datastoreNormalizedData);
        } else {
            normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
            broker.commitConfigurationDataPost(normalizedII, datastoreNormalizedData);
        }
    } catch(RestconfDocumentedException e) {
        throw e;
    } catch (Exception e) {
        throw new RestconfDocumentedException("Error creating data", e);
    }

    return Response.status(Status.NO_CONTENT).build();
}

@Override
public Response deleteConfigurationData(final String identifier) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    YangInstanceIdentifier normalizedII;

    try {
        if (mountPoint != null) {
            normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData
                .getInstanceIdentifier());
            broker.commitConfigurationDataDelete(mountPoint, normalizedII);
        } else {
            normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        }
    } catch(RestconfDocumentedException e) {
        throw e;
    } catch (Exception e) {
        throw new RestconfDocumentedException("Error creating data", e);
    }

    return Response.status(Status.NO_CONTENT).build();
}
broker.commitConfigurationDataDelete(normalizedII).get();
}
}
catch (Exception e) {
    final Optional<Throwable> searchedException = Iterables.tryFind(Throwables.getCausalChain(e),
        Predicates.instanceOf(ModifiedNodeDoesNotExistException.class));
    if (searchedException.isPresent()) {
        throw new RestconfDocumentedException("Data specified for deleting doesn't exist.",
            ErrorType.APPLICATION, ErrorTag.DATA_MISSING);
    }
    throw new RestconfDocumentedException("Error while deleting data", e);
}
return Response.status(Status.OK).build();

/**
 * Subscribes to some path in schema context (stream) to listen on changes on this stream.
 * 
 * Additional parameters for subscribing to stream are loaded via rpc input parameters:
 * 
 * <ul>
 * <li>datastore</li> - default CONFIGURATION (other values of {@link LogicalDatastoreType} enum type)
 * <li>scope</li> - default BASE (other values of {@link DataChangeScope})
 * </ul>
 * */

@Override
public Response subscribeToStream(final String identifier, final UriInfo uriInfo) {
    final String streamName = Notificator.createStreamNameFromUri(identifier);
    if (Strings.isNullOrEmpty(streamName)) {
        throw new RestconfDocumentedException("Stream name is empty.", ErrorType.PROTOCOL,
            ErrorTag.INVALID_VALUE);
    }
    final ListenerAdapter listener = Notificator.getListenerFor(streamName);
    if (listener == null) {
        throw new RestconfDocumentedException("Stream was not found.", ErrorType.PROTOCOL,
            ErrorTag.UNKNOWN_ELEMENT);
    }
    Map<String, String> paramToValues = resolveValuesFromUri(identifier);
    LogicalDatastoreType datastore = parserURIEnumParameter(LogicalDatastoreType.class,
        paramToValues.get(DATASTORE_PARAM_NAME));
    if (datastore == null) {
        throw new RestconfDocumentedException("Stream name doesn't contains datastore value (pattern
            /datastore=)",
            ErrorType.APPLICATION, ErrorTag.MISSING_ATTRIBUTE);
    }
    DataChangeScope scope = parserURIEnumParameter(DataChangeScope.class,
        paramToValues.get(SCOPE_PARAM_NAME));
    if (scope == null) {
throw new RestconfDocumentedException("Stream name doesn't contains datastore value (pattern /scope=)",
   ErrorType.APPLICATION, ErrorTag.MISSING_ATTRIBUTE);
}
broker.registerToListenDataChanges(datastore, scope, listener);

final UriBuilder uriBuilder = uriInfo.getAbsolutePathBuilder();
int notificationPort = NOTIFICATION_PORT;
try {
   WebSocketServer webSocketServerInstance = WebSocketServer.getInstance();
   notificationPort = webSocketServerInstance.getPort();
} catch (NullPointerException e) {
   WebSocketServer.createInstance(NOTIFICATION_PORT);
}
UriBuilder port = uriBuilder.port(notificationPort);
final URI uriToWebsocketServer = port.replacePath(streamName).build();

return Response.status(Status.OK).location(uriToWebsocketServer).build();
}

/**
 * Load parameter for subscribing to stream from input composite node
 *
 * @param compNode contains value
 * @return enum object if its string value is equal to {code paramName}. In other cases null.
 */
private <T> T parseEnumTypeParameter(final CompositeNode compNode, final Class<T> classDescriptor,
   final String paramName) {
   QNameModule salRemoteAugment = QNameModule.create(NAMESPACE_EVENT_SUBSCRIPTION_AUGMENT,
      EVENT_SUBSCRIPTION_AUGMENT_REVISION);
   SimpleNode<?> simpleNode = compNode.getFirstSimpleByName(QName.create(salRemoteAugment,
      paramName));
   if (simpleNode == null) { return null; }
   Object rawValue = simpleNode.getValue();
   if (!(rawValue instanceof String)) { return null; }
   return resolveAsEnum(classDescriptor, (String) rawValue);
}

/**
 * Checks whether {code value} is one of the string representation of enumeration {code classDescriptor}
 *
private <T> T parserURIEnumParameter(final Class<T> classDescriptor, final String value) {
    if (Strings.isNullOrEmpty(value)) {
        return null;
    }
    return resolveAsEnum(classDescriptor, value);
}

private <T> T resolveAsEnum(final Class<T> classDescriptor, final String value) {
    T[] enumConstants = classDescriptor.getEnumConstants();
    if (enumConstants != null) {
        for (T enm : classDescriptor.getEnumConstants()) {
            if (((Enum<?>) enm).name().equals(value)) {
                return enm;
            }
        }
    }
    return null;
}

private Map<String, String> resolveValuesFromUri(final String uri) {
    Map<String, String> result = new HashMap<>();
    String[] tokens = uri.split("/");
    for (int i = 1; i < tokens.length; i++) {
        String[] parameterTokens = tokens[i].split("=");
        if (parameterTokens.length == 2) {
            result.put(parameterTokens[0], parameterTokens[1]);
        }
    }
    return result;
}

private Module findModule(final DOMMountPoint mountPoint, final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return findModule(mountPoint, (NodeWrapper<?>) data);
    } else if (data != null) {
        URI namespace = data.getNodeType().getNamespace();
        if (mountPoint != null) {
            return this.controllerContext.findModuleByNamespace(mountPoint, namespace);
        } else {
            return this.controllerContext.findModuleByNamespace(namespace);
        }
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: ",
                + Arrays.asList(mountPoint, data).toString());
private Module findModule(final DOMMountPoint mountPoint, final NodeWrapper<?> data) {
    URI namespace = data.getNamespace();
    Preconditions.<URI> checkNotNull(namespace);

    Module module = null;
    if (mountPoint != null) {
        module = this.controllerContext.findModuleByNamespace(mountPoint, namespace);
        if (module == null) {
            module = this.controllerContext.findModuleByName(mountPoint, namespace.toString());
        }
    } else {
        module = this.controllerContext.findModuleByNamespace(namespace);
        if (module == null) {
            module = this.controllerContext.findModuleByName(namespace.toString());
        }
    }

    return module;
}

private InstanceIdentifierContext addLastIdentifierFromData(final InstanceIdentifierContext identifierWithSchemaNode,
        final CompositeNode data, final DataSchemaNode schemaOfData, SchemaContext schemaContext) {
    YangInstanceIdentifier instanceIdentifier = null;
    if (identifierWithSchemaNode != null) {
        instanceIdentifier = identifierWithSchemaNode.getInstanceIdentifier();
    }
    final YangInstanceIdentifier iiOriginal = instanceIdentifier;
    InstanceIdentifierBuilder iiBuilder = null;
    if (iiOriginal == null) {
        iiBuilder = YangInstanceIdentifier.builder();
    } else {
        iiBuilder = YangInstanceIdentifier.builder(iiOriginal);
    }

    if (schemaOfData instanceof ListSchemaNode) {
        HashMap<QName, Object> keys = this.resolveKeysFromData(((ListSchemaNode) schemaOfData), data);
        iiBuilder.nodeWithKey(schemaOfData.getQName(), keys);
    } else {
        iiBuilder.node(schemaOfData.getQName());
    }

    YangInstanceIdentifier instance = iiBuilder.toInstance();
    DOMMountPoint mountPoint = null;
private HashMap<QName, Object> resolveKeysFromData(final ListSchemaNode listNode, final CompositeNode dataNode) {
    final HashMap<QName, Object> keyValues = new HashMap<QName, Object>;
    List<QName> _keyDefinition = listNode.getKeyDefinition();
    for (final QName key : _keyDefinition) {
        SimpleNode<? extends Object> head = null;
        String localName = key.getLocalName();
        List<SimpleNode<? extends Object>> simpleNodesByName =
            dataNode.getSimpleNodesByName(localName);
        if (simpleNodesByName != null) {
            head = Iterables.getFirst(simpleNodesByName, null);
        }
        Object dataNodeKeyValueObject = null;
        if (head != null) {
            dataNodeKeyValueObject = head.getValue();
        } else if (dataNodeKeyValueObject == null) {
            throw new RestconfDocumentedException("Data contains list " +
                listNode.getNodeType().getLocalName() +
                " which does not contain key: "+ key.getLocalName() + "," +
                ErrorTag.INVALID_VALUE);
        }
        keyValues.put(key, dataNodeKeyValueObject);
    }
    return keyValues;
}

private boolean endsWithMountPoint(final String identifier) {
    return identifier.endsWith(ControllerContext.MOUNT) || identifier.endsWith(ControllerContext.MOUNT +
        "/");
}

private boolean representsMountPointRootData(final Node<?> data) {
    URI namespace = this.namespace(data);
    return (SchemaContext.NAME.getNamespace().equals(namespace) /*
        * || MOUNT_POINT_MODULE_NAME .equals( namespace .
        */}
private String addMountPointIdentifier(final String identifier) {
    boolean endsWith = identifier.endsWith("/");
    if (endsWith) {
        return (identifier + ControllerContext.MOUNT);
    }

    return identifier + "/" + ControllerContext.MOUNT;
}

private CompositeNode normalizeNode(final Node<?> node, final DataSchemaNode schema, final DOMMountPoint mountPoint) {
    if (schema == null) {
        String localName = node == null ? null : node instanceof NodeWrapper ? ((NodeWrapper<?>)node).getLocalName() : node.getNodeType().getLocalName();
        throw new RestconfDocumentedException("Data schema node was not found for " + localName, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    if (!(schema instanceof DataNodeContainer)) {
        throw new RestconfDocumentedException("Root element has to be container or list yang datatype.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    if ((node instanceof NodeWrapper<?))) {
        NodeWrapper<?> nodeWrap = (NodeWrapper<?>) node;
        boolean isChangeAllowed = ((NodeWrapper<?>) node).isChangeAllowed();
        if (isChangeAllowed) {
            nodeWrap = topLevelElementAsCompositeNodeWrapper((NodeWrapper<?>) node, schema);
            try {
                this.normalizeNode(nodeWrap, schema, null, mountPoint);
            } catch (IllegalArgumentException e) {
                throw new RestconfDocumentedException(e.getMessage(), ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
            }
            if (nodeWrap instanceof CompositeNodeWrapper) {
                return ((CompositeNodeWrapper) nodeWrap).unwrap();
            }
        }
    }

    if (node instanceof CompositeNode) {
        // Incomplete code snippet, likely a continuation of the previous method.
    }
}
private void normalizeNode(final NodeWrapper<? extends Object> nodeBuilder, final DataSchemaNode schema, final QName previousAugment, final DOMMountPoint mountPoint) {
    if (schema == null) {
        throw new RestconfDocumentedException("Data has bad format. \n\"\" + nodeBuilder.getLocalName() + \"\" does not exist in yang schema.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    QName currentAugment = null;
    if (nodeBuilder.getQname() != null) {
        currentAugment = previousAugment;
    } else {
        currentAugment = this.normalizeNodeName(nodeBuilder, schema, previousAugment, mountPoint);
        if (nodeBuilder.getQname() == null) {
            throw new RestconfDocumentedException("Data has bad format. \n\"\" + nodeBuilder.getLocalName() + \"\" should be \"\" + schema.getQName().getNamespace() + \"\", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
        }
    }

    if (nodeBuilder instanceof CompositeNodeWrapper) {
        if (schema instanceof DataNodeContainer) {
            normalizeCompositeNode((CompositeNodeWrapper) nodeBuilder, (DataNodeContainer) schema, mountPoint, currentAugment);
        } else if (schema instanceof AnyXmlSchemaNode) {
            normalizeAnyXmlNode((CompositeNodeWrapper) nodeBuilder, (AnyXmlSchemaNode) schema);
        }
    } else if (nodeBuilder instanceof SimpleNodeWrapper) {
        normalizeSimpleNode((SimpleNodeWrapper) nodeBuilder, schema, mountPoint);
    } else if ((nodeBuilder instanceof EmptyNodeWrapper)) {
        normalizeEmptyNode((EmptyNodeWrapper) nodeBuilder, schema);
    }
}

private void normalizeAnyXmlNode(final CompositeNodeWrapper compositeNode, final AnyXmlSchemaNode schema) {
    List<NodeWrapper<?>> children = compositeNode.getValues();
for (NodeWrapper<? extends Object> child : children) {
    child.setNamespace(schema.getQName().getNamespace());
    if (child instanceof CompositeNodeWrapper) {
        normalizeAnyXmlNode((CompositeNodeWrapper) child, schema);
    }
}

private void normalizeEmptyNode(final EmptyNodeWrapper emptyNodeBuilder, final DataSchemaNode schema) {
    if ((schema instanceof LeafSchemaNode)) {
        emptyNodeBuilder.setComposite(false);
    } else {
        if ((schema instanceof ContainerSchemaNode)) {
            // FIXME: Add presence check
            emptyNodeBuilder.setComposite(true);
        }
    }
}

private void normalizeSimpleNode(final SimpleNodeWrapper simpleNode, final DataSchemaNode schema, final DOMMountPoint mountPoint) {
    final Object value = simpleNode.getValue();
    Object inputValue = value;
    TypeDefinition<? extends Object> typeDefinition = this.typeDefinition(schema);
    if ((typeDefinition instanceof IdentityrefTypeDefinition)) {
        if ((value instanceof String)) {
            inputValue = new IdentityValuesDTO(simpleNode.getNamespace().toString(), (String) value, null, (String) value);
        } // else value is already instance of IdentityValuesDTO
    }
    Object outputValue = inputValue;
    if (typeDefinition != null) {
        Codec<Object, Object> codec = RestCodec.from(typeDefinition, mountPoint);
        outputValue = codec == null ? null : codec.deserialize(inputValue);
    }
    simpleNode.setValue(outputValue);
}

private void normalizeCompositeNode(final CompositeNodeWrapper compositeNodeBuilder, final DataNodeContainer schema, final DOMMountPoint mountPoint, final QName currentAugment) {
    final List<NodeWrapper<?>> children = compositeNodeBuilder.getValues();
    checkNodeMultiplicityAccordingToSchema(schema, children);
    for (final NodeWrapper<? extends Object> child : children) {
        final List<DataSchemaNode> potentialSchemaNodes =
ControllerContext.findInstanceDataChildrenByName(
    schema, child.getLocalName());

    if (potentialSchemaNodes.size() > 1 && child.getNamespace() == null) {
        StringBuilder builder = new StringBuilder();
        for (final DataSchemaNode potentialSchemaNode : potentialSchemaNodes) {
            builder.append("\n").append(potentialSchemaNode.getQName().getNamespace().toString()).append("\n");
        }
        throw new RestconfDocumentedException("Node "+ child.getLocalName() + " is added as augment from more than one module. 
+ "Therefore node must have namespace (XML format) or module name (JSON format)."
+ "\nThe node is added as augment from modules with namespaces:
" + builder, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    boolean rightNodeSchemaFound = false;
    for (final DataSchemaNode potentialSchemaNode : potentialSchemaNodes) {
        if (!rightNodeSchemaFound) {
            final QName potentialCurrentAugment = this.normalizeNodeName(child, potentialSchemaNode,
                currentAugment, mountPoint);
            if (child.getQname() != null) {
                this.normalizeNode(child, potentialSchemaNode, potentialCurrentAugment, mountPoint);
                rightNodeSchemaFound = true;
            }
        }
    }

    if (!rightNodeSchemaFound) {
        throw new RestconfDocumentedException("Schema node "+ child.getLocalName() + " was not found in module.", ErrorType.APPLICATION, ErrorTag.UNKNOWN_ELEMENT);
    }

    if ((schema instanceof ListSchemaNode)) {
        ListSchemaNode listSchemaNode = (ListSchemaNode) schema;
        final List<QName> listKeys = listSchemaNode.getKeyDefinition();
        for (final QName listKey : listKeys) {
            boolean foundKey = false;
            for (final NodeWrapper<? extends Object> child : children) {
                if (Objects.equal(child.unwrap().getNodeType().getLocalName(), listKey.getLocalName())) {
                    foundKey = true;
                }
            }
            if (!foundKey) {
                throw new RestconfDocumentedException("Missing key in URI "+ listKey.getLocalName()
private void checkNodeMultiplicityAccordingToSchema(final DataNodeContainer dataNodeContainer, 
    final List<NodeWrapper<?>> nodes) {
    Map<String, Integer> equalNodeNamesToCounts = new HashMap<String, Integer>();
    for (NodeWrapper<?> child : nodes) {
        Integer count = equalNodeNamesToCounts.get(child.getLocalName());
        equalNodeNamesToCounts.put(child.getLocalName(), count == null ? 1 : ++count);
    }
    for (DataSchemaNode childSchemaNode : dataNodeContainer.getChildNodes()) {
        if (childSchemaNode instanceof ContainerSchemaNode || childSchemaNode instanceof LeafSchemaNode) {
            String localName = childSchemaNode.getQName().getLocalName();
            Integer count = equalNodeNamesToCounts.get(localName);
            if (count != null && count > 1) {
                throw new RestconfDocumentedException("Multiple input data elements were specified for "
                        + childSchemaNode.getQName().getLocalName() + ". The data for this element type can only be specified once.", ErrorType.APPLICATION, 
                        ErrorTag.BAD_ELEMENT);
            }
        }
    }
}

private QName normalizeNodeName(final NodeWrapper<? extends Object> nodeBuilder, final DataSchemaNode schema, 
    final QName previousAugment, final DOMMountPoint mountPoint) {
    QName validQName = schema.getQName();
    QName currentAugment = previousAugment;
    if (schema.isAugmenting()) {
        currentAugment = schema.getQName();
    } else if (previousAugment != null && !Objects.equal(schema.getQName().getNamespace(), previousAugment.getNamespace())) {
        validQName = QName.create(currentAugment, schema.getQName().getLocalName());
    }
    String moduleName = null;
    if (mountPoint == null) {
        moduleName = controllerContext.findModuleNameByNamespace(validQName.getNamespace());
    } else {
        moduleName = controllerContext.findModuleNameByNamespace(mountPoint, 
                validQName.getNamespace());
    }
}
if (nodeBuilder.getNamespace() == null || Objects.equal(nodeBuilder.getNamespace(), validQName.getNamespace())
    || Objects.equal(nodeBuilder.getNamespace().toString(), moduleName)) {
    /*
     * Note: this check is wrong -
     * can never be true as it compares
     * a URI with a String not sure what
     * the intention is so commented out
     * ...
     */
    nodeBuilder.setQname(validQName);
}

return currentAugment;
}

private URI namespace(final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return ((NodeWrapper<?>) data).getNamespace();
    } else if (data != null) {
        return data.getNodeType().getNamespace();
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.<Object>asList(data).toString());
    }
}

private String localName(final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return ((NodeWrapper<?>) data).getLocalName();
    } else if (data != null) {
        return data.getNodeType().getLocalName();
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.<Object>asList(data).toString());
    }
}

private String getName(final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return ((NodeWrapper<?>) data).getLocalName();
    } else if (data != null) {
        return data.getNodeType().getLocalName();
    } else {

throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.<Object>asList(data).toString());
}
}

private TypeDefinition<? extends Object> _typeDefinition(final LeafSchemaNode node) {
    TypeDefinition<?> baseType = node.getType();
    while (baseType.getBaseType() != null) {
        baseType = baseType.getBaseType();
    }

    return baseType;
}

private TypeDefinition<? extends Object> typeDefinition(final LeafListSchemaNode node) {
    TypeDefinition<?> baseType = node.getType();
    while (baseType.getBaseType() != null) {
        baseType = baseType.getBaseType();
    }

    return baseType;
}

private TypeDefinition<? extends Object> typeDefinition(final DataSchemaNode node) {
    if (node instanceof LeafListSchemaNode) {
        return typeDefinition((LeafListSchemaNode) node);
    } else if (node instanceof LeafSchemaNode) {
        return _typeDefinition((LeafSchemaNode) node);
    } else if (node instanceof AnyXmlSchemaNode) {
        return null;
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.<Object>asList(node).toString());
    }
}

private CompositeNode datastoreNormalizedNodeToCompositeNode(final NormalizedNode<?, ?> dataNode, final DataSchemaNode schema) {
    Node<?> nodes = null;
    if (dataNode == null) {
        throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION, ErrorTag.DATA_MISSING, "No data was found."));
    }

    nodes = DataNormalizer.toLegacy(dataNode);
    if (nodes != null) {
        if (nodes instanceof CompositeNode) {
            return (CompositeNode) nodes;
        }
    }
}
else {
    LOG.error("The node " + dataNode.getNodeType() + " couldn't be transformed to compositenode.");
}
} else {
    LOG.error("Top level node isn't of type Container or List schema node but "+ schema.getClass().getSimpleName());
}

throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION,
    ErrorTag.INVALID_VALUE,
    "It wasn't possible to correctly interpret data.");
}

private NormalizedNode<?, ?> compositeNodeToDatastoreNormalizedNode(final CompositeNode compNode,
    final DataSchemaNode schema) {
    List<Node<?>> lst = new ArrayList<Node<?>>(
    lst.add(compNode);
    if (schema instanceof ContainerSchemaNode) {
        return CnSnToNormalizedNodeParserFactory.getInstance().getContainerNodeParser()
            .parse(lst, (ContainerSchemaNode) schema);
    } else if (schema instanceof ListSchemaNode) {
        return CnSnToNormalizedNodeParserFactory.getInstance().getMapEntryNodeParser()
            .parse(lst, (ListSchemaNode) schema);
    }
    LOG.error("Top level isn't of type container, list, leaf schema node but "+ schema.getClass().getSimpleName());

    throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION,
        ErrorTag.INVALID_VALUE,
        "It wasn't possible to translate specified data to datastore readable form.");
}

private InstanceIdentifierContext normalizeInstanceIdentifierWithSchemaNode(
    final InstanceIdentifierContext iiWithSchemaNode) {
    return normalizeInstanceIdentifierWithSchemaNode(iiWithSchemaNode, false);
}

private InstanceIdentifierContext normalizeInstanceIdentifierWithSchemaNode(
    final InstanceIdentifierContext iiWithSchemaNode, final boolean unwrapLastListNode) {
    return new InstanceIdentifierContext(instanceIdentifierToReadableFormForNormalizeNode(
        iiWithSchemaNode.getInstanceIdentifier(), unwrapLastListNode), iiWithSchemaNode.getSchemaNode(),
        iiWithSchemaNode.getMountPoint(), iiWithSchemaNode.getSchemaContext());
}

private YangInstanceIdentifier instanceIdentifierToReadableFormForNormalizeNode(
    final YangInstanceIdentifier instIdentifier, final boolean unwrapLastListNode) {
    Preconditions.checkNotNull(instIdentifier, "Instance identifier can't be null");
}
final List<PathArgument> result = new ArrayList<PathArgument>();
final Iterator<PathArgument> iter = instIdentifier.getPathArguments().iterator();
while (iter.hasNext()) {
    final PathArgument pathArgument = iter.next();
    if (pathArgument instanceof NodeIdentifierWithPredicates && (iter.hasNext() || unwrapLastListNode)) {
        result.add(new YangInstanceIdentifier.NodeIdentifier(pathArgument.getNodeType()));
    } else if (pathArgument instanceof NodeIdentifier) {
        result.add(pathArgument);
    }
    return YangInstanceIdentifier.create(result);
}

private CompositeNodeWrapper topLevelElementAsCompositeNodeWrapper(final NodeWrapper<?> node, final DataSchemaNode schemaNode) {
    if (node instanceof CompositeNodeWrapper) {
        return (CompositeNodeWrapper) node;
    } else if (node instanceof SimpleNodeWrapper && isDataContainerNode(schemaNode)) {
        final SimpleNodeWrapper simpleNodeWrapper = (SimpleNodeWrapper) node;
        return new CompositeNodeWrapper(namespace(simpleNodeWrapper), localName(simpleNodeWrapper));
    }
}

private boolean isDataContainerNode(final DataSchemaNode schemaNode) {
    if (schemaNode instanceof ContainerSchemaNode || schemaNode instanceof ListSchemaNode) {
        return true;
    }
    return false;
}

public BigInteger getOperationalReceived() {
    // TODO Auto-generated method stub
    return null;
}

4.173 sal-rest-docgen 1.1.1-Helium-SR1

4.173.1 Available under license:

/*
 * Copyright (c) 2014 Cisco Systems, Inc. and others. All rights reserved.
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
package org.opendaylight.controller.sal.rest.doc.impl;

import java.io.ByteArrayOutputStream;
import java.io.OutputStreamWriter;
import java.util.Map.Entry;
import javax.ws.rs.core.Response;
import javax.ws.rs.core.UriInfo;
import org.json.JSONWriter;
import org.opendaylight.controller.sal.rest.doc.api.ApiDocService;
import org.opendaylight.controller.sal.rest.doc.mountpoints.MountPointSwagger;
import org.opendaylight.controller.sal.rest.doc.swagger.ApiDeclaration;
import org.opendaylight.controller.sal.rest.doc.swagger.ResourceList;

/**
 * This service generates swagger (See <a href="https://helloreverb.com/developers/swagger" >https://helloreverb.com/developers/swagger</a>) compliant documentation for
 * RESTCONF APIs. The output of this is used by embedded Swagger UI.
 *
 * NOTE: These API's need to be synchronized due to bug 1198. Thread access to
 * the SchemaContext is not synchronized properly and thus you can end up with
 * missing definitions without this synchronization. There are likely otherways
 * to work around this limitation, but given that this API is a dev only tool
 * and not dependent UI, this was the fastest work around.
 *
 * /
 public class ApiDocServiceImpl implements ApiDocService {

 private static final ApiDocService INSTANCE = new ApiDocServiceImpl();

 public static ApiDocService getInstance() {
     return INSTANCE;
 }

/**
 * Generates index document for Swagger UI. This document lists out all
 * modules with link to get APIs for each module. The API for each module is
 * served by <code> getDocByModule()</code> method.
 *
 * @param uriInfo
 * @return
 */
 @Override
 public synchronized Response getRootDoc(UriInfo uriInfo) {


ApiDocGenerator generator = ApiDocGenerator.getInstance();
ResourceList rootDoc = generator.getResourceListing(uriInfo);

return Response.ok(rootDoc).build();
}

/**
 * Generates Swagger compliant document listing APIs for module.
 * @param module
 * @param revision
 * @param uriInfo
 * @return
 */
@override
class synchronized Response getDocByModule(String module, String revision, UriInfo uriInfo) {
    ApiDocGenerator generator = ApiDocGenerator.getInstance();
    ApiDeclaration doc = generator.getApiDeclaration(module, revision, uriInfo);
    return Response.ok(doc).build();
}

/**
 * Redirects to embedded swagger ui.
 * @param uriInfo
 * @return
 */
@override
class synchronized Response getApiExplorer(UriInfo uriInfo) {
    return Response.
        seeOther(uriInfo.getBaseUriBuilder().path("../explorer/index.html").build())
        .build();
}

@override
class synchronized Response getListOfMounts(UriInfo uriInfo) {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    try (OutputStreamWriter streamWriter = new OutputStreamWriter(baos)) {
        JSONWriter writer = new JSONWriter(streamWriter);
        writer.array();
        for (Entry<String, Long> entry : MountPointSwagger.getInstance().getInstanceIdentifiers().entrySet()) {
            writer.object();
            writer.key("instance").value(entry.getKey());
            writer.key("id").value(entry.getValue());
            writer.endObject();
        }
    }
}
writer.endArray();
} catch (Exception e) {
    return Response.status(500).entity(e.getMessage()).build();
}
return Response.status(200).entity(baos.toString()).build();

@override
public synchronized Response getMountRootDoc(String instanceNum, UriInfo uriInfo) {
    ResourceList resourceList = MountPointSwagger.getInstance().getResourceList(uriInfo,
        Long.parseLong(instanceNum));
    return Response.ok(resourceList).build();
}

@override
public synchronized Response getMountDocByModule(String instanceNum, String module,
        String revision, UriInfo uriInfo) {
    ApiDeclaration api = MountPointSwagger.getInstance().getMountPointApi(uriInfo,
        Long.parseLong(instanceNum), module, revision);
    return Response.ok(api).build();
}

/*
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 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.rest.doc.jaxrs;

import java.util.HashSet;
import java.util.Set;
import javax.ws.rs.core.Application;
import org.opendaylight.controller.sal.rest.doc.impl.ApiDocServiceImpl;
public class ApiDocApplication extends Application {
    @Override
    public Set<Object> getSingletons() {
        Set<Object> singletons = new HashSet<>();
        singletons.add(ApiDocServiceImpl.getInstance());
        singletons.add(new JaxbContextResolver());
        return singletons;
    }

    import java.util.HashSet;
    import java.util.Set;
    import javax.ws.rs.core.Application;
    import org.opendaylight.controller.sal.rest.doc.impl.ApiDocServiceImpl;

    public class ApiDocApplication extends Application {
        @Override
        public Set<Object> getSingletons() {
            Set<Object> singletons = new HashSet<>();
            singletons.add(ApiDocServiceImpl.getInstance());
            singletons.add(new JaxbContextResolver());
            return singletons;
        }
    }
}
4.174 sal-restconf-broker 1.1.1-Helium-SR1

4.174.1 Available under license:

/*
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.sal.restconf.binding.impl;

import java.net.URL;
import org.opendaylight.controller.sal.binding.api.data.DataBrokerService;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataModificationTransaction;
import org.opendaylight.controller.sal.binding.api.data.DataObject;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContextFactory;
import org.opendaylight.yangtools.yang.model.api.SchemaContextHolder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class DataBrokerServiceImpl implements DataBrokerService {
    private static final Logger logger = LoggerFactory.getLogger(DataBrokerServiceImpl.class.toString());
    private final RestconfClientContext restconfClientContext;
    private final RestconfClientContextFactory restconfClientContextFactory = null;

    public DataBrokerServiceImpl(URL baseUrl, BindingIndependentMappingService mappingService,
                                 SchemaContextHolder schemaContextHolder) throws UnsupportedProtocolException {
        this.restconfClientContext = restconfClientContextFactory.getRestconfClientContext(baseUrl, mappingService,
                                                                                             schemaContextHolder);
    }

    @Override
    public DataModificationTransaction beginTransaction() {
        //TODO implementation using sal-remote
        return null;
    }
}
@Override
public DataObject readConfigurationData(InstanceIdentifier<? extends DataObject> path) {
    //TODO implementation using restconf-client
    return null;
}

@Override
public DataObject readOperationalData(InstanceIdentifier<? extends DataObject> path) {
    //TODO implementation using restconf-client
    return null;
}

@Override
public ListenerRegistration<DataChangeListener> registerDataChangeListener(InstanceIdentifier<? extends DataObject> path, DataChangeListener listener) {
    //TODO implementation using restconf-client
    return null;
}

package org.opendaylight.controller.sal.restconf.broker.client;

import java.net.URL;
import javassist.ClassPool;
import org.opendaylight.controller.sal.binding.api.BindingAwareConsumer;
import org.opendaylight.controller.sal.restconf.broker.SalRemoteServiceBroker;
import org.opendaylight.yangtools.restconf.client.RestconfClientFactory;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.UnsupportedProtocolException;
import org.opendaylight.yangtools.sal.binding.generator.impl.ModuleInfoBackedContext;
import org.opendaylight.yangtools.sal.binding.generator.impl.RuntimeGeneratedMappingServiceImpl;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;

class SalRemoteClientImpl implements SalRemoteClient {


private static final Logger logger = LoggerFactory.getLogger(SalRemoteClientImpl.class);

private final RestconfClientContext restconfClientContext;
private final SalRemoteServiceBroker salRemoteBroker;
private final RuntimeGeneratedMappingServiceImpl mappingService;

public SalRemoteClientImpl(final URL url) {
    Preconditions.checkNotNull(url);
    this.mappingService = new RuntimeGeneratedMappingServiceImpl(ClassPool.getDefault());
    final ModuleInfoBackedContext moduleInfo = ModuleInfoBackedContext.create();
    moduleInfo.addModuleInfos(BindingReflections.loadModuleInfos());
    this.mappingService.onGlobalContextUpdated(moduleInfo.tryToCreateSchemaContext().get());

    try {
        this.restconfClientContext = new RestconfClientFactory().getRestconfClientContext(url,
                this.mappingService, this.mappingService);
        this.salRemoteBroker = new SalRemoteServiceBroker("remote-broker", restconfClientContext);
        this.salRemoteBroker.start();
    } catch (UnsupportedProtocolException e) {
        logger.error("Unsupported protocol {}.", url.getProtocol(), e);
        throw new IllegalArgumentException("Unsupported protocol.", e);
    }
}

@Override
public ConsumerContext registerConsumer() {
    return this.salRemoteBroker.registerConsumer(new BindingAwareConsumer() {

        @Override
        public void onSessionInitialized(ConsumerContext session) {
            }
        }, null);
    }

    @Override
    public void close() throws Exception {
        this.restconfClientContext.close();
        this.salRemoteBroker.close();
    }
}

/*@Override
public ConsumerContext registerConsumer() {
    return this.salRemoteBroker.registerConsumer(new BindingAwareConsumer() {

        @Override
        public void onSessionInitialized(ConsumerContext session) {
            }
        }, null);
    }

    @Override
    public void close() throws Exception {
        this.restconfClientContext.close();
        this.salRemoteBroker.close();
    }
}

/*@Override
public ConsumerContext registerConsumer() {
    return this.salRemoteBroker.registerConsumer(new BindingAwareConsumer() {

        @Override
        public void onSessionInitialized(ConsumerContext session) {
            }
        }, null);
    }

    @Override
    public void close() throws Exception {
        this.restconfClientContext.close();
        this.salRemoteBroker.close();
    }
}

/*
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package org.opendaylight.controller.sal.restconf.broker.impl;

import java.util.Map;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.Future;

import org.opendaylight.controller.sal.binding.api.data.DataBrokerService;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataModificationTransaction;

package org.opendaylight.controller.sal.restconf.broker.impl;

import java.util.Map;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.Future;

import org.opendaylight.controller.sal.binding.api.data.DataBrokerService;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataModificationTransaction;

import

import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.BeginTransactionOutput;
import

import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.CreateDataChangeEventSubscriptionInputBuilder;
import

import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.CreateDataChangeEventSubscriptionOutput;
import

import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.SalRemoteService;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.event.EventStreamInfo;
import org.opendaylight.yangtools.restconf.client.api.event.ListenableEventStreamContext;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

public class DataBrokerServiceImpl implements DataBrokerService {
    private static final Logger logger = LoggerFactory.getLogger(DataBrokerServiceImpl.class.toString());
    private final RestconfClientContext restconfClientContext;
    private final SalRemoteService salRemoteService;

    public DataBrokerServiceImpl(RestconfClientContext restconfClientContext, SalRemoteService salRemoteService) {
        this.restconfClientContext = restconfClientContext;
        this.salRemoteService = salRemoteService;
    }

    @Override
    public void onDataModification(DataModificationTransaction transaction) {
        // Handle data modification
    }

    @Override
    public void onDataChange(DataChangeListener listener) {
        // Handle data change
    }

    @Override
    public void onBeginTransaction(BeginTransactionOutput output) {
        // Handle begin transaction
    }

    @Override
    public synchronized Future<InstanceIdentifier<DataObject>> createDataChangeEventSubscription(SalRemoteService salRemoteService,
                                                                                                   String subscriptionName,
                                                                                                   ListenableEventStreamContext subscriptionContext) {
        // Create data change event subscription
        return null;
    }

    @Override
    public Optional<RpcResult> beginTransaction(BeginTransactionOutput output) {
        // Begin transaction
        return Optional.empty();
    }

    @Override
    public Optional<RpcResult> createDataChangeEventSubscription(String subscriptionName,
                                                                 ListenableEventStreamContext subscriptionContext) {
        // Create data change event subscription
        return Optional.empty();
    }

    @Override
    public void removeDataChangeListener(DataChangeListener listener) {
        // Remove data change listener
    }

    @Override
    public void close() {
        // Close connection
    }

    @Override
    public String toString() {
        return getClass().getName();
    }
}

public class DataBrokerServiceImpl implements DataBrokerService {
    private static final Logger logger = LoggerFactory.getLogger(DataBrokerServiceImpl.class.toString());
    private final RestconfClientContext restconfClientContext;
    private final SalRemoteService salRemoteService;

    public DataBrokerServiceImpl(RestconfClientContext restconfClientContext, SalRemoteService salRemoteService) {
        this.restconfClientContext = restconfClientContext;
        this.salRemoteService = salRemoteService;
    }

    @Override
    public void onDataModification(DataModificationTransaction transaction) {
        // Handle data modification
    }

    @Override
    public void onDataChange(DataChangeListener listener) {
        // Handle data change
    }

    @Override
    public void onBeginTransaction(BeginTransactionOutput output) {
        // Handle begin transaction
    }

    @Override
    public synchronized Future<InstanceIdentifier<DataObject>> createDataChangeEventSubscription(SalRemoteService salRemoteService,
                                                                                                   String subscriptionName,
                                                                                                   ListenableEventStreamContext subscriptionContext) {
        // Create data change event subscription
        return null;
    }

    @Override
    public Optional<RpcResult> beginTransaction(BeginTransactionOutput output) {
        // Begin transaction
        return Optional.empty();
    }

    @Override
    public Optional<RpcResult> createDataChangeEventSubscription(String subscriptionName,
                                                                 ListenableEventStreamContext subscriptionContext) {
        // Create data change event subscription
        return Optional.empty();
    }

    @Override
    public void removeDataChangeListener(DataChangeListener listener) {
        // Remove data change listener
    }

    @Override
    public void close() {
        // Close connection
    }

    @Override
    public String toString() {
        return getClass().getName();
    }
}
public DataBrokerServiceImpl(RestconfClientContext restconfClientContext) {
    this.restconfClientContext = restconfClientContext;
    this.salRemoteService =
    this.restconfClientContext.getRpcServiceContext(SalRemoteService.class).getRpcService();
}

@Override
public DataModificationTransaction beginTransaction() {
    Future<RpcResult<BeginTransactionOutput>> rpcResultFuture = this.salRemoteService.beginTransaction();
    //TODO finish yang model for proper remoteDataModificationTransaction setup
    RemoteDataModificationTransaction remoteDataModificationTransaction = new
    RemoteDataModificationTransaction();
    return remoteDataModificationTransaction;
}

@Override
public DataObject readConfigurationData(InstanceIdentifier<? extends DataObject> path) {
    try {
        Optional<DataObject> optDataObject = (Optional<DataObject>)
        this.restconfClientContext.getConfigurationDatastore().readData(path).get();
        if (optDataObject.isPresent()){  
            return optDataObject.get();
        }
    } catch (InterruptedException e) {
        logger.trace("Reading configuration data interrupted {}",e);
    } catch (ExecutionException e) {
        logger.trace("Reading configuration execution exception {}",e);
    }
    throw new IllegalStateException("No data to return.");
}

@Override
public DataObject readOperationalData(InstanceIdentifier<? extends DataObject> path) {
    try {
        Optional<DataObject> optDataObject = (Optional<DataObject>)
        this.restconfClientContext.getOperationalDatastore().readData(path).get();
        if (optDataObject.isPresent()){  
            return optDataObject.get();
        }
    } catch (InterruptedException e) {
        logger.trace("Reading configuration data interrupted {}",e);
    } catch (ExecutionException e) {
        logger.trace("Reading configuration execution exception {}",e);
    }
    throw new IllegalStateException("No data to return.");
}

@Override
public ListenerRegistration<DataChangeListener> registerDataChangeListener(InstanceIdentifier<? extends
DataObject> path, DataChangeListener listener) {
    CreateDataChangeEventSubscriptionInputBuilder inputBuilder = new 
    CreateDataChangeEventSubscriptionInputBuilder();
    Future<RpcResult<CreateDataChangeEventSubscriptionOutput>> rpcResultFuture = 
    salRemoteService.createDataChangeEventSubscription(inputBuilder.setPath(path).build());
    String streamName = "";
    try {
        if (rpcResultFuture.get().isSuccessful()){
            streamName = rpcResultFuture.get().getResult().getStreamName();
        }
    } catch (InterruptedException e) {
        logger.trace("interrupted while getting rpc result due to {}",e);
    } catch (ExecutionException e) {
        logger.trace("Execution exception while getting rpc result due to {}",e);
    }
    final Map<String,EventStreamInfo> desiredEventStream =
    RemoteStreamTools.createEventStream(restconfClientContext.streamName);
    ListenableEventStreamContext restConfListenableEventStreamContext =
    restconfClientContext.getEventStreamContext(desiredEventStream.get(streamName));
    RemoteDataChangeNotificationListener remoteDataChangeNotificationListener = new 
    RemoteDataChangeNotificationListener(listener);
    final ListenerRegistration<?> reg =
    restConfListenableEventStreamContext.registerNotificationListener(remoteDataChangeNotificationListener);
    return new AbstractListenerRegistration<DataChangeListener>(listener) {
        @Override
        protected void removeRegistration() {
            reg.close();
        }
    };
}

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 */
package org.opendaylight.controller.sal.restconf.broker.impl;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import org.opendaylight.controller.sal.binding.api.NotificationListener;
import org.opendaylight.controller.sal.binding.api.NotificationService;
import org.opendaylight.controller.sal.restconf.broker.listeners.RemoteNotificationListener;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.QName;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.SalRemote
Service;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.yangtools.restconf.client.api.event.EventStreamInfo;
import org.opendaylight.yangtools.yangtools.yang.binding.Notification;

public class NotificationServiceImpl implements NotificationService {
    private final SalRemoteService salRemoteService;
    private final RestconfClientContext restconfClientContext;

    public NotificationServiceImpl(RestconfClientContext restconfClientContext) {
        this.restconfClientContext = restconfClientContext;
        this.salRemoteService =
        this.restconfClientContext.getRpcServiceContext(SalRemoteService.class).getRpcService();
    }

    @Override
    public <T extends Notification> ListenerRegistration<NotificationListener<T>>
    registerNotificationListener(Class<T> notificationType, NotificationListener<T> listener) {
        //TODO implementation using sal-remote
        List<QName> notifications = new ArrayList<QName>();
        notifications.add(new QName(notificationType.toString()));
        String notificationStreamName = RemoteStreamTools.createNotificationStream(salRemoteService,
        notifications);
        final Map<String, EventStreamInfo> desiredEventStream =
        RemoteStreamTools.createEventStream(restconfClientContext, notificationStreamName);
        RemoteNotificationListener remoteNotificationListener = new RemoteNotificationListener(listener);
        final ListenerRegistration<?> listenerRegistration =
        restconfClientContext.getEventStreamContext(desiredEventStream.get(desiredEventStream.get(notificationStream
        Name))).registerNotificationListener(remoteNotificationListener);

        return new AbstractListenerRegistration<NotificationListener<T>>(listener) {
            @Override
            protected void removeRegistration() {
                listenerRegistration.close();
            }
        };
    }

    @Override
    public ListenerRegistration<org.opendaylight.yangtools.yang.binding.NotificationListener>

registerNotificationListener(org.opendaylight.yangtools.yang.binding.NotificationListener listener) {
    //TODO implementation using sal-remote
    String notificationStreamName = RemoteStreamTools.createNotificationStream(salRemoteService, null);
    final Map<String, EventStreamInfo> desiredEventStream = RemoteStreamTools.createEventStream(restconfClientContext, notificationStreamName);
    return restconfClientContext.getEventStreamContext(desiredEventStream.get(notificationStreamName)).registerNotificationListener(listener);
}
*/

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*/

package org.opendaylight.controller.sal.restconf.broker.impl;

import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.yang.binding.RpcService;

public class RpcConsumerRegistryImpl implements RpcConsumerRegistry {

    private RestconfClientContext restconfClientContext;

    public RpcConsumerRegistryImpl(RestconfClientContext restconfClientContext) {
        this.restconfClientContext = restconfClientContext;
    }

    @Override
    public <T extends RpcService> T getRpcService(Class<T> module) {
        return restconfClientContext.getRpcServiceContext(module).getRpcService();
    }
}

4.175 sal-test-model 1.1.1-Helium-SR1

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4.176 sample-toaster 1.1.1-Helium-SR1

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4.177 select2 3.5.0

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4.178 select2-bootstrap-css 1.2.2

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4.179 Sisu - Inject (JSR330 bean support)

2.1.1

4.180 Sisu Guava - Core Library 0.9.9

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4.182 Sisu-Inject-Bean : Aggregate OSGi bundle 2.3.0

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4.183 Sisu-Inject-Bean : Aggregate OSGi bundle 2.2.3
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*******************************************************************************/
package org.sonatype.guice.bean.locators;

import org.sonatype.guice.bean.reflect.DeferredProvider;
import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * [@link BindingTargetVisitor] that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor extends DefaultBindingTargetVisitor<Object, Class<?>> {

    final ImplementationVisitor THIS = new ImplementationVisitor();

    @Override
    public Class<?> visit( final UntargettedBinding<?> binding )
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    final class ImplementationVisitor
        extends DefaultBindingTargetVisitor<Object, Class<?>>
    {
        // Constants
        // -------------------------------

        static final ImplementationVisitor THIS = new ImplementationVisitor();

        // Public methods
        // -------------------------------

        @Override
        public Class<?> visit( final UntargettedBinding<?> binding )
        {
            return binding.getKey().getTypeLiteral().getRawType();
        }
    }
}
@Override
public Class<?> visit( final LinkedKeyBinding<?> binding )
{
    // this assumes only one level of indirection: api-->impl
    return binding.getLinkedKey().getTypeLiteral().getRawType();
}

@Override
public Class<?> visit( final ConstructorBinding<?> binding )
{
    return binding.getConstructor().getDeclaringType().getRawType();
}

@Override
public Class<?> visit( final InstanceBinding<?> binding )
{
    return binding.getInstance().getClass();
}

@Override
public Class<?> visit( final ProviderInstanceBinding<?> binding )
{
    final Provider<?> provider = binding.getProviderInstance();
    if ( provider instanceof DeferredProvider<?> )
    {
        try
        {
            // deferred providers let us peek at the underlying implementation type
            return ( (DeferredProvider<?>) provider ).getImplementationClass().load();
        }
        catch ( final TypeNotPresentException e ) // NOPMD
        {
            // fall-through
        }
    }
    return null;
}

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}

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package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.inject.Qualifier;

@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = {} )
public @interface Implicit
{

}
/**
 * Source of “implicit” bindings; includes @{@link ImplementedBy}, @{@link ProvidedBy}, and concrete types.
 */

final class ImplicitBindings
{

    // Implementation fields

    private final Iterable<Injector> injectors;

    // Constructors

    ImplicitBindings( final BeanLocator locator )
    {
        injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
    }

    // Public methods

    @SuppressWarnings( { "unchecked", "rawtypes" } )
    public <T> Binding<T> get( final TypeLiteral<T> type )
    {
        final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
        for ( final Injector i : injectors )
        {
            try
            {
                // first round: check for any re-written implicit bindings
                final Binding binding = i.getBindings().get( implicitKey );
                if ( null != binding )
                {
                    Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                    return binding;
                }
            }
            catch ( final Throwable e )
            {
                continue; // no luck, move onto next injector
            }
        }
        final Key justInTimeKey = Key.get( type );
        for ( final Injector i : injectors )
        {
try {
    // second round: fall back to just-in-time lookup
    final Binding binding = i.getBinding( justInTimeKey );
    if ( InjectorPublisher isVisible( binding ) ) {
        Logs.debug( "Using just-in-time binding: \{ \} from: <>", binding, i);
        return binding;
    }
} catch ( final Throwable e ) {
    continue; // no luck, move onto next injector
}
return null;

4.184 Sisu-Inject-Bean : legacy wrapper 2.5.0

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 *
 */

4.188 southbound-api 1.1.0-Lithium
4.188.1 Available under license :
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4.189 southbound-impl 1.1.0-Lithium

4.189.1 Available under license :
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4.190 statistics-manager 1.1.1-Helium-SR1

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 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.FlowTableStatisticsData;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.FlowTableStatisticsDataBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsMap;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.FlowTableStatisticsUpdate;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListe
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatNotifyCommitTable
 * Class is a NotifyListener for TableStatistics
 * All expected (registered) tableStatistics will be builded and
 * commit to Operational/DataStore
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 */
public class StatNotifyCommitTable extends StatAbstractNotifyCommit<OpendaylightFlowTableStatisticsListener> implements OpendaylightFlowTableStatisticsListener {

    private final static Logger LOG = LoggerFactory.getLogger(StatNotifyCommitTable.class);

    public StatNotifyCommitTable(final StatisticsManager manager, final NotificationProviderService nps) {
        super(manager, nps);
    }

    @Override
    protected OpendaylightFlowTableStatisticsListener getStatNotificationListener() {
        return this;
    }

    @Override
    public void onFlowTableStatisticsUpdate(final FlowTableStatisticsUpdate notification) {
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
    }
}
if (! isExpectedStatistics(transId, nodeId)) {
  LOG.debug("STAT-MANAGER - FlowTableStatisticsUpdate: unregistred notification detect TransactionId ");
  transId);
  return;
}
manager.getRpcMsgManager().addNotification(notification, nodeId);
if (notification.isMoreReplies()) {
  return;
}
/* Don't block RPC Notification thread */
manager.enqueue(new StatDataStoreOperation() {
  @Override
  public void applyOperation(final ReadWriteTransaction trans) {
    final List<FlowTableAndStatisticsMap> tableStats = new ArrayList<FlowTableAndStatisticsMap>(10);
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
      .child(Node.class, new NodeKey(nodeId));
    if (txContainer.isPresent() || txContainer.get().getNodeId() == null) {
      return;
    }
    final List<? extends TransactionAware> cachedNotifs = txContainer.get().getNotifications();
    for (final TransactionAware notif : cachedNotifs) {
      if (notif instanceof FlowTableStatisticsUpdate) {
        final List<FlowTableAndStatisticsMap> statNotif =
          ((FlowTableStatisticsUpdate) notif).getFlowTableAndStatisticsMap();
        if (statNotif != null) {
          tableStats.addAll(statNotif);
        }
      }
    }
    /* write stat to trans */
    statTableCommit(tableStats, nodeIdent, trans);
    /* Notification for continue collecting statistics - Tables statistics are still same size
    * and they are small - don't need to wait to whole apply operation */
    notifyToCollectNextStatistics(nodeIdent);
  }
});
)
private void statTableCommit(final List<FlowTableAndStatisticsMap> tableStats, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {
  final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
  /* check flow Capable Node and write statistics */
  Optional<FlowCapableNode> fNode = Optional.absent();
  try {
    fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
  } catch (Exception e) {
    // handle exception
  }
  /* Notification for continue collecting statistics - Tables statistics are still same size
  * and they are small - don't need to wait to whole apply operation */
  notifyToCollectNextStatistics(nodeIdent);
}
catch (final ReadFailedException e) {
    LOG.debug("Read Operational/DS for FlowCapableNode fail! {}", fNodeIdent, e);
    return;
}

if ( ! fNode.isPresent()) {
    LOG.trace("Read Operational/DS for FlowCapableNode fail! Node {} doesn't exist.", fNodeIdent);
    return;
}

for (final FlowTableAndStatisticsMap tableStat : tableStats) {
    final InstanceIdentifier<Table> tableIdent = fNodeIdent
            .child(Table.class, new TableKey(tableStat.getTableId().getValue()));
    final Table table = new TableBuilder().setId(tableStat.getTableId().getValue()).build();
    trans.merge(LogicalDatastoreType.OPERATIONAL, tableIdent, table);
    final InstanceIdentifier<FlowTableStatisticsData> tableStatIdent = tableIdent
            .augmentation(FlowTableStatisticsData.class);
    trans.merge(LogicalDatastoreType.OPERATIONAL, tableStatIdent, new FlowTableStatisticsDataBuilder().build());

    final FlowTableStatistics stats = new FlowTableStatisticsBuilder(tableStat).build();
    final InstanceIdentifier<FlowTableStatistics> tStatIdent = tableStatIdent.child(FlowTableStatistics.class);
    trans.put(LogicalDatastoreType.OPERATIONAL, tStatIdent, stats);
}

/**
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FeatureCapability;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowFeatureCapabilityPortStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowFeatureCapabilityTableStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.node.SwitchFeatures;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatNodeRegistrationImpl
 * [FlowCapableNode] Registration Implementation contains two method for registration/unregistration
 * [FeatureCapability] for every connect/disconnect [FlowCapableNode], Process of connection/disconnection
 * is substituted by listening Operation/DS for add/delete [FeatureCapability].
 * All statistic capabilities are reading from new Node directly without contacting device or DS.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 28, 2014
 */

public class StatNodeRegistrationImpl implements StatNodeRegistration {

    private static final Logger LOG = LoggerFactory.getLogger(StatNodeRegistrationImpl.class);
    private final StatisticsManager manager;
    private ListenerRegistration<DataChangeListener> listenerRegistration;

    ...
private ListenerRegistration<?> notifListenerRegistration;

public StatNodeRegistrationImpl(final StatisticsManager manager, final DataBroker db,
    final NotificationProviderService notificationService) {
    this.manager = Preconditions.checkNotNull(manager, "StatisticManager can not be null!");
    Preconditions.checkArgument(db != null, "DataBroker can not be null!");
    Preconditions.checkArgument(notificationService != null, "NotificationProviderService can not be null!");
    notifListenerRegistration = notificationService.registerNotificationListener(this);
}

@Override
public void close() throws Exception {

    if (notifListenerRegistration != null) {
        try {
            notifListenerRegistration.close();
        } catch (final Exception e) {
            LOG.warn("Error by stop FlowCapableNode Notification StatNodeRegistration.");
        }
        notifListenerRegistration = null;
    }

    if (listenerRegistration != null) {
        try {
            listenerRegistration.close();
        } catch (final Exception e) {
            LOG.warn("Error by stop FlowCapableNode DataChange StatListeningCommiter.", e);
        }
        listenerRegistration = null;
    }
}

@Override
public void connectFlowCapableNode(final InstanceIdentifier<SwitchFeatures> keyIdent,
    final SwitchFeatures data, final InstanceIdentifier<Node> nodeIdent) {
    Preconditions.checkNotNull(keyIdent, "InstanceIdentifier can not be null!");
    Preconditions.checkNotNull(data, "SwitchFeatures data for {} can not be null!", keyIdent);
    Preconditions.checkArgument(! keyIdent.isWildcarded(), "InstanceIdentifier is WildCarded!");
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final List<StatCapabTypes> statCapabTypes = new ArrayList<>();
            Short maxCapTables = Short.valueOf("1");

            final List<? extends FeatureCapability> capabilities = data.getCapabilities() != null

? data.getCapabilities() : Collections.<Class<? extends FeatureCapability>> emptyList();
for (final Class<? extends FeatureCapability> capability : capabilities) {
    if (capability == FlowFeatureCapabilityTableStats.class) {
        statCapabTypes.add(StatCapabTypes.TABLE_STATS);
    } else if (capability == FlowFeatureCapabilityFlowStats.class) {
        statCapabTypes.add(StatCapabTypes.FLOW_STATS);
    } else if (capability == FlowFeatureCapabilityGroupStats.class) {
        statCapabTypes.add(StatCapabTypes.GROUP_STATS);
    } else if (capability == FlowFeatureCapabilityPortStats.class) {
        statCapabTypes.add(StatCapabTypes.PORT_STATS);
    } else if (capability == FlowFeatureCapabilityQueueStats.class) {
        statCapabTypes.add(StatCapabTypes.QUEUE_STATS);
    }
}
maxCapTables = data.getMaxTables();

final Optional<Short> maxTables = Optional.<Short> of(maxCapTables);

/* Meters management */
final InstanceIdentifier<NodeMeterFeatures> meterFeaturesIdent =
    nodeIdent.augmentation(NodeMeterFeatures.class);

Optional<NodeMeterFeatures> meterFeatures = Optional.absent();
try {
    meterFeatures = tx.read(LogicalDatastoreType.OPERATIONAL, meterFeaturesIdent).checkedGet();
} catch (final ReadFailedException e) {
    LOG.warn("Read NodeMeterFeatures {} fail!", meterFeaturesIdent, e);
} if (meterFeatures.isPresent()) {
    statCapabTypes.add(StatCapabTypes.METER_STATS);
}
manager.connectedNodeRegistration(nodeIdent,
    Collections.unmodifiableList(statCapabTypes), maxTables.get());
}

@Override
public void disconnectFlowCapableNode(final InstanceIdentifier<Node> nodeIdent) {
    Preconditions.checkArgument(nodeIdent != null, "InstanceIdentifier can not be NULL!");
    Preconditions.checkArgument(! nodeIdent.isWildcarded(),
        "InstanceIdentifier {} is WildCarded!", nodeIdent);
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            manager.disconnectedNodeUnregistration(nodeIdent);
        }
    });
}

@override
public void disconnectFlowCapableNode(final InstanceIdentifier<Node> nodeIdent) {
    Preconditions.checkArgument(nodeIdent != null, "InstanceIdentifier can not be NULL!");
    Preconditions.checkArgument(! nodeIdent.isWildcarded(),
        "InstanceIdentifier {} is WildCarded!", nodeIdent);
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            manager.disconnectedNodeUnregistration(nodeIdent);
        }
    });
}
@Override
public void onNodeConnectorRemoved(final NodeConnectorRemoved notification) {
    // NOOP
}

@Override
public void onNodeConnectorUpdated(final NodeConnectorUpdated notification) {
    // NOOP
}

@Override
public void onNodeRemoved(final NodeRemoved notification) {
    final NodeRef nodeRef = notification.getNodeRef();
    final InstanceIdentifier<? extends NodeRef> nodeRefIdent = nodeRef.getValue();
    final InstanceIdentifier<Node> nodeIdent =
        nodeRefIdent.firstIdentifierOf(Node.class);
    if (nodeIdent != null) {
        disconnectFlowCapableNode(nodeIdent);
    }
}

@override
public void onNodeUpdated(final NodeUpdated notification) {
    final FlowCapableNodeUpdated newFlowNode =
        notification.getAugmentation(FlowCapableNodeUpdated.class);
    if (newFlowNode != null && newFlowNode.getSwitchFeatures() != null) {
        final NodeRef nodeRef = notification.getNodeRef();
        final InstanceIdentifier<? extends NodeRef> nodeRefIdent = nodeRef.getValue();
        final InstanceIdentifier<Node> nodeIdent =
            nodeRefIdent.firstIdentifierOf(Node.class);
        final InstanceIdentifier<SwitchFeatures> switchFeaturesIdent =
            nodeIdent.augmentation(FlowCapableNode.class).child(SwitchFeatures.class);
        final SwitchFeatures switchFeatures = newFlowNode.getSwitchFeatures();
        connectFlowCapableNode(switchFeaturesIdent, switchFeatures, nodeIdent);
    }
}

/**
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.List;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.concurrent.Future;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.TimeUnit;

import org.opendaylight.controller.md.statistics.manager.StatRpcMsgManager;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.statistics.rev130819.GetAggregateFlowStatisticsFromFlowTableForAllFlowsInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GetGroupDescriptionInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GetGroupFeaturesInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.GetAllMeterConfigStatisticsInputBuilder;

public class StatRpcMsgManagerImpl implements StatRpcMsgManager {

    import com.google.common.base.Optional;
    import com.google.common.base.Preconditions;
    import com.google.common.cache.Cache;
    import com.google.common.cache.CacheBuilder;
    import com.google.common.util.concurrent.FutureCallback;
    import com.google.common.util.concurrent.Futures;
    import com.google.common.util.concurrent.JdkFutureAdapters;
    import com.google.common.util.concurrent.SettableFuture;

    /**
     * statistics-manager
     * org.opendaylight.controller.md.statistics.manager.impl
     *
     * @author avishnoi@in.ibm.com <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
     */
    public class StatRpcMsgManagerImpl {
private final static Logger LOG = LoggerFactory.getLogger(StatRpcMsgManagerImpl.class);

private final Cache<String, TransactionCacheContainer<? super TransactionAware>> txCache;

private final long maxLifeForRequest = 50; /* 50 second */
private final int queueCapacity = 5000;

private final OpendaylightGroupStatisticsService groupStatsService;
private final OpendaylightMeterStatisticsService meterStatsService;
private final OpendaylightFlowStatisticsService flowStatsService;
private final OpendaylightPortStatisticsService portStatsService;
private final OpendaylightFlowTableStatisticsService flowTableStatsService;
private final OpendaylightQueueStatisticsService queueStatsService;

private BlockingQueue<RpcJobsQueue> statsRpcJobQueue;

private volatile boolean finishing = false;

public StatRpcMsgManagerImpl (final StatisticsManager manager,
final RpcConsumerRegistry rpcRegistry, final long minReqNetMonitInt) {
    Preconditions.checkArgument(manager != null, "StatisticManager can not be null!");
    Preconditions.checkArgument(rpcRegistry != null, "RpcConsumerRegistry can not be null!");
groupStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightGroupStatisticsService.class),
    "OpendaylightGroupStatisticsService can not be null!");
meterStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightMeterStatisticsService.class),
    "OpendaylightMeterStatisticsService can not be null!");
flowStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightFlowStatisticsService.class),
    "OpendaylightFlowStatisticsService can not be null!");
portStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightPortStatisticsService.class),
    "OpendaylightPortStatisticsService can not be null!");
flowTableStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightFlowTableStatisticsService.class),
    "OpendaylightFlowTableStatisticsService can not be null!");
queueStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightQueueStatisticsService.class),
    "OpendaylightQueueStatisticsService can not be null!");

    statsRpcJobQueue = new LinkedBlockingQueue<>(queueCapacity);
    txCache = CacheBuilder.newBuilder().expireAfterWrite(maxLifeForRequest, TimeUnit.SECONDS)
    .maximumSize(10000).build();
}

@Override
public void close() {
}
finishing = true;
statsRpcJobQueue = null;
}

@Override
public void run() {
    /* Neverending cycle - wait for finishing */
    while (!finishing) {
        try {
            statsRpcJobQueue.take().call();
        } catch (final Exception e) {
            LOG.warn("Stat Element RPC executor fail!", e);
        }
    }
    // Drain all rpcCall, making sure any blocked threads are unblocked
    while (!statsRpcJobQueue.isEmpty()) {
        statsRpcJobQueue.poll();
    }
}

private void addGetAllStatJob(final RpcJobsQueue getAllStatJob) {
    final boolean success = statsRpcJobQueue.offer(getAllStatJob);
    if (!success) {
        LOG.warn("Put RPC request getAllStat fail! Queue is full.");
    }
}

private void addStatJob(final RpcJobsQueue getStatJob) {
    final boolean success = statsRpcJobQueue.offer(getStatJob);
    if (!success) {
        LOG.debug("Put RPC request for getStat fail! Queue is full.");
    }
}

@Override
public <T extends TransactionAware, D extends DataObject> void registrationRpcFutureCallBack(
        final Future<RpcResult<T>> future, final D inputObj, final NodeRef nodeRef) {

    Futures.addCallback(JdkFutureAdapters.listenInPoolThread(future),
            new FutureCallback<RpcResult<? extends TransactionAware>>() {

                @Override
                public void onSuccess(final RpcResult<? extends TransactionAware> result) {
                    final TransactionId id = result.getResult().getTransactionId();
                    if (id == null) {
                        LOG.warn("No protocol support");
                    } else {

        Futures.addCallback(JdkFutureAdapters.listenInPoolThread(future),
                new FutureCallback<RpcResult<? extends TransactionAware>>() {

                    @Override
                    public void onSuccess(final RpcResult<? extends TransactionAware> result) {
                        final TransactionId id = result.getResult().getTransactionId();
                        if (id == null) {
                            LOG.warn("No protocol support");
                        } else {
final NodeKey nodeKey = nodeRef.getValue().firstKeyOf(Node.class, NodeKey.class);
final String cacheKey = buildCacheKey(id, nodeKey.getId());
final TransactionCacheContainer<? super TransactionAware> container =
    new TransactionCacheContainerImpl<>(id, inputObj, nodeKey.getId());
txCache.put(cacheKey, container);

@Override
public void onFailure(final Throwable t) {
    LOG.warn("Response Registration for Statistics RPC call fail!", t);
}

private String buildCacheKey(final TransactionId id, final NodeId nodeId) {
    return String.valueOf(id.getValue()) + "." + nodeId.getValue();
}

@Override
public Future<Optional<TransactionCacheContainer<?>>> getTransactionCacheContainer(
    final TransactionId id, final NodeId nodeId) {
    Preconditions.checkNotNull(id, "TransactionId can not be null!");
    Preconditions.checkNotNull(nodeId, "NodeId can not be null!");

    final String key = buildCacheKey(id, nodeId);
    final SettableFuture<Optional<TransactionCacheContainer<?>>> result = SettableFuture.create();

    final RpcJobsQueue getTransactionCacheContainer = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
            final Optional<TransactionCacheContainer<?>> resultContainer =
                Optional.<TransactionCacheContainer<?>> fromNullable(txCache.getIfPresent(key));
            if (resultContainer.isPresent()) {
                txCache.invalidate(key);
            }
            result.set(resultContainer);
            return null;
        }
    };
    addStatJob(getTransactionCacheContainer);
    return result;
}

@Override
public Future<Boolean> isExpectedStatistics(final TransactionId id, final NodeId nodeId) {
Preconditions.checkArgument(id != null, "TransactionId can not be null!");
Preconditions.checkArgument(nodeId != null, "NodeId can not be null!");

final String key = buildCacheKey(id, nodeId);
final SettableFuture<Boolean> checkStatId = SettableFuture.create();

final RpcJobsQueue isExpectedStatistics = new RpcJobsQueue() {
  @Override
  public Void call() throws Exception {
    final Optional<TransactionCacheContainer<?>> result =
      Optional.<TransactionCacheContainer<?>> fromNullable(txCache.getIfPresent(key));
    checkStatId.set(Boolean.valueOf(result.isPresent()));
    return null;
  }
};
addStatJob(isExpectedStatistics);
return checkStatId;

@Override
public void addNotification(final TransactionAware notification, final NodeId nodeId) {
  Preconditions.checkArgument(notification != null, "TransactionAware can not be null!");
  Preconditions.checkArgument(nodeId != null, "NodeId can not be null!");

  final RpcJobsQueue addNotification = new RpcJobsQueue() {
    @Override
    public Void call() throws Exception {
      final TransactionId txId = notification.getTransactionId();
      final String key = buildCacheKey(txId, nodeId);
      final TransactionCacheContainer<? super TransactionAware> container = (txCache.getIfPresent(key));
      if (container != null) {
        container.addNotif(notification);
      }
      return null;
    }
  };
  addStatJob(addNotification);
  return;
}

@Override
public void getAllGroupsStat(final NodeRef nodeRef) {
  Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
  final RpcJobsQueue getAllGroupStat = new RpcJobsQueue() {
    @Override
    public Void call() throws Exception {
      final TransactionId txId = notification.getTransactionId();
      final String key = buildCacheKey(txId, nodeId);
      final TransactionCacheContainer<super TransactionAware> container = (txCache.getIfPresent(key));
      if (container != null) {
        container.addNotif(notification);
      }
      return null;
    }
  };
  addStatJob(getAllGroupStat);
  return;
}

@Override
public void getAllGroupsStat(final NodeRef nodeRef) {
final GetAllGroupStatisticsInputBuilder builder =
   new GetAllGroupStatisticsInputBuilder();
builder.setNode(nodeRef);
registrationRpcFutureCallBack(groupStatsService
   .getAllGroupStatistics(builder.build()), null, nodeRef);
return null;
};
};
addGetAllStatJob(getAllGroupStat);
}

@Override
public void getAllMetersStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllMeterStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetAllMeterStatisticsInputBuilder builder =
               new GetAllMeterStatisticsInputBuilder();
builder.setNode(nodeRef);
registrationRpcFutureCallBack(meterStatsService
               .getAllMeterStatistics(builder.build()), null, nodeRef);
return null;
        }
    };
    addGetAllStatJob(getAllMeterStat);
}

@Override
public void getAllFlowsStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllFlowStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetAllFlowsStatisticsFromAllFlowTablesInputBuilder builder =
               new GetAllFlowsStatisticsFromAllFlowTablesInputBuilder();
builder.setNode(nodeRef);
registrationRpcFutureCallBack(flowStatsService
               .getAllFlowsStatisticsFromAllFlowTables(builder.build()), null, nodeRef);
return null;
        }
    };
    addGetAllStatJob(getAllFlowStat);
}

@Override
public void getAggregateFlowStat(final NodeRef nodeRef, final TableId tableId) {
    Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
    Preconditions.checkNotNull(tableId, "TableId can not be null!");
    final RpcJobsQueue getAggregateFlowStat = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
            final GetAggregateFlowStatisticsFromFlowTableForAllFlowsInputBuilder builder =
                new GetAggregateFlowStatisticsFromFlowTableForAllFlowsInputBuilder();
            builder.setNode(nodeRef);
            builder.setTableId(tableId);

            final TableBuilder tbuilder = new TableBuilder();
            tbuilder.setId(tableId.getValue());
            tbuilder.setKey(new TableKey(tableId.getValue()));
            registrationRpcFutureCallBack(flowStatsService
                .getAggregateFlowStatisticsFromFlowTableForAllFlows(builder.build()), tbuilder.build(), nodeRef);
            return null;
        }
    };
    addGetAllStatJob(getAggregateFlowStat);
}

@Override
public void getAllPortsStat(final NodeRef nodeRef) {
    Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
    final RpcJobsQueue getAllPortsStat = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
            final GetAllNodeConnectorsStatisticsInputBuilder builder =
                new GetAllNodeConnectorsStatisticsInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(portStatsService
                .getAllNodeConnectorsStatistics(builder.build()), null, nodeRef);
            return null;
        }
    };
    addGetAllStatJob(getAllPortsStat);
}

@Override
public void getAllTablesStat(final NodeRef nodeRef) {
    Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
    final RpcJobsQueue getAllTableStat = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
            final GetAllNodeConnectorsStatisticsInputBuilder builder =
                new GetAllNodeConnectorsStatisticsInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(portStatsService
                .getAllNodeConnectorsStatistics(builder.build()), null, nodeRef);
            return null;
        }
    };
    addGetAllStatJob(getAllTableStat);
}

@Override
public void getAllTablesStat(final NodeRef nodeRef) {
    Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
    final RpcJobsQueue getAllTableStat = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
final GetFlowTablesStatisticsInputBuilder builder =
    new GetFlowTablesStatisticsInputBuilder();
builder.setNode(nodeRef);
registrationRpcFutureCallBack(flowTableStatsService
    .getFlowTablesStatistics(builder.build()), null, nodeRef);
return null;
};
addGetAllStatJob(getAllTableStat);

@Override
public void getAllQueueStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllQueueStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetAllQueuesStatisticsFromAllPortsInputBuilder builder =
                new GetAllQueuesStatisticsFromAllPortsInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(queueStatsService
                .getQueuesStatisticsFromAllPorts(builder.build()), null, nodeRef);
            return null;
        }
    };;
    addGetAllStatJob(getAllQueueStat);
}

@Override
public void getAllMeterConfigStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllMeterConfStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetAllMeterConfigStatisticsInputBuilder builder =
                new GetAllMeterConfigStatisticsInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(meterStatsService
                .getMeterConfigStatistics(builder.build()), null, nodeRef);
            return null;
        }
    };;
    addGetAllStatJob(getAllMeterConfStat);
}
public void getGroupFeaturesStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getGroupFeaturesStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            /* RPC input */
            final GetGroupFeaturesInputBuilder input = new GetGroupFeaturesInputBuilder();
            input.setNode(nodeRef);
            registrationRpcFutureCallBack(groupStatsService.getGroupFeatures(input.build()), null, nodeRef);
            return null;
        }
    };
    addStatJob(getGroupFeaturesStat);
}

@Override
public void getMeterFeaturesStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getMeterFeaturesStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            /* RPC input */
            final GetMeterFeaturesInputBuilder input = new GetMeterFeaturesInputBuilder();
            input.setNode(nodeRef);
            registrationRpcFutureCallBack(meterStatsService.getMeterFeatures(input.build()), null, nodeRef);
            return null;
        }
    };
    addStatJob(getMeterFeaturesStat);
}

@Override
public void getAllGroupsConfStats(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllGropConfStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
            final GetGroupDescriptionInputBuilder builder =
                    new GetGroupDescriptionInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(groupStatsService.getGroupDescription(builder.build()), null, nodeRef);
            return null;
        }
    };
    addStatJob(getAllGropConfStat);
}

@Override
public void getGroupFeaturesStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getGroupFeaturesStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            /* RPC input */
            final GetGroupFeaturesInputBuilder input = new GetGroupFeaturesInputBuilder();
            input.setNode(nodeRef);
            registrationRpcFutureCallBack(groupStatsService.getGroupFeatures(input.build()), null, nodeRef);
            return null;
        }
    };
    addStatJob(getGroupFeaturesStat);
}

@Override
public void getMeterFeaturesStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getMeterFeaturesStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            /* RPC input */
            final GetMeterFeaturesInputBuilder input = new GetMeterFeaturesInputBuilder();
            input.setNode(nodeRef);
            registrationRpcFutureCallBack(meterStatsService.getMeterFeatures(input.build()), null, nodeRef);
            return null;
        }
    };
    addStatJob(getMeterFeaturesStat);
}

@Override
public void getAllGroupsConfStats(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllGropConfStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
            final GetGroupDescriptionInputBuilder builder =
                    new GetGroupDescriptionInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(groupStatsService.getGroupDescription(builder.build()), null, nodeRef);
            return null;
        }
    };
    addStatJob(getAllGropConfStat);
}
```java
public class TransactionCacheContainerImpl<T extends TransactionAware> implements TransactionCacheContainer<T> {

    private final TransactionId id;
    private final NodeId nId;
    private final List<T> notifications;
    private final Optional<? extends DataObject> confInput;

    public <D extends DataObject> TransactionCacheContainerImpl (final TransactionId id, final D input, final NodeId nodeId) {
        this.id = Preconditions.checkNotNull(id, "TransactionId can not be null!");
        notifications = new CopyOnWriteArrayList<T>();
        confInput = Optional.fromNullable(input);
        nId = nodeId;
    }

    @Override
    public void addNotif(final T notif) {
        notifications.add(notif);
    }

    @Override
    public TransactionId getId() {
        return id;
    }

    @Override
    public NodeId getNodeId() {
        return nId;
    }

    @Override
    public List<T> getNotifications() {
        return notifications;
    }

    @Override
    public Optional<? extends DataObject> getConfInput() {
        return confInput;
    }
}
```
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GroupDescStatsUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GroupFeaturesUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GroupStatisticsUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.NodeGroupDescStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.NodeGroupDescStatsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.NodeGroupFeatures;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.group.desc.stats.reply.GroupDescStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.group.statistics.reply.GroupStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.GroupBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.GroupKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * *
 * StatListenCommitGroup
 * Class is a NotifyListener for GroupStatistics and DataChangeListener for Config/DataStore for Group node.
 * * All expected (registered) GroupStatistics will be builded and commit to Operational/DataStore.
 * * DataChangeEven should call create/delete Group in Operational/DS
 * *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 * *
 */

public class StatListenCommitGroup extends StatAbstractListenCommit<Group,
OpendaylightGroupStatisticsListener>
    implements OpendaylightGroupStatisticsListener {

    private static final Logger LOG = LoggerFactory.getLogger(StatListenCommitMeter.class);

    public StatListenCommitGroup(final StatisticsManager manager, final DataBroker db,
    final NotificationProviderService nps) {
        super(manager, db, nps, Group.class);
    }

    @Override
    protected OpendaylightGroupStatisticsListener getStatNotificationListener() {
        return this;
    }

    @Override
    protected InstanceIdentifier<Group> getWildCardedRegistrationPath() {
        return InstanceIdentifier.create(Nodes.class).child(Node.class)
            .augmentation(FlowCapableNode.class).child(Group.class);
    }

    @Override
    protected InstanceIdentifier<Group> getWildCardedRegistrationPath() {
        return InstanceIdentifier.create(Nodes.class).child(Node.class)
            .augmentation(FlowCapableNode.class).child(Group.class);
    }

    @Override
    public void onGroupDescStatsUpdated(final GroupDescStatsUpdated notification) {
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
    }
}
if (!isExpectedStatistics(transId, nodeId)) {
    LOG.debug("STAT-MANAGER - GroupDescStatsUpdated: unregistered notification detect TransactionId {}", transId);
    return;
}
if (notification.isMoreReplies()) {
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    return;
}
final List<GroupDescStats> groupStats = notification.getGroupDescStats() != null
    ? new ArrayList<>(notification.getGroupDescStats()) : new ArrayList<GroupDescStats>(10);
fine Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
if (txContainer.isPresent()) {
    final List<? extends TransactionAware> cacheNotifs =
        txContainer.get().getNotifications();
    for (final TransactionAware notif : cacheNotifs) {
        if (notif instanceof GroupDescStatsUpdated) {
            groupStats.addAll(((GroupDescStatsUpdated) notif).getGroupDescStats());
        }
    }
}
final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier
    .create(Nodes.class).child(Node.class, new NodeKey(nodeId));
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        statGroupDescCommit(groupStats, nodeIdent, tx);
        /* Notification for continue collecting statistics */
        notifyToCollectNextStatistics(nodeIdent);
    }
    });
}

@Override
public void onGroupFeaturesUpdated(final GroupFeaturesUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - MeterFeaturesUpdated: unregistered notification detect TransactionId {}", transId);
        return;
    }
    if (notification.isMoreReplies()) {
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        return;
    }
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (!txContainer.isPresent()) {

return;
}
final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier
   .create(Nodes.class).child(Node.class, new NodeKey(nodeId));

manager.enqueue(new StatDataStoreOperation() {
   @Override
   public void applyOperation(final ReadWriteTransaction tx) {
      notifyToCollectNextStatistics(nodeIdent);
      final GroupFeatures stats = new GroupFeaturesBuilder(notification).build();
      final InstanceIdentifier<GroupFeatures> groupFeatureIdent = nodeIdent
         .augmentation(NodeGroupFeatures.class).child(GroupFeatures.class);
      Optional<Node> node = Optional.absent();
      try {
         node = tx.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
      } catch (final ReadFailedException e) {
         LOG.debug("Read Operational/DS for Node fail! {}", nodeIdent, e);
      }
      if (node.isPresent()) {
         tx.put(LogicalDatastoreType.OPERATIONAL, groupFeatureIdent, stats);
      }
   }
});

@Override
public void onGroupStatisticsUpdated(final GroupStatisticsUpdated notification) {
   final TransactionId transId = notification.getTransactionId();
   final NodeId nodeId = notification.getId();
   if ( ! isExpectedStatistics(transId, nodeId)) {
      LOG.debug("STAT-MANAGER - GroupStatisticsUpdated: unregistred notification detect TransactionId [ {}",
         transId);
      return;
   }
   if (notification.isMoreReplies()) {
      manager.getRpcMsgManager().addNotification(notification, nodeId);
      return;
   }
   final List<GroupStats> groupStats = notification.getGroupStats() != null
      ? new ArrayList<>(notification.getGroupStats()) : new ArrayList<GroupStats>(10);
   Optional<Group> notifGroup = Optional.absent();
   final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
   if (txContainer.isPresent()) {
      final Optional<? extends DataObject> inputObj = txContainer.get().getConfInput();
      if (inputObj.isPresent() && inputObj.get() instanceof Group) {
         notifGroup = Optional.<Group> of((Group)inputObj.get());
      }
final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
for (final TransactionAware notif : cacheNotifs) {
    if (notif instanceof GroupStatisticsUpdated) {
        groupStats.addAll(((GroupStatisticsUpdated) notif).getGroupStats());
    }
}
final Optional<Group> group = notifGroup;
final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class).child(Node.class, new NodeKey(nodeId));
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        /* Notification for continue collecting statistics */
        if ( ! group.isPresent()) {
            notifyToCollectNextStatistics(nodeIdent);
        }
        statGroupCommit(groupStats, nodeIdent, group, tx);
    }
});
}
private void statGroupCommit(final List<GroupStats> groupStats, final InstanceIdentifier<Node> nodeIdent,
final Optional<Group> group, final ReadWriteTransaction trans) {
for (final GroupStats groupStat : groupStats) {
    final GroupStatistics stats = new GroupStatisticsBuilder(groupStat).build();
    final GroupKey groupKey = new GroupKey(groupStat.getGroupId());
    final InstanceIdentifier<GroupStatistics> gsIdent = nodeIdent.augmentation(NodeGroupStatistics.class)
.child(GroupStatistics.class);
    /* Statistics Writing */
    Optional<FlowCapableNode> fNode = Optional.absent();
    try {
        fNode = trans.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
    } catch (final ReadFailedException e) {
        LOG.debug("Read Operational/DS for FlowCapableNode fail! ", fNodeIdent, e);
    }
    if (fNode.isPresent()) {
        trans.put(LogicalDatastoreType.OPERATIONAL, gsIdent, stats);
    }
}
}
```java
private void statGroupDescCommit(final List<GroupDescStats> groupStats, final InstanceIdentifier<Node> nodeIdent,
final ReadWriteTransaction trans) {
final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
final List<GroupKey> deviceGroupKeys = new ArrayList<>();

for (final GroupDescStats group : groupStats) {
    if (group.getGroupId() != null) {
        final GroupBuilder groupBuilder = new GroupBuilder(group);
        final GroupKey groupKey = new GroupKey(group.getGroupId());
        final InstanceIdentifier<Group> groupRef = fNodeIdent.child(Group.class, groupKey);

        final NodeGroupDescStatsBuilder groupDesc = new NodeGroupDescStatsBuilder();
        groupDesc.setGroupDesc(new GroupDescBuilder(group).build());
        // Update augmented data
        groupBuilder.addAugmentation(NodeGroupDescStats.class, groupDesc.build());
        deviceGroupKeys.add(groupKey);
        Optional<FlowCapableNode> hashIdUpd = Optional.absent();
        try {
            hashIdUpd = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
        } catch (final ReadFailedException e) {
            LOG.debug("Read Operational/DS for FlowCapableNode fail! ", fNodeIdent, e);
        }
        if (hashIdUpd.isPresent()) {
            trans.put(LogicalDatastoreType.OPERATIONAL, groupRef, groupBuilder.build());
        }
    }
}
/* Delete all not presented Group Nodes */
deleteAllNotPresentNode(fNodeIdent, trans, deviceGroupKeys);
}

private void deleteAllNotPresentNode(final InstanceIdentifier<FlowCapableNode> fNodeIdent,
final ReadWriteTransaction trans, final List<GroupKey> deviceGroupKeys) {

final Optional<FlowCapableNode> fNode = readLatestConfiguration(fNodeIdent);
if (! fNode.isPresent()) {
    LOG.trace("Read Operational/DS for FlowCapableNode fail! Node {} doesn't exist.", fNodeIdent);
    return;
}
final List<Group> existGroups = fNode.get().getGroup() != null
? fNode.get().getGroup() : Collections.<Group> emptyList();
/* Add all existed groups paths - no updated paths has to be removed */
for (final Group group : existGroups) {
    if (deviceGroupKeys.remove(group.getKey())) {
        break; // group still exist on device
    }
}
```

LOG.trace("Group {} has to removed.", group);
final InstanceIdentifier<Group> delGroupIdent = fNodeIdent.child(Group.class, group.getKey());
Optional<Group> delGroup = Optional.absent();
try {
    delGroup = trans.read(LogicalDatastoreType.OPERATIONAL, delGroupIdent).checkedGet();
} catch (final ReadFailedException e) {
    // NOOP - probably another transaction delete that node
}
if (delGroup.isPresent()) {
    trans.delete(LogicalDatastoreType.OPERATIONAL, delGroupIdent);
}
}
import org.opendaylight.yang.gen.v1.urn.opendaylight.queue.statistics.rev131216.queue.id.and.statistics.map.QueueIdAndStatisticsMap;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 * *
 */
public class StatListenCommitQueue extends StatAbstractListenCommit<Queue,
OpendaylightQueueStatisticsListener>
    implements OpendaylightQueueStatisticsListener {

    private final static Logger LOG = LoggerFactory.getLogger(StatListenCommitQueue.class);

    public StatListenCommitQueue(final StatisticsManager manager, final DataBroker db,
        final NotificationProviderService nps) {
        super(manager, db, nps, Queue.class);
    }

    @Override
protected OpendaylightQueueStatisticsListener getStatNotificationListener() {
    return this;
}

@override
protected InstanceIdentifier<Queue> getWildCardedRegistrationPath() {
    return InstanceIdentifier.create(Nodes.class).child(Node.class).child(NodeConnector.class)
        .augmentation(FlowCapableNodeConnector.class).child(Queue.class);
}

@override
public void onQueueStatisticsUpdate(final QueueStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - QueueStatisticsUpdate: unregistered notification detect TransactionId {}", transId);
        return;
    }
    if (notification.isMoreReplies()) {
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        return;
    }
    final List<QueueIdAndStatisticsMap> queueStats = notification.getQueueIdAndStatisticsMap() != null
        ? new ArrayList<>(notification.getQueueIdAndStatisticsMap()) : new ArrayList<>(10);
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (txContainer.isPresent()) {
        final List<? extends TransactionAware> cachedNotifs =
            txContainer.get().getNotifications();
        for (final TransactionAware notif : cachedNotifs) {
            if (notif instanceof QueueStatisticsUpdate) {
                queueStats.addAll(((QueueStatisticsUpdate) notif).getQueueIdAndStatisticsMap());
            }
        }
    }
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
        .child(Node.class, new NodeKey(nodeId));
    /* Queue statistics are small size and we are not able to change for OF cross controller */
    /* - don't need to make are atomic */
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction trans) {
            /* Notification for continue */
            notifyToCollectNextStatistics(nodeIdent);
            statQueueCommit(queueStats, nodeIdent, trans);
        }
    });
private void statQueueCommit(final List<QueueIdAndStatisticsMap> queueStats, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {

/* check exist FlowCapableNode and write statistics */
Optional<Node> fNode = Optional.absent();
try {
    fNode = trans.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
} catch (final ReadFailedException e) {
    LOG.debug("Read Operational/DS for Node fail! {}", nodeIdent, e);
    return;
}
if ( ! fNode.isPresent()) {
    LOG.trace("Read Operational/DS for Node fail! Node {} doesn't exist.", nodeIdent);
    return;
}
for (final QueueIdAndStatisticsMap queueEntry : queueStats) {
    final FlowCapableNodeConnectorQueueStatistics statChild =
        new FlowCapableNodeConnectorQueueStatisticsBuilder(queueEntry).build();
    final FlowCapableNodeConnectorQueueStatisticsDataBuilder statBuild =
        new FlowCapableNodeConnectorQueueStatisticsDataBuilder();
    statBuild.setFlowCapableNodeConnectorQueueStatistics(statChild);
    final QueueKey qKey = new QueueKey(queueEntry.getQueueId());
    final InstanceIdentifier<FlowCapableNodeConnectorQueueStatisticsData> queueStatIdent = nodeIdent
        .child(NodeConnector.class, new NodeConnectorKey(queueEntry.getNodeConnectorId()))
        .augmentation(FlowCapableNodeConnector.class)
        .child(Queue.class, qKey).augmentation(FlowCapableNodeConnectorQueueStatisticsData.class);
    trans.put(LogicalDatastoreType.OPERATIONAL, queueStatIdent, statBuild.build());
}

}/**
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 * 
 * This program and the accompanying materials are made available under the 
 * terms of the Eclipse Public License v1.0 which accompanies this distribution, 
 * and is available at http://www.eclipse.org/legal/epl-v10.html 
 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.LinkedBlockingDeque;
import java.util.concurrent.ThreadFactory;
import org.opendaylight.controller.md.sal.binding.api.BindingTransactionChain;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.binding.api.common.api.data.AsyncTransaction;
import org.opendaylight.controller.md.sal.common.api.data.TransactionChain;
import org.opendaylight.controller.md.statistics.manager.StatListeningCommiter;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatNotifyCommiter;
import org.opendaylight.controller.md.statistics.manager.StatPermCollector;
import org.opendaylight.controller.md.statistics.manager.StatsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.ThreadFactoryBuilder;

/**
 * statistics-manager
 * @org.opendaylight.controller.md.statistics.manager.impl
 */

import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.LinkedBlockingDeque;
import java.util.concurrent.ThreadFactory;
import org.opendaylight.controller.md.sal.binding.api.BindingTransactionChain;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.binding.api.common.api.data.AsyncTransaction;
import org.opendaylight.controller.md.sal.common.api.data.TransactionChain;
import org.opendaylight.controller.md.statistics.manager.StatListeningCommiter;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatNotifyCommiter;
import org.opendaylight.controller.md.statistics.manager.StatPermCollector;
import org.opendaylight.controller.md.statistics.manager.StatsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.ThreadFactoryBuilder;

/**
 * statistics-manager
 * @org.opendaylight.controller.md.statistics.manager.impl
 */
* It represent a central point for whole module. Implementation
* [ @link StatisticsManager ] registers all Operation/DS [ @link StatNotifyCommitter ] and
* Config/DS [ @StatListeningCommitter ], as well as [ @link StatPermCollector ]
* for statistic collecting and [ @link StatRpcMsgManager ] as Device RPCs provider.
* In next, StatisticsManager provides all DS contact Transaction services.
*
* @author avishnoi@in.ibm.com <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
*
*
public class StatisticsManagerImpl implements StatisticsManager, Runnable {

    private final static Logger LOG = LoggerFactory.getLogger(StatisticsManagerImpl.class);

    private static final int QUEUE_DEPTH = 5000;
    private static final int MAX_BATCH = 100;

    private final BlockingQueue<StatDataStoreOperation> dataStoreOperQueue = new
LinkedBlockingDeque<>(QUEUE_DEPTH);

    private final DataBroker dataBroker;
    private final int maxNodesForCollectors;
    private long minReqNetMonitInt;
    private final ExecutorService statRpcMsgManagerExecutor;
    private final ExecutorService statDataStoreOperationServ;
    private final StatRpcMsgManager rpcMsgManager;
    private final List<StatPermCollector> statCollectors;
    private final Object statCollectorLock = new Object();
    private BindingTransactionChain txChain;
    private volatile boolean finishing = false;
    private final Object nodeRegistrator = new Object();

    public StatisticsManagerImpl (final DataBroker dataBroker, final int maxNodesForCollector) {
        this.dataBroker = Preconditions.checkNotNull(dataBroker, "DataBroker can not be null!");
        ThreadFactory threadFact;
        threadFact = new ThreadFactoryBuilder().setNameFormat("odl-stat-rpc-oper-thread-%d").build();
        statRpcMsgManagerExecutor = Executors.newSingleThreadExecutor(threadFact);
        threadFact = new ThreadFactoryBuilder().setNameFormat("odl-stat-ds-oper-thread-%d").build();
        statDataStoreOperationServ = Executors.newSingleThreadExecutor(threadFact);
        maxNodesForCollectors = maxNodesForCollector;
        txChain =  dataBroker.createTransactionChain(this);
    }

    public void run() {
        // Implementation...
    }

}
@Override
public void start(final NotificationProviderService notifService,
                   final RpcConsumerRegistry rpcRegistry, final long minReqNetMonitInt) {
    Preconditions.checkArgument(rpcRegistry != null, "RpcConsumerRegistry can not be null !");
    this.minReqNetMonitInt = minReqNetMonitInt;
    rpcMsgManager = new StatRpcMsgManagerImpl(this, rpcRegistry, minReqNetMonitInt);
    statCollectors = Collections.emptyList();
    nodeRegistrator = new StatNodeRegistrationImpl(this, dataBroker, notifService);
    flowListeningCommiter = new StatListenCommitFlow(this, dataBroker, notifService);
    meterListeningCommiter = new StatListenCommitMeter(this, dataBroker, notifService);
    groupListeningCommiter = new StatListenCommitGroup(this, dataBroker, notifService);
    tableNotifCommiter = new StatNotifyCommitTable(this, notifService);
    portNotifyCommitter = new StatNotifyCommitPort(this, notifService);
    queueNotifyCommitter = new StatListenCommitQueue(this, dataBroker, notifService);

    statRpcMsgManagerExecutor.execute(rpcMsgManager);
    statDataStoreOperationServ.execute(this);
    LOG.info("Statistics Manager started successfully!");
}

@Override
public void close() throws Exception {
    finishing = true;
    if (nodeRegistrator != null) {
        nodeRegistrator.close();
        nodeRegistrator = null;
    }

    if (flowListeningCommiter != null) {
        flowListeningCommiter.close();
        flowListeningCommiter = null;
    }

    if (meterListeningCommiter != null) {
        meterListeningCommiter.close();
        meterListeningCommiter = null;
    }

    if (groupListeningCommiter != null) {
        groupListeningCommiter.close();
        groupListeningCommiter = null;
    }

    if (tableNotifCommiter != null) {
        tableNotifCommiter.close();
        tableNotifCommiter = null;
    }

    if (portNotifyCommitter != null) {
        portNotifyCommitter.close();
        portNotifyCommitter = null;
    }
}
if (queueNotifyCommier != null) {
    queueNotifyCommier.close();
    queueNotifyCommier = null;
}
if (statCollectors != null) {
    for (StatPermCollector collector : statCollectors) {
        collector.close();
        collector = null;
    }
    statCollectors = null;
}
if (rpcMsgManager != null) {
    rpcMsgManager.close();
    rpcMsgManager = null;
}
statRpcMsgManagerExecutor.shutdown();
statDataStoreOperationServ.shutdown();
if (txChain != null) {
    txChain.close();
    txChain = null;
}
}

@Override
public void enqueue(final StatDataStoreOperation op) {
    // we don't need to block anything - next statistics come soon
    final boolean success = dataStoreOperQueue.offer(op);
    if ( ! success) {
        LOG.debug("Stat DS/Operational submiter Queue is full!");
    }
}

@Override
public void run() {
    /* Neverending cycle - wait for finishing */
    while ( ! finishing) {
        try {
            StatDataStoreOperation op = dataStoreOperQueue.take();
            final ReadWriteTransaction tx = txChain.newReadWriteTransaction();
            LOG.trace("New operations available, starting transaction {}", tx.getIdentifier());

            int ops = 0;
            do {
                op.applyOperation(tx);
                ops++;
                if (ops < MAX_BATCH) {
                    op = dataStoreOperQueue.poll();
                }
            } while (ops < MAX_BATCH);
        } finally {
            txChain.close();
            txChain = null;
        }
    }
}
else {
    op = null;
}
while (op != null);

LOG.trace("Processed {} operations, submitting transaction {}", ops, tx.getIdentifier());

    tx.submit().checkedGet();
} catch (final InterruptedException e) {
    LOG.warn("Stat Manager DS Operation thread interrupted!", e);
    finishing = true;
} catch (final Exception e) {
    LOG.warn("Unhandled exception during processing statistics. Restarting transaction chain.", e);
    txChain.close();
    txChain = dataBroker.createTransactionChain(StatisticsManagerImpl.this);
    cleanDataStoreOperQueue();
}
// Drain all events, making sure any blocked threads are unblocked
    cleanDataStoreOperQueue();
}

private synchronized void cleanDataStoreOperQueue() {
    // Drain all events, making sure any blocked threads are unblocked
    while (!dataStoreOperQueue.isEmpty()) {
        dataStoreOperQueue.poll();
    }

    @Override
    public void onTransactionChainFailed(final TransactionChain<?, ?> chain, final AsyncTransaction<?, ?> transaction,
        final Throwable cause) {
        LOG.warn("Failed to export Flow Capable Statistics, Transaction {} failed.", transaction.getIdentifier(), cause);
    }

    @Override
    public void onTransactionChainSuccessful(final TransactionChain<?, ?> chain) {
        // NOOP
    }

    @Override
    public boolean isProvidedFlowNodeActive(final InstanceIdentifier<Node> nodeIdent) {
        for (final StatPermCollector collector : statCollectors) {
            if (collector.isProvidedFlowNodeActive(nodeIdent)) {
                return true;
            }
        }
    }
@Override
public void collectNextStatistics(final InstanceIdentifier<Node> nodeIdent) {
    for (final StatPermCollector collector : statCollectors) {
        if (collector.isProvidedFlowNodeActive(nodeIdent)) {
            collector.collectNextStatistics();
        }
    }
}

@Override
public void connectedNodeRegistration(final InstanceIdentifier<Node> nodeIdent, final List<StatCapabTypes> statTypes, final Short nrOfSwitchTables) {
    for (final StatPermCollector collector : statCollectors) {
        if (collector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables)) {
            return;
        }
    }
    synchronized (statCollectorLock) {
        for (final StatPermCollector collector : statCollectors) {
            if (collector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables)) {
                return;
            }
        }
        final StatPermCollectorImpl newCollector = new StatPermCollectorImpl(this, minReqNetMonitInt, statCollectors.size() + 1, maxNodesForCollectors);
        final List<StatPermCollector> statCollectorsNew = new ArrayList<>(statCollectors);
        newCollector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables);
        statCollectorsNew.add(newCollector);
        statCollectors = Collections.unmodifiableList(statCollectorsNew);
    }
}

@Override
public void disconnectedNodeUnregistration(final InstanceIdentifier<Node> nodeIdent) {
    flowListeningCommiter.cleanForDisconnect(nodeIdent);
    for (final StatPermCollector collector : statCollectors) {
        if (collector.disconnectedNodeUnregistration(nodeIdent)) {
            if (collector.hasActiveNodes()) {
                synchronized (statCollectorLock) {
                    if (collector.hasActiveNodes()) {
                        return;
                    }
                }
                final List<StatPermCollector> newStatColl =
                    new ArrayList<>(statCollectors);
            }
        }
    }
}
newStatColl.remove(collector);
    statCollectors = Collections.unmodifiableList(newStatColl);
    }
    }
    return;
    }
    }
    LOG.debug("Node {} has not removed.", nodeIdent);
    }

    /* Getter internal Statistic Manager Job Classes */
    @Override
    public StatRpcMsgManager getRpcMsgManager() {
        return rpcMsgManager;
    }
    
    @Override
    public StatNodeRegistration getNodeRegistrator() {
        return nodeRegistrator;
    }
    
    @Override
    public StatListeningCommiter<Flow, OpendaylightFlowStatisticsListener> getFlowListenComit() {
        return flowListeningCommiter;
    }
    
    @Override
    public StatListeningCommiter<Meter, OpendaylightMeterStatisticsListener> getMeterListenCommit() {
        return meterListeningCommiter;
    }
    
    @Override
    public StatListeningCommiter<Group, OpendaylightGroupStatisticsListener> getGroupListenCommit() {
        return groupListeningCommiter;
    }
    
    @Override
    public StatListeningCommiter<Queue, OpendaylightQueueStatisticsListener> getQueueNotifyCommit() {
        return queueNotifyCommiter;
    }
    
    @Override
    public StatNotifyCommiter<OpendaylightFlowTableStatisticsListener> getTableNotifCommit() {
        return tableNotifCommiter;
    }
    
    @Override
public StatNotifyCommiter<OpendaylightPortStatisticsListener> getPortNotifyCommit() {
    return portNotifyCommiter;
}

/**
 * Copyright (c) 2014 Cisco Systems, Inc. and others. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatListeningCommiter;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatAbstractListeneningCommiter
 * Class is abstract implementation for all Configuration/DataStore DataChange
 * listenable DataObjects like flows, groups, meters. It is a holder for common
 * functionality needed by construction/destruction class and for DataChange
 * event processing.
 */
public abstract class StatAbstractListenCommit<T extends DataObject, N extends NotificationListener>
   extends StatAbstractNotifyCommit<N> implements StatListeningCommiter<T, N> {

private static final Logger LOG = LoggerFactory.getLogger(StatAbstractListenCommit.class);

private ListenerRegistration<DataChangeListener> listenerRegistration;

protected final Map<InstanceIdentifier<Node>, Map<InstanceIdentifier<T>, Integer>> mapNodesForDelete =
new ConcurrentHashMap<>();

private final Class<T> clazz;
private final DataBroker dataBroker;
private volatile ReadOnlyTransaction currentReadTx;

/* Constructor has to make a registration */
public StatAbstractListenCommit(final StatisticsManager manager, final DataBroker db,
final NotificationProviderService nps, final Class<T> clazz) {
   super(manager, nps);
   this.clazz = Preconditions.checkNotNull(clazz, "Referenced Class can not be null");
   Preconditions.checkArgument(db != null, "DataBroker can not be null!");
   listenerRegistration = db.registerDataChangeListener(LogicalDatastoreType.CONFIGURATION,
      getWildCardedRegistrationPath(), this, DataChangeScope.BASE);
   this.dataBroker = db;
}

/**
 * Method returns WildCarded Path which is used for registration as a listening path changes in
 * @link org.opendaylight.controller.md.sal.binding.api.DataChangeListener
 * @return
 */
protected abstract InstanceIdentifier<T> getWildCardedRegistrationPath();

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> changeEvent) {
   Preconditions.checkNotNull(changeEvent, "Async ChangeEvent can not be null!");
   if(currentReadTx != null) {
      final ReadOnlyTransaction previous = currentReadTx;
      currentReadTx = null;
      previous.close();
   }
}
@SuppressWarnings("unchecked")
protected void removeData(final InstanceIdentifier<?> key, final Integer value) {
    if (clazz.equals(key.getTargetType())) {
        final InstanceIdentifier<Node> nodeIdent = key.firstIdentifierOf(Node.class);
        Map<InstanceIdentifier<T>, Integer> map = null;
        if (mapNodesForDelete.containsKey(nodeIdent)) {
            map = mapNodesForDelete.get(nodeIdent);
        }
        if (map == null) {
            map = new ConcurrentHashMap<>();
            mapNodesForDelete.put(nodeIdent, map);
        }
        map.put((InstanceIdentifier<T>) key, value);
    }
}

@Override
public void cleanForDisconnect(final InstanceIdentifier<Node> nodeIdent) {
    mapNodesForDelete.remove(nodeIdent);
}

@Override
public void close() {
    if (listenerRegistration != null) {
        try {
            listenerRegistration.close();
        } catch (final Exception e) {
            LOG.error("Error by stop {} DataChange StatListeningCommitter.", clazz.getSimpleName(), e);
        }
        listenerRegistration = null;
    }
}

protected final <K extends DataObject> Optional<K> readLatestConfiguration(final InstanceIdentifier<K> path) {
    if (currentReadTx == null) {
        currentReadTx = dataBroker.newReadOnlyTransaction();
    }
    try {
        return currentReadTx.read(LogicalDatastoreType.CONFIGURATION, path).checkedGet();
    } catch (final ReadFailedException e) {
        return Optional.absent();
    }
}
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.atomic.AtomicInteger;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.md.statistics.manager.impl.helper.FlowComparator;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowHashIdMapping;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowHashIdMappingBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yanggen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.collect.BiMap;
import com.google.common collect.HashBiMap;

/**
 * statistics-manager
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 */

public class StatListenCommitFlow extends StatAbstractListenCommit<Flow, OpendaylightFlowStatisticsListener>
implements OpendaylightFlowStatisticsListener {

protected static final Logger LOG = LoggerFactory.getLogger(StatListenCommitFlow.class);

private static final String ALIEN_SYSTEM_FLOW_ID = "#UF$TABLE*";

private static final Integer REMOVE_AFTER_MISSING_COLLECTION = 1;

private final AtomicInteger unaccountedFlowsCounter = new AtomicInteger(0);

public StatListenCommitFlow (final StatisticsManager manager, final DataBroker db,
        final NotificationProviderService nps) {
    super(manager, db, nps, Flow.class);
}

@Override
protected OpendaylightFlowStatisticsListener getStatNotificationListener() {
    return this;
}

@Override
protected InstanceIdentifier<Flow> getWildCardedRegistrationPath() {
    return InstanceIdentifier.create(Nodes.class).child(Node.class)
            .augmentation(FlowCapableNode.class).child(Table.class).child(Flow.class);
}

@Override
public void onAggregateFlowStatisticsUpdate(final AggregateFlowStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if ( ! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - AggregateFlowStatisticsUpdate: unregistred notification detect
TransactionId {}", transId);
        return;
    }

    manager.getRpcMsgManager().addNotification(notification, nodeId);
    if (notification.isMoreReplies()) {
        return;
    }

    /* check flow Capable Node and write statistics */
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
            if (( ! txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
                return;
            }

            manager.getRpcMsgManager().addNotification(notification, nodeId);
            if (notification.isMoreReplies()) {
                return;
            }

            /* check flow Capable Node and write statistics */
            manager.enqueue(new StatDataStoreOperation() {
                @Override
                public void applyOperation(final ReadWriteTransaction tx) {
                    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
                    if (( ! txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
                        return;
                    }
                }
            });
    });
}

/* check flow Capable Node and write statistics */
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
        if (( ! txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
            return;
        }
    }
});
final Optional<? extends DataObject> inputObj = txContainer.get().getConfInput();
if ((( ! inputObj.isPresent()) || (! (inputObj.get() instanceof Table))) ) {
    return;
}

final Table table = (Table) inputObj.get();
final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
for (final TransactionAware notif : cacheNotifs) {
    if (notif instanceof AggregateFlowStatisticsUpdate) {
        final AggregateFlowStatisticsData stats = new AggregateFlowStatisticsDataBuilder()
        final InstanceIdentifier<FlowCapableNode> fNodeIdent = InstanceIdentifier.create(Nodes.class)
            .child(Node.class, new NodeKey(nodeId)).augmentation(FlowCapableNode.class);
        final InstanceIdentifier<Table> tableRef = fNodeIdent.child(Table.class, table.getKey());
        final InstanceIdentifier<AggregateFlowStatisticsData> tableStatRef = tableRef
            .augmentation(AggregateFlowStatisticsData.class);
        Optional<FlowCapableNode> fNode = Optional.absent();
        try {
            fNode = tx.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
            catch (final ReadFailedException e) {
                LOG.debug("Read Operational/DS for FlowCapableNode fail! ", fNodeIdent, e);
                return;
            }
            if (fNode.isPresent()) {
                ensureTable(tx, table.getId(), tableRef);
                tx.put(LogicalDatastoreType.OPERATIONAL, tableStatRef, stats);
            }
        }
        }
    }
}

public void ensureTable(final ReadWriteTransaction tx, final Short tableId, final InstanceIdentifier<Table> tableRef) {
    final Table tableNew = new TableBuilder().setId(tableId).build();
    tx.merge(LogicalDatastoreType.OPERATIONAL, tableRef, tableNew);
}

@Override
public void onFlowsStatisticsUpdate(final FlowsStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - FlowsStatisticsUpdate: unregistred notification detect TransactionId ", transId);
        return;
    }
}
manager.getRpcMsgManager().addNotification(notification, nodeId);
if (notification.isMoreReplies()) {
    LOG.trace("Next notification for join txId ", transId);
    return;
}
/* add flow's statistics */
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId,
        nodeId);
        if (!txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
            return;
        }
        final List<FlowAndStatisticsMapList> flowStats = new ArrayList<FlowAndStatisticsMapList>(10);
        final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
        .child(Node.class, new NodeKey(nodeId));
        final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
        for (final TransactionAware notif : cacheNotifs) {
            if (notif instanceof FlowsStatisticsUpdate) {
                final List<FlowAndStatisticsMapList> notifList =
                if (notifList != null) {
                    flowStats.addAll(notifList);
                }
            }
        }
        statsFlowCommitAll(flowStats, nodeIdent, tx);
        /* cleaning all not cached hash collisions */
        final Map<InstanceIdentifier<Flow>, Integer> listAliens = mapNodesForDelete.get(nodeIdent);
        if (listAliens != null) {
            for (final Entry<InstanceIdentifier<Flow>, Integer> nodeForDelete : listAliens.entrySet()) {
                final Integer lifeIndex = nodeForDelete.getValue();
                if (nodeForDelete.getValue() > 0) {
                    nodeForDelete.setValue(Integer.valueOf(lifeIndex.intValue() - 1));
                } else {
                    final InstanceIdentifier<Flow> flowNodeIdent = nodeForDelete.getKey();
                    mapNodesForDelete.get(nodeIdent).remove(flowNodeIdent);
                    tx.delete(LogicalDatastoreType.OPERATIONAL, flowNodeIdent);
                }
            }
        }
        /* Notification for continue collecting statistics */
        notifyToCollectNextStatistics(nodeIdent);
}});
private void statsFlowCommitAll(final List<FlowAndStatisticsMapList> list, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction tx) {

    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);

    final Optional<FlowCapableNode> fNode;
    try {
        fNode = tx.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
    } catch (final ReadFailedException e) {
        LOG.debug("Read FlowCapableNode {} in Operational/DS fail! Statistic scan not be updated.", nodeIdent, e);
        return;
    }
    if (! fNode.isPresent()) {
        LOG.trace("FlowCapableNode {} is not presented in Operational/DS. Statistics can not be updated.", nodeIdent);
        return;
    }

    final NodeUpdateState nodeState = new NodeUpdateState(fNodeIdent, fNode.get());

    for (final FlowAndStatisticsMapList flowStat : list) {
        final TableKey tableKey = new TableKey(flowStat.getTableId());
        final TableFlowUpdateState tableState = nodeState.getTable(tableKey, tx);
        tableState.reportFlow(flowStat, tx);
    }

    for (final TableFlowUpdateState table : nodeState.getTables()) {
        table.removeUnreportedFlows(tx);
    }
}

/**
 * Method adds statistics to Flow
 *
 * @param flowBuilder
 * @param deviceFlow
 */
private void addStatistics(final FlowBuilder flowBuilder, final FlowAndStatisticsMapList deviceFlow) {
    final FlowAndStatisticsMapListBuilder stats = new FlowAndStatisticsMapListBuilder(deviceFlow);
    final FlowStatisticsBuilder flowStatisticsBuilder = new FlowStatisticsBuilder(stats.build());
    final FlowStatisticsDataBuilder flowStatisticsData = new FlowStatisticsDataBuilder();
    flowStatisticsData.setFlowStatistics(flowStatisticsBuilder.build());
    flowBuilder.addAugmentation(FlowStatisticsData.class, flowStatisticsData.build());
}
/**
 * build pseudoUnique hashCode for flow in table
 * for future easy identification
 *
 * FIXME: we expect same version for YANG models for all clusters and that has to be fix
 * FIXME: CREATE BETTER KEY - for flow (MATCH is the problem)
 */

static String buildFlowIdOperKey(final FlowAndStatisticsMapList deviceFlow) {
    return new StringBuffer().append(deviceFlow.getMatch())
        .append(deviceFlow.getPriority()).append(deviceFlow.getCookie().getValue()).toString();
}

private class NodeUpdateState {
    private final InstanceIdentifier<FlowCapableNode> nodeIdentifier;
    private final Map<TableKey, TableFlowUpdateState> tables = new HashMap<>();

    public NodeUpdateState(final InstanceIdentifier<FlowCapableNode> fNodeIdent, final FlowCapableNode flowCapableNode) {
        nodeIdentifier = fNodeIdent;
        final List<Table> tableList = flowCapableNode.getTable();
        if (tableList != null) {
            for (final Table table : tableList) {
                final TableKey tableKey = table.getKey();
                tables.put(tableKey, new TableFlowUpdateState(nodeIdentifier.child(Table.class, tableKey), table));
            }
        }
    }

    public Iterable<TableFlowUpdateState> getTables() {
        return tables.values();
    }

    TableFlowUpdateState getTable(final TableKey key, final ReadWriteTransaction tx) {
        TableFlowUpdateState table = tables.get(key);
        if (table == null) {
            table = new TableFlowUpdateState(nodeIdentifier.child(Table.class, key), null);
            tables.put(key, table);
        }
        return table;
    }
}

private class TableFlowUpdateState {

    private boolean tableEnsured = false;
    final KeyedInstanceIdentifier<Table, TableKey> tableRef;
    final TableKey tableKey;
    final BiMap<FlowHashIdMapKey, FlowId> flowIdByHash;

    private TableFlowUpdateState(final TableKey key, final ReadWriteTransaction tx) {
        TableFlowUpdateState table = tables.get(key);
        if (table == null) {
            table = new TableFlowUpdateState(nodeIdentifier.child(Table.class, key), null);
            tables.put(key, table);
        }
        return table;
    }
}
List<Flow> configFlows;

public TableFlowUpdateState(final KeyedInstanceIdentifier<Table, TableKey> tablePath, final Table table) {
    tableRef = tablePath;
    tableKey = tablePath.getKey();
    flowIdByHash = HashBiMap.create();
    if(table != null) {
        final FlowHashIdMapping flowHashMapping = table.getAugmentation(FlowHashIdMapping.class);
        if (flowHashMapping != null) {
            final List<FlowHashIdMap> flowHashMap = flowHashMapping.getFlowHashIdMap() != null
                ? flowHashMapping.getFlowHashIdMap() : Collections.<FlowHashIdMap>emptyList();
            for (final FlowHashIdMap flowHashId : flowHashMap) {
                try {
                    flowIdByHash.put(flowHashId.getKey(), flowHashId.getFlowId());
                } catch (final Exception e) {
                    LOG.warn("flow hashing hit a duplicate for {} -> {}", flowHashId.getKey(),
                        flowHashId.getFlowId());
                }
            }
        }
    }
}

private void ensureTableFowHashIdMapping(final ReadWriteTransaction tx) {
    if( ! tableEnsured) {
        ensureTable(tx, tableKey.getId(), tableRef);
        final FlowHashIdMapping emptyMapping = new FlowHashIdMappingBuilder()
            .setFlowHashIdMap(Collections.<FlowHashIdMap>emptyList()).build();
        tx.merge(LogicalDatastoreType.OPERATIONAL, tableRef.augmentation(FlowHashIdMapping.class),
            emptyMapping);
        tableEnsured = true;
    }
}

private FlowKey searchInConfiguration(final FlowAndStatisticsMapList flowStat, final ReadWriteTransaction trans) {
    initConfigFlows(trans);
    final Iterator<Flow> it = configFlows.iterator();
    while(it.hasNext()) {
        final Flow cfgFlow = it.next();
        final FlowKey cfgKey = cfgFlow.getKey();
        if(flowIdByHash.inverse().containsKey(cfgKey)) {
            it.remove();
        } else if(FlowComparator.flowEquals(flowStat, cfgFlow)) {
            it.remove();
            return cfgKey;
        }
    }
}
private void initConfigFlows(final ReadWriteTransaction trans) {
    final Optional<Table> table = readLatestConfiguration(tableRef);
    List<Flow> localList = null;
    if(table.isPresent()) {
        localList = table.get().getFlow();
    }
    if(localList == null) {
        configFlows = Collections.emptyList();
    } else {
        configFlows = new LinkedList<>(localList);
    }
}

private FlowKey getFlowKeyAndRemoveHash(final FlowHashIdMapKey key) {
    final FlowId ret = flowIdByHash.get(key);
    if(ret != null) {
        flowIdByHash.remove(key);
        return new FlowKey(ret);
    }
    return null;
}

private void reportFlow(final FlowAndStatisticsMapList flowStat, final ReadWriteTransaction trans) {
    ensureTableFowHashIdMapping(trans);
    final FlowHashIdMapKey hashingKey = new FlowHashIdMapKey(buildFlowIdOperKey(flowStat));
    FlowKey flowKey = getFlowKeyAndRemoveHash(hashingKey);
    if (flowKey == null) {
        flowKey = searchInConfiguration(flowStat, trans);
        if (flowKey == null) {
            flowKey = makeAlienFlowKey();
        }
        updateHashCache(trans,flowKey,hashingKey);
    }
}
final FlowBuilder flowBuilder = new FlowBuilder(flowStat);
flowBuilder.setKey(flowKey);
addStatistics(flowBuilder, flowStat);
final InstanceIdentifier<Flow> flowIdent = tableRef.child(Flow.class, flowKey);
trans.put(LogicalDatastoreType.OPERATIONAL, flowIdent, flowBuilder.build());
/* check life for Alien flows */
if (flowKey.getId().getValue().startsWith(ALIEN_SYSTEM_FLOW_ID)) {
    removeData(flowIdent, REMOVE_AFTER_MISSING_COLLECTION);
}
/* Build and deploy new FlowHashId map */
private void updateHashCache(final ReadWriteTransaction trans, final FlowKey flowKey, final FlowHashIdMapKey hashingKey) {
    final FlowHashIdMapBuilder flHashIdMap = new FlowHashIdMapBuilder();
    flHashIdMap.setFlowId(flowKey.getId());
    flHashIdMap.setKey(hashingKey);
    final KeyedInstanceIdentifier<FlowHashIdMap, FlowHashIdMapKey> flHashIdent = tableRef.augmentation(FlowHashIdMapping.class).child(FlowHashIdMap.class, hashingKey);
    /* Add new FlowHashIdMap */
    trans.put(LogicalDatastoreType.OPERATIONAL, flHashIdent, flHashIdMap.build());
}
void removeUnreportedFlows(final ReadWriteTransaction tx) {
    final InstanceIdentifier<Node> nodeIdent = tableRef.firstIdentifierOf(Node.class);
    final List<InstanceIdentifier<Flow>> listMissingConfigFlows = notStatReportedConfigFlows();
    final Map<InstanceIdentifier<Flow>, Integer> nodeDeleteMap = mapNodesForDelete.get(nodeIdent);
    final Map<FlowHashIdMapKey, FlowId> listForRemove = getRemovalList();
    for (final Entry<FlowHashIdMapKey, FlowId> entryForRemove : listForRemove.entrySet()) {
        final FlowKey flowKey = new FlowKey(entryForRemove.getValue());
        final InstanceIdentifier<Flow> flowRef = tableRef.child(Flow.class, flowKey);
        if (nodeDeleteMap != null && flowKey.getId().getValue().startsWith(ALIEN_SYSTEM_FLOW_ID)) {
            final Integer lifeIndex = nodeDeleteMap.get(flowRef);
            if (lifeIndex > 0) {
                break;
            } else {
                nodeDeleteMap.remove(flowRef);
            }
        } else {
            if (listMissingConfigFlows.remove(flowRef)) {
                break; // we probably lost some multipart msg
            }
        }
        final InstanceIdentifier<FlowHashIdMap> flHashIdent =
            tableRef.augmentation(FlowHashIdMapping.class).child(FlowHashIdMap.class, entryForRemove.getKey());
        tx.delete(LogicalDatastoreType.OPERATIONAL, flowRef);
        tx.delete(LogicalDatastoreType.OPERATIONAL, flHashIdent);
List<InstanceIdentifier<Flow>> notStatReportedConfigFlows() {
    if (configFlows != null) {
        final List<InstanceIdentifier<Flow>> returnList = new ArrayList<>(configFlows.size());
        for (final Flow confFlow : configFlows) {
            final InstanceIdentifier<Flow> confFlowIdent = tableRef.child(Flow.class, confFlow.getKey());
            returnList.add(confFlowIdent);
        }
        return returnList;
    }
    return Collections.emptyList();
}

/**
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.MeterBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.MeterKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.MeterConfigStatsUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.MeterFeaturesUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.MeterStatisticsUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.NodeMeterFeatures;
import org.opendaylight.yanggen.v1.urn.opendaylight.meter.statistics.rev131111.nodes.node.MeterFeatures;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.nodes.node.MeterFeaturesBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.nodes.node.meter.MeterConfigStatsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.nodes.node.meter.MeterStatistics;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.types.rev130918.meter.config.stats.reply.MeterConfigStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.types.rev130918.meter.statistics.reply.MeterStats;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * *
 * StatListenCommitMeter
 * Class is a NotifyListener for MeterStatistics and DataChangeListener for Config/DataStore for Meter node.
 * All expected (registered) MeterStatistics will be builded and commit to Operational/DataStore.
 * DataChangeEven should call create/delete Meter in Operational/DS
 *
 */
public class StatListenCommitMeter extends StatAbstractListenCommit<Meter,
OpendaylightMeterStatisticsListener>
    implements OpendaylightMeterStatisticsListener {

    private static final Logger LOG = LoggerFactory.getLogger(StatListenCommitMeter.class);

    public StatListenCommitMeter(final StatisticsManager manager, final DataBroker db,
        final NotificationProviderService nps) {
        super(manager, db, nps, Meter.class);
    }

    @Override
protected InstanceIdentifier<Meter> getWildCardedRegistrationPath() {
    return InstanceIdentifier.create(Nodes.class).child(Node.class)
        .augmentation(FlowCapableNode.class).child(Meter.class);
}

@Override
protected OpendaylightMeterStatisticsListener getStatNotificationListener() {
    return this;
}

@Override
public void onMeterConfigStatsUpdated(final MeterConfigStatsUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - MeterConfigStatsUpdated: unregistered notification detected TransactionId {}", transId);
        return;
    }
    if (notification.isMoreReplies()) {
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        return;
    }
    final List<MeterConfigStats> meterConfStat = notification.getMeterConfigStats() != null
        ? new ArrayList<>(notification.getMeterConfigStats()) : new ArrayList<MeterConfigStats>(10);
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (txContainer.isPresent()) {
        final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
        for (final TransactionAware notif : cacheNotifs) {
            if (notif instanceof MeterConfigStatsUpdated) {
                meterConfStat.addAll(((MeterConfigStatsUpdated) notif).getMeterConfigStats());
            }
        }
    }
    finally {
        final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class).child(Node.class, new NodeKey(nodeId));
        manager.enqueue(new StatDataStoreOperation() {
            @Override
            public void applyOperation(final ReadWriteTransaction tx) {
                /* Notification for continue collecting statistics */
                notifyToCollectNextStatistics(nodeIdent);
                comitConfMeterStats(meterConfStat, nodeIdent, tx);
            }
        });
    }
}

@Override
public void onMeterFeaturesUpdated(final MeterFeaturesUpdated notification) {
}
final TransactionId transId = notification.getTransactionId();
final NodeId nodeId = notification.getId();
if ( ! isExpectedStatistics(transId, nodeId)) {
    LOG.debug("STAT-MANAGER - MeterFeaturesUpdated: unregistred notification detect TransactionId {}", transId);
    return;
}
if (notification.isMoreReplies()) {
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    return;
}
final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
if ( ! txContainer.isPresent()) {
    return;
}
final MeterFeatures stats = new MeterFeaturesBuilder(notification).build();
final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier
    .create(Nodes.class).child(Node.class, new NodeKey(nodeId));
final InstanceIdentifier<MeterFeatures> meterFeatureIdent = nodeIdent
    .augmentation(NodeMeterFeatures.class).child(MeterFeatures.class);

manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        /* Notification for continue collecting statistics */
        notifyToCollectNextStatistics(nodeIdent);
        Optional<Node> node = Optional.absent();
        try {
            node = tx.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
        }
        catch (final ReadFailedException e) {
            LOG.debug("Read Operational/DS for Node fail! {}", nodeIdent, e);
        }
        if (node.isPresent()) {
            tx.put(LogicalDatastoreType.OPERATIONAL, meterFeatureIdent, stats);
        }
    }
};

@Override
public void onMeterStatisticsUpdated(final MeterStatisticsUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if ( ! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - MeterStatisticsUpdated: unregistred notification detect TransactionId {}", transId);
        return;
    }
}
if (notification.isMoreReplies()) {
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    return;
}

final List<MeterStats> meterStat = notification.getMeterStats() != null
    ? new ArrayList<>(notification.getMeterStats()) : new ArrayList<MeterStats>(10);
final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
if (txContainer.isPresent()) {
    final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
    for (final TransactionAware notif : cacheNotifs) {
        if (notif instanceof MeterConfigStatsUpdated) {
            meterStat.addAll(((MeterStatisticsUpdated) notif).getMeterStats());
        }
    }
}

final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class).child(Node.class, new
    NodeKey(nodeId));
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        statMeterCommit(meterStat, nodeIdent, tx);
        /* Notification for continue collecting statistics */
        notifyToCollectNextStatistics(nodeIdent);
    }
});

private void statMeterCommit(final List<MeterStats> meterStats, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {
    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
    for (final MeterStats mStat : meterStats) {
        final MeterStatistics stats = new MeterStatisticsBuilder(mStat).build();
        final MeterKey mKey = new MeterKey(mStat.getMeterId());
        final InstanceIdentifier<MeterStatistics> msIdent = fNodeIdent
            .child(Meter.class, mKey).augmentation(NodeMeterStatistics.class)
            .child(MeterStatistics.class);
        /* Meter Statistics commit */
        Optional<FlowCapableNode> fNode = Optional.absent();
        try {
            fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
        } catch (final ReadFailedException e) {
            LOG.debug("Read Operational/DS for FlowCapableNode fail! ", fNodeIdent, e);
        }
        if (fNode.isPresent()) {
            }
trans.put(LogicalDatastoreType.OPERATIONAL, msIdent, stats);
}
}

private void comitConfMeterStats(final List<MeterConfigStats> meterConfStat,
final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {

final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
final List<MeterKey> deviceMeterKeys = new ArrayList<>();

for (final MeterConfigStats meterConf : meterConfStat) {
final MeterBuilder meterBuilder = new MeterBuilder(meterConf);
if (meterConf.getMeterId() != null) {
final MeterKey meterKey = new MeterKey(meterConf.getMeterId());
meterBuilder.setKey(meterKey);
final InstanceIdentifier<Meter> meterRef = nodeIdent
.augmentation(FlowCapableNode.class).child(Meter.class, meterKey);
final NodeMeterConfigStatsBuilder meterConfig = new NodeMeterConfigStatsBuilder();
meterConfig.setMeterConfigStats(new MeterConfigStatsBuilder(meterConf).build());
//Update augmented data
meterBuilder.addAugmentation(NodeMeterConfigStats.class, meterConfig.build());
deviceMeterKeys.add(meterKey);
Optional<FlowCapableNode> fNode = Optional.absent();
try {
    fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
} catch (final ReadFailedException e) {
    LOG.debug("Read Operational/DS for FlowCapableNode fail! {}", fNodeIdent, e);
}
if (fNode.isPresent()) {
    trans.put(LogicalDatastoreType.OPERATIONAL, meterRef, meterBuilder.build());
}
}
/* Delete all not presented Meter Nodes */
deleteAllNotPresentedNodes(fNodeIdent, trans, deviceMeterKeys);
}

private void deleteAllNotPresentedNodes(final InstanceIdentifier<FlowCapableNode> fNodeIdent,
final ReadWriteTransaction trans, final List<MeterKey> deviceMeterKeys) {
/* Delete all not presented meters */
final Optional<FlowCapableNode> fNode = readLatestConfiguration(fNodeIdent);

if (! fNode.isPresent()) {
    LOG.trace("Read Operational/DS for FlowCapableNode fail! Node {} doesn't exist.", fNodeIdent);
    return;
}
final List<Meter> existMeters = fNode.get().getMeter() != null ? fNode.get().getMeter() : Collections.<Meter>emptyList();
/* Add all existed groups paths - no updated paths has to be removed */
for (final Meter meter : existMeters) {
    if (deviceMeterKeys.remove(meter.getKey())) {
        break; // Meter still exist on device
    }

    final InstanceIdentifier<Meter> delMeterIdent = fNodeIdent.child(Meter.class, meter.getKey());
    Optional<Meter> delMeter = Optional.absent();
    try {
        delMeter = trans.read(LogicalDatastoreType.OPERATIONAL, delMeterIdent).checkedGet();
    } catch (final ReadFailedException e) {
        // NOOP - probably another transaction delete that node
    }
    if (delMeter.isPresent()) {
        trans.delete(LogicalDatastoreType.OPERATIONAL, delMeterIdent);
    }
}

package org.opendaylight.controller.md.statistics.manager.impl;
import java.util.ArrayList;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatNotifyCommitPort
 * Class is a NotifyListener for PortStatistics
 * All expected (registered) portStatistics will be builded and
 * commit to Operational/DataStore
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 */
public class StatNotifyCommitPort extends StatAbstractNotifyCommit<OpendaylightPortStatisticsListener>
    implements OpendaylightPortStatisticsListener {

    private static final Logger LOG = LoggerFactory.getLogger(StatNotifyCommitPort.class);

    public StatNotifyCommitPort(final StatisticsManager manager,
        final NotificationProviderService nps) {
        super(manager, nps);
    }

    @Override
    protected OpendaylightPortStatisticsListener getStatNotificationListener() {

    }

}
```java
    return this;
}

@Override
public void onNodeConnectorStatisticsUpdate(final NodeConnectorStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if ( ! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - NodeConnectorStatisticsUpdate: unregistred notification detect TransactionId 
            ");
        return;
    }
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    if (notification.isMoreReplies()) {
        return;
    }
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
        .child(Node.class, new NodeKey(nodeId));
    /* Don't block RPC Notification thread */
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction trans) {
            final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId,
                nodeId);
            if (( ! txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
                return;
            }
            final List<NodeConnectorStatisticsAndPortNumberMap> portStats =
                new ArrayList<NodeConnectorStatisticsAndPortNumberMap>(10);
            final List<? extends TransactionAware> cachedNotifs = txContainer.get().getNotifications();
            for (final TransactionAware notif : cachedNotifs) {
                if (notif instanceof NodeConnectorStatisticsUpdate) {
                    final List<NodeConnectorStatisticsAndPortNumberMap> notifStat =
                        ((NodeConnectorStatisticsUpdate) notif).getNodeConnectorStatisticsAndPortNumberMap();
                    if (notifStat != null) {
                        portStats.addAll(notifStat);
                    }
                }
            }
            /* write stat to trans */
            statPortCommit(portStats, nodeIdent, trans);
            /* Notification for continue collecting statistics - Port statistics are still same size
             * and they are small - don't need to wait for whole apply operation*/
            notifyToCollectNextStatistics(nodeIdent);
        }
    });
}
```
private void statPortCommit(final List<NodeConnectorStatisticsAndPortNumberMap> portStats, 
   final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction tx) {

   /* check exist FlowCapableNode and write statistics probable with parent */
   Optional<Node> fNode = Optional.absent();
   try {
      fNode = tx.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
   } catch (final ReadFailedException e) {
      LOG.debug("Read Operational/DS for Node fail! ", nodeIdent, e);
      return;
   }
   if (!fNode.isPresent()) {
      LOG.trace("Read Operational/DS for Node fail! Node {} doesn't exist.", nodeIdent);
      return;
   }
   for (final NodeConnectorStatisticsAndPortNumberMap nConnPort : portStats) {
      final FlowCapableNodeConnectorStatistics stats = new 
         FlowCapableNodeConnectorStatisticsBuilder(nConnPort).build();
      final NodeConnectorKey key = new NodeConnectorKey(nConnPort.getNodeConnectorId());
      final InstanceIdentifier<NodeConnector> nodeConnectorIdent = nodeIdent.child(NodeConnector.class, key);
      final InstanceIdentifier<FlowCapableNodeConnectorStatisticsData> nodeConnStatIdent =
         nodeConnectorIdent
         .augmentation(FlowCapableNodeConnectorStatisticsData.class);
      final InstanceIdentifier<FlowCapableNodeConnectorStatistics> flowCapNodeConnStatIdent =
         nodeConnStatIdent.child(FlowCapableNodeConnectorStatistics.class);
      final Optional<NodeConnector> fNodeConnector;
      try {
         fNodeConnector = tx.read(LogicalDatastoreType.OPERATIONAL, nodeConnectorIdent).checkedGet();
      } catch (final ReadFailedException e) {
         LOG.debug("Read NodeConnector {} in Operational/DS fail!", nodeConnectorIdent, e);
         fNodeConnector = Optional.absent();
      }
      if (fNodeConnector.isPresent()) {
         tx.merge(LogicalDatastoreType.OPERATIONAL, nodeConnectorIdent, new
            NodeConnectorBuilder().setId(key.getId()).build());
         tx.merge(LogicalDatastoreType.OPERATIONAL, nodeConnStatIdent, new 
            FlowCapableNodeConnectorStatisticsDataBuilder().build());
         tx.put(LogicalDatastoreType.OPERATIONAL, flowCapNodeConnStatIdent, stats);
      }
   }
}
/**
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package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;

import org.opendaylight.controller.md.statistics.manager.StatNotifyCommiter;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatAbstratNotifiCommiter
 * Class is abstract implementation for all no Configuration/DataStore DataObjects
 * and represent common functionality for all DataObject Statistics Committers.
 * Class defines contract between DataObject and relevant Statistics NotificationListener.
 *
 */
public abstract class StatAbstractNotifyCommit<N extends NotificationListener> implements StatNotifyCommiter<N> {

    private static final Logger LOG = LoggerFactory.getLogger(StatAbstractNotifyCommit.class);

    protected final StatisticsManager manager;
    private ListenerRegistration<NotificationListener> notifyListenerRegistration;

    public StatAbstractNotifyCommit(final StatisticsManager manager, 
            final NotificationProviderService nps) {
        this.manager = Preconditions.checkNotNull(manager, "StatisticManager can not be null!");
        Preconditions.checkArgument(nps != null, "NotificationProviderService can not be null!");
        final NotificationProviderService nps = Preconditions.checkNotNull(nps, "NotificationProviderService can not be null!");
        this.manager = Preconditions.checkNotNull(manager, "StatisticManager can not be null!");
notifyListenerRegistration = nps.registerNotificationListener(getStatNotificationListener());
}

@Override
public void close() {
  if (notifyListenerRegistration != null) {
    try {
      notifyListenerRegistration.close();
    } catch (final Exception e) {
      LOG.error("Error by stop {} StatNotificationListener.", this.getClass().getSimpleName());
    }
    notifyListenerRegistration = null;
  }
}

/**
 * Method returns Statistics Notification Listener for relevant DataObject implementation,
 * which is declared for [link StatNotifyCommiter] interface.
 *
 * @return
 */
protected abstract N getStatNotificationListener();

/**
 * PreConfigurationCheck - Node identified by input InstanceIdentifier<Node>
 * has to be registered in [link org.opendaylight.controller.md.statistics.manager.StatPermCollector]
 *
 * @param InstanceIdentifier<Node> nodeIdent
 */
protected boolean preConfigurationCheck(final InstanceIdentifier<Node> nodeIdent) {
  Preconditions.checkNotNull(nodeIdent, "FlowCapableNode ident can not be null!");
  return manager.isProvidedFlowNodeActive(nodeIdent);
}

protected void notifyToCollectNextStatistics(final InstanceIdentifier<Node> nodeIdent) {
  Preconditions.checkNotNull(nodeIdent, "FlowCapableNode ident can not be null!");
  manager.collectNextStatistics(nodeIdent);
}

/**
 * Wrapping Future object call for [link org.opendaylight.controller.md.statistics.manager.StatRpcMsgManager]
 * getTransactionCacheContainer with 10sec TimeOut.
 * Method has returned [link Optional] which could contains a [link TransactionCacheContainer]
 *
 * @param TransactionId transId
 * @param NodeId nodeId

protected Optional<TransactionCacheContainer<?>> getTransactionCacheContainer(final TransactionId transId, final NodeId nodeId) {
    Optional<TransactionCacheContainer<?>> txContainer;
    try {
        txContainer = manager.getRpcMsgManager().getTransactionCacheContainer(transId, nodeId).get(10,
            TimeUnit.SECONDS);
    }
    catch (InterruptedException | ExecutionException | TimeoutException e) {
        LOG.warn("Get TransactionCacheContainer fail!", e);
        txContainer = Optional.absent();
    }
    return txContainer;
}

/**
 * Wrapping Future object call to {@link org.opendaylight.controller.md.statistics.manager.StatRpcMsgManager}
 * isExpectedStatistics with 10sec TimeOut.
 * Method has checked registration for provided {@link TransactionId} and {@link NodeId}
 *
 * @param TransactionId transId - Transaction identification
 * @param NodeId nodeId - Node identification
 * @return boolean
 */
protected boolean isExpectedStatistics(final TransactionId transId, final NodeId nodeId) {
    Boolean isExpectedStat = Boolean.FALSE;
    try {
        isExpectedStat = manager.getRpcMsgManager().isExpectedStatistics(transId, nodeId).get(10,
            TimeUnit.SECONDS);
    }
    catch (InterruptedException | ExecutionException | TimeoutException e) {
        LOG.warn("Check Transaction registraion {} fail!", transId, e);
        return false;
    }
    return isExpectedStat.booleanValue();
}

package org.opendaylight.controller.md.statistics.manager;
import org.opendaylight.yangtools.yang.binding.NotificationListener;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager
 *
 * StatNotifyCommiter
 * Definition Interface for notification implementer class rule
 * Interface represent a contract between RPC Device Notification
 * and Operational/DataStore commits.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 28, 2014
 */
public interface StatNotifyCommiter<N extends NotificationListener> extends AutoCloseable, NotificationListener {
}

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 */
package org.opendaylight.controller.md.statistics.manager;

import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager
 *
 * StatisticalCommiter
 * Definition Interface for [DataChangeListener] implementer class rule.
 * Interface represent a contract between Config/DataStore changes and
 * Operational/DataStore commits. All Operational/DataStore commit have
 * to be represented as RPC Device response Notification processing. So
 * Operational/DS could contain only real mirror of OF Device
 *
package org.opendaylight.controller.md.statistics.manager;

import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
public interface StatListeningCommiter<T extends DataObject, N extends NotificationListener> extends 
DataChangeListener, StatNotifyCommitee<N> {

/**
 * All StatListeningCommiter implementer has to clean its actual state
 * for all cached data related to disconnected node.
 * Method prevents unwanted dataStore changes.
 *
 * @param nodeIdent
 */

void cleanForDisConnect(InstanceIdentifier<Node> nodeIdent);

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 */

package org.opendaylight.openflowplugin.testcommon;

import java.math.BigInteger;
import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowCookie;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowModFlags;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Instructions;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Match;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
```
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * provides cbench responder behavior: upon packetIn arrival addFlow action is sent out to
 * device using dataStore strategy (FRM involved)
 */
public class DropTestCommiter extends AbstractDropTest {
    private final static Logger LOG = LoggerFactory.getLogger(DropTestCommiter.class);

    private DataBroker dataService;
    private static final AtomicLong idCounter = new AtomicLong();
    private static final ThreadLocal<FlowBuilder> BUILDER = new ThreadLocal<FlowBuilder>() {
        @Override
        protected FlowBuilder initialValue() {
            final FlowBuilder fb = new FlowBuilder();
            fb.setPriority(4);
            fb.setBufferId(0L);
            final FlowCookie cookie = new FlowCookie(BigInteger.TEN);
            fb.setCookie(cookie);
            fb.setCookieMask(cookie);
            fb.setTableId((short) 0);
            fb.setHardTimeout(300);
            fb.setIdleTimeout(240);
            fb.setFlags(new FlowModFlags(false, false, false, false, false));
            return fb;
        }
    };
    private NotificationProviderService notificationService;
    private ListenerRegistration<NotificationListener> notificationRegistration;

    /**
     * start listening on packetIn
     */
    public void start() {
        notificationRegistration = notificationService.registerNotificationListener(this);
    }
}
/**
 * @param dataService the dataService to set
 */
public void setDataService(DataBroker dataService) {
    this.dataService = dataService;
}

@Override
protected void processPacket(final NodeKey node, final Match match, final Instructions instructions) {

    // Finally build our flow
    final FlowBuilder fb = BUILDER.get();
    fb.setMatch(match);
    fb.setInstructions(instructions);
    fb.setId(new FlowId(String.valueOf(fb.hashCode()) +"."+ String.valueOf(idCounter.getAndIncrement())));

    // Construct the flow instance id
    final InstanceIdentifier<Flow> flowInstanceId =
        InstanceIdentifier.builder(Nodes.class) // File under nodes
            .child(Node.class, node) // A particular node identified by nodeKey
            .augmentation(FlowCapableNode.class) // That is flow capable, only FlowCapableNodes have tables
            .child(Table.class, new TableKey((short) 0)) // In the table identified by TableKey
            .child(Flow.class, new FlowKey(fb.getId())) // A flow identified by flowKey
            .build();

    final Flow flow = fb.build();
    final ReadWriteTransaction transaction = dataService.newReadWriteTransaction();
    if (LOG.isDebugEnabled()) {
        LOG.debug("onPacketReceived - About to write flow {}", flow);
    }
    transaction.put(LogicalDatastoreType.CONFIGURATION, flowInstanceId, flow, true);
    transaction.submit();
    LOG.debug("onPacketReceived - About to write flow commited");
}

@Override
public void close() {
    try {
        LOG.debug("DropTestProvider stopped.");
        if (notificationRegistration != null) {
            notificationRegistration.close();
        }
    } catch (Exception e) {
        LOG.error("unregistration of notification listener failed", e);
    }
}
```java
/**
 * @param notificationService
 */

public void setNotificationService(NotificationProviderService notificationService) {
    this.notificationService = notificationService;
}
```

### 4.195 test-extension 0.0.4-Helium-SR1

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 */

module test-provider-impl {
    yang-version 1;
    prefix "test-provider-impl";

    import config { prefix config; revision-date 2013-04-05; }
    import opendaylight-md-sal-binding { prefix mdsal; revision-date 2013-10-28; }

    revision "2014-06-11" {
        description
            "Initial revision.";
    }

    identity test-provider-impl {
        base "config:module-type";

        config:java-name-prefix TestProvider;
    }

    // Augments the 'configuration' choice node under modules/module.
    augment "/config:modules/config:module/config:configuration" {
        case test-provider-impl {
            when "/config:modules/config:module/config:type = 'test-provider-impl'";

            // wires in the data-broker service
            container data-broker {
                uses config:service-ref {
                    refine type {
```
4.196 test-provider 0.0.4-Helium-SR1

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 */

package org.opendaylight.openflowplugin.test;

import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowAdded;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SwitchFlowRemoved;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * dummy implementation flushing events into log
 */

public class FlowEventListenerLoggingImpl implements SalFlowListener {

    private static Logger LOG = LoggerFactory.getLogger(FlowEventListenerLoggingImpl.class);

    // RPC Registry
    container rpc-registry {
        uses config:service-ref {
            refine type {
                mandatory true;
                config:required-identity mdsal:binding-rpc-registry;
            }
        }
    }

}
@Override
public void onFlowAdded(FlowAdded notification) {
    LOG.info("flow to be added....................." + notification.toString());
    LOG.info("added flow Xid........................" + notification.getTransactionId().getValue());
    LOG.info("---------------------------------------------------------------------------");
}

@Override
public void onFlowRemoved(FlowRemoved notification) {
    LOG.debug("removed flow........................" + notification.toString());
    LOG.debug("remove flow Xid........................." + notification.getTransactionId().getValue());
    LOG.debug("---------------------------------------------------------------------------");
}

@Override
public void onFlowUpdated(FlowUpdated notification) {
    LOG.debug("updated flow........................" + notification.toString());
    LOG.debug("updated flow Xid........................." + notification.getTransactionId().getValue());
    LOG.debug("---------------------------------------------------------------------------");
}

@Override
public void onNodeErrorNotification(NodeErrorNotification notification) {
    //commenting as we have a NodeErrorListener
    /*
    LOG.error("Error notification flow Xid........................." + notification.getTransactionId().getValue());
    LOG.debug("notification Begin-Transaction:" + notification.getTransactionUri()
    + "---------------------------------------------------------------------------");
    */
}

@Override
public void onNodeExperimenterErrorNotification(NodeExperimenterErrorNotification notification) {
    // TODO Auto-generated method stub
}

@Override
public void onSwitchFlowRemoved(SwitchFlowRemoved notification) {
    LOG.debug("Switch flow removed : Cookies......................." + notification.getCookie().toString());
    LOG.debug("---------------------------------------------------------------------------");
}
4.197 TinyRadius 1.0

4.197.1 Available under license:

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Version 2.1, February 1999

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4.198 topology-lldp-discovery 1.1.1-Helium-SR1

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4.199 topology-manager 1.1.1-Helium-SR1

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4.201 underscore.string 2.3.3

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4.204 yang-binding 0.6.3-Helium-SR1

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 */

package org.opendaylight.yangtools.yang.binding;

import java.io.IOException;

/**
 * SPI-level contract for implementations of DataObjectSerializer.
 * The contract is kept between implementation of DataObjectSerializerRegistry,
 * which maintains the lookup context required for recursive serialization.
 * 
 * FIXME: this interface needs to be moved into .spi, but due to classpath funkyness
 * exist in all generated packages. One avenue how to achieve that is to move
 * YangModuleInfo and modify code generator to add a static field
 */
* to all generated classes which will point to the per-model YangModuleInfo
* (currently all users of it have to walk the package hierarchy, so that
* is an improvement in and of itself).
*
*/

public interface DataObjectSerializerImplementation {

/**
 * Writes stream events for supplied data object to provided stream.
 *
 * DataObjectSerializerRegistry may be used to lookup serializers
 * for other generated classes in order to support writing
 * their events.
 *
 */

void serialize(DataObjectSerializerRegistry reg, DataObject obj, BindingStreamEventWriter stream) throws
IOException;
}

*/

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package org.opendaylight.yangtools.yang.binding;

import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.IdentifiableItem;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.Item;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.PathArgument;
import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.Iterables;

final class InstanceIdentifierBuilderImpl<T extends DataObject> implements
InstanceIdentifier.InstanceIdentifierBuilder<T> {

private final ImmutableList.Builder<PathArgument> pathBuilder = ImmutableList.builder();
private final HashCodeBuilder<PathArgument> hashBuilder;
private final Iterable<? extends PathArgument> basePath;
private boolean wildcard = false;
private PathArgument arg = null;

_InstanceIdentifierBuilderImpl() {
    this.hashBuilder = new HashCodeBuilder<>();
    this.basePath = null;
}
InstanceIdentifierBuilderImpl(final PathArgument item, final Iterable<? extends PathArgument> pathArguments, final int hash, final boolean wildcard) {
    this.hashBuilder = new HashCodeBuilder<>(hash);
    this.basePath = pathArguments;
    this.wildcard = wildcard;
    this.arg = item;
}

@Override
public int hashCode() {
    return hashBuilder.toInstance();
}

@.SuppressWarnings("unchecked")
<N extends DataObject> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> container) {
    arg = new Item<N>(container);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);

    if (Identifiable.class.isAssignableFrom(container)) {
        wildcard = true;
    }

    return (InstanceIdentifierBuilderImpl<N>) this;
}

@SuppressWarnings("unchecked")
<N extends DataObject & Identifiable<K>, K extends Identifier<N>> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> listItem, final K listKey) {
    arg = new IdentifiableItem<N, K>(listItem, listKey);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);
    return (InstanceIdentifierBuilderImpl<N>) this;
}

@Override
public <N extends ChildOf<? super T>> InstanceIdentifierBuilderImpl<N> child(final Class<N> container) {
    return addNode(container);
}

@Override
public <N extends Identifiable<K> & ChildOf<? super T>, K extends Identifier<N>> InstanceIdentifierBuilderImpl<N> child(final Class<N> listItem, final K listKey) {
    return addNode(listItem, listKey);
}

/**
* Build an identifier which refers to a specific augmentation of the current InstanceIdentifier referenced by
  * the builder
  *
  * @param container
  * @param <N>
  * @return
  */

@Override
public <N extends DataObject & Augmentation<? super T>> InstanceIdentifierBuilderImpl<N>
augmentation(final Class<N> container) {
    return addNode(container);
}

@Override
public InstanceIdentifier<T> build() {
    Preconditions.checkState(arg != null, "No path arguments present");

    final Iterable<PathArgument> pathArguments;
    if (basePath == null) {
        pathArguments = pathBuilder.build();
    } else {
        pathArguments = Iterables.concat(basePath, pathBuilder.build());
    }

    @SuppressWarnings("unchecked")
    final InstanceIdentifier<T> ret = (InstanceIdentifier<T>) InstanceIdentifier.trustedCreate(arg, pathArguments, hashBuilder.toInstance(), wildcard);
    return ret;
}

@Override
public InstanceIdentifier<T> toInstance() {
    return build();
}

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 */

package org.opendaylight.yangtools.yang.binding;

import java.util.Set;
import java.util.concurrent.Future;
import org.opendaylight.yangtools.yang.common.RpcResult;

import java.util.Set;
import java.util.concurrent.Future;
import org.opendaylight.yangtools.yang.common.RpcResult;

import org.opendaylight.yangtools.yang.common.RpcResult;
public interface RpcImplementation {

    // Fixme: Change to RpcInput
    Set<Class<? extends DataContainer>> getSupportedInputs();

    // Fixme: Change to RpcInput
    <T extends DataContainer> Future<RpcResult<?, ?>> invoke(Class<T> type, T input);
}

4.205 yang-common 0.6.3-Helium-SR1

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    package org.opendaylight.yangtools.yang.common;

    import java.text.SimpleDateFormat;

    public class SimpleDateFormatUtil {

        private static final ThreadLocal<SimpleDateFormat> REVISION_FORMAT = new
            ThreadLocal<SimpleDateFormat>() {

            protected SimpleDateFormat initialValue() {
                return new SimpleDateFormat("yyyy-MM-dd");
            }

            public void set(SimpleDateFormat value) {
                throw new UnsupportedOperationException();
            }

        };

        public static SimpleDateFormat getRevisionFormat() {
            return REVISION_FORMAT.get();
        }
    }
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-- activemq-xmpp

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-- activemq-web

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-- activemq-web

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--activemq-web-console

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5.19 felix-gogo-runtime 0.10.0

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5.21 Gson 2.1

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5.23 jackson-core-asl 1.9.2

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5.26 jackson-xc 1.9.2

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5.28 java-uuid-generator 3.1.0

5.29 jcl-core 2.5

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5.30 karaf-bundle-command 3.0.2

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5.31 karaf-bundle-core 3.0.2

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   (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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creates an executable that is a derivative of the Library (because it
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Whether this is true is especially significant if the work can be
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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
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Otherwise, if the work is a derivative of the Library, you may
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with the Library, with the complete machine-readable "work that
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5.46 pax-exam-container-rbc 3.4.0

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5.56 slf4j-api 1.7.5
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5.57 slf4j-log4j12 1.7.5

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6.2 boost 1.57.0

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7.2 aaa-authn-api 0.1.3-Helium-SR3

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7.6 aaa-authn-idpmapping 0.1.3.Helium-SR3

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7.7 aaa-authn-odl-plugin 0.1.3-Helium-SR3
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7.8 aaa-authn-sssd 0.1.3-Helium-SR3

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7.10 aaa-authn-sts 0.1.3-Helium-SR3
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7.11 aaa-feature-aaa-xml 0.1.3-Helium-SR3

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7.12 aaa-idmlight 0.1.3-Helium-SR3

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7.44 cglib 2.1.88

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 */
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

/**
 * @author Chris Nokleberg
 * @version $Id: MixinEmitter.java,v 1.9 2006/08/27 21:04:37 herbyderby Exp $
 */
class MixinEmitter extends ClassEmitter {
    private static final String FIELD_NAME = "CGLIB$DELEGATES";
    private static final Signature CSTRUCT_OBJECT_ARRAY =
        TypeUtils.parseConstructor("Object[]");
    private static final Type MIXIN =
        TypeUtils.parseType("net.sf.cglib.proxy.Mixin");
    private static final Signature NEW_INSTANCE =
        new Signature("newInstance", MIXIN, new Type[]{ Constants.TYPE_OBJECT_ARRAY });

    public MixinEmitter(ClassVisitor v, String className, Class[] classes, int[] route) {
        super(v);
    }
begin_class(\texttt{Constants.V1\_2},
\hspace{1em} \texttt{Constants.ACC\_PUBLIC},
\hspace{1em} \texttt{className},
\hspace{1em} \texttt{MIXIN},
\hspace{1em} \texttt{TypeUtils.getTypes(getInterfaces(classes))},
\hspace{1em} \texttt{Constants.SOURCE\_FILE});

\texttt{EmitUtils.null\_constructor(this);}  
\texttt{EmitUtils.factory\_method(this, NEW\_INSTANCE);}  

\texttt{declare\_field(\texttt{Constants.ACC\_PRIVATE}, \texttt{FIELD\_NAME}, \texttt{Constants.TYP\_OBJECT\_ARRAY}, \texttt{null});}

\texttt{CodeEmitter e = begin\_method(\texttt{Constants.ACC\_PUBLIC}, \texttt{CSTRUCT\_OBJECT\_ARRAY}, \texttt{null});}
\texttt{e.load\_this();}
\texttt{e.super\_invoke\_constructor();}
\texttt{e.load\_this();}
\texttt{e.load\_arg(0);}
\texttt{e.putfield(\texttt{FIELD\_NAME});}
\texttt{e.return\_value();}
\texttt{e.end\_method();}

\texttt{Set unique = new HashSet();}
\texttt{for (int i = 0; i < classes.length; i++) {}
\texttt{Method[]} methods = getMethods(classes[i]);}
\texttt{for (int j = 0; j < methods.length; j++) {
\texttt{if (unique.add(MethodWrapper.create(methods[j]))){
\texttt{MethodInfo method = ReflectUtils.getMethodInfo(methods[j]);
\texttt{e = EmitUtils.begin\_method(this, method, \texttt{Constants.ACC\_PUBLIC});
\texttt{e.load\_this();}
\texttt{e.getfield(\texttt{FIELD\_NAME});}
\texttt{e.aaload((route != null) ? route[i] : i);}
\texttt{e.checkcast(method.getClassInfo().getType());}
\texttt{e.load\_args();}
\texttt{e.invoke(method);}
\texttt{e.return\_value();}
\texttt{e.end\_method();}
\texttt{}}}
\texttt{}}}
\texttt{end\_class();}

protected Class[] getInterfaces(Class[] classes) {
\texttt{return classes;}
}

protected Method[] getMethods(Class type) {
\texttt{return type.getMethods();}
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.util.*;
import net.sf.cglib.core.CollectionUtils;
import net.sf.cglib.core.ReflectUtils;
import org.objectweb.asm.ClassVisitor;

/**
 * @author Chris Nokleberg
 * @version $Id: MixinEverythingEmitter.java,v 1.3 2004/06/24 21:15:19 herbyderby Exp $
 */
class MixinEverythingEmitter extends MixinEmitter {

    public MixinEverythingEmitter(ClassVisitor v, String className, Class[] classes) {
        super(v, className, classes, null);
    }

    protected Class[] getInterfaces(Class[] classes) {
        List list = new ArrayList();
        for (int i = 0; i < classes.length; i++) {
            ReflectUtils.addAllInterfaces(classes[i], list);
        }
        return (Class[])list.toArray(new Class[list.size()]);
    }

    protected Method[] getMethods(Class type) {
        List methods = new ArrayList(Arrays.asList(type.getMethods()));
        CollectionUtils.filter(methods, new RejectModifierPredicate(Modifier.FINAL | Modifier.STATIC));

        return (Method[])methods.toArray(new Method[methods.size()]);
    }

}
return (Method[])methods.toArray(new Method[methods.size()]);
}
}
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*/
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import net.sf.cglib.core.ReflectUtils;
import org.objectweb.asm.ClassVisitor;

/**<p>
 * @author Chris Nokleberg
 * @version $Id: MixinBeanEmitter.java,v 1.2 2004/06/24 21:15:20 herbyderby Exp $
 **/ class MixinBeanEmitter extends MixinEmitter {
 public MixinBeanEmitter(ClassVisitor v, String className, Class[] classes) {
     super(v, className, classes, null);
 }

 protected Class[] getInterfaces(Class[] classes) {
     return null;
 }

 protected Method[] getMethods(Class type) {
     return ReflectUtils.getPropertyMethods(ReflectUtils.getBeanProperties(type), true, true);
 }
}*/
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*/
package net.sf.cglib.reflect;

import java.lang.reflect.*;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

class FastClassEmitter extends ClassEmitter {
    private static final Signature CSTRUCT_CLASS =
        TypeUtils.parseConstructor("Class");
    private static final Signature METHOD_GET_INDEX =
        TypeUtils.parseSignature("int getIndex(String, Class[])");
    private static final Signature SIGNATURE_GET_INDEX =
        new Signature("getIndex", Type.INT_TYPE, new Type[]{ Constants.TYPE_SIGNATURE });
    private static final Signature TO_STRING =
        TypeUtils.parseSignature("String toString()");
    private static final Signature CONSTRUCTOR_GET_INDEX =
        TypeUtils.parseSignature("int getIndex(Class[])");
    private static final Signature INVOKE =
        TypeUtils.parseSignature("Object invoke(int, Object, Object[])");
    private static final Signature NEW_INSTANCE =
        TypeUtils.parseSignature("Object newInstance(int, Object[])");
    private static final Signature GET_MAX_INDEX =
        TypeUtils.parseSignature("int getMaxIndex()");
    private static final Signature GET_SIGNATURE_WITHOUT_RETURN_TYPE =
        TypeUtils.parseSignature("String getSignatureWithoutReturnType(String, Class[])");
    private static final Type FAST_CLASS =
        TypeUtils.parseType("net.sf.cglib.reflect.FastClass");
    private static final Type ILLEGAL_ARGUMENT_EXCEPTION =
        TypeUtils.parseType("IllegalArgumentException");
    private static final Type INVOCATION_TARGET_EXCEPTION =
        TypeUtils.parseType("java.lang.reflect.InvocationTargetException");
    private static final Type[] INVOCATION_TARGET_EXCEPTION_ARRAY = {
        INVOCATION_TARGET_EXCEPTION
    };

    public FastClassEmitter(ClassVisitor v, String className, Class type) {
        super(v);
    }
}
Type base = Type.getType(type);
begn_class(Constats.V1_2, Constats.ACC_PUBLIC, className, FAST_CLASS, null,
Constats.SOURCE_FILE);

// constructor
CodeEmitter e = begin_method(Constats.ACC_PUBLIC, CSTRUCT_CLASS, null);
e.load_this();
e.load_args();
e.super_invoke_constructor(CSTRUCT_CLASS);
e.return_value();
e.end_method();

VisibilityPredicate vp = new VisibilityPredicate(type, false);
List methods = ReflectUtils.addAllMethods(type, new ArrayList());
CollectionUtils.filter(methods, vp);
CollectionUtils.filter(methods, new DuplicatesPredicate());
List constructors = new ArrayList(Arrays.asList(type.getDeclaredConstructors()));
CollectionUtils.filter(constructors, vp);

// getIndex(String)
emitIndexBySignature(methods);

// getIndex(String, Class[])
emitIndexByClassArray(methods);

// getIndex(Class[])
e = begin_method(Constats.ACC_PUBLIC, CONSTRUCTOR_GET_INDEX, null);
e.load_args();
List info = CollectionUtils.transform(constructors, MethodInfoTransformer.getInstance());
EmitUtils.constructor_switch(e, info, new GetIndexCallback(e, info));
e.end_method();

// invoke(int, Object, Object[])
e = begin_method(Constats.ACC_PUBLIC, INVOKE, INVOCATION_TARGET_EXCEPTION_ARRAY);
e.load_arg(1);
e.checkcast(base);
e.load_arg(0);
invokeSwitchHelper(e, methods, 2, base);
e.end_method();

// new Instance(int, Object[])
e = begin_method(Constats.ACC_PUBLIC, NEW_INSTANCE,
INVOCATION_TARGET_EXCEPTION_ARRAY);
e.new_instance(base);
e.dup();
e.load_arg(0);
invokeSwitchHelper(e, constructors, 1, base);
e.end_method();
// getMaxIndex()
e = begin_method(Constants.ACC_PUBLIC, GET_MAX_INDEX, null);
  e.push(methods.size() - 1);
  e.return_value();
  e.end_method();

end_class();
}

// TODO: support constructor indices ("<init>")
private void emitIndexBySignature(List methods) {
  CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SIGNATURE_GET_INDEX, null);
  List signatures = CollectionUtils.transform(methods, new Transformer() {
    public Object transform(Object obj) {
      return ReflectUtils.getSignature((Method)obj).toString();
    }
  });
  e.load_arg(0);
  e.invoke_virtual(Constants.TYPE_OBJECT, TO_STRING);
  signatureSwitchHelper(e, signatures);
  e.end_method();
}

private static final int TOO_MANY_METHODS = 100; // TODO
private void emitIndexByClassArray(List methods) {
  CodeEmitter e = begin_method(Constants.ACC_PUBLIC, METHOD_GET_INDEX, null);
  if (methods.size() > TOO_MANY_METHODS) {
    // hack for big classes
    List signatures = CollectionUtils.transform(methods, new Transformer() {
      public Object transform(Object obj) {
        String s = ReflectUtils.getSignature((Method)obj).toString();
        return s.substring(0, s.lastIndexOf(')') + 1);
      }
    });
    e.load_args();
    e.invoke_static(FAST_CLASS, GET_SIGNATURE_WITHOUT_RETURN_TYPE);
    signatureSwitchHelper(e, signatures);
  } else {
    e.load_args();
    List info = CollectionUtils.transform(methods, MethodInfoTransformer.getInstance());
    EmitUtils.method_switch(e, info, new GetIndexCallback(e, info));
  }
  e.end_method();
}

private void signatureSwitchHelper(final CodeEmitter e, final List signatures) {
  ObjectSwitchCallback callback = new ObjectSwitchCallback() {


public void processCase(Object key, Label end) {
    // TODO: remove linear indexOf
    e.push(signatures.indexOf(key));
    e.return_value();
}
public void processDefault() {
    e.push(-1);
    e.return_value();
}
);
EmitUtils.string_switch(e,
    (String[])signatures.toArray(new String[signatures.size()]),
    Constants.SWITCH_STYLE_HASH,
    callback);
}
private static void invokeSwitchHelper(final CodeEmitter e, List members, final int arg, final Type base) {
    final List info = CollectionUtils.transform(members, MethodInfoTransformer.getInstance());
    final Label illegalArg = e.make_label();
    Block block = e.begin_block();
e.process_switch(getIntRange(info.size()), new ProcessSwitchCallback() {
        public void processCase(int key, Label end) {
            MethodInfo method = (MethodInfo)info.get(key);
            Type[] types = method.getSignature().getArgumentTypes();
            for (int i = 0; i < types.length; i++) {
                e.load_arg(arg);
                e.aaload(i);
                e.unbox(types[i]);
            }
            // TODO: change method lookup process so MethodInfo will already reference base
            // instead of superclass when superclass method is inaccessible
            e.invoke(method, base);
            if (!TypeUtils.isConstructor(method)) {
                e.box(method.getSignature().getReturnType());
            }
            e.return_value();
        }
        public void processDefault() {
            e.goTo(illegalArg);
        }
    });
    block.end();
    EmitUtils.wrap_throwable(block, INVOCATION_TARGET_EXCEPTION);
e.mark(illegalArg);
e.throw_exception(ILLEGAL_ARGUMENT_EXCEPTION, "Cannot find matching method/constructor");
}
private static class GetIndexCallback implements ObjectSwitchCallback {
private CodeEmitter e;
private Map indexes = new HashMap();

public GetIndexCallback(CodeEmitter e, List methods) {
    this.e = e;
    int index = 0;
    for (Iterator it = methods.iterator(); it.hasNext();) {
        indexes.put(it.next(), new Integer(index++));
    }
}

public void processCase(Object key, Label end) {
    e.push(((Integer)indexes.get(key)).intValue());
    e.return_value();
}

public void processDefault() {
    e.push(-1);
    e.return_value();
}

private static int[] getIntRange(int length) {
    int[] range = new int[length];
    for (int i = 0; i < length; i++) {
        range[i] = i;
    }
    return range;
}

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 */
package net.sf.cglib.beans;

import java.lang.reflect.Constructor;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

class BulkBeanEmitter extends ClassEmitter {
    private static final Signature GET_PROPERTY_VALUES = TypeUtils.parseSignature("void getPropertyValues(Object, Object[])");
    private static final Signature SET_PROPERTY_VALUES = TypeUtils.parseSignature("void setPropertyValues(Object, Object[])");
    private static final Signature CSTRUCT_EXCEPTION = TypeUtils.parseConstructor("Throwable, int");
    private static final Type BULK_BEAN = TypeUtils.parseType("net.sf.cglib.beans.BulkBean");
    private static final Type BULK_BEAN_EXCEPTION = TypeUtils.parseType("net.sf.cglib.beans.BulkBeanException");

    public BulkBeanEmitter(ClassVisitor v, String className, Class target, String[] getterNames, String[] setterNames, Class[] types) {
        super(v);
        Method[] getters = new Method[getterNames.length];
        Method[] setters = new Method[setterNames.length];
        validate(target, getterNames, setterNames, types, getters, setters);

        begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, BULK_BEAN, null, Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        generateGet(target, getters);
        generateSet(target, setters);
        end_class();
    }

    private void generateGet(final Class target, final Method[] getters) {
        CodeEmitter e = begin_method(Constants.ACC_PUBLIC, GET_PROPERTY_VALUES, null);
        if (getters.length >= 0) {
            e.load_arg(0);
            e.checkcast(Type.getType(target));
            Local bean = e.make_local();
            e.store_local(bean);
            for (int i = 0; i < getters.length; i++) {
                if (getters[i] != null) {
                    e.invoke_interface(bean, getters[i], null);
                }
            }
        }
        e.return_type();
        end_method();
    }

    private void generateSet(final Class target, final Method[] setters) {
        CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SET_PROPERTY_VALUES, null);
        if (setters.length >= 0) {
            e.load_arg(0);
            e.checkcast(Type.getType(target));
            Local bean = e.make_local();
            e.store_local(bean);
            for (int i = 0; i < setters.length; i++) {
                if (setters[i] != null) {
                    e.invoke_interface(bean, setters[i], null);
                }
            }
        }
        e.return_type();
        end_method();
    }
}
MethodInfo getter = ReflectUtils.getMethodInfo(getters[i]);
e.load_arg(1);
e.push(i);
e.load_local(bean);
e.invoke(getter);
e.box(getter.getSignature().getReturnType());
e.aastore();
}
}
e.return_value();
e.end_method();
}

private void generateSet(final Class target, final Method[] setters) {

// setPropertyValues
CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SET_PROPERTY_VALUES, null);
if (setters.length > 0) {
    Local index = e.make_local(Type.INT_TYPE);
e.push(0);
e.store_local(index);
e.load_arg(0);
e.checkcast(Type.getType(target));
e.load_arg(1);
Block handler = e.begin_block();
int lastIndex = 0;
for (int i = 0; i < setters.length; i++) {
    if (setters[i] != null) {
        MethodInfo setter = ReflectUtils.getMethodInfo(setters[i]);
        int diff = i - lastIndex;
        if (diff > 0) {
            e.iinc(index, diff);
            lastIndex = i;
        }
e.dup2();
e.aaload(i);
e.unbox(setter.getSignature().getArgumentTypes()[0]);
e.invoke(setter);
    }
}
handler.end();
e.return_value();
e.catch_exception(handler, Constants.TYPE_THROWABLE);
e.new_instance(BULK_BEAN_EXCEPTION);
e.dup_x1();
e.swap();
e.load_local(index);
e.invoke_constructor(BULK_BEAN_EXCEPTION, CSTRUCT_EXCEPTION);
private static void validate(Class target,
   String[] getters,
   String[] setters,
   Class[] types,
   Method[] getters_out,
   Method[] setters_out) {

   int i = -1;
   if (setters.length != types.length || getters.length != types.length) {
      throw new BulkBeanException("accessor array length must be equal type array length", i);
   }
   try {
      for (i = 0; i < types.length; i++) {
         if (getters[i] != null) {
            Method method = ReflectUtils.findDeclaredMethod(target, getters[i], null);
            if (method.getReturnType() != types[i]) {
               throw new BulkBeanException("Specified type " + types[i] + " does not match declared type " + method.getReturnType(), i);
            }
            if (Modifier.isPrivate(method.getModifiers())) {
               throw new BulkBeanException("Property is private", i);
            }
            getters_out[i] = method;
         }
         if (setters[i] != null) {
            Method method = ReflectUtils.findDeclaredMethod(target, setters[i], new Class[]{types[i]});
            if (Modifier.isPrivate(method.getModifiers())) {
               throw new BulkBeanException("Property is private", i);
            }
            setters_out[i] = method;
         }
      }
   } catch (NoSuchMethodException e) {
      throw new BulkBeanException("Cannot find specified property", i);
   }
}

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*/
package net.sf.cglib.beans;

import java.beans.*;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

class BeanMapEmitter extends ClassEmitter {
    private static final Type BEAN_MAP =
            TypeUtils.parseType("net.sf.cglib.beans.BeanMap");
    private static final Type FIXED_KEY_SET =
            TypeUtils.parseType("net.sf.cglib.beans.FixedKeySet");
    private static final Signature CSTRUCT_OBJECT =
            TypeUtils.parseConstructor("Object");
    private static final Signature CSTRUCT_STRING_ARRAY =
            TypeUtils.parseConstructor("String[]");
    private static final Signature BEAN_MAP_GET =
            TypeUtils.parseSignature("Object get(Object, Object)");
    private static final Signature BEAN_MAP_PUT =
            TypeUtils.parseSignature("Object put(Object, Object, Object)");
    private static final Signature KEY_SET =
            TypeUtils.parseSignature("java.util.Set keySet()");
    private static final Signature NEW_INSTANCE =
            new Signature("newInstance", BEAN_MAP, new Type[]{ Constants.TYPE_OBJECT });
    private static final Signature GET_PROPERTY_TYPE =
            TypeUtils.parseSignature("Class getPropertyType(String"));

    public BeanMapEmitter(ClassVisitor v, String className, Class type, int require) { 
        super(v);

        begin_class( Constants.V1_2, Constants.ACC_PUBLIC, className, BEAN_MAP, null, 
                Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        EmitUtils.factory_method(this, NEW_INSTANCE);
        generateConstructor();
    }
}

Open Source Used In WAE 6.2
Map getters = makePropertyMap(ReflectUtils.getBeanGetters(type));
Map setters = makePropertyMap(ReflectUtils.getBeanSetters(type));
Map allProps = new HashMap();
allProps.putAll(getters);
allProps.putAll(setters);

if (require != 0) {
    for (Iterator it = allProps.keySet().iterator(); it.hasNext();) {
        String name = (String)it.next();
        if ((((require & BeanMap.REQUIRE_GETTER) != 0) && !getters.containsKey(name)) ||
            (((require & BeanMap.REQUIRE_SETTER) != 0) && !setters.containsKey(name))) {
            it.remove();
            getters.remove(name);
            setters.remove(name);
        }
    }
}
generateGet(type, getters);
generatePut(type, setters);

String[] allNames = getNames(allProps);
generateKeySet(allNames);
generateGetPropertyType(allProps, allNames);
end_class();

private Map makePropertyMap(PropertyDescriptor[] props) {
    Map names = new HashMap();
    for (int i = 0; i < props.length; i++) {
        names.put(((PropertyDescriptor)props[i]).getName(), props[i]);
    }
    return names;
}

private String[] getNames(Map propertyMap) {
    return (String[])propertyMap.keySet().toArray(new String[propertyMap.size()]);
}

private void generateConstructor() {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT, null);
    e.load_this();
    e.load_arg(0);
    e.super_invoke_constructor(CSTRUCT_OBJECT);
    e.return_value();
    e.end_method();
}

private void generateGet(Class type, final Map getters) {
final CodeEmitter e = begin_method(Constructs.ACC_PUBLIC, BEAN_MAP_GET, null);
e.load_arg(0);
e.checkcast(Type.getType(type));
e.load_arg(1);
e.checkcast(Constructs.TYPE_STRING);
EmitUtils.string_switch(e, getNames(getters), Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
    public void processCase(Object key, Label end) {
        PropertyDescriptor pd = (PropertyDescriptor)getters.get(key);
        MethodInfo method = ReflectUtils.getMethodInfo(pd.getReadMethod());
        e.invoke(method);
        e.box(method.getSignature().getReturnType());
        e.return_value();
    }
    public void processDefault() {
        e.aconst_null();
        e.return_value();
    }
});
e.end_method();
}

private void generatePut(Class type, final Map setters) {
    final CodeEmitter e = begin_method(Constructs.ACC_PUBLIC, BEAN_MAP_PUT, null);
e.load_arg(0);
e.checkcast(Type.getType(type));
e.load_arg(1);
e.checkcast(Constructs.TYPE_STRING);
EmitUtils.string_switch(e, getNames(setters), Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
    public void processCase(Object key, Label end) {
        PropertyDescriptor pd = (PropertyDescriptor)setters.get(key);
        if (pd.getReadMethod() == null) {
            e.aconst_null();
        } else {
            MethodInfo read = ReflectUtils.getMethodInfo(pd.getReadMethod());
            e.dup();
            e.invoke(read);
            e.box(read.getSignature().getReturnType());
        }
        e.swap(); // move old value behind bean
        e.load_arg(2); // new value
        MethodInfo write = ReflectUtils.getMethodInfo(pd.getWriteMethod());
        e.unbox(write.getSignature().getArgumentTypes()[0]);
        e.invoke(write);
        e.return_value();
    }
    public void processDefault() {

private void generateKeySet(String[] allNames) {
    // static initializer
    declare_field( Constants.ACC_STATIC | Constants.ACC_PRIVATE, "keys", FIXED_KEY_SET, null);

    CodeEmitter e = begin_static();
    e.new_instance(FIXED_KEY_SET);
    e.dup();
    EmitUtils.push_array(e, allNames);
    e.invoke_constructor(FIXED_KEY_SET, CSTRUCT_STRING_ARRAY);
    e.putfield("keys");
    e.return_value();
    e.end_method();

    // keySet
    e = begin_method( Constants.ACC_PUBLIC, KEY_SET, null);
    e.load_this();
    e.getfield("keys");
    e.return_value();
    e.end_method();
}

private void generateGetPropertyType(final Map allProps, String[] allNames) {
    final CodeEmitter e = begin_method( Constants.ACC_PUBLIC, GET_PROPERTY_TYPE, null);
    e.load_arg(0);
    EmitUtils.string_switch(e, allNames, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
        public void processCase(Object key, Label end) {
            PropertyDescriptor pd = (PropertyDescriptor)allProps.get(key);
            EmitUtils.load_class(e, Type.getType(pd.getPropertyType()));
            e.return_value();
        }
        public void processDefault() {
            e.aconst_null();
            e.return_value();
        }
    });
    e.end_method();
}

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*/
package net.sf.cglib.transform;

import net.sf.cglib.core.ClassEmitter;

abstract public class ClassEmitterTransformer extends ClassEmitter implements ClassTransformer {
}

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 */
package net.sf.cglib.core;

import java.io.*;
import java.util.*;
import org.objectweb.asm.*;

/**<*/
* @author Juozas Baliuka, Chris Nokleberg
* /
public class ClassEmitter extends ClassAdapter {
    private ClassInfo classInfo;
    private Map fieldInfo;

    private static int hookCounter;

    private ClassInfo classInfo;
    private Map fieldInfo;

    private static int hookCounter;
}
private MethodVisitor rawStaticInit;
private CodeEmitter staticInit;
private CodeEmitter staticHook;
private Signature staticHookSig;

public ClassEmitter(ClassVisitor cv) {
    super(null);
    setTarget(cv);
}

public ClassEmitter() {
    super(null);
}

public void setTarget(ClassVisitor cv) {
    this.cv = cv;
    fieldInfo = new HashMap();

    // just to be safe
    staticInit = staticHook = null;
    staticHookSig = null;
}

synchronized private static int getNextHook() {
    return ++hookCounter;
}

public ClassInfo getClassInfo() {
    return classInfo;
}

public void begin_class(int version, final int access, String className, final Type superType, final Type[] interfaces, String source) {
    final Type classType = Type.getType("L" + className.replace('.', '/') + ";");
    classInfo = new ClassInfo() {
        public Type getType() {
            return classType;
        }
        public Type getSuperType() {
            return (superType != null) ? superType : Constants.TYPE_OBJECT;
        }
        public Type[] getInterfaces() {
            return interfaces;
        }
        public int getModifiers() {
            return access;
        }
    };
}
cv.visit(version,
       access,
       classInfo.getType().getInternalName(),
       null,
       classInfo.getSuperType().getInternalName(),
       TypeUtils.toInternalNames(interfaces));
if (source != null)
    cv.visitSource(source, null);
init();
}

public CodeEmitter getStaticHook() {
    if (TypeUtils.isInterface(getAccess())) {
        throw new IllegalStateException("static hook is invalid for this class");
    }
    if (staticHook == null) {
        staticHookSig = new Signature("CGLIB$STATICHOOK" + getNextHook(), "()V");
        staticHook = begin_method(Constants.ACC_STATIC,
                                   staticHookSig,
                                   null);
        if (staticInit != null) {
            staticInit.invoke_static_this(staticHookSig);
        }
    }
    return staticHook;
}

protected void init() {
}

public int getAccess() {
    return classInfo.getModifiers();
}

public Type getClassType() {
    return classInfo.getType();
}

public Type getSuperType() {
    return classInfo.getSuperType();
}

public void end_class() {
    if (staticHook != null && staticInit == null) {
        // force creation of static init
        begin_static();
    }
    if (staticInit != null) {  

staticHook.return_value();
staticHook.end_method();
rawStaticInit.visitInsn(Constants.RETURN);
rawStaticInit.visitMaxs(0, 0);
staticInit = staticHook = null;
staticHookSig = null;
}

cv.visitEnd();
}

public CodeEmitter begin_method(int access, Signature sig, Type[] exceptions) {
if (classInfo == null)
    throw new IllegalStateException("classInfo is null! " + this);
MethodVisitor v = cv.visitMethod(access,
    sig.getName(),
    sig.getDescriptor(),
    null,
    TypeUtils.toInternalNames(exceptions));
if (sig.equals(Constants.SIG_STATIC) && !TypeUtils.isInterface(getAccess())) {
    rawStaticInit = v;
    MethodVisitor wrapped = new MethodAdapter(v) {
        public void visitMaxs(int maxStack, int maxLocals) {
            // ignore
        }
        public void visitInsn(int insn) {
            if (insn != Constants.RETURN) {
                super.visitInsn(insn);
            }
        }
    };
    staticInit = new CodeEmitter(this, wrapped, access, sig, exceptions);
    if (staticHook == null) {
        // force static hook creation
        getStaticHook();
    } else {
        staticInit.invoke_static_this(staticHookSig);
    }
    return staticInit;
} else if (sig.equals(staticHookSig)) {
    return new CodeEmitter(this, v, access, sig, exceptions) {
        public boolean isStaticHook() {
            return true;
        }
    };
} else {
    return new CodeEmitter(this, v, access, sig, exceptions);
}
}
public CodeEmitter begin_static() {
    return begin_method(Constants.ACC_STATIC, Constants.SIG_STATIC, null);
}

public void declare_field(int access, String name, Type type, Object value) {
    FieldInfo existing = (FieldInfo)fieldInfo.get(name);
    FieldInfo info = new FieldInfo(access, name, type, value);
    if (existing != null) {
        if (!info.equals(existing)) {
            throw new IllegalArgumentException("Field "+ name + " has been declared differently");
        }
    } else {
        fieldInfo.put(name, info);
        cv.visitField(access, name, type.getDescriptor(), null, value);
    }
}

// TODO: make public?
boolean isFieldDeclared(String name) {
    return fieldInfo.get(name) != null;
}

FieldInfo getFieldInfo(String name) {
    FieldInfo field = (FieldInfo)fieldInfo.get(name);
    if (field == null) {
        throw new IllegalArgumentException("Field "+ name + " is not declared in " + getClassType().getClassName());
    }
    return field;
}

static class FieldInfo {
    int access;
    String name;
    Type type;
    Object value;

    public FieldInfo(int access, String name, Type type, Object value) {
        this.access = access;
        this.name = name;
        this.type = type;
        this.value = value;
    }

    public boolean equals(Object o) {
        if (o == null) {
            return false;
        }
        ...
    }
}
if (!(o instanceof FieldInfo))
    return false;
FieldInfo other = (FieldInfo)o;
if (access != other.access ||
    !name.equals(other.name) ||
    !type.equals(other.type)) {
    return false;
}
if ((value == null) ^ (other.value == null))
    return false;
if (value != null && !value.equals(other.value))
    return false;
return true;
}

public int hashCode() {
    return access ^ name.hashCode() ^ type.hashCode() ^ ((value == null) ? 0 : value.hashCode());
}

public int version)
    
    int access,
    String name,
    String signature,
    String superName,
    String[] interfaces) {
begin_class(version,
    access,
    name.replace('/', '.'),
    TypeUtils.fromInternalName(superName),
    TypeUtils.fromInternalNames(interfaces),
    null); // TODO
}

public void visitEnd() {
    end_class();
}

public FieldVisitor visitField(int access,
    String name,
    String desc,
    String signature,
    Object value) {
    declare_field(access, name, Type.getType(desc), value);
    return null; // TODO
}

public MethodVisitor visitMethod(int access,
String name,
String desc,
String signature,
String[] exceptions) {
    return begin_method(access,
        new Signature(name, desc),
        TypeUtils.fromInternalNames(exceptions));
}
*/

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 * limitations under the License.
 */
package net.sf.cglib.core;

import java.util.Set;

/**
 * Customize the generated class name for [@link AbstractClassGenerator]-based utilities.
 */
public interface NamingPolicy {

    /**
     * Choose a name for a generated class.
     * @param prefix a dotted-name chosen by the generating class (possibly to put the generated class in a particular package)
     * @param source the fully-qualified class name of the generating class (for example "net.sf.cglib.Enhancer")
     * @param key A key object representing the state of the parameters; for caching to work properly, equal keys should result
     * in the same generated class name. The default policy incorporates <code>key.hashCode()</code> into the class name.
     * @param names a predicate that returns true if the given classname has already been used in the same ClassLoader.
     * @return the fully-qualified class name
     */
    String getClassName(String prefix, String source, Object key, Predicate names);

}
* The <code>NamingPolicy</code> in use does not currently, but may
* in the future, affect the caching of classes generated by [ @link
* AbstractClassGenerator], so this is a reminder that you should
* correctly implement <code>equals</code> and <code>hashCode</code>
* to avoid generating too many classes.
*/
    boolean equals(Object o);
}
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*/
package net.sf.cglib.core;

import java.io.*;
import java.util.*;
import org.objectweb.asm.*;

/**
* @author Juozas Baliuka, Chris Nokleberg
*/
public class CodeEmitter extends LocalVariablesSorter {
    private static final Signature BOOLEAN_VALUE =
        TypeUtils.parseSignature("boolean booleanValue()");
    private static final Signature CHAR_VALUE =
        TypeUtils.parseSignature("char charValue()");
    private static final Signature LONG_VALUE =
        TypeUtils.parseSignature("long longValue()");
    private static final Signature DOUBLE_VALUE =
        TypeUtils.parseSignature("double doubleValue()");
    private static final Signature FLOAT_VALUE =
        TypeUtils.parseSignature("float floatValue()");
    private static final Signature INT_VALUE =
        TypeUtils.parseSignature("int intValue()");
    private static final Signature CSTRUCT_NULL =
        TypeUtils.parseConstructor(""");
    private static final Signature CSTRUCT_STRING =
        TypeUtils.parseSignature("Object stringValue()");
}
public static final int ADD = Constants.IADD;
public static final int MUL = Constants.IMUL;
public static final int XOR = Constants.IXOR;
public static final int USHR = Constants.IUSHR;
public static final int SUB = Constants.ISUB;
public static final int DIV = Constants.IDIV;
public static final int NEG = Constants.INEG;
public static final int REM = Constants.IREM;
public static final int AND = Constants.IAND;
public static final int OR = Constants.IOR;

public static final int GT = Constants.IFGT;
public static final int LT = Constants.IFLT;
public static final int GE = Constants.IFGE;
public static final int LE = Constants.IFLE;
public static final int NE = Constants.IFNE;
public static final int EQ = Constants.IFEQ;

private ClassEmitter ce;
private State state;

private static class State
extends MethodInfo
{
    ClassInfo classInfo;
    int access;
    Signature sig;
    Type[] argumentTypes;
    int localOffset;
    Type[] exceptionTypes;

    State(ClassInfo classInfo, int access, Signature sig, Type[] exceptionTypes) {
        this.classInfo = classInfo;
        this.access = access;
        this.sig = sig;
        this.exceptionTypes = exceptionTypes;
        localOffset = TypeUtils.isStatic(access) ? 0 : 1;
        argumentTypes = sig.getArgumentTypes();
    }

    public ClassInfo getClassInfo() {
        return classInfo;
    }

    public int getModifiers() {
        return access;
    }
}
public Signature getSignature() {
    return sig;
}

public Type[] getExceptionTypes() {
    return exceptionTypes;
}

public Attribute getAttribute() {
    // TODO
    return null;
}

CodeEmitter(ClassEmitter ce, MethodVisitor mv, int access, Signature sig, Type[] exceptionTypes) {
    super(access, sig.getDescriptor(), mv);
    this.ce = ce;
    state = new State(ce.getClassInfo(), access, sig, exceptionTypes);
}

public CodeEmitter(CodeEmitter wrap) {
    super(wrap);
    this.ce = wrap.ce;
    this.state = wrap.state;
}

public boolean isStaticHook() {
    return false;
}

public Signature getSignature() {
    return state.sig;
}

public Type getReturnType() {
    return state.sig.getReturnType();
}

public MethodInfo getMethodInfo() {
    return state;
}

public ClassEmitter getClassEmitter() {
    return ce;
}
public void end_method() {
    visitMaxs(0, 0);
}

public Block begin_block() {
    return new Block(this);
}

public void catch_exception(Block block, Type exception) {
    if (block.getEnd() == null) {
        throw new IllegalStateException("end of block is unset");
    }
    mv.visitTryCatchBlock(block.getStart(),
                          block.getEnd(),
                          mark(),
                          exception.getInternalName());
}

public void goTo(Label label) { mv.visitJumpInsn(Constants.GOTO, label); }
public void ifnonnull(Label label) { mv.visitJumpInsn(Constants.IFNONNULL, label); }

public void if_jump(int mode, Label label) {
    mv.visitJumpInsn(mode, label);
}

public void if_cmp(int mode, Label label) {
    if_cmp(Type.INT_TYPE, mode, label);
}

public void if_cmp(Type type, int mode, Label label) {
    int intOp = -1;
    int jumpmode = mode;
    switch (mode) {
        case GE: jumpmode = LT; break;
        case LE: jumpmode = GT; break;
    }
    switch (type.getSort()) {
        case Type.LONG:
            mv.visitInsn(Constants.LCMP);
            break;
        case Type.DOUBLE:
            mv.visitInsn(Constants.DCMPG);
            break;
        case Type.FLOAT:
            mv.visitInsn(Constants.FCMPG);
            break;
        case Type.ARRAY:
case Type.OBJECT:
    switch (mode) {
    case EQ:
        mv.visitJumpInsn(Constants.IF_ACMPEQ, label);
        return;
    case NE:
        mv.visitJumpInsn(Constants.IF_ACMPNE, label);
        return;
    }
    throw new IllegalArgumentException("Bad comparison for type " + type);
default:
    switch (mode) {
    case EQ: intOp = Constants.IF_ICMPEQ; break;
    case NE: intOp = Constants.IF_ICMPNE; break;
    case GE: swap(); /* fall through */
    case LT: intOp = Constants.IF_ICMPLT; break;
    case LE: swap(); /* fall through */
    case GT: intOp = Constants.IF_ICMPGT; break;
    }
    mv.visitJumpInsn(intOp, label);
    return;
    }
    if_jump(jumpmode, label);
}

public void pop() { mv.visitInsn(Constants.POP); }
public void pop2() { mv.visitInsn(Constants.POP2); }
public void dup() { mv.visitInsn(Constants.DUP); }
public void dup2() { mv.visitInsn(Constants.DUP2); }
public void dup_x1() { mv.visitInsn(Constants.DUP_X1); }
public void dup_x2() { mv.visitInsn(Constants.DUP_X2); }
public void dup2_x1() { mv.visitInsn(Constants.DUP2_X1); }
public void dup2_x2() { mv.visitInsn(Constants.DUP2_X2); }
public void swap() { mv.visitInsn(Constants.SWAP); }
public void aconst_null() { mv.visitInsn(Constants.ACONST_NULL); }

public void swap(Type prev, Type type) {
    if (type.getSize() == 1) {
        if (prev.getSize() == 1) {
            swap(); // same as dup_x1(), pop();
        } else {
            dup_x2();
            pop();
        }
    } else {
        if (prev.getSize() == 1) {
            dup2_x1();
            pop2();
        } else {
            // Additional cases for swap(prev, type)
public void monitorenter() { mv.visitInsn(Constants.MONITORENTER); }
public void monitorexit() { mv.visitInsn(Constants.MONITOREXIT); }

dup2_x2();
pop2();
}
}

public void math(int op, Type type) { mv.visitInsn(type.getOpcode(op)); }

public void array_load(Type type) { mv.visitInsn(type.getOpcode(Constants.IALOAD)); }
public void array_store(Type type) { mv.visitInsn(type.getOpcode(Constants.IASTORE)); }

/**
 * Casts from one primitive numeric type to another
 */
public void cast_numeric(Type from, Type to) {
    if (from != to) {
        if (from == Type.DOUBLE_TYPE) {
            if (to == Type.FLOAT_TYPE) {
                mv.visitInsn(Constants.D2F);
            } else if (to == Type.LONG_TYPE) {
                mv.visitInsn(Constants.D2L);
            } else {
                mv.visitInsn(Constants.D2I);
                cast_numeric(Type.INT_TYPE, to);
            }
        } else if (from == Type.FLOAT_TYPE) {
            if (to == Type.DOUBLE_TYPE) {
                mv.visitInsn(Constants.F2D);
            } else if (to == Type.LONG_TYPE) {
                mv.visitInsn(Constants.F2L);
            } else {
                mv.visitInsn(Constants.F2I);
                cast_numeric(Type.INT_TYPE, to);
            }
        } else if (from == Type.LONG_TYPE) {
            if (to == Type.DOUBLE_TYPE) {
                mv.visitInsn(Constants.L2D);
            } else if (to == Type.FLOAT_TYPE) {
                mv.visitInsn(Constants.L2F);
            } else {
                mv.visitInsn(Constants.L2I);
                cast_numeric(Type.INT_TYPE, to);
            }
        } else {
        }
    }
}
if (to == Type.BYTE_TYPE) {
    mv.visitInsn(Constants.I2B);
} else if (to == Type.CHAR_TYPE) {
    mv.visitInsn(Constants.I2C);
} else if (to == Type.DOUBLE_TYPE) {
    mv.visitInsn(Constants.I2D);
} else if (to == Type.FLOAT_TYPE) {
    mv.visitInsn(Constants.I2F);
} else if (to == Type.LONG_TYPE) {
    mv.visitInsn(Constants.I2L);
} else if (to == Type.SHORT_TYPE) {
    mv.visitInsn(Constants.I2S);
}

public void push(int i) {
    if (i < -1) {
        mv.visitLdcInsn(new Integer(i));
    } else if (i <= 5) {
        mv.visitInsn(TypeUtils.ICONST(i));
    } else if (i <= Byte.MAX_VALUE) {
        mv.visitIntInsn(Constants.BIPUSH, i);
    } else if (i <= Short.MAX_VALUE) {
        mv.visitIntInsn(Constants.SIPUSH, i);
    } else {
        mv.visitLdcInsn(new Integer(i));
    }
}

public void push(long value) {
    if (value == 0L || value == 1L) {
        mv.visitInsn(TypeUtils.LCONST(value));
    } else {
        mv.visitLdcInsn(new Long(value));
    }
}

public void push(float value) {
    if (value == 0f || value == 1f || value == 2f) {
        mv.visitInsn(TypeUtils.FCONST(value));
    } else {
        mv.visitLdcInsn(new Float(value));
    }
}

public void push(double value) {
    if (value == 0d || value == 1d) {
mv.visitInsn(TypeUtils.DCONST(value));
} else {
    mv.visitLdcInsn(new Double(value));
}
}

public void push(String value) {
    mv.visitLdcInsn(value);
}

public void newArray() {
    newArray(Constants.TYPE_OBJECT);
}

public void newArray(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        mv.visitIntInsn(Constants.NEWARRAY, TypeUtils.NEWARRAY(type));
    } else {
        emit_type(Constants.ANEWARRAY, type);
    }
}

public void arraylength() {
    mv.visitInsn(Constants.ARRAYLENGTH);
}

public void load_this() {
    if (TypeUtils.isStatic(state.access)) {
        throw new IllegalStateException("no 'this' pointer within static method");
    }
    mv.visitVarInsn(Constants.ALOAD, 0);
}

/**
 * Pushes all of the arguments of the current method onto the stack.
 */
public void load_args() {
    load_args(0, state.argumentTypes.length);
}

/**
 * Pushes the specified argument of the current method onto the stack.
 * @param index the zero-based index into the argument list
 */
public void load_arg(int index) {
    load_local(state.argumentTypes[index], state.localOffset + skipArgs(index));
}
// zero-based (see load_this)
public void load_args(int fromArg, int count) {
    int pos = state.localOffset + skipArgs(fromArg);
    for (int i = 0; i < count; i++) {
        Type t = state.argumentTypes[fromArg + i];
        load_local(t, pos);
        pos += t.getSize();
    }
}

private int skipArgs(int numArgs) {
    int amount = 0;
    for (int i = 0; i < numArgs; i++) {
        amount += state.argumentTypes[i].getSize();
    }
    return amount;
}

private void load_local(Type t, int pos) {
    // TODO: make t == null ok?
    mv.visitVarInsn(t.getOpcode(Constants.ILOAD), pos);
}

private void store_local(Type t, int pos) {
    // TODO: make t == null ok?
    mv.visitVarInsn(t.getOpcode(Constants.ISTORE), pos);
}

public void iinc(Local local, int amount) {
    mv.visitIincInsn(local.getIndex(), amount);
}

public void store_local(Local local) {
    store_local(local.getType(), local.getIndex());
}

public void load_local(Local local) {
    load_local(local.getType(), local.getIndex());
}

public void return_value() {
    mv.visitInsn(state.sig.getReturnType().getOpcode(Constants.IRETURN));
}

public void getfield(String name) {
    ClassEmitter.FieldInfo info = ce.getFieldInfo(name);
    int opcode = TypeUtils.isStatic(info.access) ? Constants.GETSTATIC : Constants.GETFIELD;
    }
emit_field(opcode, ce.getClassType(), name, info.type);
}

public void putfield(String name) {
    ClassEmitter.FieldInfo info = ce.getFieldInfo(name);
    int opcode = TypeUtils.isStatic(info.access) ? Constants.PUTSTATIC : Constants.PUTFIELD;
    emit_field(opcode, ce.getClassType(), name, info.type);
}

public void super_getfield(String name, Type type) {
    emit_field(Constants.GETFIELD, ce.getSuperType(), name, type);
}

public void super_putfield(String name, Type type) {
    emit_field(Constants.PUTFIELD, ce.getSuperType(), name, type);
}

public void super_getstatic(String name, Type type) {
    emit_field(Constants.GETSTATIC, ce.getSuperType(), name, type);
}

public void super_putstatic(String name, Type type) {
    emit_field(Constants.PUTSTATIC, ce.getSuperType(), name, type);
}

public void getfield(Type owner, String name, Type type) {
    emit_field(Constants.GETFIELD, owner, name, type);
}

public void putfield(Type owner, String name, Type type) {
    emit_field(Constants.PUTFIELD, owner, name, type);
}

public void getstatic(Type owner, String name, Type type) {
    emit_field(Constants.GETSTATIC, owner, name, type);
}

public void putstatic(Type owner, String name, Type type) {
    emit_field(Constants.PUTSTATIC, owner, name, type);
}

// package-protected for EmitUtils, try to fix
void emit_field(int opcode, Type ctype, String name, Type ftype) {
    mv.visitFieldInsn(opcode,
        ctype.getInternalName(),
        name,
        ftype.getDescriptor());
}
public void super_invoke() {
    super.invoke(state.sig);
}

public void super_invoke(Signature sig) {
    emit_invoke(Constants.INVOKESPECIAL, ce.getSuperType(), sig);
}

public void super_invoke_constructor() {
    invoke_constructor(ce.getSuperType());
}

public void invoke_constructor() {
    invoke_constructor(ce.getSuperType());
}

private void emit_invoke(int opcode, Type type, Signature sig) {
    if (sig.getName().equals(Constants.CONSTRUCTOR_NAME) &&
        ((opcode == Constants.INVOKEVIRTUAL) ||
        (opcode == Constants.INVOKESTATIC))) {
        // TODO: error
    }
    mv.visitMethodInsn(opcode,
                      type.getInternalName(),
                      sig.getName(),
                      sig.getDescriptor());
}

public void invoke_interface() {
    emit_invoke(Constants.INVOKEINTERFACE, owner, sig);
}

public void invoke_virtual() {
    emit_invoke(Constants.INVOKEVIRTUAL, owner, sig);
}

public void invoke_static() {
    emit_invoke(Constants.INVOKESTATIC, owner, sig);
}

public void invoke_virtual_this() {
    invoke_virtual(ce.getClassType(), sig);
}
public void invoke_static_this(Signature sig) {
    invoke_static(ce.getClassType(), sig);
}

public void invoke_constructor(Type type, Signature sig) {
    emit_invoke(Constants.INVOKESPECIAL, type, sig);
}

public void invoke_constructor_this(Signature sig) {
    invoke_constructor(ce.getClassType(), sig);
}

public void super_invoke_constructor(Signature sig) {
    invoke_constructor(ce.getSuperType(), sig);
}

public void new_instance_this() {
    new_instance(ce.getClassType());
}

public void new_instance(Type type) {
    emit_type(Constants.NEW, type);
}

private void emit_type(int opcode, Type type) {
    String desc;
    if (TypeUtils.isArray(type)) {
        desc = type.getDescriptor();
    } else {
        desc = type.getInternalName();
    }
    mv.visitTypeInsn(opcode, desc);
}

public void aaload(int index) {
    push(index);
    aaload();
}

public void aaload() { mv.visitInsn(Constants.AALOAD); }
public void aastore() { mv.visitInsn(Constants.AASTORE); }
public void athrow() { mv.visitInsn(Constants.ATHROW); }

public Label make_label() {
    return new Label();
}
public Local make_local() {
    return make_local(Constants.TYPE_OBJECT);
}

public Local make_local(Type type) {
    return new Local(newLocal(type.getSize()), type);
}

public void checkcast_this() {
    checkcast(ce.getClassType());
}

public void checkcast(Type type) {
    if (!type.equals(Constants.TYPE_OBJECT)) {
        emit_type(Constants.CHECKCAST, type);
    }
}

public void instance_of(Type type) {
    emit_type(Constants.INSTANCEOF, type);
}

public void instance_of_this() {
    instance_of(ce.getClassType());
}

public void process_switch(int[] keys, ProcessSwitchCallback callback) {
    float density;
    if (keys.length == 0) {
        density = 0;
    } else {
        density = (float)keys.length / (keys[keys.length - 1] - keys[0] + 1);
    }
    process_switch(keys, callback, density >= 0.5f);
}

public void process_switch(int[] keys, ProcessSwitchCallback callback, boolean useTable) {
    if (!isSorted(keys))
        throw new IllegalArgumentException("keys to switch must be sorted ascending");
    Label def = make_label();
    Label end = make_label();
    try {
        if (keys.length > 0) {
            int len = keys.length;
            int min = keys[0];
            int max = keys[len - 1];
            int range = max - min + 1;
            // code here...
        }
    } finally {
        def.emit_label();
        end.emit_final_label();
    }
}
if (useTable) {
    Label[] labels = new Label[range];
    Arrays.fill(labels, def);
    for (int i = 0; i < len; i++) {
        labels[keys[i] - min] = make_label();
    }
    mv.visitTableSwitchInsn(min, max, def, labels);
    for (int i = 0; i < range; i++) {
        Label label = labels[i];
        if (label != def) {
            mark(label);
            callback.processCase(i + min, end);
        }
    }
} else {
    Label[] labels = new Label[len];
    for (int i = 0; i < len; i++) {
        labels[i] = make_label();
    }
    mv.visitLookupSwitchInsn(def, keys, labels);
    for (int i = 0; i < len; i++) {
        mark(labels[i]);
        callback.processCase(keys[i], end);
    }
}
mark(def);
callback.processDefault();
mark(end);
}

private static boolean isSorted(int[] keys) {
    for (int i = 1; i < keys.length; i++) {
        if (keys[i] < keys[i - 1])
            return false;
    }
    return true;
}
public void mark(Label label) {
    mv.visitLabel(label);
}

Label mark() {
    Label label = make_label();
    mv.visitLabel(label);
    return label;
}

public void push(boolean value) {
    push(value ? 1 : 0);
}

/**
 * Toggles the integer on the top of the stack from 1 to 0 or vice versa
 */
public void not() {
    push(1);
    math(XOR, Type.INT_TYPE);
}

public void throw_exception(Type type, String msg) {
    new_instance(type);
    dup();
    push(msg);
    invoke_constructor(type, CSTRUCT_STRING);
    athrow();
}

/**
 * If the argument is a primitive class, replaces the primitive value
 * on the top of the stack with the wrapped (Object) equivalent. For
 * example, char -> Character.
 * If the class is Void, a null is pushed onto the stack instead.
 * @param type the class indicating the current type of the top stack value
 */
public void box(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type == Type.VOID_TYPE) {
            aconst_null();
        } else {
            Type boxed = TypeUtils.getBoxedType(type);
            new_instance(boxed);
            if (type.getSize() == 2) {
                // Pp -> Ppo -> oPpo -> ooPpo -> ooPp -> o
                dup_x2();
            }
        }
    } else {
        Type boxed = TypeUtils.getBoxedType(type);
        new_instance(boxed);
        if (type.getSize() == 2) {
            // Pp -> Ppo -> oPpo -> ooPpo -> ooPp -> o
            dup_x2();
        }
    }
}
dup_x2();
pop();
} else {
    // p -> po -> opo -> oop -> o
    dup_x1();
    swap();
}

invoke_constructor(boxed, new Signature(Constants.CONSTRUCTOR_NAME, Type.VOID_TYPE, new Type[]{ type }));

/**
* If the argument is a primitive class, replaces the object
* on the top of the stack with the unwrapped (primitive)
* equivalent. For example, Character -> char.
* @param type the class indicating the desired type of the top stack value
* @return true if the value was unboxed
*/
public void unbox(Type type) {
    Type t = Constants.TYPE_NUMBER;
    Signature sig = null;
    switch (type.getSort()) {
    case Type.VOID:
        return;
    case Type.CHAR:
        t = Constants.TYPE_CHARACTER;
        sig = CHAR_VALUE;
        break;
    case Type.BOOLEAN:
        t = Constants.TYPE_BOOLEAN;
        sig = BOOLEAN_VALUE;
        break;
    case Type.DOUBLE:
        sig = DOUBLE_VALUE;
        break;
    case Type.FLOAT:
        sig = FLOAT_VALUE;
        break;
    case Type.LONG:
        sig = LONG_VALUE;
        break;
    case Type.INT:
    case Type.SHORT:
    case Type.BYTE:
        sig = INT_VALUE;
    }
}
if (sig == null) {
    checkcast(type);
} else {
    checkcast(t);
    invoke_virtual(t, sig);
}

/**
 * Allocates and fills an Object[] array with the arguments to the
 * current method. Primitive values are inserted as their boxed
 * (Object) equivalents.
 */
public void create_arg_array() {
    /* generates:
       Object[] args = new Object[] { arg1, new Integer(arg2) };
    */
    push(state.argumentTypes.length);
    newarray();
    for (int i = 0; i < state.argumentTypes.length; i++) {
        dup();
        push(i);
        load_arg(i);
        box(state.argumentTypes[i]);
        aastore();
    }
}

/**
 * Pushes a zero onto the stack if the argument is a primitive class, or a null otherwise.
 */
public void zero_or_null(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        switch (type.getSort()) {
        case Type.DOUBLE:
            push(0d);
            break;
        case Type.LONG:
            push(0L);
            break;
        case Type.FLOAT:
            push(0f);
            break;
        case Type.VOID:
            aconst_null();
            break;
        }
    }
default:
    push(0);
}
} else {
    aconst_null();
}
}

/**
 * Unboxes the object on the top of the stack. If the object is null, the
 * unboxed primitive value becomes zero.
 */
public void unbox_or_zero(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type != Type.VOID_TYPE) {
            Label nonNull = make_label();
            Label end = make_label();
            dup();
            ifnonnull(nonNull);
            pop();
            zero_or_null(type);
            goTo(end);
            mark(nonNull);
            unbox(type);
            mark(end);
        }
    } else {
        checkcast(type);
    }
}

public void visitMaxs(int maxStack, int maxLocals) {
    if (!TypeUtils.isAbstract(state.access)) {
        mv.visitMaxs(0, 0);
    }
}

public void invoke(MethodInfo method, Type virtualType) {
    ClassInfo classInfo = method.getClassInfo();
    Type type = classInfo.getType();
    Signature sig = method.getSignature();
    if (sig.getName().equals(Constants.CONSTRUCTOR_NAME)) {
        invoke_constructor(type, sig);
    } else if (TypeUtils.isInterface(classInfo.getModifiers())) {
        invoke_interface(type, sig);
    } else if (TypeUtils.isStatic(method.getModifiers())) {
        invoke_static(type, sig);
    } else {
public class EmitUtils {
    private static final Signature CSTRUCT_NULL =
        TypeUtils.parseConstructor("\n");
    private static final Signature CSTRUCT_THROWABLE =
        TypeUtils.parseConstructor("Throwable\n");

    private static final Signature GET_NAME =
        TypeUtils.parseSignature("String getName()");
    private static final Signature HASH_CODE =
        TypeUtils.parseSignature("int hashCode()");
    private static final Signature EQUALS =
        TypeUtils.parseSignature("boolean equals(Object\n")
    private static final Signature STRING_LENGTH =
        TypeUtils.parseSignature("int length()");
    private static final Signature STRING_CHAR_AT =
        TypeUtils.parseSignature("char charAt(int\n")
    private static final Signature FOR_NAME =
        TypeUtils.parseSignature("\n")


TypeUtils.parseSignature("Class forName(String)");
private static final Signature DOUBLE_TO_LONG_BITS =
    TypeUtils.parseSignature("long doubleToLongBits(double)");
private static final Signature FLOAT_TO_INT_BITS =
    TypeUtils.parseSignature("int floatToIntBits(float)");
private static final Signature TO_STRING =
    TypeUtils.parseSignature("String toString()");
private static final Signature APPEND_STRING =
    TypeUtils.parseSignature("StringBuffer append(String)");
private static final Signature APPEND_INT =
    TypeUtils.parseSignature("StringBuffer append(int)");
private static final Signature APPEND_DOUBLE =
    TypeUtils.parseSignature("StringBuffer append(double)");
private static final Signature APPEND_FLOAT =
    TypeUtils.parseSignature("StringBuffer append(float)");
private static final Signature APPEND_CHAR =
    TypeUtils.parseSignature("StringBuffer append(char)");
private static final Signature APPEND_LONG =
    TypeUtils.parseSignature("StringBuffer append(long)");
private static final Signature APPEND_BOOLEAN =
    TypeUtils.parseSignature("StringBuffer append(boolean)");
private static final Signature LENGTH =
    TypeUtils.parseSignature("int length()");
private static final Signature SET_LENGTH =
    TypeUtils.parseSignature("void setLength(int)");
private static final Signature GET_DECLARED_METHOD =
    TypeUtils.parseSignature("java.lang.reflect.Method getDeclaredMethod(String, Class[])");

public static final ArrayDelimiters DEFAULT_DELIMITERS = new ArrayDelimiters("{", ", ", "}");

private EmitUtils() {
}

public static void factory_method(ClassEmitter ce, Signature sig) {
    CodeEmitter e = ce.begin_method(Constants.ACC_PUBLIC, sig, null);
    e.new_instance_this();
    e.dup();
    e.load_args();
    e.invoke_constructor_this(TypeUtils.parseConstructor(sig.getArgumentTypes()));
    e.return_value();
    e.end_method();
}

public static void null_constructor(ClassEmitter ce) {
    CodeEmitter e = ce.begin_method(Constants.ACC_PUBLIC, CSTRUCT_NULL, null);
    e.load_this();
e.super_invoke_constructor();
e.return_value();
e.end_method();
}

/**
 * Process an array on the stack. Assumes the top item on the stack
 * is an array of the specified type. For each element in the array,
 * puts the element on the stack and triggers the callback.
 * @param type the type of the array (type.isArray() must be true)
 * @param callback the callback triggered for each element
 */
public static void process_array(CodeEmitter e, Type type, ProcessArrayCallback callback) {
    Type componentType = TypeUtils.getComponentType(type);
    Local array = e.make_local();
    Local loopvar = e.make_local(Type.INT_TYPE);
    Label loopbody = e.make_label();
    Label checkloop = e.make_label();
    e.store_local(array);
    e.push(0);
    e.store_local(loopvar);
    e.goTo(checkloop);
    e.mark(loopbody);
    e.load_local(array);
    e.load_local(loopvar);
    e.array_load(componentType);
    callback.processElement(componentType);
    e.iinc(loopvar, 1);
    e.mark(checkloop);
    e.load_local(loopvar);
    e.load_local(array);
    e.arraylength();
    e.if_icmp(e.LT, loopbody);
}

/**
 * Process two arrays on the stack in parallel. Assumes the top two items on the stack
 * are arrays of the specified class. The arrays must be the same length. For each pair
 * of elements in the arrays, puts the pair on the stack and triggers the callback.
 * @param type the type of the arrays (type.isArray() must be true)
 * @param callback the callback triggered for each pair of elements
 */
public static void process_arrays(CodeEmitter e, Type type, ProcessArrayCallback callback) {
    Type componentType = TypeUtils.getComponentType(type);
    Local array1 = e.make_local();
    Local array2 = e.make_local();
Local loopvar = e.make_local(Type.INT_TYPE);
Label loopbody = e.make_label();
Label checkloop = e.make_label();
e.store_local(array1);
e.store_local(array2);
e.push(0);
e.store_local(loopvar);
e.goTo(checkloop);

e.mark(loopbody);
e.load_local(array1);
e.load_local(loopvar);
e.array_load(componentType);
e.load_local(array2);
e.load_local(loopvar);
e.array_load(componentType);
callback.processElement(componentType);
e.iinc(loopvar, 1);

e.mark(checkloop);
e.load_local(loopvar);
e.load_local(array1);
e.arraylength();
e.if_icmp(e.LT, loopbody);
}

public static void string_switch(CodeEmitter e, String[] strings, int switchStyle, ObjectSwitchCallback callback) {
try {
    switch (switchStyle) {
    case Constants.SWITCH_STYLE_TRIE:
        string_switch_trie(e, strings, callback);
        break;
    case Constants.SWITCH_STYLE_HASH:
        string_switch_hash(e, strings, callback, false);
        break;
    case Constants.SWITCH_STYLE_HASHONLY:
        string_switch_hash(e, strings, callback, true);
        break;
    default:
        throw new IllegalArgumentException("unknown switch style "; + switchStyle);
    }
} catch (RuntimeException ex) {
    throw ex;
} catch (Error ex) {
    throw ex;
} catch (Exception ex) {
    throw new CodeGenerationException(ex);
}
private static void string_switch_trie(final CodeEmitter e,
    String[] strings,
    final ObjectSwitchCallback callback) throws Exception {
    final Label def = e.make_label();
    final Label end = e.make_label();
    final Map buckets = CollectionUtils.bucket(Arrays.asList(strings), new Transformer() {
        public Object transform(Object value) {
            return new Integer(((String)value).length());
        }
    });
    e.dup();
    e.invoke_virtual(Constants.TYPE_STRING, STRING_LENGTH);
    e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
        public void processCase(int key, Label ignore_end) throws Exception {
            List bucket = (List)buckets.get(new Integer(key));
            stringSwitchHelper(e, bucket, callback, def, end, 0);
        }
        public void processDefault() {
            e.goTo(def);
        }
    });
    e.mark(def);
    e.pop();
    callback.processDefault();
    e.mark(end);
}

private static void stringSwitchHelper(final CodeEmitter e,
    List strings,
    final ObjectSwitchCallback callback,
    final Label def,
    final Label end,
    final int index) throws Exception {
    final int len = ((String)strings.get(0)).length();
    final Map buckets = CollectionUtils.bucket(strings, new Transformer() {
        public Object transform(Object value) {
            return new Integer(((String)value).charAt(index));
        }
    });
    e.dup();
    e.push(index);
    e.invoke_virtual(Constants.TYPE_STRING, STRING_CHAR_AT);
    e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
        public void processCase(int key, Label ignore_end) throws Exception {
            List bucket = (List)buckets.get(new Integer(key));
            if (index + 1 == len) {
public void processDefault() {
    e.goTo(def);
}

static int[] getSwitchKeys(Map buckets) {
    int[] keys = new int[buckets.size()];
    int index = 0;
    for (Iterator it = buckets.keySet().iterator(); it.hasNext();) {
        keys[index++] = ((Integer)it.next()).intValue();
    }
    Arrays.sort(keys);
    return keys;
}

private static void string_switch_hash(final CodeEmitter e, final String[] strings, final ObjectSwitchCallback callback, final boolean skipEquals) throws Exception {
    final Map buckets = CollectionUtils.bucket(Arrays.asList(strings), new Transformer() {
        public Object transform(Object value) {
            return new Integer(value.hashCode());
        }
    });
    final Label def = e.make_label();
    final Label end = e.make_label();
    e.dup();
    e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
    e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
        public void processCase(int key, Label ignore_end) throws Exception {
            List bucket = (List)buckets.get(new Integer(key));
            Label next = null;
            if (skipEquals && bucket.size() == 1) {
                if (skipEquals)
                    e.pop();
                callback.processCase((String)bucket.get(0), end);
            } else {
                for (Iterator it = bucket.iterator(); it.hasNext();) {
                    String string = (String)it.next();
                    if (next != null) {
                        e.mark(next);
                    }
                }
            }
        }
    });
    final Label def = e.make_label();
    final Label end = e.make_label();
    e.dup();
    e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
    e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
        public void processCase(int key, Label ignore_end) throws Exception {
            List bucket = (List)buckets.get(new Integer(key));
            Label next = null;
            if (skipEquals && bucket.size() == 1) {
                if (skipEquals)
                    e.pop();
                callback.processCase((String)bucket.get(0), end);
            } else {
                for (Iterator it = bucket.iterator(); it.hasNext();) {
                    String string = (String)it.next();
                    if (next != null) {
                        e.mark(next);
                    }
                }
            }
        }
    });
}
if (it.hasNext()) {
    e.dup();
}

e.push(string);
e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
if (it.hasNext()) {
    e.if_jump(e.EQ, next = e.make_label());
    e.pop();
} else {
    e.if_jump(e.EQ, def);
}
callback.processCase(string, end);

public void processDefault() {
    e.pop();
}
});
e.mark(def);
callback.processDefault();
e.mark(end);

public static void load_class_this(CodeEmitter e) {
    load_class_helper(e, e.getClassEmitter().getClassType());
}

public static void load_class(CodeEmitter e, Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type == Type.VOID_TYPE) {
            throw new IllegalArgumentException("cannot load void type");
        }
        e.getstatic(TypeUtils.getBoxedType(type), "TYPE", Constants.TYPE_CLASS);
    } else {
        load_class_helper(e, type);
    }
}

private static void load_class_helper(CodeEmitter e, final Type type) {
    if (e.isStaticHook()) {
        // have to fall back on non-optimized load
        e.push(TypeUtils.emulateClassGetName(type));
e.invoke_static(Constants.TYPE_CLASS, FOR_NAME);
    } else {
        ClassEmitter ce = e.getClassEmitter();
        String typeName = TypeUtils.emulateClassGetName(type);
// TODO: can end up with duplicated field names when using chained transformers; incorporate static hook somehow
String fieldName = "CGLIB$load_class$" + TypeUtils.escapeType(typeName);
if (!ce.isFieldDeclared(fieldName)) {
    ce.declare_field(Constants.PRIVATE_FINAL_STATIC, fieldName, Constants.TYPE_CLASS, null);
    CodeEmitter hook = ce.getStaticHook();
    hook.push(typeName);
    hook.invoke_static(Constants.TYPE_CLASS, FOR_NAME);
    hook.putstatic(ce.getClassType(), fieldName, Constants.TYPE_CLASS);
}
e.getfield(fieldName);
}

public static void push_array(CodeEmitter e, Object[] array) {
    e.push(array.length);
    e.newarray(Type.getType(remapComponentType(array.getClass().getComponentType())));
    for (int i = 0; i < array.length; i++) {
        e.dup();
        e.push(i);
        push_object(e, array[i]);
        e.aastore();
    }
}

private static Class remapComponentType(Class componentType) {
    if (componentType.equals(Type.class))
        return Class.class;
    return componentType;
}

public static void push_object(CodeEmitter e, Object obj) {
    if (obj == null) {
        e.aconst_null();
    } else {
        Class type = obj.getClass();
        if (type.isArray()) {
            push_array(e, (Object[])obj);
        } else if (obj instanceof String) {
            e.push((String)obj);
        } else if (obj instanceof Type) {
            load_class(e, (Type)obj);
        } else if (obj instanceof Class) {
            load_class(e, Type.getType((Class)obj));
        } else if (obj instanceof BigInteger) {
            e.new_instance(Constants.TYPE_BIG_INTEGER);
            e.dup();
        }
    }
}
private static void hash_object(CodeEmitter e, Type type, Customizer customizer) {
    // (f == null) ? 0 : f.hashCode();
}

private static void hash_array(final CodeEmitter e, Type type, final int multiplier, final Customizer customizer) {
    Label skip = e.make_label();
    Label end = e.make_label();
    e.dup();
    e.ifnull(skip);
    EmitUtils.process_array(e, type, new ProcessArrayCallback() {
        public void processElement(Type type) {
            hash_code(e, type, multiplier, customizer);
        }
    });
    e.goTo(end);
    e.mark(skip);
    e.pop();
    e.mark(end);
}

public static void hash_code(CodeEmitter e, Type type, int multiplier, Customizer customizer) {
    if (TypeUtils.isArray(type)) {
        hash_array(e, type, multiplier, customizer);
    } else {
        e.swap(Type.INT_TYPE, type);
        e.push(multiplier);
        e.math(e.MUL, Type.INT_TYPE);
        e.swap(type, Type.INT_TYPE);
        if (TypeUtils.isPrimitive(type)) {
            hash_primitive(e, type);
        } else {
            hash_object(e, type, customizer);
        }
        e.math(e.ADD, Type.INT_TYPE);
    }
}

public static void hash_code(CodeEmitter e, Type type, Type type, int multiplier, Customizer customizer) {
    if (TypeUtils.isArray(type)) {
        hash_array(e, type, multiplier, customizer);
    } else {
        e.swap(Type.INT_TYPE, type);
        e.push(multiplier);
        e.math(e.MUL, Type.INT_TYPE);
        e.swap(type, Type.INT_TYPE);
        if (TypeUtils.isPrimitive(type)) {
            hash_primitive(e, type);
        } else {
            hash_object(e, type, customizer);
        }
        e.math(e.ADD, Type.INT_TYPE);
    }
}

private static void hash_object(CodeEmitter e, Type type, Customizer customizer) {
    // (f == null) ? 0 : f.hashCode();
Label skip = e.make_label();
Label end = e.make_label();
e.dup();
e.ifnull(skip);
if (customizer != null) {
    customizer.customize(e, type);
}
e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
e.goTo(end);
e.mark(skip);
e.pop();
e.push(0);
e.mark(end);
}

private static void hash_primitive(CodeEmitter e, Type type) {
    switch (type.getSort()) {
    case Type.BOOLEAN:
        // f ? 0 : 1
        e.push(1);
        e.math(e.XOR, Type.INT_TYPE);
        break;
    case Type.FLOAT:
        // Float.floatToIntBits(f)
        e.invoke_static(Constants.TYPE_FLOAT, FLOAT_TO_INT_BITS);
        break;
    case Type.DOUBLE:
        // Double.doubleToLongBits(f), hash_code(Long.TYPE)
        e.invoke_static(Constants.TYPE_DOUBLE, DOUBLE_TO_LONG_BITS);
        // fall through
        case Type.LONG:
            hash_long(e);
            break;
    }
}

private static void hash_long(CodeEmitter e) {
    // (int)(f ^ (f >>> 32))
    e.dup2();
e.push(32);
e.math(e.USHR, Type.LONG_TYPE);
e.math(e.XOR, Type.LONG_TYPE);
e.cast_numeric(Type.LONG_TYPE, Type.INT_TYPE);
}

// public static void not_equals(CodeEmitter e, Type type, Label notEquals) {
//    not_equals(e, type, notEquals, null);
//  }
public static void not_equals(final CodeEmitter e, Type type, final Label notEquals, final Customizer customizer)
{
    (new ProcessArrayCallback() {
        public void processElement(Type type) {
            not_equals_helper(e, type, notEquals, customizer, this);
        }
    }).processElement(type);
}

private static void not_equals_helper(CodeEmitter e, Type type, Label notEquals, Customizer customizer, ProcessArrayCallback callback) {
    if (TypeUtils.isPrimitive(type)) {
        e.if_cmp(type, e.NE, notEquals);
    } else {
        Label end = e.make_label();
        nullcmp(e, notEquals, end);
        if (TypeUtils.isArray(type)) {
            Label checkContents = e.make_label();
            e.dup2();
            e.arraylength();
            e.swap();
            e.arraylength();
            e.if_icmp(e.EQ, checkContents);
            e.pop2();
            e.goTo(notEquals);
            e.mark(checkContents);
            EmitUtils.process_arrays(e, type, callback);
        } else {
            if (customizer != null) {
                customizer.customize(e, type);
                e.swap();
                customizer.customize(e, type);
            }
            e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
            e.if_jump(e.EQ, notEquals);
        }
    }
    e.mark(end);
}
/**
 * If both objects on the top of the stack are non-null, does nothing.
 * If one is null, or both are null, both are popped off and execution
 * branches to the respective label.
 * @param oneNull label to branch to if only one of the objects is null
 * @param bothNull label to branch to if both of the objects are null
 */

private static void nullcmp(CodeEmitter e, Label oneNull, Label bothNull) {
    e.dup2();
    Label nonNull = e.make_label();
    Label oneNullHelper = e.make_label();
    Label end = e.make_label();
    e.ifnonnull(nonNull);
    e.ifnonnull(oneNullHelper);
    e.pop2();
    e.goTo(bothNull);
    e.mark(nonNull);
    e.ifnull(oneNullHelper);
    e.goTo(end);
    e.mark(oneNullHelper);
    e.pop2();
    e.goTo(oneNull);
    e.mark(end);
}

/*
public static void to_string(CodeEmitter e,
    Type type,
    ArrayDelimiters delims,
    Customizer customizer) {
    e.new_instance(Constants.TYPE_STRING_BUFFER);
    e.dup();
    e.invoke_constructor(Constants.TYPE_STRING_BUFFER);
    e.swap();
    append_string(e, type, delims, customizer);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, TO_STRING);
}
*/

public static void append_string(final CodeEmitter e,
    Type type,
    final ArrayDelimiters delims,
    final Customizer customizer) {
    e.dup();
    e.invoke_constructor(Constants.TYPE_STRING_BUFFER);
    e.swap();
    append_string(e, type, delims, customizer);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, TO_STRING);
}
final ArrayDelimiters d = (delims != null) ? delims : DEFAULT_DELIMITERS;
ProcessArrayCallback callback = new ProcessArrayCallback()
{
    public void processElement(Type type) {
        append_string_helper(e, type, d, customizer, this);
        e.push(d.inside);
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
    }
};
append_string_helper(e, type, d, customizer, callback);

private static void append_string_helper(CodeEmitter e,
    Type type,
    ArrayDelimiters delims,
    Customizer customizer,
    ProcessArrayCallback callback) {
    Label skip = e.make_label();
    Label end = e.make_label();
    if (TypeUtils.isPrimitive(type)) {
        switch (type.getSort()) {
            case Type.INT:
            case Type.SHORT:
            case Type.BYTE:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_INT);
                break;
            case Type.DOUBLE:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_DOUBLE);
                break;
            case Type.FLOAT:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_FLOAT);
                break;
            case Type.LONG:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_LONG);
                break;
            case Type.BOOLEAN:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_BOOLEAN);
                break;
            case Type.CHAR:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_CHAR);
                break;
        }
    } else if (TypeUtils.isArray(type)) {
        e.dup();
        e.ifnonnull(skip);
        e.swap();
        if (delims != null && delims.before != null && !"".equals(delims.before)) {
            e.push(delims.before);
            e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
e.swap();

EmitUtils.process_array(e, type, callback);
shrinkStringBuffer(e, 2);
if (delims != null && delims.after != null && !"".equals(delims.after)) {
    e.push(delims.after);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
}
else {
    e.dup();
e.tifnull(skip);
if (customizer != null) {
    customizer.customize(e, type);
}
e.invoke_virtual(Constants.TYPE_OBJECT, TO_STRING);
e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
}
e.goTo(end);
e.mark(skip);
e.pop();
e.push("null");
e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
e.mark(end);
}

private static void shrinkStringBuffer(CodeEmitter e, int amt) {
    e.dup();
e.dup();
e.invoke_virtual(Constants.TYPE_STRING_BUFFER, LENGTH);
e.push(amt);
e.math(e.SUB, Type.INT_TYPE);
e.invoke_virtual(Constants.TYPE_STRING_BUFFER, SET_LENGTH);
}

public static class ArrayDelimiters {
    private String before;
    private String inside;
    private String after;
    public ArrayDelimiters(String before, String inside, String after) {
        this.before = before;
        this.inside = inside;
        this.after = after;
    }
}

public static void load_method(CodeEmitter e, MethodInfo method) {
    load_class(e, method.getClassInfo().getType());
}
private interface ParameterTyper {
    Type[] getParameterTypes(MethodInfo member);
}

public static void method_switch(CodeEmitter e, 
        List methods, 
        ObjectSwitchCallback callback) {
    member_switch_helper(e, methods, callback, true);
}

public static void constructor_switch(CodeEmitter e, 
        List constructors, 
        ObjectSwitchCallback callback) {
    member_switch_helper(e, constructors, callback, false);
}

private static void member_switch_helper(final CodeEmitter e, 
        List members, 
        final ObjectSwitchCallback callback, 
        boolean useName) {
    try {
        final Map cache = new HashMap();
        final ParameterTyper cached = new ParameterTyper() {
            public Type[] getParameterTypes(MethodInfo member) {
                Type[] types = (Type[])cache.get(member);
                if (types == null) {
                    cache.put(member, types = member.getSignature().getArgumentTypes());
                }
                return types;
            }
        };
        final Label def = e.make_label(); 
        final Label end = e.make_label();
        if (useName) {
            e.swap();
            final Map buckets = CollectionUtils.bucket(members, new Transformer() {
                public Object transform(Object value) {
                    return ((MethodInfo)value).getSignature().getName();
                }
            });
            String[] names = (String[])buckets.keySet().toArray(new String[buckets.size()]);
            EmitUtils.string_switch(e, names, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
                public void processCase(Object key, Label dontUseEnd) throws Exception {
                }
            });
        };
    } finally {
        e.swap();
    }
}
member_helper_size(e, (List)buckets.get(key), callback, cached, def, end);
} else {
    member_helper_size(e, members, callback, cached, def, end);
}
e.mark(def);
e.pop();
callback.processDefault();
e.mark(end);
} catch (RuntimeException ex) {
    throw ex;
} catch (Error ex) {
    throw ex;
} catch (Exception ex) {
    throw new CodeGenerationException(ex);
}
}

private static void member_helper_size(final CodeEmitter e,  
        List members,  
        final ObjectSwitchCallback callback,  
        final ParameterTyper typer,  
        final Label def,  
        final Label end) throws Exception {
    final Map buckets = CollectionUtils.bucket(members, new Transformer() {
        public Object transform(Object value) {
            return new Integer(typer.getParameterTypes((MethodInfo)value).length);
        }
    });
e.dup();
e.arraylength();
e.process_switch(EmitUtils.getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label dontUseEnd) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        member_helper_type(e, bucket, callback, typer, def, end, new BitSet());
    }
    public void processDefault() throws Exception {
        e.goTo(def);
    }
});
}

private static void member_helper_type(final CodeEmitter e,  
        List members,
final ObjectSwitchCallback callback,
final ParameterTyper typer,
final Label def,
final Label end,
final BitSet checked) throws Exception {
    if (members.size() == 1) {
        MethodInfo member = (MethodInfo)members.get(0);
        Type[] types = typer.getParameterTypes(member);
        // need to check classes that have not already been checked via switches
        for (int i = 0; i < types.length; i++) {
            if (checked == null || !checked.get(i)) {
                e.dup();
                e.aaload(i);
                e.invoke_virtual(Constants.TYPE_CLASS, GET_NAME);
                e.push(TypeUtils.emulateClassGetName(types[i]));
                e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
                e.if_jump(e.EQ, def);
            }
        }
        e.pop();
        callback.processCase(member, end);
    } else {
        // choose the index that has the best chance of uniquely identifying member
        Type[] example = typer.getParameterTypes((MethodInfo)members.get(0));
        Map buckets = null;
        int index = -1;
        for (int i = 0; i < example.length; i++) {
            final int j = i;
            Map test = CollectionUtils.bucket(members, new Transformer() {
                public Object transform(Object value) {
                    return TypeUtils.emulateClassGetName(typer.getParameterTypes((MethodInfo)value)[j]);
                }
            });
            if (buckets == null || test.size() > buckets.size()) {
                buckets = test;
                index = i;
            }
        }
        if (buckets == null || buckets.size() == 1) {
            // TODO: switch by returnType
            // must have two methods with same name, types, and different return types
            e.goTo(def);
        } else {
            checked.set(index);
            e.dup();
            e.aaload(index);
            e.invoke_virtual(Constants.TYPE_CLASS, GET_NAME);
final Map fbuckets = buckets;
String[] names = (String[]) buckets.keySet().toArray(new String[buckets.size()]);
EmitUtils.string_switch(e, names, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
    public void processCase(Object key, Label dontUseEnd) throws Exception {
        member_helper_type(e, (List)fbuckets.get(key), callback, typer, def, end, checked);
    }
    public void processDefault() throws Exception {
        e.goTo(def);
    }
});
}

public static void wrap_throwable(Block block, Type wrapper) {
    CodeEmitter e = block.getCodeEmitter();
e.catch_exception(block, Constants.TYPE_THROWABLE);
e.new_instance(wrapper);
e.dup_x1();
e.swap();
e.invoke_constructor(wrapper, CSTRUCT_THROWABLE);
e.athrow();
}

public static void add_properties(ClassEmitter ce, String[] names, Type[] types) {
    for (int i = 0; i < names.length; i++) {
        String fieldName = "$cglib_prop_$" + names[i];
ce.declare_field(Constants.ACC_PRIVATE, fieldName, types[i], null);
EmitUtils.add_property(ce, names[i], types[i], fieldName);
    }
}

public static void add_property(ClassEmitter ce, String name, Type type, String fieldName) {
    String property = TypeUtils.upperFirst(name);
    CodeEmitter e;
e = ce.begin_method(Constants.ACC_PUBLIC,
        new Signature("get" + property,
            type,
            Constants.TYPES_EMPTY),
        null);
e.load_this();
e.getfield(fieldName);
e.return_value();
e.end_method();

e = ce.begin_method(Constants.ACC_PUBLIC,
    new Signature("set" + property,
public static void wrap_undeclared_throwable(CodeEmitter e, Block handler, Type[] exceptions, Type wrapper) {
    Set set = (exceptions == null) ? Collections.EMPTY_SET : new HashSet(Arrays.asList(exceptions));
    if (set.contains(Constants.TYPE_THROWABLE))
        return;
    boolean needThrow = exceptions != null;
    if (!set.contains(Constants.TYPE_RUNTIME_EXCEPTION)) {
        e.catch_exception(handler, Constants.TYPE_RUNTIME_EXCEPTION);
        needThrow = true;
    }
    if (!set.contains(Constants.TYPE_ERROR)) {
        e.catch_exception(handler, Constants.TYPE_ERROR);
        needThrow = true;
    }
    if (exceptions != null) {
        for (int i = 0; i < exceptions.length; i++)
            e.catch_exception(handler, exceptions[i]);
    }
    if (needThrow) {
        e.athrow();
    }
    // e -> eo -> oeo -> ooe -> o
    e.catch_exception(handler, Constants.TYPE_THROWABLE);
    e.new_instance(wrapper);
    e.dup_x1();
}
e.swap();
e.invoke_constructor(wrapper, CSTRUCT_THROWABLE);
e.athrow();
}

public static CodeEmitter begin_method(ClassEmitter e, MethodInfo method) {
    return begin_method(e, method, method.getModifiers());
}

public static CodeEmitter begin_method(ClassEmitter e, MethodInfo method, int access) {
    return e.begin_method(access,
            method.getSignature(),
            method.getExceptionTypes());
}

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*/
package net.sf.cglib.core;

import java.lang.reflect.Method;
import java.util.*;

public class DuplicatesPredicate implements Predicate {
    private Set unique = new HashSet();

    public boolean evaluate(Object arg) {
        return unique.add(MethodWrapper.create((Method)arg));
    }
}

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*/

package net.sf.cglib.core;

import java.util.Set;

/**
 * The default policy used by {@link AbstractClassGenerator}.
 * Generates names such as
 * <p><code>net.sf.cglib.Foo$$EnhancerByCGLIB$$38272841</code></p>
 * This is composed of a prefix based on the name of the superclass, a fixed
 * string incorporating the CGLIB class responsible for generation, and a
 * hashcode derived from the parameters used to create the object. If the same
 * name has been previously been used in the same <code>ClassLoader</code>, a
 * suffix is added to ensure uniqueness.
 */
public class DefaultNamingPolicy implements NamingPolicy {
    public static final DefaultNamingPolicy INSTANCE = new DefaultNamingPolicy();

    public String getClassName(String prefix, String source, Object key, Predicate names) {
        if (prefix == null) {
            prefix = "net.sf.cglib.empty.Object";
        } else if (prefix.startsWith("java")) {
            prefix = "$" + prefix;
        }

        String base =
            prefix + "$$" +
            source.substring(source.lastIndexOf(\'.') + 1) +
            getTag() + "$$" +
            Integer.toHexString(key.hashCode());

        String attempt = base;
        int index = 2;
        while (names.evaluate(attempt)) {
            attempt = base + "_" + index++;
        }

        /**
         * Returns a string which is incorporated into every generated class name.
         * By default returns "ByCGLIB"
         */
    }
}
protected String getTag() {
    return "ByCGLIB";
}

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 */

package net.sf.cglib.util;

import java.util.*;

abstract class SorterTemplate {
    private static final int MERGESORT_THRESHOLD = 12;
    private static final int QUICKSORT_THRESHOLD = 7;

    abstract protected void swap(int i, int j);
    abstract protected int compare(int i, int j);

    protected void quickSort(int lo, int hi) {
        quickSortHelper(lo, hi);
        insertionSort(lo, hi);
    }

    private void quickSortHelper(int lo, int hi) {
        for (;;) {
            int diff = hi - lo;
            if (diff <= QUICKSORT_THRESHOLD) {
                break;
            }
            int i = (hi + lo) / 2;
            if (compare(lo, i) > 0) {
                swap(lo, i);
            }
            if (compare(lo, hi) > 0) {
                swap(lo, hi);
            }
            quickSortHelper(lo, i);
            insertionSort(i, hi);
        }
    }

    private void quickSortHelper(int lo, int hi) {
        for (;;) {
            int diff = hi - lo;
            if (diff <= QUICKSORT_THRESHOLD) {
                break;
            }
            int i = (hi + lo) / 2;
            if (compare(lo, i) > 0) {
                swap(lo, i);
            }
            if (compare(lo, hi) > 0) {
                swap(lo, hi);
            }
            quickSortHelper(lo, i);
            insertionSort(i, hi);
        }
    }
}
if (compare(i, hi) > 0) {
    swap(i, hi);
}
int j = hi - 1;
swap(i, j);
i = lo;
int v = j;
for (; ;) {
    while (compare(++i, v) < 0) {
        /* nothing */
    }
    while (compare(--j, v) > 0) {
        /* nothing */
    }
    if (j < i) {
        break;
    }
    swap(i, j);
}
swap(i, hi - 1);
if (j - lo <= hi - i + 1) {
    quickSortHelper(lo, j);
    lo = i + 1;
} else {
    quickSortHelper(i + 1, hi);
    hi = j;
}
}
private void insertionSort(int lo, int hi) {
    for (int i = lo + 1 ; i <= hi; i++) {
        for (int j = i; j > lo; j--) {
            if (compare(j - 1, j) > 0) {
                swap(j - 1, j);
            } else {
                break;
            }
        }
    }
}
protected void mergeSort(int lo, int hi) {
    int diff = hi - lo;
    if (diff <= MERGESORT_THRESHOLD) {
        insertionSort(lo, hi);
        return;
    }
int mid = lo + diff / 2;
mergeSort(lo, mid);
mergeSort(mid, hi);
merge(lo, mid, hi, mid - lo, hi - mid);
}

private void merge(int lo, int pivot, int hi, int len1, int len2) {
if (len1 == 0 || len2 == 0) {
    return;
}
if (len1 + len2 == 2) {
    if (compare(pivot, lo) < 0) {
        swap(pivot, lo);
    }
    return;
}
int first_cut, second_cut;
int len11, len22;
if (len1 > len2) {
    len11 = len1 / 2;
    first_cut = lo + len11;
    second_cut = lower(pivot, hi, first_cut);
    len22 = second_cut - pivot;
} else {
    len22 = len2 / 2;
    second_cut = pivot + len22;
    first_cut = upper(lo, pivot, second_cut);
    len11 = first_cut - lo;
}
rotate(first_cut, pivot, second_cut);
int new_mid = first_cut + len22;
merge(lo, first_cut, new_mid, len11, len22);
merge(new_mid, second_cut, hi, len1 - len11, len2 - len22);
}

private void rotate(int lo, int mid, int hi) {
    int lot = lo;
    int hit = mid - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
    lot = mid; hit = hi - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
    lot = lo; hit = hi - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
private int lower(int lo, int hi, int val) {
    int len = hi - lo;
    while (len > 0) {
        int half = len / 2;
        int mid = lo + half;
        if (compare(mid, val) < 0) {
            lo = mid + 1;
            len = len - half - 1;
        } else {
            len = half;
        }
    }
    return lo;
}

private int upper(int lo, int hi, int val) {
    int len = hi - lo;
    while (len > 0) {
        int half = len / 2;
        int mid = lo + half;
        if (compare(val, mid) < 0) {
            len = half;
        } else {
            lo = mid + 1;
            len = len - half - 1;
        }
    }
    return lo;
}

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 */
package net.sf.cglib.util;

import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

class ParallelSorterEmitter extends ClassEmitter {
    private static final Type PARALLEL_SORTER = TypeUtils.parseType("net.sf.cglib.util.ParallelSorter");
    private static final Signature CSTRUCT_OBJECT_ARRAY = TypeUtils.parseConstructor("Object[]");
    private static final Signature NEW_INSTANCE = new Signature("newInstance", PARALLEL_SORTER, new Type[]{ Constants.TYPE_OBJECT_ARRAY });
    private static final Signature SWAP = TypeUtils.parseSignature("void swap(int, int)");

    public ParallelSorterEmitter(ClassVisitor v, String className, Object[] arrays) {
        super(v);
        begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, PARALLEL_SORTER, null, Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        EmitUtils.factory_method(this, NEW_INSTANCE);
        generateConstructor(arrays);
        generateSwap(arrays);
        end_class();
    }

    private String getFieldName(int index) {
        return "FIELD_" + index;
    }

    private void generateConstructor(Object[] arrays) {
        CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT_ARRAY, null);
        e.load_this();
        e.super_invoke_constructor();
        e.load_this();
        e.load_arg(0);
        e.super_putfield("a", Constants.TYPE_OBJECT_ARRAY);
        for (int i = 0; i < arrays.length; i++) {
            Type type = Type.getType(arrays[i].getClass());
            declare_field(Constants.ACC_PRIVATE, getFieldName(i), type, null);
            e.load_this();
            e.load_arg(0);
            e.push(i);
            e.aaload();
            e.checkcast(type);
        }
    }

    private void generateSwap(Object[] arrays) {
        CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SWAP, null);
        e.load_this();
        e.load_arg(0);
        e.load_arg(1);
        e.invoke_virtual("swap", "void swap(int, int)");
    }

    public static String getClassName() {
        return "ParallelSorterEmitter";
    }
}

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private void generateSwap(final Object[] arrays) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SWAP, null);
    for (int i = 0; i < arrays.length; i++) {
        Type type = Type.getType(arrays[i].getClass());
        Type component = TypeUtils.getComponentType(type);
        Local T = e.make_local(type);

        e.load_this();
        e.getfield(getFieldName(i));
        e.store_local(T);

        e.load_local(T);
        e.load_arg(0);
        e.load_local(T);
        e.load_arg(1);
        e.array_load(component);
        e.load_local(T);
        e.load_arg(1);
        e.load_local(T);
        e.load_arg(0);
        e.array_load(component);
        e.array_store(component);
        e.array_store(component);
    }
    e.return_value();
    e.end_method();
}

7.45 clustering-it-model 1.1.3-Helium-SR3
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7.52 concurrent-hash-trie-map 0.2.23

7.53 config 1.2.0
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7.54 controller-config-api 0.2.8-Helium-SR3

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7.55 controller-config-manager 0.2.8-Helium-SR3

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7.57 controller-config-netty .2.8-Helium-SR3

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7.58 controller-config-persister-api 0.2.8-Helium-SR3

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7.59 controller-config-persister-directory-xml-adaptor 0.2.8-Helium-SR3

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### 7.63 controller-config-util 0.2.8-Helium-SR3

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7.68 controller-features-mdsal 1.1.3-Helium-SR3
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7.69 controller-features-protocol-framework

0.5.3-Helium-SR3

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7.70 controller-features-restconf 1.1.3-
Helium-SR3

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7.72 controller-ietf-netconf-monitoring-extension 0.2.8-Helium-SR3

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7.73 controller-karaf-branding 1.0.3-Helium-SR3

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7.74 controller-md-sal-config 1.1.3-Helium-SR3
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**7.75 controller-netconf-api 0.2.8-Helium-SR3**

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7.77 controller-netconf-client 0.2.8-Helium-SR3

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7.78 controller-netconf-config 0.2.8-Helium-SR3

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7.79 controller-netconf-config-dispatcher
0.2.8-Helium-SR3

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7.80 controller-netconf-connector-config

0.2.8-Helium-SR3

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7.81 controller-netconf-impl 0.2.8-Helium-SR3

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7.82 controller-netconf-mapping-api 0.2.8-Helium-SR3

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7.83 controller-netconf-monitoring 0.2.8-Helium-SR3

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7.84 controller-netconf-netty-util .2.8-Helium-SR3

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7.85 controller-netconf-util 0.2.8-Helium-SR3

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7.87 controller-netty-event-executor 0.2.8-Helium-SR3

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1.4.5-Helium-SR3

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Helium-SR3

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7.99 controller-sal-clustering-commons 1.1.3-Helium-SR3
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7.100 controller-sal-clustering-config 1.1.3-Helium-SR3

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7.101 controller-sal-common 1.1.3-Helium-SR3

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7.103 controller-sal-common-impl 1.1.3-Helium-SR3

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7.106 controller-sal-core-api 1.1.3-Helium-SR3

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7.107 controller-sal-core-spi 1.1.3-Helium-SR3

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7.108 controller-sal-distributed-datastore

1.1.3-Helium-SR3

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7.109 controller-sal-dom-xsql 1.1.3-Helium-SR3

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7.110 controller-sal-dom-xml-config 1.1.3-Helium-SR3

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7.111 controller-sal-karaf-xsql 1.1.3-Helium-SR3
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7.112 controller-sal-netconf-connector 1.1.3-Helium-SR3

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7.114 controller-sal-remotepc-connector

1.1.3-Helium-SR3

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7.115 controller-sal-rest-connector 1.1.3-
Helium-SR3

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7.116 controller-sal-rest-connector-config
1.1.3-Helium-SR3
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7.118 controller-shutdown-api 0.2.8-Helium-SR3

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7.120 controller-threadpool-config-api 0.2.8-Helium-SR3

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**7.121 controller-threadpool-config-impl 0.2.8-Helium-SR3**

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7.123 controller-yang-jmx-generator-plugin

0.2.8-Helium-SR3

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AppleJavaExtensions
v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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1.0.1

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7.146 groovy-all 2.0.1

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 */
package org.codehaus.groovy.runtime;

import groovy.lang.GString;

/**
 * Default implementation of a GString used by the compiler. A GString
 * consist of a list of values and strings which can be combined to
 * create a new String.
 * @author Jochen Theodorou
 * @see groovy.lang.GString
 */

public class GStringImpl extends GString {
    private String[] strings;

    /**
     * Create a new GString with values and strings.
     * Each value is prefixed by a string, after the last value
     * an additional String might be used. This means
     * <code>strings.length == values.length || strings.length == values.length + 1</code>.
     * @param values the value parts
     * @param strings the string parts
     */
    public GStringImpl(Object[] values, String[] strings) {
        super(values);
        this.strings = strings;
    }

    /**
     * Get the strings of this GString.
     * @param values the value parts
     * @param strings the string parts
     */
    public GStringImpl(Object[] values, String[] strings) {
        super(values);
        this.strings = strings;
    }

    /**
     * This methods returns the same array as used in the constructor. Changing
     * the values will result in changes of the GString. It is not recommended
public String[] getStrings() {
    return strings;
}

package org.codehaus.groovy.runtime.m12n;

import groovy.lang.MetaMethod;
import org.codehaus.groovy.reflection.CachedClass;
import org.codehaus.groovy.reflection.CachedMethod;
import org.codehaus.groovy.reflection.ReflectionCache;
import org.codehaus.groovy.runtime.metaclass.NewInstanceMetaMethod;
import org.codehaus.groovy.runtime.metaclass.NewStaticMetaMethod;
import java.util.LinkedList;
import java.util.List;
import java.util.logging.Logger;

/**
 * An extension module which provides extension methods using a @link org.codehaus.groovy.runtime.DefaultGroovyMethods}-like implementation, that
 * is to say using static methods defined in an "extension class".
 * <p/>
 * For commodity, multiple extension classes may be defined in a single module, including classes used to define new
 * static methods.
 * <p/>
 * Modules are required to implement the @link #getInstanceMethodsExtensionClasses for classes defining new instance
 * methods, and @link #getStaticMethodsExtensionClasses for classes defining static methods.
 */
For example, to define a module adding methods to the `{@link String}` class, you can write a helper class:

```java
class StringExtension {
    public static int count(String self, char c) {
        int result = 0;
        for (int i = 0; i < self.length(); i++) {
            if (self.charAt(i) == c) result++;
        }
        return result;
    }
}
```

This class defines a single static method taking the string instance as first argument, allowing to define a new instance method on the String class: `<pre>String#count(char c)</pre>`.

To define a new static method on a class, as the static modifier is already used for instance methods, you must use another helper class, for example:

```java
class StaticStringExtension {
    public static void foo(String self) { System.out.println("foo"); }
}
```

The first argument of the method is only used to tell the class for which we add a static method. You can now define an extension module:

```java
class MyStringModule extends SimpleExtensionModule {
    // ...
    public List&lt;Class&gt; getInstanceMethodsExtensionClasses() {
        return Collections.singletonList(StringExtension.class);
    }
    public List&lt;Class&gt; getStaticMethodsExtensionClasses() {
        return Collections.singletonList(StaticStringExtension.class);
    }
}
```

@since 2.0.0
@Override
public List<MetaMethod> getMetaMethods() {
    List<MetaMethod> metaMethods = new LinkedList<MetaMethod>();
    List<Class> extensionClasses = getInstanceMethodsExtensionClasses();
    for (Class extensionClass : extensionClasses) {
        try {
            createMetaMethods(extensionClass, metaMethods, false);
        } catch (LinkageError e) {
            LOG.warning("Module "+getName()+" - Unable to load extension class "+extensionClass+" due to "+e.getMessage()+". Maybe this module is not supported by your JVM version.");
        }
    }
    extensionClasses = getStaticMethodsExtensionClasses();
    for (Class extensionClass : extensionClasses) {
        try {
            createMetaMethods(extensionClass, metaMethods, true);
        } catch (LinkageError e) {
            LOG.warning("Module "+getName()+" - Unable to load extension class "+extensionClass+" due to "+e.getMessage()+". Maybe this module is not supported by your JVM version.");
        }
    }
    return metaMethods;
}

private void createMetaMethods(final Class extensionClass, final List<MetaMethod> metaMethods, final boolean isStatic) {
    CachedClass cachedClass = ReflectionCache.getCachedClass(extensionClass);
    CachedMethod[] methods = cachedClass.getMethods();
    for (CachedMethod method : methods) {
        if (method.isStatic() && method.isPublic() && method.getParamsCount() > 0) {
            // an extension method is found
            metaMethods.add(isStatic?new NewStaticMetaMethod(method) : new NewInstanceMetaMethod(method));
        }
    }
}

/**
 * @return the list of classes defining new instance methods.
 */
public abstract List<Class> getInstanceMethodsExtensionClasses();

/**
 * @return the list of classes defining new static methods.
 */
public abstract List<Class> getStaticMethodsExtensionClasses();
package org.codehaus.groovy.runtime.metaclass;

import groovy.lang.*;
import org.codehaus.groovy.classgen.Verifier;
import org.codehaus.groovy.reflection.*;
import org.codehaus.groovy.runtime.*;
import org.codehaus.groovy.runtime.m12n.ExtensionModule;
import org.codehaus.groovy.runtime.m12n.ExtensionModuleRegistry;
import org.codehaus.groovy.runtime.m12n.StandardPropertiesModuleFactory;
import org.codehaus.groovy.vmplugin.VMPluginFactory;
import org.codehaus.groovy.util.FastArray;
import org.codehaus.groovy.util.ManagedLinkedList;
import org.codehaus.groovy.util.ReferenceBundle;

import java.io.IOException;
import java.lang.reflect.Constructor;
import java.lang.reflect.Field;
import java.lang.reflect.Modifier;
import java.net.URL;
import java.util.*;
import java.util.*;

/**
 * A registry of MetaClass instances which caches introspection &
 * reflection information and allows methods to be dynamically added to
 * existing classes at runtime
 *
 * @author <a href="mailto: james@ coredevelopers.net"> James Strachan</a>
 * @author John Wilson
 * @author <a href="mailto: blackdrag@gmx.org"> Jochen Theodorou</a>
 * @author Graeme Rocher
 * @author Alex Tkachman
 */
public class MetaClassRegistryImpl implements MetaClassRegistry{
  public final static String MODULE_META_INF_FILE = "META-INF/services/org.codehaus.groovy.runtime.ExtensionModule";

  private boolean useAccessible;

  private FastArray instanceMethods = new FastArray();
  private FastArray staticMethods = new FastArray();

  private LinkedList<MetaClassRegistryChangeEvent> changeListenerList = new LinkedList<>();
  private LinkedList<MetaClassRegistryChangeEvent> nonRemoveableChangeListenerList = new LinkedList<>();
  private ManagedLinkedList metaClassInfo = new ManagedLinkedList<MetaClass>(ReferenceBundle.getWeakBundle());
  private ExtensionModuleRegistry moduleRegistry = new ExtensionModuleRegistry();

  private static MetaClassRegistry instanceInclude;
  private static MetaClassRegistry instanceExclude;

  public MetaClassRegistryImpl() {
    this(LOAD_DEFAULT, true);
  }

  public MetaClassRegistryImpl(int loadDefault) {
    this(loadDefault, true);
  }

  public MetaClassRegistryImpl(boolean useAccessible) {
    this(LOAD_DEFAULT, useAccessible);
  }

  public MetaClassRegistryImpl(int loadDefault, boolean useAccessible) {
    this.useAccessible = useAccessible;
    if (loadDefault == LOAD_DEFAULT) {
      Map<CachedClass, List<MetaMethod>> map = new HashMap<CachedClass, List<MetaMethod>>() {
        // let's register the default methods
registerMethods(null, true, true, map);
final Class[] additionals = DefaultGroovyMethods.additionals;
for (int i = 0; i != additionals.length; ++i) {
    createMetaMethodFromClass(map, additionals[i]);
}

Class[] pluginDGMs = VMPluginFactory.getPlugin().getPluginDefaultGroovyMethods();
for (Class plugin : pluginDGMs) {
    registerMethods(plugin, false, true, map);
}
registerMethods(DefaultGroovyStaticMethods.class, false, false, map);
Class[] staticPluginDGMs = VMPluginFactory.getPlugin().getPluginStaticGroovyMethods();
for (Class plugin : staticPluginDGMs) {
    registerMethods(plugin, false, false, map);
}

registerClasspathModules(map, this.getClass().getClassLoader());

refreshMopMethods(map);
}

installMetaClassCreationHandle();

final MetaClass emcMetaClass = metaClassCreationHandle.create(ExpandoMetaClass.class, this);
emcMetaClass.initialize();
ClassInfo.getClassInfo(ExpandoMetaClass.class).setStrongMetaClass(emcMetaClass);

addNonRemovableMetaClassRegistryChangeEventLister(new MetaClassRegistryChangeEventLister() {
    public void updateConstantMetaClass(MetaClassRegistryChangeEvent cmcu) {
        synchronized (metaClassInfo) {
            metaClassInfo.add(cmcu.getNewMetaClass());
            DefaultMetaClassInfo.getNewConstantMetaClassVersioning();
            Class c = cmcu.getClassToUpdate();
            DefaultMetaClassInfo.setPrimitiveMeta(c, cmcu.getNewMetaClass()==null);
            Field sdyn;
            try {
                sdyn = c.getDeclaredField(Verifier.STATIC_METACLASS_BOOL);
                sdyn.setBoolean(null, cmcu.getNewMetaClass()!=null);
            } catch (Throwable e) {
                //DO NOTHING
            }
        }
    }
});
private void refreshMopMethods(final Map<CachedClass, List<MetaMethod>> map) {
    for (Map.Entry<CachedClass, List<MetaMethod>> e : map.entrySet()) {
        CachedClass cls = e.getKey();
        cls.setNewMopMethods(e.getValue());
    }
}

private void registerClasspathModules(final Map<CachedClass, List<MetaMethod>> map, final ClassLoader classLoader) {
    try {
        Enumeration<URL> resources = classLoader.getResources(MODULE_META_INF_FILE);
        while (resources.hasMoreElements()) {
            URL url = resources.nextElement();
            registerExtensionModuleFromMetaInf(url, map, classLoader);
        }
    } catch (IOException e) {
        // DO NOTHING
    }
}

private void registerExtensionModuleFromMetaInf(final URL metadata, final Map<CachedClass, List<MetaMethod>> map, final ClassLoader classLoader) {
    Properties properties = new Properties();
    try {
        properties.load(metadata.openStream());
    } catch (IOException e) {
        throw new GroovyRuntimeException("Unable to load module META-INF descriptor", e);
    }
    registerExtensionModuleFromProperties(properties, classLoader, map);
}

public void registerExtensionModuleFromProperties(final Properties properties, final ClassLoader classLoader, final Map<CachedClass, List<MetaMethod>> map) {
    ExtensionModule module = factory.newModule(properties, classLoader);
    if (moduleRegistry.hasModule(module.getName())) {
        ExtensionModule loadedModule = moduleRegistry.getModule(module.getName());
        if (loadedModule.getVersion().equals(module.getVersion())) {
            // already registered
            return;
        } else {
            throw new GroovyRuntimeException("Conflicting module versions. Module "+module.getName()+" is loaded in version "+loadedModule.getVersion()+" and you are trying to load version "+module.getVersion());
        }
    } else {
        moduleRegistry.addModule(module);
// register MetaMethods
List<MetaMethod> metaMethods = module.getMetaMethods();
for (MetaMethod metaMethod : metaMethods) {
    CachedClass cachedClass = metaMethod.getDeclaringClass();
    List<MetaMethod> methods = map.get(cachedClass);
    if (methods == null) {
        methods = new ArrayList<MetaMethod>(4);
        map.put(cachedClass, methods);
    }
    methods.add(metaMethod);
    if (metaMethod.isStatic()) {
        staticMethods.add(metaMethod);
    } else {
        instanceMethods.add(metaMethod);
    }
}

public ExtensionModuleRegistry getModuleRegistry() {
    return moduleRegistry;
}

/**
 * Looks for a class called 'groovy.runtime.metaclass.CustomMetaClassCreationHandle' and if it exists uses it as
 * the MetaClassCreationHandle
 * otherwise uses the default
 *
 * @see groovy.lang.MetaClassRegistry.MetaClassCreationHandle
 */
private void installMetaClassCreationHandle() {
    try {
        final Class customMetaClassHandle =
            Class.forName("groovy.runtime.metaclass.CustomMetaClassCreationHandle");
        final Constructor customMetaClassHandleConstructor = customMetaClassHandle.getConstructor(new
            Class[]{});
        this.metaClassCreationHandle =
            (MetaClassCreationHandle)customMetaClassHandleConstructor.newInstance();
    } catch (final ClassNotFoundException e) {
        this.metaClassCreationHandle = new MetaClassCreationHandle();
    } catch (final Exception e) {
        throw new GroovyRuntimeException("Could not instantiate custom Metaclass creation handle: " + e, e);
    }
}

private void registerMethods(final Class theClass, final boolean useMethodWrapper, final boolean
    useInstanceMethods, Map<CachedClass, List<MetaMethod>> map) {
    if (useMethodWrapper) {
        // Here we instantiate objects representing MetaMethods for DGM methods.
try {
    List<GeneratedMetaMethod.DgmMethodRecord> records = GeneratedMetaMethod.DgmMethodRecord.loadDgmInfo();

    for (GeneratedMetaMethod.DgmMethodRecord record : records) {
        Class[] newParams = new Class[record.parameters.length - 1];
        System.arraycopy(record.parameters, 1, newParams, 0, record.parameters.length-1);

        MetaMethod method = new GeneratedMetaMethod.Proxy(
            record.className,
            record.methodName,
            ReflectionCache.getCachedClass(record.parameters[0]),
            record.returnType,
            newParams
        );
        final CachedClass declClass = method.getDeclaringClass();
        List<MetaMethod> arr = map.get(declClass);
        if (arr == null) {
            arr = new ArrayList<MetaMethod>(4);
            map.put(declClass, arr);
        }
        arr.add(method);
        instanceMethods.add(method);
    }
} catch (Throwable e) {
    e.printStackTrace();
    // we print the error, but we don't stop with an exception here
    // since it is more comfortable this way for development
}
} else {
    CachedMethod[] methods = ReflectionCache.getCachedClass(theClass).getMethods();

    for (CachedMethod method : methods) {
        final int mod = method.getModifiers();
        if (Modifier.isStatic(mod) && Modifier.isPublic(mod) &&
            method.getCachedMethod().getAnnotation(Deprecated.class) == null) {
            CachedClass[] paramTypes = method.getParameterTypes();
            if (paramTypes.length > 0) {
                List<MetaMethod> arr = map.get(paramTypes[0]);
                if (arr == null) {
                    arr = new ArrayList<MetaMethod>(4);
                    map.put(paramTypes[0], arr);
                }
                if (useInstanceMethods) {
                    final NewInstanceMetaMethod metaMethod = new NewInstanceMetaMethod(method);
                    arr.add(metaMethod);
                }
            }
        }
    }
}
private void createMetaMethodFromClass(Map<CachedClass, List<MetaMethod>> map, Class aClass) {
    try {
        MetaMethod method = (MetaMethod) aClass.newInstance();
        final CachedClass declClass = method.getDeclaringClass();
        List<MetaMethod> arr = map.get(declClass);
        if (arr == null) {
            arr = new ArrayList<MetaMethod>(4);
            map.put(declClass, arr);
        }
        arr.add(method);
        instanceMethods.add(method);
    } catch (InstantiationException e) { /* ignore */
    } catch (IllegalAccessException e) { /* ignore */
    }
}

public final MetaClass getMetaClass(Class theClass) {
    return ClassInfo.getClassInfo(theClass).getMetaClass();
}

public MetaClass getMetaClass(Object obj) {
    return ClassInfo.getClassInfo(obj.getClass()).getMetaClass(obj);
}

/**
 * if oldMc is null, newMc will replace whatever meta class was used before.
 * if oldMc is not null, then newMc will be used only if he stored mc is
 * the same as oldMc
 */
private void setMetaClass(Class theClass, MetaClass oldMc, MetaClass newMc) {
    final ClassInfo info = ClassInfo.getClassInfo(theClass);
    MetaClass mc = null;
    info.lock();
    try {
        mc = info.getStrongMetaClass();
    } finally {
        info.unlock();
    }
}
info.setStrongMetaClass(newMc);
} finally {
    info.unlock();
}
if ((oldMc == null && mc != newMc) || (oldMc != null && mc != newMc && mc != oldMc)) {
    fireConstantMetaClassUpdate(null, theClass, mc, newMc);
}
}

public void removeMetaClass(Class theClass) {
    setMetaClass(theClass, null, null);
}

/**
 * Registers a new MetaClass in the registry to customize the type
 * @param theClass
 * @param theMetaClass
 */
public void setMetaClass(Class theClass, MetaClass theMetaClass) {
    setMetaClass(theClass, null, theMetaClass);
}

public void setMetaClass(Object obj, MetaClass theMetaClass) {
    Class theClass = obj.getClass();
    final ClassInfo info = ClassInfo.getClassInfo(theClass);
    MetaClass oldMC = null;
    info.lock();
    try {
        oldMC = info.getPerInstanceMetaClass(obj);
        info.setPerInstanceMetaClass(obj, theMetaClass);
    }
    finally {
        info.unlock();
    }

    fireConstantMetaClassUpdate(obj, theClass, oldMC, theMetaClass);
}

public boolean useAccessible() {
    return useAccessible;
}

// the following is experimental code, not intended for stable use yet
private volatile MetaClassCreationHandle metaClassCreationHandle = new MetaClassCreationHandle();
/**
 * Gets a handle internally used to create MetaClass implementations
 * WARNING: experimental code, likely to change soon
 * @return the handle
 */
public MetaClassCreationHandle getMetaClassCreationHandler() {
    return metaClassCreationHandle;
}

/**
 * Sets a handle internally used to create MetaClass implementations.
 * When replacing the handle with a custom version, you should
 * reuse the old handle to keep custom logic and to use the
 * default logic as fall back.
 * WARNING: experimental code, likely to change soon
 * @param handle the handle
 */
public void setMetaClassCreationHandle(MetaClassCreationHandle handle) {
    if (handle == null) throw new IllegalArgumentException("Cannot set MetaClassCreationHandle to null value!");
    ClassInfo.clearModifiedExpandos();
    handle.setDisableCustomMetaClassLookup(metaClassCreationHandle.isDisableCustomMetaClassLookup());
    metaClassCreationHandle = handle;
}

/**
 * Adds a listener for constant meta classes.
 * @param listener the listener
 */
public void addMetaClassRegistryChangeEventListener(MetaClassRegistryChangeEventListener listener) {
    synchronized (changeListenerList) {
        changeListenerList.add(listener);
    }
}

/**
 * Adds a listener for constant meta classes. This listener cannot be removed!
 * @param listener the listener
 */
public void addNonRemovableMetaClassRegistryChangeEventListener(MetaClassRegistryChangeEventListener listener) {
    synchronized (changeListenerList) {
        nonRemoveableChangeListenerList.add(listener);
    }
}

/**
 * Removes a constant meta class listener.
 */
public void removeMetaClassRegistryChangeEventListener(MetaClassRegistryChangeEventListener listener) {
    synchronized (changeListenerList) {
        changeListenerList.remove(listener);
    }
}

/**
 * Causes the execution of all registered listeners. This method is used mostly
 * internal to kick of the listener notification. It can also be used by subclasses
 * to achieve the same.
 *
 * @param obj object instance if the MetaClass change is on a per-instance metaclass (or null if global)
 * @param c the class
 * @param oldMC the old MetaClass
 * @param newMc the new MetaClass
 */
protected void fireConstantMetaClassUpdate(Object obj, Class c, final MetaClass oldMC, MetaClass newMc) {
    MetaClassRegistryChangeEventListener[] listener = getMetaClassRegistryChangeEventListeners();
    MetaClassRegistryChangeEvent cmcu = new MetaClassRegistryChangeEvent(this, obj, c, oldMC, newMc);
    for (int i = 0; i<listener.length; i++) {
        listener[i].updateConstantMetaClass(cmcu);
    }
}

/**
 * Gets an array of of all registered ConstantMetaClassListener instances.
 */
public MetaClassRegistryChangeEventListener[] getMetaClassRegistryChangeEventListeners() {
    synchronized (changeListenerList) {
        ArrayList<MetaClassRegistryChangeEventListener> ret = new ArrayList(changeListenerList.size()+nonRemoveableChangeListenerList.size());
        ret.addAll(nonRemoveableChangeListenerList);
        ret.addAll(changeListenerList);
        return (MetaClassRegistryChangeEventListener[]) ret.toArray(new MetaClassRegistryChangeEventListener[ret.size()]);
    }
}

/**
 * Singleton of MetaClassRegistry.
 */
public static MetaClassRegistry getInstance(int includeExtension) {
    if (includeExtension != DONT_LOAD_DEFAULT) {

if (instanceInclude == null) {
    instanceInclude = new MetaClassRegistryImpl();
}
return instanceInclude;
} else {
    if (instanceExclude == null) {
        instanceExclude = new MetaClassRegistryImpl(DONT_LOAD_DEFAULT);
    }
    return instanceExclude;
}
}

public FastArray getInstanceMethods() {
    return instanceMethods;
}

public FastArray getStaticMethods() {
    return staticMethods;
}

/**
 * Returns an iterator to iterate over all constant meta classes.
 * This iterator can be seen as making a snapshot of the current state
 * of the registry. The snapshot will include all meta classes that has
 * been used unless they are already collected. Collected meta classes
 * will be skipped automatically, so you can expect that each element
 * of the iteration is not null. Calling this method is thread safe, the
 * usage of the iterator is not.
 *
 * @return the iterator.
 */

public Iterator iterator() {
    final MetaClass[] refs;
    synchronized (metaClassInfo) {
        refs = (MetaClass[]) metaClassInfo.toArray(new MetaClass[0]);
    }

    return new Iterator() {
        // index in the ref array
        private int index = 0;
        // the current meta class
        private MetaClass currentMeta;
        // used to ensure that hasNext has been called
        private boolean hasNextCalled = false;
        // the cached hasNext call value
        private boolean hasNext = false;

        public boolean hasNext() {
            // index in the ref array
            if (index < refs.length) {

                currentMeta = refs[index];
                hasNext = currentMeta != null;
            }
            return hasNext;
        }

        public boolean hasNextCalled() { return hasNextCalled; }
if (hasNextCalled) return hasNext;
hasNextCalled = true;
if(index < refs.length) {
    hasNext = true;
    currentMeta = refs[index];
    index++;
} else {
    hasNext = false;
}
return hasNext;
}

private void ensureNext() {
    // we ensure that hasNext has been called before
    // next is called
    hasNext();
    hasNextCalled = false;
}

public Object next() {
    ensureNext();
    return currentMeta;
}

public void remove() {
    ensureNext();
    setMetaClass(currentMeta.getTheClass(), currentMeta, null);
    currentMeta = null;
};

package org.codehaus.groovy.vmplugin;

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 */
import org.codehaus.groovy.ast.*;

/**
 * Interface to access VM version based actions.
 * This interface is for internal use only!
 * @author Jochen Theodorou
 */
public interface VMPlugin {
  void setAdditionalClassInformation(ClassNode c);
  Class[] getPluginDefaultGroovyMethods();
  Class[] getPluginStaticGroovyMethods();
  void configureAnnotation(AnnotationNode an);
  void configureClassNode(CompileUnit compileUnit, ClassNode classNode);
}

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*/
package org.codehaus.groovy.vmplugin;

/**
 * Factory class to get functionality based on the VM version.
 * The usage of this class is not for public use, only for the
 * runtime.
 * @author Jochen Theodorou
 */
public class VMPluginFactory {

  private static final String JDK5_CLASSNAME_CHECK = "java.lang.annotation.Annotation";
  private static final String JDK6_CLASSNAME_CHECK = "javax.script.ScriptEngine";
  private static final String JDK7_CLASSNAME_CHECK = "java.nio.file.FileRef";

  private static final String JDK5_PLUGIN_NAME = "org.codehaus.groovy.vmplugin.v5.Java5";
  private static final String JDK6_PLUGIN_NAME = "org.codehaus.groovy.vmplugin.v6.Java6";
  private static final String JDK7_PLUGIN_NAME = "org.codehaus.groovy.vmplugin.v7.Java7";
private static VMPlugin plugin;

static {
    plugin = createPlugin(JDK7_CLASSNAME_CHECK, JDK7_PLUGIN_NAME);
    if (plugin == null) {
        // v6 plugin is the same as v5 but with some scripting stuff
        // so check below is good enough for now (can be true for JVM 5)
        plugin = createPlugin(JDK6_CLASSNAME_CHECK, JDK6_PLUGIN_NAME);
    }
    if (plugin == null) {
        plugin = createPlugin(JDK5_CLASSNAME_CHECK, JDK5_PLUGIN_NAME);
    }
}

public static VMPlugin getPlugin() {
    return plugin;
}

private static VMPlugin createPlugin(String classNameCheck, String pluginName) {
    try {
        ClassLoader loader = VMPluginFactory.class.getClassLoader();
        loader.loadClass(classNameCheck);
        return (VMPlugin) loader.loadClass(pluginName).newInstance();
    } catch (Exception ex) {
        return null;
    }
}

7.147 gshell-io 2.4
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 */

package com.google.common.primitives;

import static com.google.common.base.Preconditions.checkNotNull;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;

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import java.util.HashMap;
import java.util.Map;
import java.util.Set;

import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;
/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 * @since 1.0
 */

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 an immutable set of all nine primitive types (including
     * @code void @endcode). Note that a simpler way to test whether a
     * @code Class@endcode instance
     * is a member of this set is to call @link Class#isPrimitive}. *
     */
public static Set<Class<?>> allPrimitiveTypes() {
    return PRIMITIVE_TO_WRAPPER_TYPE.keySet();
}

public static Set<Class<?>> allWrapperTypes() {
    return WRAPPER_TO_PRIMITIVE_TYPE.keySet();
}

public static boolean isWrapperType(Class<?> type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(checkNotNull(type));
}

public static <T> Class<T> wrap(Class<T> type) {
    checkNotNull(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(type);
    return (wrapped == null) ? type : wrapped;
}

public static <T> Class<T> wrap(Class<T> type) {
    checkNotNull(type);
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_PRIMITIVE_TYPE.get(type);
    return (wrapped == null) ? type : wrapped;
}

public static boolean isWrapperType(Class<? super T> type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(checkNotNull(type));
}

public static <T> Class<T> wrap(Class<? super T> type) {
    checkNotNull(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(type);
    return (wrapped == null) ? type : wrapped;
}
public static <T> Class<T> unwrap(Class<T> type) {
    checkNotNull(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(type);
    return (unwrapped == null) ? type : unwrapped;
}

package com.google.common.util.concurrent;
import com.google.common.annotations.Beta;
import java.util.concurrent.Callable;
import java.util.concurrent.TimeUnit;

/**
 * Produces proxies that impose a time limit on method
 * calls to the proxied object. For example, to return the value of
 * { @code target.someMethod() }, but substitute { @code DEFAULT_VALUE } if this
 * method call takes over 50 ms, you can use this code:
 * <pre>
 * TimeLimiter limiter = . . .;
 * TargetType proxy = limiter.newProxy(
 *      target, TargetType.class, 50, TimeUnit.MILLISECONDS);
 * try {
 *      return proxy.someMethod();
 */
* } catch (UncheckedTimeoutException e) {
*   return DEFAULT_VALUE;
* }
* </pre>
* Please see {@code SimpleTimeLimiterTest} for more usage examples.
*
* @author Kevin Bourrillion
* @since 1.0
*/

@Beta
public interface TimeLimiter {

/**
* Returns an instance of {@code interfaceType} that delegates all method
* calls to the {@code target} object, enforcing the specified time limit on
* each call. This time-limited delegation is also performed for calls to
* {Object#equals}, {Object#hashCode}, and
* {Object#toString}.
* <p>
* If the target method call finishes before the limit is reached, the return
* value or exception is propagated to the caller exactly as-is. If, on the
* other hand, the time limit is reached, the proxy will attempt to abort the
* call to the target, and will throw an {UncheckedTimeoutException} to
* the caller.
* <p>
* It is important to note that the primary purpose of the proxy object is to
* return control to the caller when the timeout elapses; aborting the target
* method call is of secondary concern. The particular nature and strength
* of the guarantees made by the proxy is implementation-dependent. However,
* it is important that each of the methods on the target object behaves
* appropriately when its thread is interrupted.
* *
* @param target the object to proxy
* @param interfaceType the interface you wish the returned proxy to
*   implement
* @param timeoutDuration with timeoutUnit, the maximum length of time that
*   callers are willing to wait on each method call to the proxy
* @param timeoutUnit with timeoutDuration, the maximum length of time that
*   callers are willing to wait on each method call to the proxy
* @return a time-limiting proxy
* @throws IllegalArgumentException if {interfaceType} is a regular
*   class, enum, or annotation type, rather than an interface
* /
*T> T newProxy(T target, Class<T> interfaceType,
*            long timeoutDuration, TimeUnit timeoutUnit);

/**
* Invokes a specified Callable, timing out after the specified time limit.
* If the target method call finished before the limit is reached, the return
* value or exception is propagated to the caller exactly as-is. If, on the
* other hand, the time limit is reached, we attempt to abort the call to the
* target, and throw an [@link UncheckedTimeoutException] to the caller.

<p>
<b>Warning:</b> The future of this method is in doubt. It may be nuked, or
* changed significantly.

*/

<T> T callWithTimeout(Callable<T> callable, long timeoutDuration,
    TimeUnit timeoutUnit, boolean interruptible) throws Exception;

package com.google.common.util.concurrent;

import static com.google.common.base.Preconditions.checkArgument;
import static com.google.common.base.Preconditions.checkNotNull;
import com.google.common.annotations.Beta;
import com.google.common.collect.ObjectArrays;
import com.google.common.collect.Sets;

import com.google.common.annotations.Beta;
import com.google.common.collect.ObjectArrays;
import com.google.common.collect.Sets;
import java.lang.reflect.InvocationHandler;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Proxy;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.Future;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;

/**
 * A TimeLimiter that runs method calls in the background using an
 * {@link ExecutorService}. If the time limit expires for a given method call,
 * the thread running the call will be interrupted.
 *
 * @author Kevin Bourrillion
 * @since 1.0
 */
@Beta
public final class SimpleTimeLimiter implements TimeLimiter {

    private final ExecutorService executor;

    /**
     * Constructs a TimeLimiter instance using the given executor service to
     * execute proxied method calls.
     *<p>
     * <b>Warning:</b> using a bounded executor
     * may be counterproductive! If the thread pool fills up, any time callers
     * spend waiting for a thread may count toward their time limit, and in
     * this case the call may even time out before the target method is ever
     * invoked.
     *
     * @param executor the ExecutorService that will execute the method calls on
     * the target objects; for example, a {@link Executors#newCachedThreadPool()}.  
     */
    public SimpleTimeLimiter(ExecutorService executor) {
        this.executor = checkNotNull(executor);
    }

    /**
     * Constructs a TimeLimiter instance using a {@link Executors#newCachedThreadPool()} to execute proxied method calls.
     */

* Warning: using a bounded executor may be counterproductive! If the thread pool fills up, any time callers spend waiting for a thread may count toward their time limit, and in this case the call may even time out before the target method is ever invoked.
*/

public SimpleTimeLimiter() {
    this(Executors.newCachedThreadPool());
}

@Override
public <T> T newProxy(final T target, Class<T> interfaceType,
    final long timeoutDuration, final TimeUnit timeoutUnit) {
    checkNotNull(target);
    checkNotNull(interfaceType);
    checkNotNull(timeoutUnit);
    checkArgument(timeoutDuration > 0, "bad timeout: " + timeoutDuration);
    checkArgument(interfaceType.isInterface(),
        "interfaceType must be an interface type");

    final Set<Method> interruptibleMethods
        = findInterruptibleMethods(interfaceType);

    InvocationHandler handler = new InvocationHandler() {
        @Override
        public Object invoke(Object obj, final Method method, final Object[] args)
            throws Throwable {
            Callable<Object> callable = new Callable<Object>() {
                @Override
                public Object call() throws Exception {
                    try {
                        return method.invoke(target, args);
                    } catch (InvocationTargetException e) {
                        throwCause(e, false);
                        throw new AssertionError("can't get here");
                    }
                }
            };
            return callWithTimeout(callable, timeoutDuration, timeoutUnit,
                interruptibleMethods.contains(method));
        }
    };
    return newProxy(interfaceType, handler);
}

// TODO: should this actually throw only ExecutionException?
@Override
public <T> T callWithTimeout(Callable<T> callable, long timeoutDuration,
TimeUnit timeoutUnit, boolean amInterruptible) throws Exception {
    checkNotNull(callable);
    checkNotNull(timeoutUnit);
    checkArgument(timeoutDuration > 0, "timeout must be positive: %s",
        timeoutDuration);
    Future<T> future = executor.submit(callable);
    try {
        if (amInterruptible) {
            try {
                return future.get(timeoutDuration, timeoutUnit);
            } catch (InterruptedException e) {
                future.cancel(true);
                throw e;
            }
        } else {
            return Uninterruptibles.getUninterruptibly(future,
                timeoutDuration, timeoutUnit);
        }
    } catch (ExecutionException e) {
        throw throwCause(e, true);
    } catch (TimeoutException e) {
        future.cancel(true);
        throw new UncheckedTimeoutException(e);
    }
}

private static Exception throwCause(Exception e, boolean combineStackTraces)
    throws Exception {
    Throwable cause = e.getCause();
    if (cause == null) {
        throw e;
    }
    if (combineStackTraces) {
        StackTraceElement[] combined = ObjectArrays.concat(cause.getStackTrace(),
            e.getStackTrace(), StackTraceElement.class);
        cause.setStackTrace(combined);
    }
    if (cause instanceof Exception) {
        throw (Exception) cause;
    }
    if (cause instanceof Error) {
        throw (Error) cause;
    }
    // The cause is a weird kind of Throwable, so throw the outer exception.
    throw e;
}

private static Set<Method> findInterruptibleMethods(Class<?> interfaceType) {

Set<Method> set = Sets.newHashSet();
for (Method m : interfaceType.getMethods()) {
    if (declaresInterruptedEx(m)) {
        set.add(m);
    }
}
return set;

private static boolean declaresInterruptedEx(Method method) {
    for (Class<?> exType : method.getExceptionTypes()) {
        // debate: == or isAssignableFrom?
        if (exType == InterruptedException.class) {
            return true;
        }
    }
    return false;
}

// TODO: replace with version in common.reflect if and when it's open-sourced
private static <T> T newProxy(
    Class<T> interfaceType, InvocationHandler handler) {
    Object object = Proxy.newProxyInstance(interfaceType.getClassLoader(),
        new Class<?>[] { interfaceType }, handler);
    return interfaceType.cast(object);
}

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 */

package com.google.common.util.concurrent;

import com.google.common.annotations.Beta;

import java.util.concurrent.Callable;
import java.util.concurrent.TimeUnit;

/**
 * A TimeLimiter implementation which actually does not attempt to limit time
 * at all. This may be desirable to use in some unit tests. More importantly,
 * attempting to debug a call which is time-limited would be extremely annoying,
 * so this gives you a time-limiter you can easily swap in for your real
 * time-limiter while you're debugging.
 *
 * @author Kevin Bourrillion
 * @since 1.0
 */
@Beta
public final class FakeTimeLimiter implements TimeLimiter {

@Override
public <T> T newProxy(T target, Class<T> interfaceType, long timeoutDuration,
        TimeUnit timeoutUnit) {
    return target; // ha ha
}

@Override
public <T> T callWithTimeout(Callable<T> callable, long timeoutDuration,
        TimeUnit timeoutUnit, boolean amInterruptible) throws Exception {
    return callable.call(); // fooled you
}

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 */

package com.google.common.io;

import com.google.common.annotations.Beta;
import com.google.common.base.Preconditions;
import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
 * An InputStream that limits the number of bytes which can be read.
 * 
 * @author Charles Fry
 * @since 1.0
 *
 */
@Beta
public final class LimitInputStream extends FilterInputStream {

private long left;
private long mark = -1;

/**
 * Wraps another input stream, limiting the number of bytes which can be read.
 * 
 * @param in the input stream to be wrapped
 * @param limit the maximum number of bytes to be read
 *
 */
public LimitInputStream(InputStream in, long limit) {
    super(in);
    Preconditions.checkNotNull(in);
    Preconditions.checkArgument(limit >= 0, "limit must be non-negative");
    left = limit;
}

@Override public int available() throws IOException {
    return (int) Math.min(in.available(), left);
}

@Override public synchronized void mark(int readlimit) {
    in.mark(readlimit);
    mark = left;
    // it's okay to mark even if mark isn't supported, as reset won't work
}

@Override public int read() throws IOException {
    if (left == 0) {
        return -1;
    }
    int result = in.read();
    if (result != -1) {
        --left;
    }
    return result;
}

@Override public int available() throws IOException {
    return (int) Math.min(in.available(), left);
}

@Override public synchronized void mark(int readlimit) {
    in.mark(readlimit);
    mark = left;
    // it's okay to mark even if mark isn't supported, as reset won't work
}

@Override public int read() throws IOException {
    if (left == 0) {
        return -1;
    }
    int result = in.read();
    if (result != -1) {
        --left;
    }
    return result;
}
@Override public int read(byte[] b, int off, int len) throws IOException {
    if (left == 0) {
        return -1;
    }

    len = (int) Math.min(len, left);
    int result = in.read(b, off, len);
    if (result != -1) {
        left -= result;
    }
    return result;
}

@Override public synchronized void reset() throws IOException {
    if (!in.markSupported()) {
        throw new IOException("Mark not supported");
    }
    if (mark == -1) {
        throw new IOException("Mark not set");
    }

    in.reset();
    left = mark;
}

@Override public long skip(long n) throws IOException {
    n = Math.min(n, left);
    long skipped = in.skip(n);
    left -= skipped;
    return skipped;
}

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 */
package com.google.common.hash;

import com.google.common.annotations.Beta;

import java.nio.charset.Charset;

/**
 * An object which can receive a stream of primitive values.
 *
 * @author Kevin Bourrillion
 * @since 12.0 (in 11.0 as @code Sink)
 */
@Beta
public interface PrimitiveSink {

/**
 * Puts a byte into this sink.
 *
 * @param b a byte
 * @return this instance
 */
PrimitiveSink putByte(byte b);

/**
 * Puts an array of bytes into this sink.
 *
 * @param bytes a byte array
 * @return this instance
 */
PrimitiveSink putBytes(byte[] bytes);

/**
 * Puts a chunk of an array of bytes into this sink. \{@code bytes[off]\} is the first byte written,
 * \{@code bytes[off + len - 1]\} is the last.
 *
 * @param bytes a byte array
 * @param off the start offset in the array
 * @param len the number of bytes to write
 * @return this instance
 * @throws IndexOutOfBoundsException if \{@code off < 0\} or \{@code off + len > bytes.length\} or
 * \{@code len < 0\}
 */
PrimitiveSink putBytes(byte[] bytes, int off, int len);

/**
 * Puts a short into this sink.
 */
PrimitiveSink putShort(short s);
/**
 * Puts an int into this sink.
 */
PrimitiveSink putInt(int i);

/**
 * Puts a long into this sink.
 */
PrimitiveSink putLong(long l);

/**
 * Puts a float into this sink.
 */
PrimitiveSink putFloat(float f);

/**
 * Puts a double into this sink.
 */
PrimitiveSink putDouble(double d);

/**
 * Puts a boolean into this sink.
 */
PrimitiveSink putBoolean(boolean b);

/**
 * Puts a character into this sink.
 */
PrimitiveSink putChar(char c);

/**
 * Puts a string into this sink.
 */
PrimitiveSink putString(CharSequence charSequence);

/**
 * Puts a string into this sink using the given charset.
 */
PrimitiveSink putString(CharSequence charSequence, Charset charset);
}
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7.155 hawtdispatch-transport 1.18

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7.157 hk2-locator 2.1.88

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package org.jvnet.hk2.external.generator;
import javax.inject.Singleton;
import org.glassfish.hk2.api.ClassAnalyzer;
import org.glassfish.hk2.api.DynamicConfigurationService;
import org.glassfish.hk2.api.ServiceLocator;
import org.glassfish.hk2.extension.ServiceLocatorGenerator;
import org.glassfish.hk2.utilities.BuilderHelper;
import org.jvnet.hk2.internal.DefaultClassAnalyzer;
import org.jvnet.hk2.internal.DynamicConfigurationImpl;
import org.jvnet.hk2.internal.DynamicConfigurationServiceImpl;
import org.jvnet.hk2.internal.ServiceLocatorImpl;
import org.jvnet.hk2.internal.Utilities;

/**
 * @author jwells
 *
 */
public class ServiceLocatorGeneratorImpl implements ServiceLocatorGenerator {
    private ServiceLocatorImpl initialize(String name, ServiceLocator parent) {
        if (parent != null && !(parent instanceof ServiceLocatorImpl)) {
            throw new AssertionError("parent must be a " + ServiceLocatorImpl.class.getName() + 
                    " instead it is a " + parent.getClass().getName());
        }
        ServiceLocatorImpl sli = new ServiceLocatorImpl(name, (ServiceLocatorImpl) parent);
    }
}
DynamicConfigurationImpl dci = new DynamicConfigurationImpl(sli);

// The service locator itself
dci.bind(Utilities.getLocatorDescriptor(sli));

// The injection resolver for three thirty
dci.addActiveDescriptor(Utilities.getThreeThirtyDescriptor(sli));

// The dynamic configuration utility
dci.bind(BuilderHelper.link(DynamicConfigurationServiceImpl.class, false).
to(DynamicConfigurationService.class).
in(Singleton.class.getName()).
localOnly().
build());

dci.bind(BuilderHelper.createConstantDescriptor(
    new DefaultClassAnalyzer(sli)));

dci.commit();

return sli;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.extension.ServiceLocatorGenerator#create(java.lang.String,
 *      org.glassfish.hk2.api.Module)
 */
@Override
public ServiceLocator create(String name, ServiceLocator parent) {
    ServiceLocatorImpl retVal = initialize(name, parent);

    return retVal;
}

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*/
package org.jvnet.hk2.internal;

import org.glassfish.hk2.api.Descriptor;
import org.glassfish.hk2.api.ErrorInformation;
import org.glassfish.hk2.api.ErrorType;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.MultiException;

/**
 * @author jwells
 */
public class ErrorInformationImpl implements ErrorInformation {
    private final ErrorType errorType;
    private final Descriptor descriptor;
    private final Injectee injectee;
    private final MultiException exception;

    /* package */ ErrorInformationImpl(ErrorType errorType,
            Descriptor descriptor,
            Injectee injectee,
MultiException exception) {
    this.errorType = errorType;
    this.descriptor = descriptor;
    this.injectee = injectee;
    this.exception = exception;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ErrorInformation#getErrorType()
* /
@Override
public ErrorType getErrorType() {
    return errorType;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ErrorInformation#getDescriptor()
* /
* @Override
public Descriptor getDescriptor() {
    return descriptor;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ErrorInformation#getInjectee()
* /
* @Override
public Injectee getInjectee() {
    return injectee;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ErrorInformation#getAssociatedException()
* /
* @Override
public MultiException getAssociatedException() {
    return exception;
}

public String toString() {
    return "ErrorInformation(" + errorType + "," +
            descriptor + "," +
            injectee + "," +
            exception + "," +
            System.identityHashCode(this) + ");";
}
}
package org.jvnet.hk2.internal;

import java.util.LinkedList;
import java.util.List;
import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Context;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.PerLookup;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.utilities.reflection.ReflectionHelper;

/**
 * This handle does the underlying work of getting the service. Only
 * at the time that the getService call is made is the service gotten
 * from the context. Once a service has been gotten, it is not looked
 * up again.
 *
 * @author jwells
 * @param <T> The type of service to create
 *
 */
public class ServiceHandleImpl<T> implements ServiceHandle<T> {
    private ActiveDescriptor<T> root;
    private final ServiceLocatorImpl locator;
    private final Injectee injectee;
    private final Object lock = new Object();

    private boolean serviceDestroyed = false;
    private boolean serviceSet = false;
    private T service;

    private final List<ServiceHandleImpl<?>> subHandles = new LinkedList<ServiceHandleImpl<?>>();

    /* package */ ServiceHandleImpl(ServiceLocatorImpl locator, ActiveDescriptor<T> root, Injectee injectee) {
        this.root = root;
        this.locator = locator;
        this.injectee = injectee;
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.ServiceHandle#getService()
     */
    @Override
    public T getService() {
        synchronized (lock) {
            if (serviceDestroyed) throw new IllegalStateException("Service has been disposed");
            if (serviceSet) return service;
            Class<?> requiredClass = (injectee == null) ? null :
            ReflectionHelper.getRawClass(injectee.getRequiredType());

            service = Utilities.createService(root, injectee, locator, this, requiredClass);
            serviceSet = true;
        }
    }

    /* @see org.glassfish.hk2.api.ServiceHandle#setService()
    */
    @Override
    public void setService(T service) {
        synchronized (lock) {
            if (service == null) return;

            if (serviceSet) throw new IllegalStateException("Service has been disposed");

            this.service = service;
            this.serviceSet = true;
        }
    }
}

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```
return service;
}
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#getActiveDescriptor()
 */
@override
public ActiveDescriptor<T> getActiveDescriptor() {
    return root;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#isActive()
 */
@override
public boolean isActive() {
    // No lock needed, nothing changes state
    if (serviceDestroyed) return false;
    if (serviceSet) return true;
    try {
        Context<?> context = locator.resolveContext(root.getScopeAnnotation());
        return context.containsKey(root);
    }
    catch (IllegalStateException ise) {
        return false;
    }
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#destroy()
 */
@override
public void destroy() {
    boolean localServiceSet;
    boolean serviceActive;
    synchronized (lock) {
        serviceActive = isActive();
        if (serviceDestroyed) return;
        serviceDestroyed = true;
        localServiceSet = serviceSet;
    }
```

if (root.getScopeAnnotation().equals(PerLookup.class)) {
    if (localServiceSet) {
        // Otherwise it is the scope responsible for the lifecycle
        root.dispose(service);
    }
} else if (serviceActive) {
    Context<?> context;
    try {
        context = locator.resolveContext(root.getScopeAnnotation());
    }
    catch (Throwable th) {
        return;
    }

    context.destroyOne(root);
}

for (ServiceHandleImpl<?> subHandle : subHandles) {
    subHandle.destroy();
}

/**
 * Add a sub handle to this for proper destruction
 *
 * @param subHandle A handle to add for proper destruction
 */
public void addSubHandle(ServiceHandleImpl<?> subHandle) {
    subHandles.add(subHandle);
}

public String toString() {
    return "ServiceHandle(" + root + "," + System.identityHashCode(this) + ");";
}
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*/
package org.jvnet.hk2.internal;

import javax.inject.Inject;
import javax.inject.Singleton;

import org.glassfish.hk2.api.DynamicConfiguration;
import org.glassfish.hk2.api.DynamicConfigurationService;
import org.glassfish.hk2.api.ServiceLocator;

/**
 * @author jwells
 *
 */
@Singleton
public class DynamicConfigurationServiceImpl implements DynamicConfigurationService
{
    private final ServiceLocatorImpl locator;

    import javax.inject.Inject;
    import javax.inject.Singleton;

    import org.glassfish.hk2.api.DynamicConfiguration;
    import org.glassfish.hk2.api.DynamicConfigurationService;
    import org.glassfish.hk2.api.ServiceLocator;

    /**
     * @author jwells
     *
     */
    @Singleton
    public class DynamicConfigurationServiceImpl implements DynamicConfigurationService
    {
        private final ServiceLocatorImpl locator;
@Inject
private DynamicConfigurationServiceImpl(ServiceLocator locator) {
    this.locator = (ServiceLocatorImpl) locator;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.DynamicConfigurationService#createDynamicConfiguration()
 */
@Override
public DynamicConfiguration createDynamicConfiguration() {
    return new DynamicConfigurationImpl(locator);
}
either the CDDL, the GPL Version 2 or to extend the choice of license to
its licensees as provided above. However, if you add GPL Version 2 code
and therefore, elected the GPL Version 2 license, then the option applies
only if the new code is made subject to such option by the copyright
holder.
*/

package org.jvnet.hk2.internal;

import java.lang.annotation.Annotation;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Set;
import org.glassfish.hk2.api.IterableProvider;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.api.Unqualified;
import org.glassfish.hk2.utilities.NamedImpl;
import org.glassfish.hk2.utilities.reflection.Pretty;

/**
 * @author jwells
 *
 * @param <T> The type for this provider
 */
public class IterableProviderImpl<T> implements IterableProvider<T> {
    private final ServiceLocatorImpl locator;
    private final Type requiredType;
    private final Set<Annotation> requiredQualifiers;
    private final Unqualified unqualified;

    /* package */ IterableProviderImpl(
        ServiceLocatorImpl locator,
        Type requiredType,
        Set<Annotation> requiredQualifiers,
        Unqualified unqualified) {
        this.locator = locator;
        this.requiredType = requiredType;
        this.requiredQualifiers = Collections.unmodifiableSet(requiredQualifiers);
        this.unqualified = unqualified;
    }

    /* (non-Javadoc)
     * @see javax.inject.Provider#get()
     */
@SuppressWarnings("unchecked")
@Override
public T get() {
    // Must do this in this way to ensure that the generated item is properly associated with the root
    if (unqualified == null) {
        return (T) locator.getService(requiredType,
           requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
    }

    return (T) locator.getUnqualifiedService(requiredType, unqualified,
       requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
    }

    /* (non-Javadoc)
    * @see org.glassfish.hk2.api.IterableProvider#getHandle()
    */
    @SuppressWarnings("unchecked")
    @Override
    public ServiceHandle<T> getHandle() {
        if (unqualified == null) {
            return (ServiceHandle<T>) locator.getServiceHandle(requiredType,
                requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
        }

        return (ServiceHandle<T>) locator.getUnqualifiedServiceHandle(requiredType, unqualified,
            requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
        }

    /* (non-Javadoc)
    * @see java.lang.Iterable#iterator()
    */
    @Override
    public Iterator<T> iterator() {
        List<ServiceHandle<T>> handles;
        if (unqualified == null) {
            handles = Utilities.<List<ServiceHandle<T>>>cast(locator.getAllServiceHandles(requiredType,
                requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
        } else {
            handles = Utilities.<List<ServiceHandle<T>>>cast(locator.getAllUnqualifiedServiceHandles(requiredType,
                unqualified, requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
        }

        return new MyIterator<T>(handles);
    }

    /* (non-Javadoc)
/* @see org.glassfish.hk2.api.IterableProvider#getSize() */

@Override
public int getSize() {
    if (unqualified == null) {
        return locator.getAllServiceHandles(requiredType, requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])).size();
    }

    return locator.getAllUnqualifiedServiceHandles(requiredType, unqualified, requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])).size();
}

/*@see org.glassfish.hk2.api.IterableProvider#named(java.lang.String)*/

@Override
public IterableProvider<T> named(String name) {
    return qualifiedWith(new NamedImpl(name));
}

/*@see org.glassfish.hk2.api.IterableProvider#ofType(java.lang.reflect.Type)*/

@Override
public <U> IterableProvider<U> ofType(Type type) {
    return new IterableProviderImpl<U>(locator, type, requiredQualifiers, unqualified);
}

/*@see org.glassfish.hk2.api.IterableProvider#qualifiedWith(java.lang.annotation.Annotation[])*/

@Override
public IterableProvider<T> qualifiedWith(Annotation... qualifiers) {
    HashSet<Annotation> moreAnnotations = new HashSet<Annotation>(requiredQualifiers);
    for (Annotation qualifier : qualifiers) {
        moreAnnotations.add(qualifier);
    }

    return new IterableProviderImpl<T>(locator, requiredType, moreAnnotations, unqualified);
}

/*@see org.glassfish.hk2.api.IterableProvider#handleIterator()*/

@Override
public Iterable<ServiceHandle<T>> handleIterator() {
    List<ServiceHandle<T>> handles =
Utilities.<List<ServiceHandle<T>>>cast(locator.getAllServiceHandles(requiredType,
requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])))

    return new HandleIterable<T>(handles);
    }

private static class MyIterator<U> implements Iterator<U> {
    private final LinkedList<ServiceHandle<U>> handles;

    private MyIterator(List<ServiceHandle<U>> handles) {
        this.handles = new LinkedList<ServiceHandle<U>>(handles);
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#hasNext()
     */
    @Override
    public boolean hasNext() {
        return !handles.isEmpty();
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#next()
     */
    @Override
    public U next() {
        ServiceHandle<U> nextHandle = handles.removeFirst();

        return nextHandle.getService();
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#remove()
     */
    @Override
    public void remove() {
        throw new UnsupportedOperationException();
    }
}

private static class HandleIterable<U> implements Iterable<ServiceHandle<U>> {
    private final List<ServiceHandle<U>> handles;

    private HandleIterable(List<ServiceHandle<U>> handles) {
        this.handles = new LinkedList<ServiceHandle<U>>(handles);
    }
}
/* (non-Javadoc)
 * @see java.lang.Iterable#iterator()
 */
@Override
public Iterator<ServiceHandle<U>> iterator() {
    return new MyHandleIterator<U>(handles);
}

private static class MyHandleIterator<U> implements Iterator<ServiceHandle<U>> {
    private final LinkedList<ServiceHandle<U>> handles;

    private MyHandleIterator(List<ServiceHandle<U>> handles) {
        this_handles = new LinkedList<ServiceHandle<U>>(handles);
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#hasNext()
     */
    @Override
    public boolean hasNext() {
        return !handles.isEmpty();
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#next()
     */
    @Override
    public ServiceHandle<U> next() {
        return handles.removeFirst();
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#remove()
     */
    @Override
    public void remove() {
        throw new UnsupportedOperationException();
    }

    public String toString() {
        return "IterableProviderImpl(" + Pretty.type(requiredType) + "," + Pretty.collection(requiredQualifiers) + "," + System.identityHashCode(this) + ")";
    }

    private final LinkedList<ServiceHandle<U>> handles;
}
package org.jvnet.hk2.internal;

*/
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*/
package org.jvnet.hk2.internal;
import java.util.Collections;
import java.util.Map;
import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.InstanceLifecycleEvent;
import org.glassfish.hk2.api.InstanceLifecycleEventType;

/**
* @author jwells
*
*/
public class InstanceLifecycleEventImpl implements InstanceLifecycleEvent {
    private final InstanceLifecycleEventType eventType;
    private final ActiveDescriptor<?> descriptor;
    private final Object lifecycleObject;
    private final Map<Injectee, Object> knownInjectees;

    /* package */ InstanceLifecycleEventImpl(InstanceLifecycleEventType eventType,
            Object lifecycleObject, Map<Injectee,Object> knownInjectees, ActiveDescriptor<?> descriptor) {
        this.eventType = eventType;
        this.lifecycleObject = lifecycleObject;
        if (knownInjectees == null) {
            this.knownInjectees = null;
        } else {
            this.knownInjectees = Collections.unmodifiableMap(knownInjectees);
        }
        this.descriptor = descriptor;
    }

    /* package */ InstanceLifecycleEventImpl(InstanceLifecycleEventType eventType,
            Object lifecycleObject, ActiveDescriptor<?> descriptor) {
        this(eventType, lifecycleObject, null, descriptor);
    }

    /* (non-Javadoc)
    * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getEventType()
    */
    @Override
    public InstanceLifecycleEventType getEventType() {
        return eventType;
    }

    /* (non-Javadoc)
    * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getActiveDescriptor()
    */
    @Override
    public ActiveDescriptor<?> getActiveDescriptor() {
        return descriptor;
    }

    /* (non-Javadoc)
    * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getEventType()
    */
    @Override
    public InstanceLifecycleEventType getEventType() {
        return eventType;
    }

    /* (non-Javadoc)
    * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getActiveDescriptor()
    */
    @Override
    public ActiveDescriptor<?> getActiveDescriptor() {
        return descriptor;
    }
public ActiveDescriptor<?> getActiveDescriptor() {
    return descriptor;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getLifecycleObject()
 */
@Override
public Object getLifecycleObject() {
    return lifecycleObject;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getKnownInjectees()
 */
@Override
public Map<Injectee, Object> getKnownInjectees() {
    return knownInjectees;
}
import java.lang.annotation.Annotation;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedSet;
import java.util.StringTokenizer;
import java.util.TreeSet;
import java.util.WeakHashMap;
import javax.inject.Named;
import javax.inject.Provider;
import javax.inject.Singleton;
import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.ClassAnalyzer;
import org.glassfish.hk2.api.Context;
import org.glassfish.hk2.api.Descriptor;
import org.glassfish.hk2.api.DescriptorVisibility;
import org.glassfish.hk2.api.ErrorService;
import org.glassfish.hk2.api.Filter;
import org.glassfish.hk2.api.HK2Loader;
import org.glassfish.hk2.api.IndexedFilter;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.InstanceLifecycleListener;
import org.glassfish.hk2.api.JustInTimeInjectionResolver;
import org.glassfish.hk2.api.Operation;
import org.glassfish.hk2.api.InjectionResolver;
import org.glassfish.hk2.api.IterableProvider;
import org.glassfish.hk2.api.MultiException;
import org.glassfish.hk2.api.PerLookup;
import org.glassfish.hk2.api.PostConstruct;
import org.glassfish.hk2.api.PreDestroy;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.api.ServiceLocator;
import org.glassfish.hk2.api.ServiceLocatorState;
import org.glassfish.hk2.api.Unqualified;
import org.glassfish.hk2.api.ValidationService;
import org.glassfish.hk2.api.Validator;
import org.glassfish.hk2.api.BuilderHelper;
import org.glassfish.hk2.api.reflection.Logger;
import org.glassfish.hk2.api.reflection.ParameterizedTypeImpl;
import org.glassfish.hk2.utilities.cache.LRUCache;
import org.glassfish.hk2.utilities.cache.CacheEntry;

/**
 * @author jwells
 *
 */

public class ServiceLocatorImpl implements ServiceLocator {
    private final static String BIND_TRACING_PATTERN_PROPERTY =
        "org.jvnet.hk2.properties.bind.tracing.pattern";
    private final static String BIND_TRACING_PATTERN;
    private final static String BIND_TRACING_STACKS_PROPERTY =
        "org.jvnet.hk2.properties.bind.tracing.stacks";
    private final static boolean BIND_TRACING_STACKS;
    static {
        BIND_TRACING_PATTERN = AccessController.doPrivileged(new PrivilegedAction<String>() {
            @Override
            public String run() {
                return System.getProperty(BIND_TRACING_PATTERN_PROPERTY);
            }
        });

        BIND_TRACING_STACKS = AccessController.doPrivileged(new PrivilegedAction<Boolean>() {
            @Override
            public Boolean run() {
                return Boolean.parseBoolean(System.getProperty(BIND_TRACING_STACKS_PROPERTY, "false"));
            }
        });
    }

    @Override
    public String run() {
        return System.getProperty(BIND_TRACING_PATTERN_PROPERTY);
    }
}

BIND_TRACING_STACKS = AccessController.doPrivileged(new PrivilegedAction<Boolean>() {
    @Override
    public Boolean run() {
        return Boolean.parseBoolean(System.getProperty(BIND_TRACING_STACKS_PROPERTY, "false"));
    }
});
if (BIND_TRACING_PATTERN != null) {
    Logger.getLogger().debug("HK2 will trace binds and unbinds of " + BIND_TRACING_PATTERN + " with stacks " + BIND_TRACING_STACKS);
}

private final static int CACHE_SIZE = 20000;
private final static Object sLock = new Object();
private static long currentLocatorId = 0L;

/* package */ final static DescriptorComparator DESCRIPTOR_COMPARATOR = new DescriptorComparator();
private final static ServiceHandleComparator HANDLE_COMPARATOR = new ServiceHandleComparator();

private final Object lock = new Object();
private long nextServiceId = 0L;
private final String locatorName;
private final long id;
private final ServiceLocatorImpl parent;

private final IndexedListData allDescriptors = new IndexedListData();
private final HashMap<String, IndexedListData> descriptorsByAdvertisedContract =
    new HashMap<String, IndexedListData>();
private final HashMap<String, IndexedListData> descriptorsByName =
    new HashMap<String, IndexedListData>();
private final HashMap<String, IndexedListData> descriptorsByName =
    new HashMap<String, IndexedListData>();
private final Context<Singleton> singletonContext = new SingletonContext(this);
private final Context<PerLookup> perLookupContext = new PerLookupContext();
private final LinkedHashSet<ValidationService> allValidators =
    new LinkedHashSet<ValidationService>();
private final LinkedList<ErrorService> errorHandlers =
    new LinkedList<ErrorService>();
private final HashMap<Class<? extends Annotation>, Context<?>> contextCache =
    new HashMap<Class<? extends Annotation>, Context<?>>();
// Fields needed for caching
private final LRUCache<CacheKey, NarrowResults> cache = LRUCache.createCache(CACHE_SIZE);
private final HashMap<String, List<CacheEntry>> cacheEntries = new HashMap<String, List<CacheEntry>>();
private final Map<ServiceLocatorImpl, ServiceLocatorImpl> children =
    new WeakHashMap<ServiceLocatorImpl, ServiceLocatorImpl>(); // Must be Weak for throw away children

private final Object classAnalyzerLock = new Object();
private final HashMap<String, ClassAnalyzer> classAnalyzers =
    new HashMap<String, ClassAnalyzer>();
private String defaultClassAnalyzer = ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME;
private final Object resolversLock = new Object();

private final HashMap<Class<? extends Annotation>, InjectionResolver<?>> allResolvers =
        new HashMap<Class<? extends Annotation>, InjectionResolver<?>>();

private ServiceLocatorState state = ServiceLocatorState.RUNNING;

/**
 * Called by the Generator, and hence must be a public method
 *
 * @param name The name of this locator
 * @param parent The parent of this locator (may be null)
 */

public ServiceLocatorImpl(String name, ServiceLocatorImpl parent) {
    locatorName = name;
    this.parent = parent;
    if (parent != null) {
        parent.addChild(this);
    }

    synchronized (sLock) {
        id = currentLocatorId++;
    }

    Logger.getLogger().debug("Created ServiceLocator " + this);
}

/**
 * Must be called under lock
 *
 * @param descriptor The descriptor to validate
 * @param onBehalfOf The fella who is being validated (or null)
 * @return true if every validator returned true
 */

private boolean validate(SystemDescriptor<?> descriptor, Injectee onBehalfOf, Filter filter) {
    for (ValidationService vs : getAllValidators()) {
        if (!descriptor.isValidating(vs)) continue;

        if (!vs.getValidator().validate(new ValidationInformationImpl(
                Operation.LOOKUP, descriptor, onBehalfOf, filter))) {
            return false;
        }
    }

    return true;
}

private List<SystemDescriptor<?>> getDescriptors(Filter filter, Injectee onBehalfOf,
boolean getParents,
boolean doValidation,
boolean getLocals) {
  if (filter == null) throw new IllegalArgumentException("filter is null");

  LinkedList<SystemDescriptor<?>> retVal;
  synchronized (lock) {
    Collection<SystemDescriptor<?>> sortMeOut;
    if (filter instanceof IndexedFilter) {
      IndexedFilter df = (IndexedFilter) filter;

      if (df.getName() != null) {
        Collection<SystemDescriptor<?>> scopedByName;

        String name = df.getName();

        IndexedListData ild = descriptorsByName.get(name);
        scopedByName = (ild == null) ? null : ild.getSortedList();
        if (scopedByName == null) {
          scopedByName = Collections.emptyList();
        }
        if (df.getAdvertisedContract() != null) {
          sortMeOut = new LinkedList<SystemDescriptor<?>>();

          for (SystemDescriptor<?> candidate : scopedByName) {
            if (candidate.getAdvertisedContracts().contains(df.getAdvertisedContract())) {
              sortMeOut.add(candidate);
            }
          }
        } else {
          sortMeOut = scopedByName;
        }
      } else if (df.getAdvertisedContract() != null) {
        sortMeOut = new LinkedList<SystemDescriptor<?>>();

        String advertisedContract = df.getAdvertisedContract();

        IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
        sortMeOut = (ild == null) ? null : ild.getSortedList();
        if (sortMeOut == null) {
          sortMeOut = Collections.emptyList();
        } else if (df.getAdvertisedContract() != null) {
          advertisedContract = df.getAdvertisedContract();

          IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
          sortMeOut = (ild == null) ? null : ild.getSortedList();
          if (sortMeOut == null) {
            sortMeOut = Collections.emptyList();
          } else {
            sortMeOut = allDescriptors.getSortedList();
          }
        } else {
          sortMeOut = allDescriptors.getSortedList();
        }
      }
    }
  }
}
else {
    sortMeOut = allDescriptors.getSortedList();
}

retVal = new LinkedList<SystemDescriptor<?>>();

for (SystemDescriptor<?> candidate : sortMeOut) {
    if (!getLocals && DescriptorVisibility.LOCAL.equals(candidate.getDescriptorVisibility())) {
        continue;
    }

    if (doValidation && !validate(candidate, onBehalfOf, filter)) continue;

    if (filter.matches(candidate)) {
        retVal.add(candidate);
    }
}

// Must be done outside of lock, or there can be a deadlock between child and parent
if (getParents && parent != null) {
    TreeSet<SystemDescriptor<?>> sorter = new TreeSet<SystemDescriptor<?>>(DESCRIPTOR_COMPARATOR);
    sorter.addAll(retVal);
    sorter.addAll(parent.getDescriptors(filter, onBehalfOf, getParents, doValidation, false));
    retVal.clear();
    retVal.addAll(sorter);
}

return retVal;

private List<ActiveDescriptor<?>> protectedGetDescriptors(final Filter filter) {
    return AccessController.doPrivileged(new PrivilegedAction<List<ActiveDescriptor<?>>>() {

        @Override
        public List<ActiveDescriptor<?>> run() {
            return getDescriptors(filter);
        }
    });
}
public List<ActiveDescriptor<?>> getDescriptors(Filter filter) {
    checkState();
    return Utilities.cast(getDescriptors(filter, null, true, true, true));
}

public ActiveDescriptor<?, ?> getBestDescriptor(Filter filter) {
    if (filter == null) throw new IllegalArgumentException("filter is null");
    checkState();

    List<ActiveDescriptor<?, ?>> sorted = getDescriptors(filter);
    return Utilities.getFirstThingInList(sorted);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#reifyDescriptor(org.glassfish.hk2.api.Descriptor)
 */

@override
public ActiveDescriptor<?, ?> reifyDescriptor(Descriptor descriptor, Injectee injectee)
    throws MultiException {
    checkState();
    if (descriptor == null) throw new IllegalArgumentException();
    if (!(descriptor instanceof ActiveDescriptor)) {
        SystemDescriptor<?> sd = new SystemDescriptor<Object>(descriptor, true, this, new
            Long(getNextServiceId()));

        Class<?> implClass = loadClass(descriptor, injectee);

        Collector collector = new Collector();
        sd.reify(implClass, collector);

        collector.throwIfErrors();

        return sd;
    }

    // Descriptor is an active descriptor
    ActiveDescriptor<?, ?> active = (ActiveDescriptor<?, ?>) descriptor;
    if (active.isReified()) return active;

    SystemDescriptor<?, ?> sd;
    if (active instanceof SystemDescriptor) {

sd = (SystemDescriptor<?>) active;
else {
    sd = new SystemDescriptor<Object>(descriptor, true, this, new Long(getNextServiceId()));
}

Class<?> implClass = sd.getPreAnalyzedClass();
if (implClass == null) {
    implClass = loadClass(descriptor, injectee);
}

Collector collector = new Collector();

sd.reify(implClass, collector);

collector.throwIfErrors();

return sd;

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#reifyDescriptor(org.glassfish.hk2.api.Descriptor)
 */
@Override
public ActiveDescriptor<?> reifyDescriptor(Descriptor descriptor)
throws MultiException {
    checkState();
    return reifyDescriptor(descriptor, null);
}

private ActiveDescriptor<?> secondChanceResolve(Injectee injectee) {
    // OK, lets do the second chance protocol
    Collector collector = new Collector();

    List<ServiceHandle<JustInTimeInjectionResolver>> jitResolvers =
        Utilities.<List<ServiceHandle<JustInTimeInjectionResolver>>>
cast(getAllServiceHandles(JustInTimeInjectionResolver.class));

    try {
        boolean modified = false;
        boolean aJITFailed = false;
        for (ServiceHandle<JustInTimeInjectionResolver> handle : jitResolvers) {
            if ((injectee.getInjecteeClass() != null) && (injectee.getInjecteeClass().getName().equals(handle.getActiveDescriptor().getImplementation()))) {
                // Do not self second-chance
                continue;
            }
        }
    }
JustInTimeInjectionResolver jitResolver;
try {
    jitResolver = handle.getService();
} catch (MultiException me) {
    // We just ignore this for now, it may be resolvable later
    Logger.getLogger().debug(handle.toString(), "secondChanceResolver", me);
    continue;
}

boolean jitModified = false;
try {
    jitModified = jitResolver.justInTimeResolution(injectee);
} catch (Throwable th) {
    collector.addThrowable(th);
aJITFailed = true;
}

modified = jitModified || modified;
}

if (aJITFailed) {
    collector.throwIfErrors();
}

if (!modified) {
    return null;
}

// Try again
return internalGetInjecteeDescriptor(injectee, false);
}

finally {
    for (ServiceHandle<JustInTimeInjectionResolver> jitResolver : jitResolvers) {
        if (jitResolver.getActiveDescriptor().getScope() == null ||
            PerLookup.class.getName().equals(jitResolver.getActiveDescriptor().getScope())) {
            // Destroy any per-lookup JIT resolver
            jitResolver.destroy();
        }
    }
}

private ActiveDescriptor<?> internalGetInjecteeDescriptor(Injectee injectee, boolean firstTime) {
    if (injectee == null) throw new IllegalArgumentException();
    checkState();
Type requiredType = injectee.getRequiredType();
Class<?> rawType = ReflectionHelper.getRawClass(requiredType);
if (rawType == null) {
    throw new MultiException(new IllegalArgumentException(
        "Invalid injectee with required type of " + injectee.getRequiredType() + " passed to
        getInjecteeDescriptor"));
}

if (Provider.class.equals(rawType) || IterableProvider.class.equals(rawType)) {
    IterableProviderImpl<?> value = new IterableProviderImpl<Object>(this,
            (Utilities.getFirstTypeArgument(requiredType)),
        injectee.getRequiredQualifiers(),
        injectee.getUnqualified());

    return new ConstantActiveDescriptor<Object>(value, id);
}

Set<Annotation> qualifiersAsSet = injectee.getRequiredQualifiers();
String name = Utilities.getNameFromAllQualifiers(qualifiersAsSet, injectee.getParent());

Annotation qualifiers[] = qualifiersAsSet.toArray(new Annotation[qualifiersAsSet.size()]);

ActiveDescriptor<?> retVal = internalGetDescriptor(injectee, requiredType, name, injectee.getUnqualified(),
        qualifiers);
if (retVal == null && firstTime) {
    return secondChanceResolve(injectee);
}
return retVal;

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getInjecteeDescriptor(org.glassfish.hk2.api.Injectee)
 */
@Override
public ActiveDescriptor<?> getInjecteeDescriptor(Injectee injectee) throws MultiException {
    return internalGetInjecteeDescriptor(injectee, true);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(org.glassfish.hk2.api.ActiveDescriptor)
 */
@Override
public <T> ServiceHandle<T> getServiceHandle(
        ActiveDescriptor<T> activeDescriptor,
        Injectee injectee) throws MultiException {
    return null;
if (activeDescriptor == null) throw new IllegalArgumentException();
checkState();

return new ServiceHandleImpl<T>(this, activeDescriptor, injectee);
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(org.glassfish.hk2.api.ActiveDescriptor)
*/
@Override
public <T> ServiceHandle<T> getServiceHandle(
    ActiveDescriptor<T> activeDescriptor) throws MultiException {
    return internalGetServiceHandle(activeDescriptor, null);
}

private <T> ServiceHandle<T> internalGetServiceHandle(
    ActiveDescriptor<T> activeDescriptor,
    Type requestedType) {
    if (activeDescriptor == null) throw new IllegalArgumentException();
    checkState();

    if (requestedType == null) {
        return getServiceHandle(activeDescriptor, null);
    }

    return getServiceHandle(activeDescriptor, new InjecteeImpl(requestedType));
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(org.glassfish.hk2.api.ActiveDescriptor,
* org.glassfish.hk2.api.ServiceHandle)
*/
@Deprecated
@Override
public <T> T getService(ActiveDescriptor<T> activeDescriptor,
    ServiceHandle<?> root) throws MultiException {
    return getService(activeDescriptor, root, null);
}

@Deprecated
public <T> T getService(ActiveDescriptor<T> activeDescriptor,
    ServiceHandle<?> root,
    Injectee originalRequest) throws MultiException {
    checkState();

    Type contractOrImpl = (originalRequest == null) ? null : originalRequest.getRequiredType();
    Class<?> rawClass = ReflectionHelper.getRawClass(contractOrImpl);

    if (root == null) {
        return null;
    }

    return getServiceHandle(activeDescriptor, root, originalRequest);
}
return Utilities.createService(activeDescriptor, null, this, null, rawClass);
}

ServiceHandle<T> subHandle = internalGetServiceHandle(activeDescriptor, contractOrImpl);

if (PerLookup.class.equals(activeDescriptor.getScopeAnnotation())) {
    ((ServiceHandleImpl<?>) root).addSubHandle((ServiceHandleImpl<T>) subHandle);
}

return subHandle.getService();

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type)
*/
@Override
public <T> T getService(Class<T> contractOrImpl, Annotation... qualifiers) throws MultiException {
    return getService((Type) contractOrImpl, qualifiers);
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type)
*/
@Override
public <T> T getService(Type contractOrImpl, Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, null, null);
    if (ad == null) return null;

    T retVal = Utilities.createService(ad, null, this, null, ReflectionHelper.getRawClass(contractOrImpl));

    return retVal;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type, java.lang.String)
*/
@Override
public <T> T getService(Class<T> contractOrImpl, String name, Annotation... qualifiers)
    throws MultiException {
    return internalGetService(contractOrImpl, name, qualifiers);
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type, java.lang.String)
*/
@Override
public <T> T getService(Type contractOrImpl, String name, Annotation... qualifiers) throws MultiException {
    return internalGetService(contractOrImpl, name, qualifiers);
}

private <T> T internalGetService(Type contractOrImpl, String name, Annotation... qualifiers) {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, name, null, qualifiers);
    if (ad == null) return null;

    T retVal = Utilities.createService(ad, null, this, null, ReflectionHelper.getRawClass(contractOrImpl));
    return retVal;
}

/* package */ <T> T getUnqualifiedService(Type contractOrImpl, Unqualified unqualified, Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, unqualified, qualifiers);
    if (ad == null) return null;

    T retVal = Utilities.createService(ad, null, this, null, ReflectionHelper.getRawClass(contractOrImpl));
    return retVal;
}

private <T> List<T> protectedGetAllServices(final Type contractOrImpl, final Annotation... qualifiers) {
    return AccessController.doPrivileged(new PrivilegedAction<List<T>>() {

        @Override
        public List<T> run() {
            return getAllServices(contractOrImpl, qualifiers);
        }
    });
}

@Override
public <T> List<T> getAllServices(Class<T> contractOrImpl, Annotation... qualifiers) throws MultiException {
    return getAllServices((Type) contractOrImpl, qualifiers);
}

/*@non-Javadoc */
* @see org.glassfish.hk2.api.ServiceLocator#getAllServices(java.lang.reflect.Type)
public <T> List<T> getAllServices(Type contractOrImpl, Annotation... qualifiers) throws MultiException {
    checkState();
    List<T> retVal = (List<T>) internalGetAllServiceHandles(
        contractOrImpl,
        null,
        false,
        qualifiers
    );

    return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServices(java.lang.annotation.Annotation,
 * java.lang.annotation.Annotation[])*/
@SuppressWarnings("unchecked")
@Override
public <T> List<T> getAllServices(Annotation qualifier,
    Annotation... qualifiers) throws MultiException {
    checkState();
    List<ServiceHandle<?>> services = getAllServiceHandles(qualifier, qualifiers);
    List<T> retVal = new LinkedList<T>();
    for (ServiceHandle<?> service : services) {
        retVal.add((T) service.getService());
    }
    return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServices(org.glassfish.hk2.api.Filter)*/
@Override
public List<?> getAllServices(Filter searchCriteria) throws MultiException {
    checkState();
    List<ServiceHandle<?>> handleSet = getAllServiceHandles(searchCriteria);
    List<Object> retVal = new LinkedList<Object>();
for (ServiceHandle<?> handle : handleSet) {
    retVal.add(handle.getService());
}

return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getName()
 */
@override
public String getName() {
    return locatorName;
}

@override
public ServiceLocatorState getState() {
    synchronized(lock) {
        return state;
    }
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#shutdown()
 */
@override
public void shutdown() {
    synchronized (lock) {
        if (state.equals(ServiceLocatorState.SHUTDOWN)) return;

        if (parent != null) {
            parent.removeChild(this);
        }

        List<ServiceHandle<?>> handles = getAllServiceHandles(BuilderHelper.createContractFilter(Context.class.getName()));

        for (ServiceHandle<?> handle : handles) {
            if (handle.isActive()) {
                Context<?> context = (Context<?>) handle.getService();
                context.shutdown();
            }
        }

        singletonContext.shutdown();

        state = ServiceLocatorState.SHUTDOWN;
    }
allDescriptors.clear();
descriptorsByAdvertisedContract.clear();
descriptorsByName.clear();
synchronized (resolversLock) {
    allResolvers.clear();
}
allValidators.clear();
errorHandlers.clear();
cache.releaseCache();
cacheEntries.clear();
synchronized (children) {
    children.clear();
}
Logger.getLogger().debug("Shutdown ServiceLocator " + this);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#create(java.lang.Class)
 */
@Override
public <T> T create(Class<T> createMe) {
    return create(createMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#create(java.lang.Class)
 */
@Override
public <T> T create(Class<T> createMe, String strategy) {
    checkState();
    return Utilities.justCreate(createMe, this, strategy);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#inject(java.lang.Object)
 */
@Override
public void inject(Object injectMe) {
    inject(injectMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#inject(java.lang.Object)
 */
@Override
public void inject(Object injectMe) {
    inject(injectMe, null);
}
@Override
public void inject(Object injectMe, String strategy) {
    checkState();

    Utilities.justInject(injectMe, this, strategy);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#postConstruct(java.lang.Object)
 */
@Override
public void postConstruct(Object postConstructMe) {
    postConstruct(postConstructMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#postConstruct(java.lang.Object)
 */
@override
public void postConstruct(Object postConstructMe, String strategy) {
    checkState();

    if (postConstructMe == null) {
        throw new IllegalArgumentException();
    }

    if (((strategy == null) || strategy.equals(ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME)) &&
        (postConstructMe instanceof PostConstruct)) {
        ((PostConstruct) postConstructMe).postConstruct();
    } else {
        Utilities.justPostConstruct(postConstructMe, this, strategy);
    }
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#preDestroy(java.lang.Object)
 */
@override
public void preDestroy(Object preDestroyMe) {
    preDestroy(preDestroyMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#preDestroy(java.lang.Object)
 */
@Override
public void preDestroy(Object preDestroyMe, String strategy) {
    checkState();

    if (preDestroyMe == null) {
        throw new IllegalArgumentException();
    }

    if (((strategy == null) || strategy.equals(ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME))
        && (preDestroyMe instanceof PreDestroy)) {
        ((PreDestroy) preDestroyMe).preDestroy();
    } else {
        Utilities.justPreDestroy(preDestroyMe, this, strategy);
    }
}

/**
 * Creates, injects and postConstructs, all in one
 */
public <U> U createAndInitialize(Class<U> createMe) {
    return createAndInitialize(createMe, null);
}

/**
 * Creates, injects and postConstructs, all in one
 */
public <U> U createAndInitialize(Class<U> createMe, String strategy) {
    U retVal = create(createMe, strategy);
    inject(retVal, strategy);
    postConstruct(retVal, strategy);
    return retVal;
}

private static String getName(String name, Annotation... qualifiers) {
    if (name != null) return name;

    for (Annotation qualifier : qualifiers) {
        if (qualifier instanceof Named) {
            Named named = (Named) qualifier;
            if (named.value() != null && !named.value().isEmpty()) {
                return named.value();
            }
        }
    }

    return null;
}
@SuppressWarnings("unchecked")
private <T> ActiveDescriptor<T> internalGetDescriptor(Injectee onBehalfOf, Type contractOrImpl,
    String name,
    Unqualified unqualified,
    Annotation... qualifiers) throws MultiException {
    if (contractOrImpl == null) throw new IllegalArgumentException();

    Class<?> rawClass = ReflectionHelper.getRawClass(contractOrImpl);
    if (rawClass == null) return null;  // Can't be a TypeVariable or Wildcard
    Utilities.checkLookupType(rawClass);

    rawClass = Utilities.translatePrimitiveType(rawClass);

    name = getName(name, qualifiers);

    boolean useCache = false;
    Filter filter;
    if (unqualified == null) {
        filter = BuilderHelper.createNameAndContractFilter(rawClass.getName(), name);
        useCache = true;
    } else {
        filter = new UnqualifiedIndexedFilter(rawClass.getName(), name, unqualified);
    }

    NarrowResults results = null;
    LinkedList<ErrorService> currentErrorHandlers = null;

    CacheKey ck = null;
    if (useCache) {
        // Create the CacheKey outside of the lock
        ck = new CacheKey(contractOrImpl, name, qualifiers);
    }

    ImmediateResults immediate = null;
    synchronized (lock) {
        if (useCache) {
            results = cache.get(ck);
        }

        if (results == null) {
            List<SystemDescriptor<?>> candidates = getDescriptors(filter, onBehalfOf, true, false, true);
            immediate = narrow(this,
                candidates,
                contractOrImpl,
                name,
onBehalfOf,
true,
true,
results,
filter,
qualifiers);
results = immediate.getTimelessResults();
if (!results.getErrors().isEmpty()) {
    currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
}
else if (ck != null) {
    CacheEntry entry = cache.put(ck, results);

    String releaseKey = rawClass.getName();
    List<CacheEntry> addToMe = cacheEntries.get(releaseKey);
    if (addToMe == null) {
        addToMe = new LinkedList<CacheEntry>();
        cacheEntries.put(releaseKey, addToMe);
    }

    addToMe.add(entry);
}
else {
    immediate = narrow(this,
null,
contractOrImpl,
name,
onBehalfOf,
true,
true,
results,
filter,
qualifiers);
results = immediate.getTimelessResults();
if (!results.getErrors().isEmpty()) {
    currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
}
}
}

if (currentErrorHandlers != null) {
    // Do this next call OUTSIDE of the lock
    Utilities.handleError(results, currentErrorHandlers);
}

// Must do validation here in order to allow for caching
ActiveDescriptor<T> postValidateResult = immediate.getImmediateResults().isEmpty() ? null :
(ActiveDescriptor<T>) immediate.getImmediateResults().get(0);

    return postValidateResult;
  }

@Override
public <T> ServiceHandle<T> getServiceHandle(Class<T> contractOrImpl,
    Annotation... qualifiers) throws MultiException {
    return getServiceHandle((Type) contractOrImpl, qualifiers);
  }

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(java.lang.reflect.Type,
 * java.lang.annotation.Annotation[])*/

@Override
public <T> ServiceHandle<T> getServiceHandle(Type contractOrImpl,
    Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, null, qualifiers);
    if (ad == null) return null;

    return getServiceHandle(ad, new InjecteeImpl(contractOrImpl));
  }

/* package */ <T> ServiceHandle<T> getUnqualifiedServiceHandle(Type contractOrImpl, Unqualified unqualified, Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, unqualified, qualifiers);
    if (ad == null) return null;

    return getServiceHandle(ad, new InjecteeImpl(contractOrImpl));
  }

private List<ServiceHandle<?>> protectedGetAllServiceHandles(
    final Type contractOrImpl, final Annotation... qualifiers) {
    return AccessController.doPrivileged(new PrivilegedAction<List<ServiceHandle<?>>>() {
        @Override
        public List<ServiceHandle<?>> run() {
            return getAllServiceHandles(contractOrImpl, qualifiers);
        }
    });
  }
@Override
public <T> List<ServiceHandle<T>> getAllServiceHandles(
    Class<T> contractOrImpl, Annotation... qualifiers)
    throws MultiException {
    return Utilities.cast(getAllServiceHandles((Type) contractOrImpl, qualifiers));
}

/* (non-Javadoc)*
* @see org.glassfish.hk2.api.ServiceLocator#getAllServiceHandles(java.lang.reflect.Type,
* java.lang.annotation.Annotation[])*
*/
@SuppressWarnings("unchecked")
@Override
public List<ServiceHandle<?>> getAllServiceHandles(
    Type contractOrImpl, Annotation... qualifiers)
    throws MultiException {
    return (List<ServiceHandle<?>>)
    internalGetAllServiceHandles(contractOrImpl, null, true, qualifiers);
}

/* package */ @SuppressWarnings("unchecked")
List<ServiceHandle<?>> getAllUnqualifiedServiceHandles(
    Type contractOrImpl, Unqualified unqualified, Annotation... qualifiers)
    throws MultiException {
    return (List<ServiceHandle<?>>)
    internalGetAllServiceHandles(contractOrImpl, unqualified, true, qualifiers);
}

private List<?> internalGetAllServiceHandles(
    Type contractOrImpl,
    Unqualified unqualified,
    boolean getHandles,
    Annotation... qualifiers)
    throws MultiException {
    if (contractOrImpl == null) throw new IllegalArgumentException();
    checkState();
    
    Class<?> rawClass = ReflectionHelper.getRawClass(contractOrImpl);
    if (rawClass == null) {
        throw new MultiException(new IllegalArgumentException("Type must be a class or parameterized type, it was "+ contractOrImpl));
    }
    
    boolean useCache = false;
    Filter filter;
    if (unqualified == null) {
        filter = BuilderHelper.createContractFilter(rawClass.getName());
        useCache = true;
    } else if (getHandles) {
        filter = BuilderHelper.createContractFilter(rawClass.getName(), unqualified);
else {
    filter = new UnqualifiedIndexedFilter(rawClass.getName(), null, unqualified);
}

NarrowResults results = null;
LinkedList<ErrorService> currentErrorHandlers = null;

CacheKey ck = null;
if (useCache) {
    // Create the CacheKey outside of the lock
    ck = new CacheKey(contractOrImpl, null, qualifiers);
}

ImmediateResults immediate = null;
synchronized (lock) {
    if (useCache) {
        results = cache.get(ck);
    }

    if (results == null) {
        List<SystemDescriptor<?>> candidates = getDescriptors(filter, null, true, false, true);
        immediate = narrow(this,
            candidates,
            contractOrImpl,
            null,
            null,
            false,
            true,
            results,
            filter,
            qualifiers);
        results = immediate.getTimelessResults();
        if (!results.getErrors().isEmpty()) {
            currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
        } else if (ck != null) {
            CacheEntry entry = cache.put(ck, results);
            String releaseKey = rawClass.getName();
            List<CacheEntry> addToMe = cacheEntries.get(releaseKey);
            if (addToMe == null) {
                addToMe = new LinkedList<CacheEntry>();
                cacheEntries.put(releaseKey, addToMe);
            }
            addToMe.add(entry);
        }
    }
    CacheEntry entry = cache.put(ck, results);
    String releaseKey = rawClass.getName();
    List<CacheEntry> addToMe = cacheEntries.get(releaseKey);
    if (addToMe == null) {
        addToMe = new LinkedList<CacheEntry>();
        cacheEntries.put(releaseKey, addToMe);
    }
    addToMe.add(entry);
}
else {
    immediate = narrow(this,
    null,
    contractOrImpl,
    null,
    null,
    false,
    true,
    results,
    filter,
    qualifiers);
    results = immediate.getTimelessResults();
    if (!results.getErrors().isEmpty()) {
        currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
    }
}
}
}

if (currentErrorHandlers != null) {
    // Do this next call OUTSIDE of the lock
    Utilities.handleErrors(results, currentErrorHandlers);
}

LinkedList<Object> retVal = new LinkedList<Object>();
for (ActiveDescriptor<?> candidate : immediate.getImmediateResults()) {
    if (getHandles) {
        retVal.add(internalGetServiceHandle(candidate, contractOrImpl));
    } else {
        Object service = Utilities.createService(candidate, null, this, null, rawClass);
    
        retVal.add(service);
    }
}

return retVal;
}

@Override
public <T> ServiceHandle<T> getServiceHandle(Class<T> contractOrImpl,
    String name, Annotation... qualifiers) throws MultiException {
    return getServiceHandle((Type) contractOrImpl, name, qualifiers);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(java.lang.reflect.Type, java.lang.String,
java.lang.annotation.Annotation[])
 */

@Override
public <T> ServiceHandle<T> getServiceHandle(Type contractOrImpl,
       String name, Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, name, null, qualifiers);
    if (ad == null) return null;

    return internalGetServiceHandle(ad, contractOrImpl);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServiceHandles(org.glassfish.hk2.api.Filter)
 */

@Override
public List<ServiceHandle<?>> getAllServiceHandles(
     Filter searchCriteria) throws MultiException {
    checkState();

    NarrowResults results;
    LinkedList<ErrorService> currentErrorHandlers = null;
    List<SystemDescriptor<?>> candidates = Utilities.cast(getDescriptors(searchCriteria));
    ImmediateResults immediate = narrow(this,
            candidates,
            null,
            null,
            null,
            false,
            false,
            null,
            searchCriteria);
    results = immediate.getTimelessResults();
    if (!results.getErrors().isEmpty()) {
        currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
    }

    if (currentErrorHandlers != null) {
        // Do this next call OUTSIDE of the lock
        Utilities.handleErrors(results, currentErrorHandlers);
    }

    SortedSet<ServiceHandle<?>> retVal = new TreeSet<ServiceHandle<?>>(
            HANDLE_COMPARATOR);
    for (ActiveDescriptor<?> candidate : results.getResults()) {
        retVal.add(getServiceHandle(candidate));
    }
}
return new LinkedList<ServiceHandle<?>>(retVal);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServiceHandles(java.lang.annotation.Annotation,
 * java.lang.annotation.Annotation[])
 */
@Override
public List<ServiceHandle<?>> getAllServiceHandles(Annotation qualifier,
        Annotation... qualifiers) throws MultiException {
    checkState();
    if (qualifier == null) throw new IllegalArgumentException("qualifier is null");
    final Set<String> allQualifiers = new LinkedHashSet<String>();
    allQualifiers.add(qualifier.annotationType().getName());
    for (Annotation anno : qualifiers) {
        String addMe = anno.annotationType().getName();
        if (allQualifiers.contains(addMe)) {
            throw new IllegalArgumentException("Multiple qualifiers with name "+ addMe);
        }
        allQualifiers.add(addMe);
    }
    return getAllServiceHandles(new Filter() {
        @Override
        public boolean matches(Descriptor d) {
            return d.getQualifiers().containsAll(allQualifiers);
        }
    });
}

/**
 * Checks the configuration operation before anything happens to the internal data structures.
 *
 * @param dci The configuration that contains the proposed modifications
 * @return A set of descriptors that is being removed from the configuration
 */
private CheckConfigurationData checkConfiguration(DynamicConfigurationImpl dci) {
    boolean addOrRemoveOfInstanceListener = false;
    boolean addOrRemoveOfInjectionResolver = false;
    boolean addOrRemoveOfErrorHandler = false;
    boolean addOrRemoveOfClazzAnalyzer = false;

    return new LinkedList<ServiceHandle<?>>(retVal);
}
HashSet<String> affectedContracts = new HashSet<String>();

for (Filter unbindFilter : dci.getUnbindFilters()) {
    List<SystemDescriptor<? extends SystemDescriptor>> results = getDescriptors(unbindFilter, null, false, false, true);

    for (SystemDescriptor<?> candidate : results) {
        affectedContracts.addAll(getAllContracts(candidate));

        if (retVal.contains(candidate)) continue;

        for (ValidationService vs : getAllValidators()) {
            if (!vs.getValidator().validate(new ValidationInformationImpl( Operation.UNBIND, candidate))) {
                throw new MultiException(new IllegalArgumentException("Descriptor " +
                    candidate + " did not pass the UNBIND validation"));
            }
        }

        if (candidate.getAdvertisedContracts().contains(InstanceLifecycleListener.class.getName())) {
            addOrRemoveOfInstanceListener = true;
        }
        if (candidate.getAdvertisedContracts().contains(InjectionResolver.class.getName())) {
            addOrRemoveOfInjectionResolver = true;
        }
        if (candidate.getAdvertisedContracts().contains(ErrorService.class.getName())) {
            addOrRemoveOfErrorHandler = true;
        }
        if (candidate.getAdvertisedContracts().contains(ClassAnalyzer.class.getName())) {
            addOrRemoveOfClazzAnalyzer = true;
        }

        retVal.add(candidate);
    }
}

for (SystemDescriptor<?> sd : dci.getAllDescriptors()) {
    affectedContracts.addAll(getAllContracts(sd));

    boolean checkScope = false;
    if (sd.getAdvertisedContracts().contains(ValidationService.class.getName()) ||
        sd.getAdvertisedContracts().contains(ErrorService.class.getName()) ||
        sd.getAdvertisedContracts().contains(InstanceLifecycleListener.class.getName())) {
        // These gets reified right away
        reifyDescriptor(sd);

        checkScope = true;

        if (sd.getAdvertisedContracts().contains(ErrorService.class.getName())) {
            System.out.println("ErrorService found in descriptor: ", sd);
        }
    }
}
addOrRemoveOfErrorHandler = true;
}
if (sd.getAdvertisedContracts().contains(InstanceLifecycleListener.class.getName())) {
    addOrRemoveOfInstanceListener = true;
}
}
if (sd.getAdvertisedContracts().contains(InjectionResolver.class.getName())) {
    // This gets reified right away
    reifyDescriptor(sd);
    checkScope = true;
}
if (Utilities.getInjectionResolverType(sd) == null) {
    throw new MultiException(new IllegalArgumentException(
        "An implementation of InjectionResolver must be a parameterized type and the actual type" +
        " must be an annotation");
}
addOrRemoveOfInjectionResolver = true;
}
if (sd.getAdvertisedContracts().contains(Context.class.getName())) {
    // This one need not be reified, it will get checked later
    checkScope = true;
}
if (sd.getAdvertisedContracts().contains(ClassAnalyzer.class.getName())) {
    addOrRemoveOfClassAnalyzer = true;
}
if (checkScope) {
    String scope = (sd.getScope() == null) ? PerLookup.class.getName() : sd.getScope() ;

    if (!scope.equals(Singleton.class.getName())) {
        throw new MultiException(new IllegalArgumentException(
            "The implementation class " + sd.getImplementation() + " must be in the Singleton scope");
    }
}

for (ValidationService vs : getAllValidators()) {
    Validator validator = vs.getValidator();
    if (validator == null) {
        throw new MultiException(new IllegalArgumentException("Validator was null from validation service" + vs));
    }
}
if (!vs.getValidator().validate(new ValidationInformationImpl(}
Operation.BIND, sd))) {
    throw new MultiException(new IllegalArgumentException("Descriptor " + sd + " did not pass the BIND validation"));
    }
    }
    }
    return new CheckConfigurationData(retVal,
            addOrRemoveOfInstanceListener,
            addOrRemoveOfInjectionResolver,
            addOrRemoveOfErrorHandler,
            addOrRemoveOfClazzAnalyzer,
            affectedContracts);
    }
    }
    }
    }
    }
    }
    }
    }
    private static List<String> getAllContracts(ActiveDescriptor<?> desc) {
        LinkedList<String> allContracts = new LinkedList<String>(desc.getAdvertisedContracts());
        allContracts.addAll(desc.getQualifiers());
        String scope = (desc.getScope() == null) ? PerLookup.class.getName() : desc.getScope();
        allContracts.add(scope);
        return allContracts;
    }
    }
    }
    }
    }
    }
    }
    }
    @SuppressWarnings("unchecked")
    private void removeConfigurationInternal(List<SystemDescriptor<?>> unbinds) {
        for (SystemDescriptor<?> unbind : unbinds) {
            if ((BIND_TRACING_PATTERN != null) && doTrace(unbind)) {
                Logger.getLogger().debug("HK2 Bind Tracing: Removing Descriptor " + unbind);
                if (BIND_TRACING_STACKS) {
                    Logger.getLogger().debug("ServiceLocatorImpl", "removeConfigurationInternal", new Throwable());
                }
            }
            allDescriptors.removeDescriptor(unbind);
            for (String advertisedContract : getAllContracts(unbind)) {
                IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
                if (ild == null) continue;
                ild.removeDescriptor(unbind);
                if (ild.isEmpty()) descriptorsByAdvertisedContract.remove(advertisedContract);
            }
            String unbindName = unbind.getName();
            if (unbindName != null) {
                IndexedListData ild = descriptorsByName.get(unbindName);
                if (ild != null) {
                    ild.removeDescriptor(unbind);
                    if (ild.isEmpty()) descriptorsByName.remove(unbindName);
                }
            }
ild.removeDescriptor(unbind);
if (ild.isEmpty()) {
    descriptorsByName.remove(unbindName);
}

if (unbind.getAdvertisedContracts().contains(ValidationService.class.getName())) {
    ServiceHandle<ValidationService> handle = (ServiceHandle<ValidationService>)
    getServiceHandle(unbind);
    ValidationService vs = handle.getService();
    allValidators.remove(vs);
}

private static boolean doTrace(ActiveDescriptor<?> desc) {
    if (BIND_TRACING_PATTERN == null) return false;
    if (“*”.equals(BIND_TRACING_PATTERN)) return true;
    if (desc.getImplementation() == null) return true;  // Null here matches everything
    StringTokenizer st = new StringTokenizer(BIND_TRACING_PATTERN, "|");
    while (st.hasMoreTokens()) {
        String token = st.nextToken();
        if (desc.getImplementation().contains(token)) {
            return true;
        }
        for (String contract : desc.getAdvertisedContracts()) {
            if (contract.contains(token)) return true;
        }
    }
    return false;
}

@SuppressWarnings("unchecked")
private List<SystemDescriptor<?>> addConfigurationInternal(DynamicConfigurationImpl dci) {
    List<SystemDescriptor<?>> thingsAdded = new LinkedList<SystemDescriptor<?>>();
    for (SystemDescriptor<?> sd : dci.getAllDescriptors()) {
        if ((BIND_TRACING_PATTERN != null) && doTrace(sd)) {
            Logger.getLogger().debug("HK2 Bind Tracing: Adding Descriptor “ + sd);
            if (BIND_TRACING_STACKS) {
                Logger.getLogger().debug("ServiceLocatorImpl", "addConfigurationInternal", new Throwable());
            }
        }
    }
    return thingsAdded;
}
thingsAdded.add(sd);
allDescriptors.addDescriptor(sd);

List<String> allContracts = getAllContracts(sd);

for (String advertisedContract : allContracts) {
    IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
    if (ild == null) {
        ild = new IndexedListData();
        descriptorsByAdvertisedContract.put(advertisedContract, ild);
    }

    ild.addDescriptor(sd);
}

if (sd.getName() != null) {
    String name = sd.getName();
    IndexedListData ild = descriptorsByName.get(name);
    if (ild == null) {
        ild = new IndexedListData();
        descriptorsByName.put(name, ild);
    }

    ild.addDescriptor(sd);
}

if (sd.getAdvertisedContracts().contains(ValidationService.class.getName())) {
    ServiceHandle<ValidationService> handle = getServiceHandle((ActiveDescriptor<ValidationService>) sd);
    ValidationService vs = handle.getService();
    allValidators.add(vs);
}

return thingsAdded;
}

private void reupInjectionResolvers() {
    HashMap<Class<? extends Annotation>, InjectionResolver<?>> newResolvers =
    new HashMap<Class<? extends Annotation>, InjectionResolver<?>>();

    Filter injectionResolverFilter = BuilderHelper.createContractFilter(
        InjectionResolver.class.getName());

    List<ActiveDescriptor<?>> resolverDescriptors = protectedGetDescriptors(injectionResolverFilter);

    for (ActiveDescriptor<? extends Annotation> descriptor : resolverDescriptors) {
        InjectionResolver<?> resolver = descriptor.getAnnotation(InjectionResolver.class);
        if (resolver != null) {
            newResolvers.put(descriptor.getAnnotation(Annotation.class).name(),
                new InjectionResolver<>(descriptor, null));
        }
    }

    Filter oldInjectionResolverFilter = BuilderHelper.createContractFilter(
        InjectionResolver.class.getName());

    List<ActiveDescriptor<? extends Annotation>> oldResolvers = protectedGetDescriptors(oldInjectionResolverFilter);

    for (ActiveDescriptor<? extends Annotation> oldResolver : oldResolvers) {
        InjectionResolver<?> oldResolverImpl = oldResolver.getAnnotation(InjectionResolver.class);
        if (oldResolverImpl != null) {
            if (newResolvers.containsKey(oldResolverImpl)) {
                newResolvers.put(oldResolverImpl, oldResolverImpl);
            } else {
                newResolvers.put(oldResolverImpl, null);
            }
        } else {
            newResolvers.remove(oldResolverImpl);
        }
    }

    for (Map.Entry<Class<? extends Annotation>, InjectionResolver<?>> entry : newResolvers.entrySet()) {
        Annotation annotation = entry.getKey().getAnnotation(Annotation.class);
        if (entry.getValue() != null) {
            descriptor = new ActiveDescriptor<>(null, annotation.name(),
                newResolution = true, oldResolution = false);
for (ActiveDescriptor<?> resolverDescriptor : resolverDescriptors) {
    Class<? extends Annotation> iResolve = Utilities.getInjectionResolverType(resolverDescriptor);

    if (iResolve != null && !newResolvers.containsKey(iResolve)) {
        InjectionResolver<?> resolver = (InjectionResolver<?>) getServiceHandle(resolverDescriptor).getService();

        newResolvers.put(iResolve, resolver);
    }
}

synchronized (resolversLock) {
    allResolvers = newResolvers;
}

private void reupErrorHandlers() {
    List<ErrorService> allErrorServices = protectedGetAllServices(ErrorService.class);

    errorHandlers.clear();
    errorHandlers.addAll(allErrorServices);
}

private void reupInstanceListenersHandlers(Collection<SystemDescriptor<?>> checkList) {
    List<InstanceLifecycleListener> allLifecycleListeners = protectedGetAllServices(InstanceLifecycleListener.class);

    for (SystemDescriptor<?> descriptor : checkList) {
        descriptor.reupInstanceListeners(allLifecycleListeners);
    }
}

@SuppressWarnings("unchecked")
private void reupClassAnalyzers() {
    List<ServiceHandle<?>> allAnalyzers = protectedGetAllServiceHandles(ClassAnalyzer.class);

    synchronized (classAnalyzerLock) {
        classAnalyzers.clear();

        for (ServiceHandle<?> handle : allAnalyzers) {
            ActiveDescriptor<?> descriptor = handle.getActiveDescriptor();
            String name = descriptor.getName();
            if (name == null) continue;

            ClassAnalyzer created = ((ServiceHandle<ClassAnalyzer>) handle).getService();
            if (created == null) continue;

            classAnalyzers.put(name, created);
        }
    }
}
private void reupCache(HashSet<String> affectedContracts) {
    // This lock must be acquired as reupCache is called on children
    synchronized (lock) {
        for (String affectedContract : affectedContracts) {
            List<CacheEntry> entries = cacheEntries.remove(affectedContract);
            if (entries == null) continue;

            for (CacheEntry entry : entries) {
                entry.removeFromCache();
            }
        }
    }
}

private void reup(List<SystemDescriptor<?>> thingsAdded,
    boolean instanceListenersModified,
    boolean injectionResolversModified,
    boolean errorHandlersModified,
    boolean classAnalyzersModified,
    HashSet<String> affectedContracts) {

    // This MUST come before the other re-ups, in case the other re-ups look for
    // items that may have previously been cached
    reupCache(affectedContracts);

    if (injectionResolversModified) {
        reupInjectionResolvers();
    }

    if (errorHandlersModified) {
        reupErrorHandlers();
    }

    if (instanceListenersModified) {
        reupInstanceListenersHandlers(allDescriptors.getSortedList());
    } else {
        reupInstanceListenersHandlers(thingsAdded);
    }

    if (classAnalyzersModified) {
        reupClassAnalyzers();
    }
}
contextCache.clear();

private void getAllChildren(LinkedList<ServiceLocatorImpl> allMyChildren) {
    LinkedList<ServiceLocatorImpl> addMe;
    synchronized (children) {
        addMe = new LinkedList<ServiceLocatorImpl>(children.keySet());
    }

    allMyChildren.addAll(addMe);

    for (ServiceLocatorImpl sli : addMe) {
        sli.getAllChildren(allMyChildren);
    }
}

/* package */ void addConfiguration(DynamicConfigurationImpl dci) {
    CheckConfigurationData checkData;

    synchronized (lock) {
        checkData = checkConfiguration(dci);  // Does as much preliminary checking as possible

        removeConfigurationInternal(checkData.getUnbinds());

        List<SystemDescriptor<?>> thingsAdded = addConfigurationInternal(dci);

        reup(thingsAdded,
            checkData.getInstanceLifecycleModificationsMade(),
            checkData.getInjectionResolverModificationMade(),
            checkData.getErrorHandlerModificationMade(),
            checkData.getClassAnalyzerModificationMade(),
            checkData.getAffectedContracts());
    }

    LinkedList<ServiceLocatorImpl> allMyChildren = new LinkedList<ServiceLocatorImpl>();
    getAllChildren(allMyChildren);

    for (ServiceLocatorImpl sli : allMyChildren) {
        sli.reupCache(checkData.getAffectedContracts());
    }
}

/* package */ boolean isInjectAnnotation(Annotation annotation) {
    synchronized (resolversLock) {
        return allResolvers.containsKey(annotation.annotationType());
    }
}
/* package */ boolean isInjectAnnotation(Annotation annotation, boolean isConstructor) {
    InjectionResolver<?> resolver;
    synchronized (resolversLock) {
        resolver = allResolvers.get(annotation.annotationType());
    }

    if (resolver == null) return false;

    if (isConstructor) {
        return resolver.isConstructorParameterIndicator();
    }

    return resolver.isMethodParameterIndicator();
}

/* package */ InjectionResolver<?> getInjectionResolver(Class<? extends Annotation> annoType) {
    synchronized (resolversLock) {
        return allResolvers.get(annoType);
    }
}

/* package */ Context<?> resolveContext(Class<? extends Annotation> scope) throws IllegalStateException {
    if (scope.equals(Singleton.class)) return singletonContext;
    if (scope.equals(PerLookup.class)) return perLookupContext;
    synchronized (lock) {
        Context<?> retVal = contextCache.get(scope);
        if (retVal != null) return retVal;

        Type actuals[] = new Type[1];
        actuals[0] = scope;
        ParameterizedType findContext = new ParameterizedTypeImpl(Context.class, actuals);

        List<ServiceHandle<Context<?>>> contextHandles = Utilities.<List<ServiceHandle<Context<?>>> cast(
            protectedGetAllServiceHandles(findContext));

        for (ServiceHandle<Context<?>> contextHandle : contextHandles) {
            Context<?> context = contextHandle.getService();

            if (!context.isActive()) continue;

            if (retVal != null) {
                throw new IllegalStateException("There is more than one active context for " + scope.getName());
            }

            retVal = context;
        }
    }
}
if (retVal == null) {
    throw new IllegalStateException("Could not find an active context for " + scope.getName());
}

contextCache.put(scope, retVal);

return retVal;
}

private Class<?> loadClass(Descriptor descriptor, Injectee injectee) {
    if (descriptor == null) throw new IllegalArgumentException();

    HK2Loader loader = descriptor.getLoader();
    if (loader == null) {
        return Utilities.loadClass(descriptor.getImplementation(), injectee);
    }

    Class<?> retVal;
    try {
        retVal = loader.loadClass(descriptor.getImplementation());
    }
    catch (MultiException me) {
        me.addError(new IllegalStateException("Could not load descriptor " + descriptor));
        throw me;
    }
    catch (Throwable th) {
        MultiException me = new MultiException(th);
        me.addError(new IllegalStateException("Could not load descriptor " + descriptor));
        throw me;
    }

    return retVal;
}

private ImmediateResults narrow(ServiceLocator locator,
        List<SystemDescriptor<?>> candidates,
        Type requiredType,
        String name,
        Injectee injectee,
        boolean onlyOne,
        boolean doValidation,
        NarrowResults cachedResults,
        Filter filter,
        Annotation... qualifiers) {
    ImmediateResults retVal = new ImmediateResults(cachedResults);
cachedResults = retVal.getTimelessResults();

if (candidates != null) {
    List<ActiveDescriptor<?>> lCandidates = Utilities.cast(candidates);
    cachedResults.setUnnarrowedResults(lCandidates);
}

Set<Annotation> requiredAnnotations = Utilities.fixAndCheckQualifiers(qualifiers, name);

for (ActiveDescriptor<?> previousResult : cachedResults.getResults()) {
    if (doValidation && !validate((SystemDescriptor<?>) previousResult, injectee, filter)) continue;
    retVal.addValidatedResult(previousResult);

    if (onlyOne) return retVal;
}

if ((requiredType != null) &&
        (requiredType instanceof Class) &&
        ((Class<?>) requiredType).isAnnotation()) {
    // In the annotation case we need not do type checking, so do not reify
    requiredType = null;
}

ActiveDescriptor<?> candidate;
while ((candidate = cachedResults.removeUnnarrowedResult()) != null) {
    boolean doReify = false;
    if ((requiredType != null || !requiredAnnotations.isEmpty()) &&
        !candidate.isReified()) {
        doReify = true;
    }

    if (doReify) {
        try {
            candidate = locator.reifyDescriptor(candidate, injectee);
        } catch (MultiException me) {
            cachedResults.addError(candidate, injectee, me);
            continue;
        } catch (Throwable th) {
            cachedResults.addError(candidate, injectee, new MultiException(th));
            continue;
        }
    }

    // Now match it
    if (requiredType != null) {
boolean safe = false;
for (Type candidateType : candidate.getContractTypes()) {
    if (TypeChecker.isTypeSafe(requiredType, candidateType)) {
        safe = true;
        break;
    }
}

if (!safe) {
    // Sorry, not type safe
    continue;
}

// Now match the qualifiers

// Checking requiredAnnotations.isEmpty is a performance optimization which avoids
// a potentially expensive doPriv call in the second part of the AND statement
if (!requiredAnnotations.isEmpty()) {
    Set<Annotation> candidateAnnotations = candidate.getQualifierAnnotations();

    if (!Utilities.annotationContainsAll(candidateAnnotations, requiredAnnotations)) {
        // The qualifiers do not match
        continue;
    }
}

// If we are here, then this one matches
cachedResults.addGoodResult(candidate);

if (doValidation && !validate((SystemDescriptor<?>) candidate, injectee, filter)) continue;
retVal.addValidatedResult(candidate);

if (onlyOne) return retVal;
}

return retVal;

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getLocatorId()
 */
@Override
public long getLocatorId() {
    return id;
}

/* package */ long getNextServiceId() {

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getLocatorId()
 */
synchronized (lock) {
    return nextServiceId++;
}
}

private void addChild(ServiceLocatorImpl child) {
    synchronized (children) {
        children.put(child, null);
    }
}

private void removeChild(ServiceLocatorImpl child) {
    synchronized (children) {
        children.remove(child);
    }
}

private void checkState() {
    if (ServiceLocatorState.SHUTDOWN.equals(state)) throw new IllegalStateException(this + " has been shut down");
}

private LinkedHashSet<ValidationService> getAllValidators() {
    if (parent == null) {
        return allValidators;
    }

    LinkedHashSet<ValidationService> retVal = new LinkedHashSet<ValidationService>();
    retVal.addAll(parent.getAllValidators());
    retVal.addAll(allValidators);

    return retVal;
}

@Override
public String getDefaultClassAnalyzerName() {
    synchronized (classAnalyzerLock) {
        return defaultClassAnalyzer;
    }
}

@Override
public void setDefaultClassAnalyzerName(String defaultClassAnalyzer) {
    synchronized (classAnalyzerLock) {
        if (defaultClassAnalyzer == null) {
            this.defaultClassAnalyzer = ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME;
        }
    }
}
else {
    this.defaultClassAnalyzer = defaultClassAnalyzer;
}

/* package */ ClassAnalyzer getAnalyzer(String name, Collector collector) {
    ClassAnalyzer retVal;
    synchronized (classAnalyzerLock) {
        if (name == null) {
            name = defaultClassAnalyzer;
        }

        retVal = classAnalyzers.get(name);
    }

    if (retVal == null) {
        collector.addThrowable(new IllegalStateException(
            "Could not find an implementation of ClassAnalyzer with name " + 
            name));
        return null;
    }

    return retVal;
}

private static class CheckConfigurationData {
    private final List<SystemDescriptor<?>> unbinds;
    private final boolean instanceLifecyleModificationMade;
    private final boolean injectionResolverModificationMade;
    private final boolean errorHandlerModificationMade;
    private final boolean classAnalyzerModificationMade;
    private final HashSet<String> affectedContracts;

    private CheckConfigurationData(List<SystemDescriptor<?>> unbinds,
            boolean instanceLifecyleModificationMade,
            boolean injectionResolverModificationMade,
            boolean errorHandlerModificationMade,
            boolean classAnalyzerModificationMade,
            HashSet<String> affectedContracts) {
        this.unbinds = unbinds;
        this.instanceLifecyleModificationMade = instanceLifecyleModificationMade;
        this.injectionResolverModificationMade = injectionResolverModificationMade;
        this.errorHandlerModificationMade = errorHandlerModificationMade;
        this.classAnalyzerModificationMade = classAnalyzerModificationMade;
        this.affectedContracts = affectedContracts;
    }
}
private List<SystemDescriptor<?>> getUnbinds() {
    return unbinds;
}

private boolean getInstanceLifecycleModificationsMade() {
    return instanceLifecycleModificationMade;
}

private boolean getInjectionResolverModificationMade() {
    return injectionResolverModificationMade;
}

private boolean getErrorHandlerModificationMade() {
    return errorHandlerModificationMade;
}

private boolean getClassAnalyzerModificationMade() {
    return classAnalyzerModificationMade;
}

private HashSet<String> getAffectedContracts() {
    return affectedContracts;
}

private static class UnqualifiedIndexedFilter implements IndexedFilter {
    private final String contract;
    private final String name;
    private final Unqualified unqualified;

    private UnqualifiedIndexedFilter(String contract, String name, Unqualified unqualified) {
        this.contract = contract;
        this.name = name;
        this.unqualified = unqualified;
    }

    @Override
    public boolean matches(Descriptor d) {
        Class<? extends Annotation> unqualifiedAnnos[] = unqualified.value();

        if (unqualifiedAnnos.length <= 0) {
            return (d.getQualifiers().isEmpty());
        }

        Set<String> notAllowed = new HashSet<String>();
        for (Class<? extends Annotation> notMe : unqualifiedAnnos) {
            notAllowed.add(notMe.getName());
        }

        return (d.getQualifiers().isEmpty() && !notAllowed.containsAll(d.getQualifiers()));
    }
}
for (String qualifier : d.getQualifiers()) {
    if (notAllowed.contains(qualifier)) return false;
}

return true;
}

@Override
public String getAdvertisedContract() {
    return contract;
}

@Override
public String getName() {
    return name;
}

}

public String toString() {
    return "ServiceLocatorImpl(" + locatorName + "," + id + "," + System.identityHashCode(this) + ")";
}
}

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package org.jvnet.hk2.internal;

import java.lang.annotation.Annotation;
import java.lang.reflect.AnnotatedElement;
import java.lang.reflect.Constructor;
import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.Set;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.Unqualified;
import org.glassfish.hk2.utilities.reflection.Pretty;

/**
 * This is an implementation of Injectee that is used by the system.
 *
 * @author jwells
 *
 */
public class InjecteeImpl implements Injectee {
    private final Type requiredType;
    private final Set<Annotation> qualifiers;
    private final int position;
    private final Class<?> pClass;
    private final AnnotatedElement parent;
    private final boolean isOptional;
    private final boolean isSelf;
    private final Unqualified unqualified;

    /* package */ InjecteeImpl(
        Type requiredType,
Set<Annotation> qualifiers,
int position,
AnnotatedElement parent,
boolean isOptional,
boolean isSelf,
Unqualified unqualified) {
this.requiredType = requiredType;
this.position = position;
this.parent = parent;
this.qualifiers = Collections.unmodifiableSet(qualifiers);
this.isOptional = isOptional;
this.isSelf = isSelf;
this.unqualified = unqualified;

if (parent instanceof Field) {
    pClass = ((Field) parent).getDeclaringClass();
} else if (parent instanceof Constructor) {
    pClass = ((Constructor<?>) parent).getDeclaringClass();
} else {
    pClass = ((Method) parent).getDeclaringClass();
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getRequiredType()
 */
@Override
public Type getRequiredType() {
    return requiredType;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getRequiredQualifiers()
 */
@Override
public Set<Annotation> getRequiredQualifiers() {
    return qualifiers;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getPosition()
 */
@Override
public int getPosition() {
    return position;
}
/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getInjecteeClass()
 */
@Override
public Class<?> getInjecteeClass() {
    return pClass;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getParent()
 */
@Override
public AnnotatedElement getParent() {
    return parent;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#isOptional()
 */
@Override
public boolean isOptional() {
    return isOptional;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#isSelf()
 */
@Override
public boolean isSelf() {
    return isSelf;
}

@Override
public Unqualified getUnqualified() {
    return unqualified;
}

public String toString() {
    return "Injectee(requiredType=" + Pretty.type(requiredType) + ",parent=" + Pretty.clazz(pClass) + ",qualifiers=" + Pretty.collection(qualifiers) + ",position=" + position + ",optional=" + isOptional + ",self=" + isSelf + ",unqualified=" + unqualified + "," + System.identityHashCode(this) + ")";
}
package org.jvnet.hk2.internal;

import java.util.LinkedList;
import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Descriptor;
import org.glassfish.hk2.api.DescriptorType;
import org.glassfish.hk2.api.DynamicConfiguration;
import org.glassfish.hk2.api.FactoryDescriptors;
import org.glassfish.hk2.api.Filter;
import org.glassfish.hk2.api.MultiException;
import org.glassfish.hk2.utilities.reflection.Pretty;

/**
 * @author jwells
 *
 */
public class DynamicConfigurationImpl implements DynamicConfiguration {
    private final ServiceLocatorImpl locator;
    private final LinkedList<SystemDescriptor<?>> allDescriptors = new LinkedList<SystemDescriptor<?>>();
    private final LinkedList<Filter> allUnbindFilters = new LinkedList<Filter>();
    private final Object lock = new Object();
    private boolean committed = false;

    /**
     * Created by the generator, and hence must be public
     *
     * @param locator The locator for which this will be the configuration service
     */
    public DynamicConfigurationImpl(ServiceLocatorImpl locator) {
        this.locator = locator;
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.Configuration#bind(org.glassfish.hk2.api.Descriptor)
     */
    @Override
    public <T> ActiveDescriptor<T> bind(Descriptor key) {
        return bind(key, true);
    }

    @Override
    public <T> ActiveDescriptor<T> bind(Descriptor key, boolean requiresDeepCopy) {
        checkState();
        checkDescriptor(key);
        SystemDescriptor<T> sd = new SystemDescriptor<T>(key,
            requiresDeepCopy,
            locator,
            new Long(locator.getNextServiceId()));

        allDescriptors.add(sd);
    }
return sd;
}

/** (non-Javadoc)
 * @see org.glassfish.hk2.api.Configuration#bind(org.glassfish.hk2.api.FactoryDescriptors)
 */
@override
public FactoryDescriptors bind(FactoryDescriptors factoryDescriptors) {
    return bind(factoryDescriptors, true);
}

@override
public FactoryDescriptors bind(FactoryDescriptors factoryDescriptors, boolean requiresDeepCopy) {
    if (factoryDescriptors == null) throw new IllegalArgumentException("factoryDescriptors is null");

    // Now a bunch of validations
    Descriptor asService = factoryDescriptors.getFactoryAsAService();
    Descriptor asFactory = factoryDescriptors.getFactoryAsAFactory();

    checkDescriptor(asService);
    checkDescriptor(asFactory);

    String implClassService = asService.getImplementation();
    String implClassFactory = asFactory.getImplementation();

    if (!implClassService.equals(implClassFactory)) {
        throw new IllegalArgumentException("The implementation classes must match (. +
            implClassService + "/" + implClassFactory + ")");
    }

    if (!asService.getDescriptorType().equals(DescriptorType.CLASS)) {
        throw new IllegalArgumentException("The getFactoryAsService descriptor must be of type CLASS");
    }
    if (!asFactory.getDescriptorType().equals(DescriptorType.PROVIDE_METHOD)) {
        throw new IllegalArgumentException("The getFactoryAsFactory descriptor must be of type
            PROVIDE_METHOD");
    }

    final SystemDescriptor<?> boundAsService = new SystemDescriptor<Object>(asService,
        requiresDeepCopy,
        locator,
        new Long(locator.getNextServiceId()));

    // Link the factory descriptor to the service descriptor for the factory
    final SystemDescriptor<?> boundAsFactory = new SystemDescriptor<Object>(asFactory,
        requiresDeepCopy,
        locator,
        new Long(locator.getNextServiceId()));
if (asService instanceof ActiveDescriptor) {
    boundAsFactory.setFactoryIds(boundAsService.getLocatorId(),
    boundAsService.getServiceId());
}

// Bind the factory first, so normally people get the factory, not the service
allDescriptors.add(boundAsFactory);
allDescriptors.add(boundAsService);

return new FactoryDescriptors() {

    @Override
    public Descriptor getFactoryAsAService() {
        return boundAsService;
    }

    @Override
    public Descriptor getFactoryAsAFactory() {
        return boundAsFactory;
    }

};
}

/*@ (non-Javadoc)
 * @see org.glassfish.hk2.api.Configuration#addActiveDescriptor(org.glassfish.hk2.api.ActiveDescriptor)
 */
@Override
public <T> ActiveDescriptor<T> addActiveDescriptor(ActiveDescriptor<T> activeDescriptor)
    throws IllegalArgumentException {
    return addActiveDescriptor(activeDescriptor, true);
}

@override
public <T> ActiveDescriptor<T> addActiveDescriptor(ActiveDescriptor<T> activeDescriptor, boolean
    requiresDeepCopy)
    throws IllegalArgumentException {
    checkState();
    checkDescriptor(activeDescriptor);

    if (!activeDescriptor.isReified()) {
        throw new IllegalArgumentException();
    }

    checkReifiedDescriptor(activeDescriptor);

    SystemDescriptor<T> retVal = new SystemDescriptor<T>(activeDescriptor,
requiresDeepCopy,
locator,
new Long(locator.getNextServiceId()));

allDescriptors.add(retVal);

return retVal;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.Configuration#addActiveDescriptor(java.lang.Class)
*/
@Override
public <T> ActiveDescriptor<T> addActiveDescriptor(Class<T> rawClass)
throws IllegalArgumentException {
ActiveDescriptor<T> ad = Utilities.createAutoDescriptor(rawClass, locator);
checkReifiedDescriptor(ad);

return addActiveDescriptor(ad, false);
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.Configuration#addUnbindFilter(org.glassfish.hk2.api.Filter)
*/
@Override
public void addUnbindFilter(Filter unbindFilter)
throws IllegalArgumentException {
if (unbindFilter == null) throw new IllegalArgumentException();
allUnbindFilters.add(unbindFilter);
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.DynamicConfiguration#commit()
*/
@Override
public void commit() throws MultiException {
synchronized (lock) {
checkState();

committed = true;
}

locator.addConfiguration(this);
}

private void checkState() {


synchronized (lock) {
    if (committed) throw new IllegalStateException();
}
}

private static void checkDescriptor(Descriptor d) {
    if (d == null) throw new IllegalArgumentException();
    if (d.getImplementation() == null) throw new IllegalArgumentException();
    if (d.getAdvertisedContracts() == null) throw new IllegalArgumentException();
    if (d.getDescriptorType() == null) throw new IllegalArgumentException();
    if (d.getDescriptorVisibility() == null) throw new IllegalArgumentException();
    if (d.getMetadata() == null) throw new IllegalArgumentException();
    if (d.getQualifiers() == null) throw new IllegalArgumentException();
}

private static void checkReifiedDescriptor(ActiveDescriptor<?> d) {
    if (d.isProxiable() == null) return;
    if (!d.isProxiable()) return;

    // Now check to see if the scope is unproxiable
    if (Utilities.isUnproxiableScope(d.getScopeAnnotation())) throw new IllegalArgumentException();
}

/**
 * @return the allDescriptors
 */
/* package */ LinkedList<SystemDescriptor<?>> getAllDescriptors() {
    return allDescriptors;
}

/* package */ LinkedList<Filter> getUnbindFilters() {
    return allUnbindFilters;
}

public String toString() {
    return "DynamicConfigurationImpl(" + locator + "," +
            Pretty.collection(allDescriptors) + "," +
            Pretty.collection(allUnbindFilters) + "," +
            System.identityHashCode(this) + ");";
}


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*/
package org.jvnet.hk2.internal;

import java.lang.reflect.Method;

import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Context;
import org.glassfish.hk2.api.MultiException;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.utilities.reflection.ReflectionHelper;

import net.sf.cglib.proxy.MethodInterceptor;
import net.sf.cglib.proxy.MethodProxy;

/**
 * @author jwells
 */
public class MethodInterceptorImpl implements MethodInterceptor {
    private final static String PROXY_MORE_METHOD_NAME = "__make";

    private final ServiceLocatorImpl locator;
    private final ActiveDescriptor<?> descriptor;
    private final ServiceHandle<?> root;

    /* package */ MethodInterceptorImpl(ServiceLocatorImpl sli, ActiveDescriptor<?> descriptor, ServiceHandle<?> root) {
        this.locator = sli;
        this.descriptor = descriptor;
        this.root = root;
    }

    /* (non-Javadoc)
     */
    @Override
    public Object intercept(Object target, Method method, Object[] params, MethodProxy proxy) throws Throwable {
        Context<?> context = locator.resolveContext(descriptor.getScopeAnnotation());
        Object service = context.findOrCreate(descriptor, root);
        if (service == null) {
            throw new MultiException(new IllegalStateException("Proxiable context " + context + " findOrCreate returned a null for descriptor " + descriptor + " and handle " + root));
        }

        if (method.getName().equals(PROXY_MORE_METHOD_NAME)) {
            // We did what we came here to do
            return service;
        }

        return ReflectionHelper.invoke(service, method, params);
    }

    }

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* /
package org.jvnet.hk2.internal;

import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Filter;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.Operation;
import org.glassfish.hk2.api.ValidationInformation;

/**
 * @author jwells
 *
 */
public class ValidationInformationImpl implements ValidationInformation {
    private final Operation operation;
    private final ActiveDescriptor<?> candidate;
    private final Injectee injectee;
    private final Filter filter;

    /**
     * @author jwells
     *
     */
    public class ValidationInformationImpl implements ValidationInformation {
        private final Operation operation;
        private final ActiveDescriptor<?> candidate;
        private final Injectee injectee;
        private final Filter filter;
/**
 * Creates the validation information
 * @param operation The operation to perform
 * @param candidate The candidate to perform it on
 * @param injectee The injectee that may be involved
 * @param filter The filter that may be involved in the lookup
 */
public ValidationInformationImpl(Operation operation,
       ActiveDescriptor<?> candidate,
       Injectee injectee,
       Filter filter) {
    this.operation = operation;
    this.candidate = candidate;
    this.injectee = injectee;
    this.filter = filter;
}

/**
 * Creates the validation information
 * @param operation The operation to perform
 * @param candidate The candidate to perform it on
 */
public ValidationInformationImpl(Operation operation,
       ActiveDescriptor<?> candidate) {
    this(operation, candidate, null, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getOperation()
 */
@Override
public Operation getOperation() {
    return operation;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getCandidate()
 */
@Override
public ActiveDescriptor<?>> get Candidate() {
    return candidate;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getInjectee()
 */
@Override
public Injectee getInjectee() {

return injectee;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getFilter()
 */
@Override
public Filter getFilter() {
    return filter;
}

public String toString() {
    return "ValidationInformation(" + operation + "," +
            candidate + "," +
            injectee + "," +
            filter + "," +
            System.identityHashCode(this) + ")";
}

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7.164 jackson-core-asl 1.8.5

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7.165 jackson-core-asl 1.9.2

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7.171 jackson-mapper-asl 1.9.12

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1.9.0

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7.184 javax.ws.rs:jrs311-api 1.1.1 :REL
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 */

package javax.ws.rs.core;
import java.util.Collections;
import java.util.Set;

/**
* Defines the components of a JAX-RS application and supplies additional
* metadata. A JAX-RS application or implementation supplies a concrete
* subclass of this abstract class.
* 
* <p>The implementation-created instance of an Application subclass may be
* injected into resource classes and providers using
* { @link javax.ws.rs.core.Context }.<p>
* */

public class Application {
    private static final Set<Object> emptyObjectSet = Collections.emptySet();
    private static final Set<Class<?>> emptyClassSet = Collections.emptySet();

    /**
     * Get a set of root resource and provider classes. The default lifecycle
     * for resource class instances is per-request. The default lifecycle for
     * providers is singleton.
     *
     * <p>Implementations should warn about and ignore classes that do not
     * conform to the requirements of root resource or provider classes.
     * Implementations should warn about and ignore classes for which
     * { @link #getSingletons() } returns an instance. Implementations MUST
     * NOT modify the returned set.</p>
     *
     * <p>The default implementation returns an empty set.</p>
     *
     * @return a set of root resource and provider classes. Returning null
     * is equivalent to returning an empty set.
     */
    public Set<Class<?>> getClasses() {
        return emptyClassSet;
    }

    /**
     * Get a set of root resource and provider instances. Fields and properties
     * of returned instances are injected with their declared dependencies
     * (see { @link Context }) by the runtime prior to use.
     *
     * <p>Implementations should warn about and ignore classes that do not
     * conform to the requirements of root resource or provider classes.
     * Implementations should flag an error if the returned set includes
     * more than one instance of the same class. Implementations MUST
     * NOT modify the returned set.</p>
     */
public Set<Object> getSingletons() {
    return emptyObjectSet;
}

/package javax.ws.rs;
import javax.ws.rs.core.Response;

/*
 * Runtime exception for applications.
 * <p>
 * This exception may be thrown by a resource method, provider or
 * {@link javax.ws.rs.core.StreamingOutput} implementation if a specific
 * HTTP error response needs to be produced. Only effective if thrown prior to
 * the response being committed.
 * 
 * @author Paul.Sandoz@Sun.Com
 */
public class WebApplicationException extends RuntimeException {
    private static final long serialVersionUID = 11660101L;
    private Response response;

    public WebApplicationException() {
        this(null, Response.Status.INTERNAL_SERVER_ERROR);
    }

    public WebApplicationException() {
        this(null, Response.Status.INTERNAL_SERVER_ERROR);
    }
}
/**
 * Construct a new instance using the supplied response
 * @param response the response that will be returned to the client, a value
 * of null will be replaced with an internal server error response (status code 500)
 */
public WebApplicationException(Response response) {
    this(null, response);
}

/**
 * Construct a new instance with a blank message and specified HTTP status code
 * @param status the HTTP status code that will be returned to the client
 */
public WebApplicationException(int status) {
    this(null, status);
}

/**
 * Construct a new instance with a blank message and specified HTTP status code
 * @param status the HTTP status code that will be returned to the client
 * @throws IllegalArgumentException if status is null
 */
public WebApplicationException(Response.Status status) {
    this(null, status);
}

/**
 * Construct a new instance with a blank message and default HTTP status code of 500
 * @param cause the underlying cause of the exception
 */
public WebApplicationException(Throwerable cause) {
    this(cause, Response.Status.INTERNAL_SERVER_ERROR);
}

/**
 * Construct a new instance using the supplied response
 * @param response the response that will be returned to the client, a value
 * of null will be replaced with an internal server error response (status code 500)
 * @param cause the underlying cause of the exception
 */
public WebApplicationException(Throwerable cause, Response response) {
    super(cause);
    if (response == null)
        this.response = Response.serverError().build();
    else
this.response = response;
}

/**
 * Construct a new instance with a blank message and specified HTTP status code
 * @param status the HTTP status code that will be returned to the client
 * @param cause the underlying cause of the exception
 */
public WebApplicationException(Throwable cause, int status) {
    this(cause, Response.status(status).build());
}

/**
 * Construct a new instance with a blank message and specified HTTP status code
 * @param status the HTTP status code that will be returned to the client
 * @param cause the underlying cause of the exception
 * @throws IllegalArgumentException if status is null
 */
public WebApplicationException(Throwable cause, Response.Status status) {
    this(cause, Response.status(status).build());
}

/**
 * Get the HTTP response.
 * @return the HTTP response.
 */
public Response getResponse() {
    return response;
}
}

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*/

/*
* ApplicationPath.java
* *
* Created on August 21, 2009
*
package javax.ws.rs;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * Identifies the application path that serves as the base URI
 * for all resource URIs provided by \{@link javax.ws.rs.Path\}. May only be
 * applied to a subclass of \{@link javax.ws.rs.core.Application\}.
 *
 * <p>When published in a Servlet container, the value of the application path
 * may be overridden using a servlet-mapping element in the web.xml.</p>
 *
 * \@see javax.ws.rs.core.Application
 * \@see Path
 * \@since 1.1
 */
@Target({ElementType.TYPE})
@Retention(RetentionPolicy.RUNTIME)
public @interface ApplicationPath {
    /**
     * Defines the base URI for all resource URIs. A trailing '/' character will
     * be automatically appended if one is not present.
     *
     * <p>The supplied value is automatically percent
     * encoded to conform to the \{@code path\} production of
     * \{@link <a href="http://tools.ietf.org/html/rfc3986#section-3.3">RFC 3986 section 3.3</a>\}.<br>
     * Note that percent encoded values are allowed in the value, an
     * implementation will recognize such values and will not double
     * encode the '%' character.</p>
     *
     */
    String value();
}

---

**7.185 jaxb-impl 2.2.6**

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package org.glassfish.jersey.internal.inject;

import org.glassfish.hk2.api.AnnotationLiteral;

/*
 * Custom annotation implementation
 */

public class CustomAnnotationImpl extends AnnotationLiteral<Custom> implements Custom {
    private static final long serialVersionUID = -892565346695359346L;
}

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*/

package org.glassfish.jersey.internal.util;

import java.util.Iterator;

import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;

/**
 * Simple namespace resolver which resolves one predefined namespace.
 *
 * @author Gerard Davison
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */

public class SimpleNamespaceResolver implements NamespaceContext {
    private final String prefix;
    private final String nsURI;

    /**
     * Create a new instance of the namespace resolver initialized with the fixed {
     * @code prefix} and {
     * @code URI} that the resolver will be capable to resolve.
     *
     * @param prefix Namespace prefix.
     * @param nsURI Namespace URI.
     */

    public SimpleNamespaceResolver(String prefix, String nsURI) {
        this.prefix = prefix;
        this.nsURI = nsURI;
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

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        }
    }

    @Override
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        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

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        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
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        }
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            return this.nsURI;
        } else {
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        }
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.nsURI;
        } else {
            return XMLConstants.NULL_NS_URI;
        }
    }

    @Override
    public String getNamespaceURI(String prefix) {
        if (prefix.equals(this.prefix)) {
            return this.ns URI;
public String getPrefix(String namespaceURI) {
    if (namespaceURI.equals(this.nsURI)) {
        return this.prefix;
    } else {
        return null;
    }
}

@Override
public Iterator getPrefixes(String namespaceURI) {
    return null;
}

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*/
package org.glassfish.jersey.internal;

import javax.ws.rs.core.Application;
import org.glassfish.jersey.internal.inject.Injections;
import org.glassfish.jersey.message.internal.MessagingBinders;

/**
 * Default implementation of JAX-RS \{@link javax.ws.rs.ext.RuntimeDelegate\}.
 * The \{@link javax.ws.rs.ext.RuntimeDelegate\} class looks for the implementations registered
 * in META-INF/services. If no such implementation is found, this one is picked
 * as the default. Server injection binder should override this (using META-INF/services)
 * to provide an implementation that supports \{@link #createEndpoint(javax.ws.rs.core.Application,
 * java.lang.Class)\}
 * method.
 * *
 * @author Jakub Podlesak
 * @author Marek Potociar (marek.potociar at oracle.com)
 * @author Martin Matula (martin.matula at oracle.com)
 */
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {
    public RuntimeDelegateImpl() {
        super(Injections.createLocator("jersey-common-rd-locator", new
            MessagingBinders.HeaderDelegateProviders()));
    }

    @Override
    public <T> T createEndpoint(Application application, Class<T> endpointType) throws
    IllegalArgumentException, UnsupportedOperationException {
        throw new UnsupportedOperationException(LocalizationMessages.NO_CONTAINER_AVAILABLE());
    }
}

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* language governing permissions and limitations under the License.
A committing output stream with optional serialized entity buffering functionality
which allows measuring of the entity size.

* **When buffering functionality is enabled the output stream buffers**
  * the written bytes into an internal buffer of a configurable size. After the last
  * written byte the [@link commit()] method is expected to be called to notify
  * a [@link org.glassfish.jersey.message.internal.OutboundMessageContext.StreamProvider#getOutputStream(int) callback]
  * with an actual measured entity size. If the entity is too large to
* fit into the internal buffer and the buffer exceeds before the [@link #commit()]
* is called then the stream is automatically committed and the callback is called
* with parameter [@code size] value of [@code -1].
* </p>
* </p>
* Callback method also returns the output stream in which the output will be written. The committing output stream
* must be initialized with the callback using
* [@link #setStreamProvider(org.glassfish.jersey.message.internal.OutboundMessageContext.StreamProvider)]
* before first byte is written.
* </p>
* The buffering is by default disabled and can be enabled by calling [@link #enableBuffering()]
* or [@link #enableBuffering(int)] before writing the first byte into this output stream. The former
* method enables buffering with the default size
* </tt>[@value CommittingOutputStream#DEFAULT_BUFFER_SIZE]</tt> bytes specified in [@link
* #DEFAULT_BUFFER_SIZE].
* </p>
* *
* @author Paul Sandoz
* @author Marek Potociar (marek.potociar at oracle.com)
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
*/
final class CommittingOutputStream extends OutputStream {

private static final Logger LOGGER = Logger.getLogger(CommittingOutputStream.class.getName());
/**
 * Null stream provider.
 */
private static final OutboundMessageContext.StreamProvider NULL_STREAM_PROVIDER =
new OutboundMessageContext.StreamProvider() {
    @Override
    public OutputStream getOutputStream(int contentLength) throws IOException {
        return new NullOutputStream();
    }
};
/**
 * Default size of the buffer which will be used if no user defined size is specified.
 */
static final int DEFAULT_BUFFER_SIZE = 8192;
/**
 * Adapted output stream.
 */
private OutputStream adaptedOutput;
/**
 * Buffering stream provider.
 */
private OutboundMessageContext.StreamProvider streamProvider;
/**
 * Internal buffer size.
private int bufferSize = 0;
/**
 * Entity buffer.
 */
private ByteArrayOutputStream buffer;
/**
 * When [code true}, the data are written directly to output stream and not to the buffer.
 */
private boolean directWrite = true;
/**
 * When [code true}, the stream is already committed (redirected to adaptedOutput).
 */
private boolean isCommitted;
/**
 * When [code true}, the stream is already closed.
 */
private boolean isClosed;

/**
 * Creates new committing output stream. The returned stream instance still needs to be initialized before
 * writing first bytes.
 */
public CommittingOutputStream() {
}

/**
 * Enable buffering of the serialized entity.
public void enableBuffering(int bufferSize) {
    Preconditions.checkState(!isCommitted && (this.buffer == null || this.buffer.size() == 0),
        LocalizationMessages.COMMITTING_STREAM_BUFFERING_ILLEGAL_STATE);
    this.bufferSize = bufferSize;
    if (bufferSize <= 0) {
        directWrite = true;
        this.buffer = null;
    } else {
        directWrite = false;
        buffer = new ByteArrayOutputStream(bufferSize);
    }
}

/**
 * Enable buffering of the serialized entity with the { @link #DEFAULT_BUFFER_SIZE default buffer size }.
 */
public void enableBuffering() {
    enableBuffering(DEFAULT_BUFFER_SIZE);
}

/**
 * Determine whether the stream was already committed or not.
 *
 * @return { @code true} if this stream was already committed, { @code false} otherwise.
 */
public boolean isCommitted() {
    return isCommitted;
}

private void commitStream() throws IOException {
    commitStream(-1);
}

private void commitStream(int currentSize) throws IOException {
    if (!isCommitted) {
        Preconditions.checkState(streamProvider != null, LocalizationMessages.STREAM_PROVIDER_NULL);
        adaptedOutput = streamProvider.getOutputStream(currentSize);
        if (adaptedOutput == null) {
            adaptedOutput = new NullOutputStream();
        }
    }
}

private void commitStream(int currentSize) throws IOException {
    if (!isCommitted) {
        Preconditions.checkState(streamProvider != null, LocalizationMessages.STREAM_PROVIDER_NULL);
        adaptedOutput = streamProvider.getOutputStream(currentSize);
        if (adaptedOutput == null) {
            adaptedOutput = new NullOutputStream();
        }
    }
}
directWrite = true;
isCommitted = true;
}
}

@Override
public void write(byte b[]) throws IOException {
    if (directWrite) {
        commitStream();
adaptedOutput.write(b);
    } else {
        if (b.length + buffer.size() > bufferSize) {
            flushBuffer(false);
adaptedOutput.write(b);
        } else {
            buffer.write(b);
        }
    }
}

@Override
public void write(byte b[], int off, int len) throws IOException {
    if (directWrite) {
        commitStream();
adaptedOutput.write(b, off, len);
    } else {
        if (len + buffer.size() > bufferSize) {
            flushBuffer(false);
adaptedOutput.write(b, off, len);
        } else {
            buffer.write(b, off, len);
        }
    }
}

@Override
public void write(int b) throws IOException {
    if (directWrite) {
        commitStream();
adaptedOutput.write(b);
    } else {
        if (buffer.size() + 1 > bufferSize) {
            flushBuffer(false);
adaptedOutput.write(b);
        } else {
            buffer.write(b);
        }
    }
}
void commit() throws IOException {
    flushBuffer(true);
    commitStream();
}

@Override
public void close() throws IOException {
    if (isClosed) {
        return;
    }
    isClosed = true;

    if (streamProvider == null) {
        streamProvider = NULL_STREAM_PROVIDER;
    }
    commit();
    adaptedOutput.close();
}

/**
 * Check if the committing output stream has been closed already.
 *
 * @return {@code true} if the stream has been closed, {@code false} otherwise.
 */
public boolean isClosed() {
    return isClosed;
}

@Override
public void flush() throws IOException {
    if (isCommitted()) {
        adaptedOutput.flush();
    }
}

private void flushBuffer(boolean endOfStream) throws IOException {
    if (!directWrite) {
        int currentSize;
        if (endOfStream) {
            // Code continues here...
        }
    }
}
currentSize = buffer == null ? 0 : buffer.size();
} else {
    currentSize = -1;
}

commitStream(currentSize);
if (buffer != null) {
    buffer.writeTo(adaptedOutput);
}
}
}

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* /
package org.glassfish.jersey.message.internal;

import javax.ws.rs.ext.MessageBodyReader;

/**
 * A { @link MessageBodyReader} may implement this interface to signal that
 * reading from the underlying input stream can be fully completed.
 * <p>
 * This is useful in scenarios where an instance of the type will be processed
 * after the input stream, from which it was read, has been closed.
 * <p>
 * @param <T> the type returned from a { @link MessageBodyReader}.
 * <p>
 * @author Paul Sandoz
 * @see MessageBodyReader
 * */
public interface CompletableReader<T> {

  /**
   * Complete the reading.
   *
   * @param t an instance of the Type <code>T</code>.
   * @return the complete instance of <code>T</code>.
   */
  T complete(T t);
}

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*/

package org.glassfish.jersey.message.internal;

import java.text.ParseException;
import static org.glassfish.jersey.message.internal.GrammarUtil.*;

/**
 * Concrete internal implementation of pull-based HTTP reader.
 *
 * @author Paul Sandoz
 * @author Martin Matula (martin.matula at oracle.com)
 */
/* package */ final class HttpHeaderReaderImpl extends HttpHeaderReader {
    private String header;
    private boolean processComments;
    private int index;
    private int length;
    private Event event;
    private String value;

    public HttpHeaderReaderImpl(String header, boolean processComments) {
        this.header = (header == null) ? "" : header;
        this.processComments = processComments;
        this.index = 0;
        this.length = this.header.length();
    }
public HttpHeaders(String header) {
    this(header, false);
}

@Override
public boolean hasNext() {
    return skipWhiteSpace();
}

@Override
public boolean hasNextSeparator(char separator, boolean skipWhiteSpace) {
    if (skipWhiteSpace) {
        skipWhiteSpace();
    }

    if (index >= length) {
        return false;
    }

    char c = header.charAt(index);
    return isSeparator(c) && c == separator;
}

@Override
public String nextSeparatedString(char startSeparator, char endSeparator) throws ParseException {
    nextSeparator(startSeparator);
    final int start = index;
    for (; index < length; index++) {
        if (header.charAt(index) == endSeparator) {
            break;
        }
    }

    if (start == index) {
        // no token between separators
        throw new ParseException("No characters between the separators " + " + startSeparator + " and " + endSeparator + ", index);
    } else if (index == length) {
        // no end separator
        throw new ParseException("No end separator " + endSeparator + ", index);
    }

    event = Event.Token;
    return value = header.substring(start, index++);
}

@Override
public Event next() throws ParseException {
    return next(true);
}

@Override
public Event next(boolean skipWhiteSpace) throws ParseException {
    return next(skipWhiteSpace, false);
}

@Override
public Event next(boolean skipWhiteSpace, boolean preserveBackslash) throws ParseException {
    return event = process(getNextCharacter(skipWhiteSpace), preserveBackslash);
}

@Override
public Event getEvent() {
    return event;
}

@Override
public String getEventValue() {
    return value;
}

@Override
public String getRemainder() {
    return (index < length) ? header.substring(index) : null;
}

@Override
public int getIndex() {
    return index;
}

private boolean skipWhiteSpace() {
    for (; index < length; index++) {
        if (!isWhiteSpace(header.charAt(index))) {
            return true;
        }
    }
    return false;
}

private char getNextCharacter(boolean skipWhiteSpace) throws ParseException {
    if (skipWhiteSpace) {
        skipWhiteSpace();
    }
    return header.charAt(index);
}

private boolean isWhiteSpace(char c) {
    return c == ' ' || c == '
' || c == ' ' || c == '
' || c == '	' || c == '
' || c == '
' || c == '
' || c == '
' || c == '
' || c == '
' || c == '
';
}

private boolean skipWhiteSpace() {
    for (; index < length; index++) {
        if (!isWhiteSpace(header.charAt(index))) {
            return true;
        }
    }
    return false;
}

private char getNextCharacter(boolean skipWhiteSpace) throws ParseException {
    if (skipWhiteSpace) {
        skipWhiteSpace();
    }
    return header.charAt(index);
}
if (index >= length) {
    throw new ParseException("End of header", index);
}

return header.charAt(index);

private Event process(char c, boolean preserveBackslash) throws ParseException {
    if (c > 127) {
        index++;
        return Event.Control;
    }

    switch (getType(c)) {
    case TOKEN: {
        final int start = index;
        for (index++; index < length; index++) {
            if (!isToken(header.charAt(index))) {
                break;
            }
        }
        value = header.substring(start, index);
        return Event.Token;
    }
    case QUOTED_STRING:
        processQuotedString(preserveBackslash);
        return Event.QuotedString;
    case COMMENT:
        if (!processComments) {
            throw new ParseException("Comments are not allowed", index);
        }

        processComment();
        return Event.Comment;
    case SEPARATOR:
        index++;
        value = String.valueOf(c);
        return Event.Separator;
    case CONTROL:
        index++;
        value = String.valueOf(c);
        return Event.Control;
    default:
        // White space
        throw new ParseException("White space not allowed", index);
    }
}
private void processComment() throws ParseException {
  boolean filter = false;
  int nesting = 1;
  int start = ++index;
  for (nesting > 0 && index < length; increment)
    char c = header.charAt(index);
    if (c == '\') {
      index++;
      filter = true;
    } else if (c == '
') {
      index++;
      filter = true;
    } else if (c == '(') {
      nesting++;
    } else if (c == ')') {
      nesting--;
    }
  }
  if (nesting != 0) {
    throw new ParseException("Unbalanced comments", index);
  }
  value = (filter)
    ? filterToken(header, start, index - 1)
    : header.substring(start, index - 1);
}

private void processQuotedString(boolean preserveBackslash) throws ParseException {
  boolean filter = false;
  for (int start = ++index; index < length; index++)
    char c = this.header.charAt(index);
    if ('\'preserveBackslash && c == '\') {
      index++;
      filter = true;
    } else if (c == '\') {
      filter = true;
    } else if (c == '\') {
      value = (filter)
        ? filterToken(header, start, index, preserveBackslash)
        : header.substring(start, index);
      return;
    }
}
throw new ParseException("Unbalanced quoted string", index);
}
}

7.193 jersey-ext-proxy-client 2.0

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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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Positions: Chief Operational Officer

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Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Version: GnuPG v1.4.7 (Darwin)
iD8DBQFIZT2ToF6+5lhz4BsRA+3wAJ9puXC26Nr8nhFvTZ9oNwxDFV/DVACgnC8O
VFUWPzrLOJesKaf/rYNJIM=
=jC7I
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Full name: Gregory John Wilkins
E-Mail: gregw@eclipse.com
Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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E-Mail: janb@eclipse.com
Mailing Address: 62 Church St Balmain NSW 2041 Australia

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Version: GnuPG v1.4.1 (GNU/Linux)
iD8DBQFDjMI6J97Uv2fW248RAmGNAJ9/krrptYJvJRtJTMXVkJ3cdnVvfuU+QcIFYFeh
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Version: GnuPG v1.0.7 (GNU/Linux)
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Date: January 30th 2006
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-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.1 (Darwin)
iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfjT0dYdT1bXwCdGgWv8sfMxEDZqulqhVbfZU2e76U=
=8WW7
-----END PGP SIGNATURE-----
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Hash: SHA1

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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Version: GnuPG v1.4.2.1 (GNU/Linux)

iD8DBQFEEbh9SoT4b97cQk4RAnCMaKCuNGYLiH4n6n/Or3GEdwCCLeQxsMPACdEhnE
J/stizRWWZZkeLbclzdQCE=
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Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFET1ZxHR/ESK2w6HRApBOAJ9c1eooNrt2oN59WZVitJExGiJjUvKgCfuKji
6etDj6AUjojTuSi59hUsWMQ=
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Version: GnuPG v1.4.3 (GNU/Linux)
iD8DBQFFoniQJlFlFus9dGQRAmJmA1wL5y1loohnhVQIICsparvjHMQwqwcGiZFyLBDVaa1bJv1EHy901kPcg=
=6rqm
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Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAGBQJQBb4tAAAojEMHhjBmtgF91HDcH/2nQDPuPztWFrBiFntEoLF6Jl RUKfJzAPZaLDtDMfDz7ucdRL1RDodmz4VIF2+fBKeBYQquZXjXieEghz+tKriK3 0M12guFKNLtEQt9h2p3Zu9JU3Koy4m84IDwq72HRmh1nRyD6lzZFhDGZ/D+69rFtgYGOFWEit00MAq/lBxsXHLPBOY+Jyh/Xy+QRmQTcAQ+tAgOlXd3w+JSx2sGdes YLAfjQQacLeGh7FzD3F+CkvuiwT4c5ub64LdXSiAVj1u20jZBfqlaJ3FA60Ti+13knFNWkpazeX+SQgMak6hsuatX6fEsVkJ6sIaskwEgl6+Xk+HYWY23ZQ8BKQRLKOZTw= =gAqN
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//
//package org.eclipse.jetty.http;
import org.eclipse.jetty.io.Buffers;
import org.eclipse.jetty.io.BuffersFactory;
import org.eclipse.jetty.util.component.AbstractLifeCycle;

/**
 * Abstract Buffer pool. 
 * simple unbounded pool of buffers for header, request and response sizes.
 */
public class HttpBuffersImpl extends AbstractLifeCycle implements HttpBuffers {
    private int _requestBufferSize=16*1024;
    private int _requestHeaderSize=6*1024;
    private int _responseBufferSize=32*1024;
    private int _responseHeaderSize=6*1024;
    private int _maxBuffers=1024;
    private Buffers.Type _requestBufferType=Buffers.Type.BYTE_ARRAY;
    private Buffers.Type _requestHeaderType=Buffers.Type.BYTE_ARRAY;
    private Buffers.Type _responseBufferType=Buffers.Type.BYTE_ARRAY;
    private Buffers.Type _responseHeaderType=Buffers.Type.BYTE_ARRAY;

    private Buffers _requestBuffers;
    private Buffers _responseBuffers;

    public HttpBuffersImpl() {
        super();
    }

    /** 
     * @return the requestBufferSize 
     */
    public int getRequestBufferSize() {
        return _requestBufferSize;
    }

    /** 
     * @param requestBufferSize the requestBufferSize to set 
     */
    public void setRequestBufferSize(int requestBufferSize) {
        _requestBufferSize = requestBufferSize;
    }
/**
 * @return the requestHeaderSize
 */
public int getRequestHeaderSize()
{
    return _requestHeaderSize;
}

/**
 * @param requestHeaderSize the requestHeaderSize to set
 */
public void setRequestHeaderSize(int requestHeaderSize)
{
    _requestHeaderSize = requestHeaderSize;
}

/**
 * @return the responseBufferSize
 */
public int getResponseBufferSize()
{
    return _responseBufferSize;
}

/**
 * @param responseBufferSize the responseBufferSize to set
 */
public void setResponseBufferSize(int responseBufferSize)
{
    _responseBufferSize = responseBufferSize;
}

/**
 * @return the responseHeaderSize
 */
public int getResponseHeaderSize()
{
    return _responseHeaderSize;
}

/**
 * @param responseHeaderSize the responseHeaderSize to set
 */
public void setResponseHeaderSize(int responseHeaderSize)
{
    _responseHeaderSize = responseHeaderSize;
}
/**
 * @return the requestBufferType
 */
public Buffers.Type getRequestBufferType()
{
    return _requestBufferType;
}

/**
 * @param requestBufferType the requestBufferType to set
 */
public void setRequestBufferType(Buffers.Type requestBufferType)
{
    _requestBufferType = requestBufferType;
}

/**
 * @return the requestHeaderType
 */
public Buffers.Type getRequestHeaderType()
{
    return _requestHeaderType;
}

/**
 * @param requestHeaderType the requestHeaderType to set
 */
public void setRequestHeaderType(Buffers.Type requestHeaderType)
{
    _requestHeaderType = requestHeaderType;
}

/**
 * @return the responseBufferType
 */
public Buffers.Type getResponseBufferType()
{
    return _responseBufferType;
}

/**
 * @param responseBufferType the responseBufferType to set
 */
public void setResponseBufferType(Buffers.Type responseBufferType)
{
    _responseBufferType = responseBufferType;
}
/**
 * @return the responseHeaderType
 */
public Buffers.Type getResponseHeaderType()
{
    return _responseHeaderType;
}

/**
 * @param responseHeaderType the responseHeaderType to set
 */
public void setResponseHeaderType(Buffers.Type responseHeaderType)
{
    _responseHeaderType = responseHeaderType;
}

/**
 * @param requestBuffers the requestBuffers to set
 */
public void setRequestBuffers(Buffers requestBuffers)
{
    _requestBuffers = requestBuffers;
}

/**
 * @param responseBuffers the responseBuffers to set
 */
public void setResponseBuffers(Buffers responseBuffers)
{
    _responseBuffers = responseBuffers;
}

@Override
protected void doStart()
    throws Exception
{
    _requestBuffers=BuffersFactory.newBuffers(_requestHeaderType,_requestHeaderSize,_requestBufferType,_requestBufferSize,_requestBufferType,getMaxBuffers());
    _responseBuffers=BuffersFactory.newBuffers(_responseHeaderType,_responseHeaderSize,_responseBufferType,_responseBufferSize,_responseBufferType,getMaxBuffers());
    super.doStart();
}

@Override
protected void doStop()
    throws Exception
{
    _requestBuffers=null;
}
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*/

package org.jledit.simple;

import jline.Terminal;
import jline.console.KeyMap;
import org.fusesource.jansi.Ansi;
import org.jledit.command.Command;
import org.jledit.command.CommandNotFoundException;
import org.jledit.command.editor.BackspaceCommand;
import org.jledit.command.editor.DeleteCommand;
import org.jledit.command.editor.FindCommand;
import org.jledit.command.editor.FindNextCommand;
import org.jledit.command.editor.FindPreviousCommand;
import org.jledit.command.editor.GoToCommand;
import org.jledit.command.editor.MoveCursorDownCommand;
import org.jledit.command.editor.MoveCursorLeftCommand;
import org.jledit.command.editor.MoveCursorRightCommand;
import org.jledit.command.editor.MoveCursorToEndOfLineCommand;
import org.jledit.command.editor.MoveCursorToStartOfLineCommand;
import org.jledit.command.editor.MoveCursorUpCommand;
import org.jledit.command.editor.NewLineCommand;
import org.jledit.command.editor.PasteCommand;
import org.jledit.command.editor.QuitCommand;
import org.jledit.command.editor.TypeCommand;
import org.jledit.command.file.FileCloseCommand;
import org.jledit.command.file.FileOpenCommand;
import org.jledit.command.file.FileSaveCommand;
import org.jledit.command.undo.RedoCommand;
import org.jledit.command.undo.UndoCommand;
import org.jledit.AbstractConsoleEditor;
import org.jledit.EditorOperation;
import org.jledit.EditorOperationType;
import org.jledit.utils.Strings;
import org.jledit.utils.internal.KeyMaps;
import java.io.InputStream;
import java.io.PrintStream;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import static org.fusesource.jansi.Ansi.ansi;
public class SimpleConsoleEditor extends AbstractConsoleEditor {
private final Map<String, String> supportedOperations = new LinkedHashMap<String, String>();
private final List<String> helpLines = new LinkedList<String>();

public SimpleConsoleEditor(Terminal terminal, InputStream in, PrintStream out) throws Exception {
super(terminal, in, out);
setKeys(createKeyMap());
supportedOperations.put("^O", "Open");
supportedOperations.put("^X", "Quit");
supportedOperations.put("^S", "Save");
supportedOperations.put("^Z", "Undo");
supportedOperations.put("^R", "Redo");
supportedOperations.put("^G", "Go To");
supportedOperations.put("^F", "Find");
supportedOperations.put("^N", "Next");
supportedOperations.put("^P", "Previous");
addHelpLines(helpLines);
setFooterSize(helpLines.size() + 1);
}
public void redrawHeader() {

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3010


saveCursorPosition();
getConsole().out().print(ansi().cursor(1, 1));
Ansi style = ansi();
if (getTheme().getHeaderBackground() != null) {
    style.bg(getTheme().getHeaderBackground());
}
if (getTheme().getHeaderForeground() != null) {
    style.fg(getTheme().getHeaderForeground());
}
String textCoords = "L:" + getLine() + " C:" + getColumn();
int displayFileLength = getTerminal().getWidth() - getTitle().length() - textCoords.length() - 1;
getConsole().out().print(style.a(getTitle()).a(":").a(Strings.tryToTrimToSize(getDisplayAs(), displayFileLength)).a(isDirty() ? DIRTY_SIGN : "").eraseLine(Ansi.Erase.FORWARD));
getConsole().out().print(ansi().cursor(1, getTerminal().getWidth() - textCoords.length()));
getConsole().out().print(ansi().a(textCoords).reset());
getConsole().out().print(ansi().cursor(getTerminal().getHeight(), 1));
restoreCursorPosition();
}

/**
 * Refreshes the footer that displays the current line and column.
 */
public void redrawFooter() {
    saveCursorPosition();
    Ansi style = ansi();
    if (getTheme().getFooterBackground() != null) {
        style.bg(getTheme().getFooterBackground());
    }
    if (getTheme().getFooterForeground() != null) {
        style.fg(getTheme().getFooterForeground());
    }
    getConsole().out().print(style);
    getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize(), 1).eraseLine(Ansi.Erase.FORWARD));
    for (int i = 1; i <= helpLines.size(); i++) {
        String helpLine = helpLines.get(i - 1);
        int startColumn = (getTerminal().getWidth() - helpLine.length()) / 2;
        getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i, startColumn));
        getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i, startColumn));
        getConsole().out().print(helpLine);
    }
    getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i, startColumn));
    getConsole().out().print(ansi().reset());
    restoreCursorPosition();
}

/**
 * Redraws the cursor coordinates if the flavor supports that.
 */
@Override
public void redrawCoords() {
    // We redraw the full header to prevent glitches with the coordinates.
    redrawHeader();
}

private void addHelpLines(List<String> helpLines) {
    helpLines.clear();
    StringBuilder sb = new StringBuilder();
    boolean startOfLine = true;
    for (Map.Entry<String, String> entry : supportedOperations.entrySet()) {
        String key = entry.getKey();
        String desc = entry.getValue();
        String txt;
        if (startOfLine) {
            txt = key + " " + desc;
            startOfLine = false;
        } else {
            txt = "    " + key + " " + desc;
        }
        if (txt.length() + sb.length() > getTerminal().getWidth()) {
            helpLines.add(sb.toString());
            sb.delete(0, sb.length());
            startOfLine = true;
        }
        sb.append(txt);
    }
    helpLines.add(sb.toString());
}

@Override
public Command create(EditorOperation operation) throws CommandNotFoundException {
    switch (operation.getType()) {
    case TYPE:
        return new TypeCommand(this, operation.getInput());
    case NEWLINE:
        return new NewLineCommand(this);
    case BACKSPACE:
        return new BackspaceCommand(this);
    case DELETE:
        return new DeleteCommand(this);
    case PASTE:
        return new PasteCommand(this);
    // Cursor operations
    case HOME:
        return new MoveCursorToStartOfLineCommand(this);
    case END:
        return new MoveCursorToEndOfLineCommand(this);
    case SEL:
        return new SelectCommand(this);
    case COPY:
        return new CopyCommand(this);
    case PASTE_SELECTION:
        return new PasteSelectionCommand(this);
    case MOVE_CUT:
        return new MoveCutCommand(this);
    case UNDO:
        return new UndoCommand(this);
    case REDO:
        return new RedoCommand(this);
    }
}
return new MoveCursorToEndOfLineCommand(this);
case UP:
    return new MoveCursorUpCommand(this);
case DOWN:
    return new MoveCursorDownCommand(this);
case LEFT:
    return new MoveCursorLeftCommand(this);
case RIGHT:
    return new MoveCursorRightCommand(this);
    // File Operations
    case SAVE:
        return new FileSaveCommand(this);
case OPEN:
        return new FileOpenCommand(this, null);
case CLOSE:
        return new FileCloseCommand(this);
case QUIT:
    return new QuitCommand(this);
    // UNDO & REDO
    case UNDO:
        return new UndoCommand(this, getUndoContext());
case REDO:
    return new RedoCommand(getUndoContext());
case FIND:
    return new FindCommand(this);
case FIND_NEXT:
    return new FindNextCommand(this, null);
case FIND_PREVIOUS:
    return new FindPreviousCommand(this, null);
case GOTO:
    return new GoToCommand(this);
}
throw new CommandNotFoundException("Could not find command for Operation");
}

private KeyMap createKeyMap() {
    Object[] ctrl = new Object[]{
        // Control keys.
        null, /* Control-@ */
        null, /* Control-A */
        null, /* Control-B */
        null, /* Control-C */
        null, /* Control-D */
        null, /* Control-E */
        EditorOperationType.FIND, /* Control-F */
        EditorOperationType.GOTO, /* Control-G */
        EditorOperationType.BACKSPACE, /* Control-H */
    }
    //add other keys here...
    return new KeyMap(ctrl, "awkward key map");
}
KeyMap simpleKeyMap = new KeyMap("simple", false);
for (char c = 0; c < ctrl.length; c++) {
  simpleKeyMap.bind(Character.toString(c), ctrl[c]);
}
for (char c = 32; c < 256; c++) {
  simpleKeyMap.bind(Character.toString(c), EditorOperationType.TYPE);
}
simpleKeyMap.bind(Character.toString((char) 127), EditorOperationType.BACKSPACE);
KeyMaps.bindArrowKeys(simpleKeyMap);
return simpleKeyMap;

@Override
public void setDirty(Boolean dirty) {
  super.setDirty(dirty);
  redrawHeader();
}

@Override
public void setReadOnly(boolean readOnly) {
  super.setReadOnly(readOnly);
  if (readOnly) {
    supportedOperations.remove("^S");
  }
}
7.205 jline-jar 2.11

7.205.1 Available under license :

/*
 * Copyright (c) 2002-2012, the original author or authors.
 * 
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 * BSD license in the documentation provided with this software.
 * 
 * http://www.opensource.org/licenses/bsd-license.php
 */

package jline.console.completer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;
import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer which contains multiple completers and aggregates them together.
 * 
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class AggregateCompleter implements Completer
private final List<Completer> completers = new ArrayList<Completer>();

public AggregateCompleter() {
    // empty
}

/**
 * Construct an AggregateCompleter with the given collection of completers.
 * The completers will be used in the iteration order of the collection.
 *
 * @param completers the collection of completers
 */
public AggregateCompleter(final Collection<Completer> completers) {
    checkNotNull(completers);
    this.completers.addAll(completers);
}

/**
 * Construct an AggregateCompleter with the given completers.
 * The completers will be used in the order given.
 *
 * @param completers the completers
 */
public AggregateCompleter(final Completer... completers) {
    this(Arrays.asList(completers));
}

/**
 * Retrieve the collection of completers currently being aggregated.
 *
 * @return the aggregated completers
 */
public Collection<Completer> getCompleters() {
    return completers;
}

/**
 * Perform a completion operation across all aggregated completers.
 *
 * @see Completer#complete(String, int, java.util.List)
 * @return the highest completion return value from all completers
 */
public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer could be null
    checkNotNull(candidates);

    List<Completion> completions = new ArrayList<Completion>(completers.size());

    completions.add(new Completion(buffer, cursor, candidates));

    int highestCompletion = Integer.MIN_VALUE;
    for (Completer completer : completers) {
        // perform completion
        int completion = completer.complete(buffer, cursor, candidates);
        if (completion > highestCompletion) {
            highestCompletion = completion;
        }
    }

    return highestCompletion;
}
// Run each completer, saving its completion results
int max = -1;
for (Completer completer : completers) {
    Completion completion = new Completion(candidates);
    completion.complete(completer, buffer, cursor);

    // Compute the max cursor position
    max = Math.max(max, completion.cursor);

    completions.add(completion);
}

// Append candidates from completions which have the same cursor position as max
for (Completion completion : completions) {
    if (completion.cursor == max) {
        candidates.addAll(completion.candidates);
    }
}
return max;

/**
 * @return a string representing the aggregated completers
 */
@Override
public String toString() {
    return getClass().getSimpleName() + "{" +
        "completers=" + completers +
        "}";
}

private class Completion
{
    public final List<CharSequence> candidates;

    public int cursor;

    public Completion(final List<CharSequence> candidates) {
        checkNotNull(candidates);
        this.candidates = new LinkedList<CharSequence>(candidates);
    }

    public void complete(final Completer completer, final String buffer, final int cursor) {
        checkNotNull(completer);
        this.cursor = completer.complete(buffer, cursor, candidates);
    }
}
import jline.console.completer;

import jline.internal.Log;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;
import static jline.internal.Preconditions.checkNotNull;

/**
 * A {@link Completer} implementation that invokes a child completer using the appropriate <i>separator</i> argument.
 * This can be used instead of the individual completers having to know about argument parsing semantics.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class ArgumentCompleter
    implements Completer
{
    private final ArgumentDelimiter delimiter;

    private final List<Completer> completers = new ArrayList<Completer>;

    private boolean strict = true;

    /**
     * Create a new completer with the specified argument delimiter.
     *
     * @param delimiter     The delimiter for parsing arguments
     * @param completers    The embedded completers
     */
    public ArgumentCompleter(final ArgumentDelimiter delimiter, final Collection<Completer> completers) {
        this.delimiter = checkNotNull(delimiter);
        this.completers = new ArrayList<Completer>(completers);
    }

    public List<Completion> complete(String prefix, int cursor, int tries, boolean overwrite) {
        List<Completion> result = new LinkedList<Completion>();

        for (Completer completer : completers)
            result.addAll(completer.complete(prefix, cursor, tries, overwrite));

        return result;
    }

    public void completeAplet(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
        complete(prefix, cursor, tries, overwrite);
    }

    public boolean isInsertable() {
        return true;
    }

    public boolean isSpaceInsertable() {
        return true;
    }

    public boolean isDeleteable() {
        return true;
    }

    public String getNextArgument(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
        return null;
    }

    public String getPreviousArgument(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
        return null;
    }

    public String getWordBeforeEditPosition(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
        return null;
    }

    public String getWordAfterEditPosition(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
        return null;
    }

    public void setStrict(boolean strict) {
        this.strict = strict;
    }

    public boolean isStrict() {
        return strict;
    }

    /**
     * A child completer that delegates to the completers.
     *
     * @author <a href="mailto:jason@planet57.com">Marc Prud'hommeaux</a>
     */
    public static class ChildCompleter
    {
        private final List<Completer> completers;

        ChildCompleter(List<Completer> completers) {
            this.completers = completers;
        }

        public List<Completion> complete(String prefix, int cursor, int tries, boolean overwrite) {
            List<Completion> result = new LinkedList<Completion>();

            for (Completer completer : completers)
                result.addAll(completer.complete(prefix, cursor, tries, overwrite));

            return result;
        }

        public void completeAplet(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
            complete(prefix, cursor, tries, overwrite);
        }

        public boolean isInsertable() {
            return true;
        }

        public boolean isSpaceInsertable() {
            return true;
        }

        public boolean isDeleteable() {
            return true;
        }

        public String getNextArgument(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
            return null;
        }

        public String getPreviousArgument(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
            return null;
        }

        public String getWordBeforeEditPosition(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
            return null;
        }

        public String getWordAfterEditPosition(String prefix, int cursor, int tries, int apletId, boolean overwrite) {
            return null;
        }
    }
}

Open Source Used In WAE 6.2
checkNotNull(completers);
this.completers.addAll(completers);
}

/**
 * Create a new completer with the specified argument delimiter.
 * @param delimiter     The delimiter for parsing arguments
 * @param completers    The embedded completers
 */
public ArgumentCompleter(final ArgumentDelimiter delimiter, final Completer... completers) {
    this(delimiter, Arrays.asList(completers));
}

/**
 * Create a new completer with the default {@link WhitespaceArgumentDelimiter}.
 * @param completers    The embedded completers
 */
public ArgumentCompleter(final Completer... completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * Create a new completer with the default {@link WhitespaceArgumentDelimiter}.
 * @param completers    The embedded completers
 */
public ArgumentCompleter(final List<Completer> completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * If true, a completion at argument index N will only succeed
 * if all the completions from 0-(N-1) also succeed.
 */
public void setStrict(final boolean strict) {
    this.strict = strict;
}

/**
 * Returns whether a completion at argument index N will succeed
 * if all the completions from arguments 0-(N-1) also succeed.
 * @return True if strict.
 * @since 2.3
 */
public boolean isStrict() {
return this.strict;
}
/**
* @since 2.3
*/
public ArgumentDelimiter getDelimiter() {
return delimiter;
}
/**
* @since 2.3
*/
public List<Completer> getCompleters() {
return completers;
}
public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
// buffer can be null
checkNotNull(candidates);
ArgumentDelimiter delim = getDelimiter();
ArgumentList list = delim.delimit(buffer, cursor);
int argpos = list.getArgumentPosition();
int argIndex = list.getCursorArgumentIndex();
if (argIndex < 0) {
return -1;
}
List<Completer> completers = getCompleters();
Completer completer;
// if we are beyond the end of the completers, just use the last one
if (argIndex >= completers.size()) {
completer = completers.get(completers.size() - 1);
}
else {
completer = completers.get(argIndex);
}
// ensure that all the previous completers are successful before allowing this completer to pass (only if strict).
for (int i = 0; isStrict() && (i < argIndex); i++) {
Completer sub = completers.get(i >= completers.size() ? (completers.size() - 1) : i);
String[] args = list.getArguments();
String arg = (args == null || i >= args.length) ? "" : args[i];
List<CharSequence> subCandidates = new LinkedList<CharSequence>();

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if (sub.complete(arg, arg.length(), subCandidates) == -1) {
    return -1;
}

if (subCandidates.size() == 0) {
    return -1;
}

int ret = completer.complete(list.getCursorArgument(), argpos, candidates);

if (ret == -1) {
    return -1;
}

int pos = ret + list.getBufferPosition() - argpos;

// Special case: when completing in the middle of a line, and the area under the cursor is a delimiter,
// then trim any delimiters from the candidates, since we do not need to have an extra delimiter.
//
// E.g., if we have a completion for “foo”, and we enter “f bar” into the buffer, and move to after the “f”
// and hit TAB, we want "foo bar" instead of "foo  bar".

if (((cursor != buffer.length()) && delim.isDelimiter(buffer, cursor)) {
    for (int i = 0; i < candidates.size(); i++) {
        CharSequence val = candidates.get(i);
        while (val.length() > 0 && delim.isDelimiter(val, val.length() - 1)) {
            val = val.subSequence(0, val.length() - 1);
        }
        candidates.set(i, val);
    }
}

Log.trace("Completing ", buffer, " (pos=", cursor, ") with: ", candidates, ": offset=", pos);

return pos;

/**
 * The {ArgumentCompleter.ArgumentDelimiter} allows custom breaking up of a {String} into individual
 * arguments in order to dispatch the arguments to the nested {Completer}.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static interface ArgumentDelimiter
{
    /**
     * Break the specified buffer into individual tokens that can be completed on their own.
     *
     * @param buffer The buffer to split
     * @param pos The current position of the cursor in the buffer
     * @return The tokens
     */
    ArgumentList delimit(CharSequence buffer, int pos);
}

/**
 * Returns true if the specified character is a whitespace parameter.
 *
 * @param buffer The complete command buffer
 * @param pos The index of the character in the buffer
 * @return True if the character should be a delimiter
 */
boolean isDelimiter(CharSequence buffer, int pos);
}

/**
 * Abstract implementation of a delimiter that uses the \@link isDelimiter} method to determine if a particular
 * character should be used as a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public abstract static class AbstractArgumentDelimiter
    implements ArgumentDelimiter
{
    // TODO: handle argument quoting and escape characters

    private char[] quoteChars = {'\', '"'};
    private char[] escapeChars = {'\'};

    public void setQuoteChars(final char[] chars) {
        this.quoteChars = chars;
    }

    public char[] getQuoteChars() {
        return this.quoteChars;
    }

    public void setEscapeChars(final char[] chars) {
        this.escapeChars = chars;
    }

    public char[] getEscapeChars() {
        return this.escapeChars;
    }
}
public char[] getEscapeChars() {
    return this.escapeChars;
}

public ArgumentList delimit(final CharSequence buffer, final int cursor) {
    List<String> args = new LinkedList<String>();
    StringBuilder arg = new StringBuilder();
    int argpos = -1;
    int bindex = -1;

    for (int i = 0; (buffer != null) && (i <= buffer.length()); i++) {
        // once we reach the cursor, set the
        // position of the selected index
        if (i == cursor) {
            bindex = args.size();
            // the position in the current argument is just the
            // length of the current argument
            argpos = arg.length();
        }

        if ((i == buffer.length()) || isDelimiter(buffer, i)) {
            if (arg.length() > 0) {
                args.add(arg.toString());
            }
            arg.setLength(0); // reset the arg
            argpos = arg.length();
        } else {
            arg.append(buffer.charAt(i));
        }
    }

    return new ArgumentList(args.toArray(new String[args.size()]), bindex, argpos, cursor);
}

/**
 * Returns true if the specified character is a whitespace parameter. Check to ensure that the character is not
 * escaped by any of { @link #getQuoteChars }, and is not escaped by any of the { @link #getEscapeChars }, and
 * returns true from { @link #isDelimiterChar }.
 *
 * @param buffer    The complete command buffer
 * @param pos       The index of the character in the buffer
 * @return          True if the character should be a delimiter
 */
public boolean isDelimiter(final CharSequence buffer, final int pos) {
    return !isQuoted(buffer, pos) && !isEscaped(buffer, pos) && isDelimiterChar(buffer, pos);
}

public boolean isQuoted(final CharSequence buffer, final int pos) {

}
public boolean isEscaped(final CharSequence buffer, final int pos) {
    if (pos <= 0) {
        return false;
    }

    for (int i = 0; (escapeChars != null) && (i < escapeChars.length); i++) {
        if (buffer.charAt(pos) == escapeChars[i]) {
            return !isEscaped(buffer, pos - 1); // escape escape
        }
    }

    return false;
}

/**
 * Returns true if the character at the specified position if a delimiter. This method will only be called if
 * the character is not enclosed in any of the {@link #getQuoteChars}, and is not escaped by ant of the
 * {@link #getEscapeChars}. To perform escaping manually, override {@link #isDelimiter} instead.
 */
public abstract boolean isDelimiterChar(CharSequence buffer, int pos);

/**
 * {@link ArgumentCompleter.ArgumentDelimiter} implementation that counts all whitespace (as reported by
 * Character#isWhitespace) as being a delimiter.
 */
public static class WhitespaceArgumentDelimiter
    extends AbstractArgumentDelimiter
{
    /**
     * The character is a delimiter if it is whitespace, and the
     * preceding character is not an escape character.
     */
    @Override
    public boolean isDelimiterChar(final CharSequence buffer, final int pos) {
        return Character.isWhitespace(buffer.charAt(pos));
    }
}

/**
 * The result of a delimited buffer.
 */
public static class ArgumentList
{
    private String[] arguments;

    private int cursorArgumentIndex;

    private int argumentPosition;

    private int bufferPosition;

    public ArgumentList(final String[] arguments, final int cursorArgumentIndex, final int argumentPosition, final int bufferPosition) {
        this.arguments = checkNotNull(arguments);
        this.cursorArgumentIndex = cursorArgumentIndex;
        this.argumentPosition = argumentPosition;
        this.bufferPosition = bufferPosition;
    }

    public void setCursorArgumentIndex(final int i) {
        this.cursorArgumentIndex = i;
    }

    public int getCursorArgumentIndex() {
        return this.cursorArgumentIndex;
    }

    public String getCursorArgument() {
        if ((cursorArgumentIndex < 0) || (cursorArgumentIndex >= arguments.length)) {
            return null;
        }
        return arguments[cursorArgumentIndex];
    }

    public void setArgumentPosition(final int pos) {
        this.argumentPosition = pos;
    }

    public int getArgumentPosition() {
        return this.argumentPosition;
    }
public void setArguments(final String[] arguments) {
    this.arguments = arguments;
}

public String[] getArguments() {
    return this.arguments;
}

public void setBufferPosition(final int pos) {
    this.bufferPosition = pos;
}

public int getBufferPosition() {
    return this.bufferPosition;
}
*/

/*
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 * BSD license in the documentation provided with this software.
 * http://www.opensource.org/licenses/bsd-license.php
 */

package jline.console.completer;

import jline.ConsoleReader;
import jline.CursorBuffer;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
import java.util.Set;

/**
 * A CompletionHandler that deals with multiple distinct completions
 * by outputting the complete list of possibilities to the console. This
 * mimics the behavior of the
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public class CandidateListCompletionHandler
    implements CompletionHandler
{
    // TODO: handle quotes and escaped quotes && enable automatic escaping of whitespace

    public boolean complete(ConsoleReader reader, List<CharSequence> candidates, int pos) throws IOException
    {
        CursorBuffer buf = reader.getCursorBuffer();

        // if there is only one completion, then fill in the buffer
        if (candidates.size() == 1) {
            CharSequence value = candidates.get(0);

            // fail if the only candidate is the same as the current buffer
            if (value.equals(buf.toString())) {
                return false;
            }

            setBuffer(reader, value, pos);
        }

        return true;
    }

    // redraw the current console buffer
    reader.drawLine();

    return true;
}

public static void setBuffer(ConsoleReader reader, CharSequence value, int offset) throws IOException
{
    while ((reader.getCursorBuffer().cursor > offset) && reader.backspace()) {
        // empty
    }

    reader.putString(value);
    reader.setCursorPosition(offset + value.length());

    printCandidates(reader, candidates);

    // redraw the current console buffer
    reader.drawLine();
/**
 * Print out the candidates. If the size of the candidates is greater than the
 * {@link ConsoleReader#getAutoprintThreshold}, they prompt with a warning.
 * 
 * @param candidates the list of candidates to print
 */
public static void printCandidates(ConsoleReader reader, Collection<CharSequence> candidates) throws IOException {
    Set<CharSequence> distinct = new HashSet<CharSequence>(candidates);

    if (distinct.size() > reader.getAutoprintThreshold()) {
        reader.print(Messages.DISPLAY_CANDIDATES.format(candidates.size()));
        reader.flush();

        int c;

        String noOpt = Messages.DISPLAY_CANDIDATES_NO.format();
        String yesOpt = Messages.DISPLAY_CANDIDATES_YES.format();
        char[] allowed = {yesOpt.charAt(0), noOpt.charAt(0)};

        while ((c = reader.readCharacter(allowed)) != -1) {
            String tmp = new String(new char[1]{(char) c});

            if (noOpt.startsWith(tmp)) {
                reader.println();
                return;
            } else if (yesOpt.startsWith(tmp)) {
                break;
            } else {
                reader.beep();
            }
        }
    }

    // copy the values and make them distinct, without otherwise affecting the ordering. Only do it if the sizes differ.
    if (distinct.size() != candidates.size()) {
        Collection<CharSequence> copy = new ArrayList<CharSequence>();

        for (CharSequence next : candidates) {
            if (!copy.contains(next)) {
                copy.add(next);
            }
        }
    }
}
candidates = copy;
}

reader.println();
reader.printColumns(candidates);
}

/**
* Returns a root that matches all the { @link String} elements of the specified { @link List},
* or null if there are no commonalities. For example, if the list contains
* <i>foobar</i>, <i>foobaz</i>, <i>foobuz</i>, the method will return <i>foob</i>.
*/
private String getUnambiguousCompletions(final List<CharSequence> candidates) {
    if (candidates == null || candidates.isEmpty()) {
        return null;
    }

    // convert to an array for speed
    String[] strings = candidates.toArray(new String[candidates.size()]);

    String first = strings[0];
    StringBuilder candidate = new StringBuilder();

    for (int i = 0; i < first.length(); i++) {
        if (startsWith(first.substring(0, i + 1), strings)) {
            candidate.append(first.charAt(i));
        } else {
            break;
        }
    }

    return candidate.toString();
}

/**
* @return true is all the elements of <i>candidates</i> start with <i>starts</i>
*/
private boolean startsWith(final String starts, final String[] candidates) {
    for (String candidate : candidates) {
        if (!candidate.startsWith(starts)) {
            return false;
        }
    }
    return true;
}
private static enum Messages {
    DISPLAY_CANDIDATES,
    DISPLAY_CANDIDATES_YES,
    DISPLAY_CANDIDATES_NO;

private static final ResourceBundle bundle = ResourceBundle.getBundle(CandidateListCompletionHandler.class.getName(), Locale.getDefault());

public String format(final Object... args) {
    if (bundle == null)
        return "";
    else
        return String.format(bundle.getString(name()), args);
}
}
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 */
package jline.console.completer;

import java.util.List;

/**
 * A completer is the mechanism by which tab-completion candidates will be resolved.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface Completer {
    //
    //FIXME: Check if we can use CharSequece for buffer?
    //

    /**
     * Populates <i>candidates</i> with a list of possible completions for the <i>buffer</i>.
     */
The `candidates` list will not be sorted before being displayed to the user: thus, the `complete` method should sort the `List` before returning.

@see List

@method complete

```java
int complete(String buffer, int cursor, List<CharSequence> candidates);
```

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package jline.console.completer;

import jline.console.ConsoleReader;

import java.io.IOException;
import java.util.List;

/**
 * Handler for dealing with candidates for tab-completion.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface CompletionHandler
{
    boolean complete(ConsoleReader reader, List<CharSequence> candidates, int position) throws IOException;
}

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package jline.console.completer;

import static jline.internal.Preconditions.checkNotNull;
/**
 * {@link Completer} for {@link Enum} names.
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class EnumCompleter
    extends StringsCompleter
{
    public EnumCompleter(Class<? extends Enum> source) {
        checkNotNull(source);

        for (Enum<?> n : source.getEnumConstants()) {
            this.getStrings().add(n.name().toLowerCase());
        }
    }
}

package jline.console.completer;

import jline.internal.Configuration;
import java.io.File;
import java.util.List;
import static jline.internal.Preconditions.checkNotNull;

/**
 * A file name completer takes the buffer and issues a list of
 * potential completions.
 * @param <p/>
 * This completer tries to behave as similar as possible to
 * <i>bash</i>'s file name completion (using GNU readline)
 * with the following exceptions:
 * @param <p/>
 * @param <ul>
 * @param <li>Candidates that are directories will end with "/"</li>
 * @param <li>Wildcard regular expressions are not evaluated or replaced</li>
 * @param <li>The "~" character can be used to represent the user's home,
 * but it cannot complete to other users' homes, since java does
 */
import java.io.File;
import java.util.List;
import static jline.internal.Preconditions.checkNotNull;
public class FileNameCompleter
    implements Completer
{
    // TODO: Handle files with spaces in them

    private static final boolean OS_IS_WINDOWS;
    static {
        String os = Configuration.getOsName();
        OS_IS_WINDOWS = os.contains("windows");
    }

    public int complete(String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer can be null
        checkNotNull(candidates);

        if (buffer == null) {
            buffer = "";
        }

        if (OS_IS_WINDOWS) {
            buffer = buffer.replace('/', '\');
        }

        String translated = buffer;

        File homeDir = getUserHome();

        // Special character: ~ maps to the user's home directory
        if (translated.startsWith("~" + separator())) {
            translated = homeDir.getAbsolutePath() + translated.substring(1);
        }
        else if (translated.startsWith("~")) {
            translated = homeDir.getParentFile().getAbsolutePath();
        }
        else if (!translated.startsWith(separator())) {
            String cwd = getUserDir().getAbsolutePath();
            translated = cwd + separator() + translated;
        }

        File file = new File(translated);
final File dir;

if (translated.endsWith(separator())) {
    dir = file;
} else {
    dir = file.getParentFile();
}

File[] entries = dir == null ? new File[0] : dir.listFiles();

return matchFiles(buffer, translated, entries, candidates);

protected String separator() {
    return File.separator;
}

protected File getUserHome() {
    return Configuration.getUserHome();
}

protected File getUserDir() {
    return new File(".");
}

protected int matchFiles(final String buffer, final String translated, final File[] files, final List<CharSequence> candidates) {
    if (files == null) {
        return -1;
    }

    int matches = 0;

    // first pass: just count the matches
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            matches++;
        }
    }

    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            CharSequence name = file.getName() + (matches == 1 && file.isDirectory() ? separator() : " ");
            candidates.add(render(file, name).toString());
        }
    }

    final int index = buffer.lastIndexOf(separator());
return index + separator().length();
}

protected CharSequence render(final File file, final CharSequence name) {
    return name;
}

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 */
package jline.console.completer;

import java.util.List;

/**
 * Null completer.
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public final class NullCompleter
    implements Completer
{
    public static final NullCompleter INSTANCE = new NullCompleter();

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        return -1;
    }
}

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 */
package jline.console.completer;

import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.SortedSet;
import java.util.TreeSet;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer for a set of strings.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class StringsCompleter
  implements Completer
{
  private final SortedSet<String> strings = new TreeSet<String>();

  public StringsCompleter() {
    // empty
  }

  public StringsCompleter(final Collection<String> strings) {
    checkNotNull(strings);
    getStrings().addAll(strings);
  }

  public StringsCompleter(final String... strings) {
    this(Arrays.asList(strings));
  }

  public Collection<String> getStrings() {
    return strings;
  }

  public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer could be null
    checkNotNull(candidates);

    if (buffer == null) {
      candidates.addAll(strings);
    } else {
      for (String match : strings.tailSet(buffer)) {
        if (!match.startsWith(buffer)) {
          break;
        }
        candidates.add(match);
      }
    }
  }
}
if (candidates.size() == 1) {
    candidates.set(0, candidates.get(0) + " ");
}

return candidates.isEmpty() ? -1 : 0;
}
}
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#
DISPLAY_CANDIDATES=Display all %d possibilities? (y or n)
DISPLAY_CANDIDATES_YES=y
DISPLAY_CANDIDATES_NO=n
DISPLAY_MORE=--More--

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7.213 leveldb 0.7

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```java
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 */

package org.iq80.leveldb.impl;

import com.google.common.base.Preconditions;
import com.google.common.base.Throwables;
import com.google.common.collect.Lists;
import com.google.common.util.concurrent.ThreadFactoryBuilder;
import org.iq80.leveldb.CompressionType;
import org.iq80.leveldb.DB;
import org.iq80.leveldb.DBComparator;
import org.iq80.leveldb.DBException;
import org.iq80.leveldb.Options;
import org.iq80.leveldb.Range;
import org.iq80.leveldb.ReadOptions;
import org.iq80.leveldb.Snapshot;
import org.iq80.leveldb.WriteBatch;
import org.iq80.leveldb.WriteOptions;
import org.iq80.leveldb.impl.Filename.FileInfo;
import org.iq80.leveldb.impl.Filename.FileType;
import org.iq80.leveldb.impl.MemTable.MemTableIterator;
```
import org.iq80.leveldb.impl.WriteBatchImpl.Handler;
import org.iq80.leveldb.table.BytewiseComparator;
import org.iq80.leveldb.table.CustomUserComparator;
import org.iq80.leveldb.table.TableBuilder;
import org.iq80.leveldb.table.UserComparator;
import org.iq80.leveldb.util.DbIterator;
import org.iq80.leveldb.util.MergingIterator;
import org.iq80.leveldb.util.Slice;
import org.iq80.leveldb.util.SliceInput;
import org.iq80.leveldb.util.SliceOutput;
import org.iq80.leveldb.util.Slices;
import org.iq80.leveldb.util.Snappy;

import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.lang.Thread.UncaughtExceptionHandler;
import java.nio.channels.FileChannel;
import java.util.Collections;
import java.util.List;
import java.util.Map.Entry;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.Future;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.locks.Condition;
import java.util.concurrent.locks.ReentrantLock;

import static com.google.common.collect.Lists.newArrayList;
import static org.iq80.leveldb.impl.DbConstants.L0_SLOWDOWN_WRITES_TRIGGER;
import static org.iq80.leveldb.impl.DbConstants.L0_STOP_WRITES_TRIGGER;
import static org.iq80.leveldb.impl.DbConstants.NUM_LEVELS;
import static org.iq80.leveldb.impl.SequenceNumber.MAX_SEQUENCE_NUMBER;
import static org.iq80.leveldb.impl.ValueType.DELETION;
import static org.iq80.leveldb.impl.ValueType.VALUE;
import static org.iq80.leveldb.util.SizeOf.SIZE_OF_INT;
import static org.iq80.leveldb.util.SizeOf.SIZE_OF_LONG;
import static org.iq80.leveldb.util.Slices.readLengthPrefixedBytes;
import static org.iq80.leveldb.util.Slices.writeLengthPrefixedBytes;

// todo make thread safe and concurrent
public class DbImpl implements DB
{
private final Options options;
private final File databaseDir;
private final TableCache tableCache;
private final DbLock dbLock;
private final VersionSet versions;

private final AtomicBoolean shuttingDown = new AtomicBoolean();
private final ReentrantLock mutex = new ReentrantLock();
private final Condition backgroundCondition = mutex.newCondition();

private final List<Long> pendingOutputs = new ArrayList(); // todo

private final LogWriter log;

private MemTable memTable;
private MemTable immutableMemTable;

private final InternalKeyComparator internalKeyComparator;

private volatile Throwable backgroundException;
private ExecutorService compactionExecutor;
private Future<?> backgroundCompaction;
private ManualCompaction manualCompaction;

public DbImpl(Options options, File databaseDir)
throws IOException
{
    Preconditions.checkNotNull(options, "options is null");
    Preconditions.checkNotNull(databaseDir, "databaseDir is null");
    this.options = options;
    if( this.options.compressionType() == CompressionType.SNAPPY && !Snappy.available() ) {
        // Disable snappy if it's not available.
        this.options.compressionType(CompressionType.NONE);
    }
    this.databaseDir = databaseDir;

    if( this.options.compressionType() == CompressionType.SNAPPY && !Snappy.available() ) {
        // Disable snappy if it's not available.
        this.options.compressionType(CompressionType.NONE);
    }

    this.databaseDir = databaseDir;

    //use custom comparator if set
    DBComparator comparator = options.comparator();
    UserComparator userComparator;
    if (comparator != null) {
        userComparator = new CustomUserComparator(comparator);
    }else{
        userComparator = new BytewiseComparator();
    }
    internalKeyComparator = new InternalKeyComparator(userComparator);
memTable = new MemTable(internalKeyComparator);
immutableMemTable = null;

ThreadFactory compactionThreadFactory = new ThreadFactoryBuilder()
    .setNameFormat("leveldb-compaction-%s")
    .setUncaughtExceptionHandler(new UncaughtExceptionHandler()
    {
        @Override
        public void uncaughtException(Thread t, Throwable e)
        {
            // todo need a real UncaughtExceptionHandler
            System.out.printf("%s\n", t);
            e.printStackTrace();
        }
    })
    .build();

compactionExecutor = Executors.newSingleThreadExecutor(compactionThreadFactory);

    // Reserve ten files or so for other uses and give the rest to TableCache.
    int tableCacheSize = options.maxOpenFiles() - 10;
    tableCache = new TableCache(databaseDir, tableCacheSize, new
    InternalUserComparator(internalKeyComparator), options.verifyChecksums());

    // create the version set

    // create the database dir if it does not already exist
    databaseDir.mkdirs();
    Preconditions.checkArgument(databaseDir.exists(), "Database directory '%s' does not exist and could not be
    created", databaseDir);
    Preconditions.checkArgument(databaseDir.isDirectory(), "Database directory '%s' is not a directory",
    databaseDir);

    mutex.lock();
    try {
        // lock the database dir
        dbLock = new DbLock(new File(databaseDir, Filename.lockFileName()));

        // verify the "current" file
        File currentFile = new File(databaseDir, Filename.currentFileName());
        if (!currentFile.canRead()) {
            Preconditions.checkArgument(options.createIfMissing(), "Database '%s' does not exist and the create if
            missing option is disabled", databaseDir);
        } else {
            Preconditions.checkArgument(!options.errorIfExists(), "Database '%s' exists and the error if exists option
            is enabled", databaseDir);
versions = new VersionSet(databaseDir, tableCache, internalKeyComparator);

// load (and recover) current version
versions.recover();

// Recover from all newer log files than the ones named in the
// descriptor (new log files may have been added by the previous
// incarnation without registering them in the descriptor).
//
// Note that PrevLogNumber() is no longer used, but we pay
// attention to it in case we are recovering a database
// produced by an older version of leveldb.
long minLogNumber = versions.getLogNumber();
long previousLogNumber = versions.getPrevLogNumber();
List<File> filenames = Filename.listFiles(databaseDir);

List<Long> logs = Lists.newArrayList();
for (File filename : filenames) {
    FileInfo fileInfo = Filename.parseFileName(filename);
    if (fileInfo != null &&
        fileInfo.getFileType() == FileType.LOG &&
        ((fileInfo.getFileNumber() >= minLogNumber) ||
        (fileInfo.getFileNumber() ==
        previousLogNumber))) {
        logs.add(fileInfo.getFileNumber());
    }
}

// Recover in the order in which the logs were generated
VersionEdit edit = new VersionEdit();
Collections.sort(logs);
for (Long fileNumber : logs) {
    long maxSequence = recoverLogFile(fileNumber, edit);
    if (versions.getLastSequence() < maxSequence) {
        versions.setLastSequence(maxSequence);
    }
}

// open transaction log
long logFileNumber = versions.getNextFileNumber();
this.log = Logs.createLogWriter(new File(databaseDir, Filename.logFileName(logFileNumber)),
logFileNumber);
edit.setLogNumber(log.getFileNumber());

// apply recovered edits
versions.logAndApply(edit);
// cleanup unused files
deleteObsoleteFiles();

// schedule compactions
maybeScheduleCompaction();
}
finally {
    mutex.unlock();
}

public void close() {
    if (shuttingDown.getAndSet(true)) {
        return;
    }

    mutex.lock();
    try {
        while (backgroundCompaction != null) {
            backgroundCondition.awaitUninterruptibly();
        }
    } finally {
        mutex.unlock();
    }

    compactionExecutor.shutdown();
    try {
        compactionExecutor.awaitTermination(1, TimeUnit.DAYS);
    } catch (InterruptedException e) {
        Thread.currentThread().interrupt();
    }
    try {
        versions.destroy();
    } catch (IOException ignored) {
    }
    try {
        log.close();
    } catch (IOException ignored) {
    }
    tableCache.close();
    dbLock.release();
}

@Override
public String getProperty(String name)
{
    checkBackgroundException();
    return null;
}

private void deleteObsoleteFiles()
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    // Make a set of all of the live files
    List<Long> live = new ArrayList(this.pendingOutputs);
    for (FileMetaData fileMetaData : versions.getLiveFiles()) {
        live.add(fileMetaData.getNumber());
    }

    for (File file : Filename.listFiles(databaseDir)) {
        FileInfo fileInfo = Filename.parseFileName(file);
        if (fileInfo == null)
            continue;
        long number = fileInfo.getFileNumber();
        boolean keep = true;
        switch (fileInfo.getFileType()) {
            case LOG:
                keep = ((number >= versions.getLogNumber()) ||
                    (number == versions.getPrevLogNumber()));
                break;
            case DESCRIPTOR:
                // Keep my manifest file, and any newer incarnations'
                // (in case there is a race that allows other incarnations)
                keep = (number >= versions.getManifestFileNumber());
                break;
            case TABLE:
                keep = live.contains(number);
                break;
            case TEMP:
                // Any temp files that are currently being written to must
                // be recorded in pending_outputs_, which is inserted into "live"
                keep = live.contains(number);
                break;
            case CURRENT:
            case DB_LOCK:
            case INFO_LOG:
                keep = true;
                break;
        }

        if (!keep) {
            // Do something with the file here...
        }
    }
}
if (fileInfo.getFileType() == FileType.TABLE) {
    tableCache.evict(number);
}
// todo info logging system needed
//    Log(options_.info_log, "Delete type=%d #%lld\n",
//        int(type),
//    static_cast < unsigned long long>(number));
file.delete();
}
}

public void flushMemTable()
{
    mutex.lock();
    try {
        // force compaction
        makeRoomForWrite(true);

        // todo bg_error code
        while(immutableMemTable != null) {
            backgroundCondition.awaitUninterruptibly();
        }
    } finally {
        mutex.unlock();
    }
}

public void compactRange(int level, Slice start, Slice end)
{
    Preconditions.checkArgument(level >= 0, "level is negative");
    Preconditions.checkArgument(level + 1 < NUM_LEVELS, "level is greater than or equal to %s", NUM_LEVELS);
    Preconditions.checkNotNull(start, "start is null");
    Preconditions.checkNotNull(end, "end is null");

    mutex.lock();
    try {
        while (this.manualCompaction != null) {
            backgroundCondition.awaitUninterruptibly();
        }
    }
    ManualCompaction manualCompaction = new ManualCompaction(level, start, end);
    this.manualCompaction = manualCompaction;

    maybeScheduleCompaction();

    while (this.manualCompaction == manualCompaction) {
        backgroundCondition.awaitUninterruptibly();
    }
private void maybeScheduleCompaction()
{
    Preconditions.checkState(mutex.isHeldByCurrentThread);

    if (backgroundCompaction != null) {
        // Already scheduled
    } else if (shuttingDown.get()) {
        // DB is being shutdown; no more background compactions
    } else if (immutableMemTable == null &&
        manualCompaction == null &&
        !versions.needsCompaction()) {
        // No work to be done
    } else {
        backgroundCompaction = compactionExecutor.submit(new Callable<Void>()
        {
            @Override
            public Void call()
                throws Exception
            {
                try {
                    backgroundCall();
                } catch (DatabaseShutdownException ignored) {
                } catch (Throwable e) {
                    backgroundException = e;
                    return null;
                }
            }
        });
    }
}

public void checkBackgroundException() {
    Throwable e = backgroundException;
    if(e != null) {
        throw new BackgroundProcessingException(e);
    }
}
private void backgroundCall()
    throws IOException
{
    mutex.lock();
    try {
        if (backgroundCompaction == null) {
            return;
        }

        try {
            if (!shuttingDown.get()) {
                backgroundCompaction();
            }
        }
        finally {
            backgroundCompaction = null;
        }
    }
    finally {
        try {
            // Previous compaction may have produced too many files in a level,
            // so reschedule another compaction if needed.
            maybeScheduleCompaction();
        }
        finally {
            backgroundCondition.signalAll();
        }
        finally {
            mutex.unlock();
        }
    }
}

private void backgroundCompaction()
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    compactMemTableInternal();

    Compaction compaction;
    if (manualCompaction != null) {
        compaction = versions.compactRange(manualCompaction.level,
            new InternalKey(manualCompaction.begin, MAX_SEQUENCE_NUMBER, ValueType.VALUE),
            ...
new InternalKey(manualCompaction.end, 0, ValueType.DELETION));
}

        else {
            compaction = versions.pickCompaction();
        }

        if (compaction == null) {
            // no compaction
        } else if (manualCompaction == null && compaction.isTrivialMove()) {
            // Move file to next level
            Preconditions.checkState(compaction.getLevelInputs().size() == 1);
            FileMetaData fileMetaData = compaction.getLevelInputs().get(0);
            compaction.getEdit().deleteFile(compaction.getLevel(), fileMetaData.getNumber());
            compaction.getEdit().addFile(compaction.getLevel() + 1, fileMetaData);
            versions.logAndApply(compaction.getEdit());
            // log
        } else {
            CompactionState compactionState = new CompactionState(compaction);
            doCompactionWork(compactionState);
            cleanupCompaction(compactionState);
        }

        // manual compaction complete
        if (manualCompaction != null) {
            manualCompaction = null;
        }
    }

    private void cleanupCompaction(CompactionState compactionState)
    {
        Preconditions.checkState(mutex.isHeldByCurrentThread());

        if (compactionState.builder != null) {
            compactionState.builder.abandon();
        } else {
            Preconditions.checkArgument(compactionState.outfile == null);
        }

        for (FileMetaData output : compactionState.outputs) {
            pendingOutputs.remove(output.getNumber());
        }
    }

    private long recoverLogFile(long fileNumber, VersionEdit edit)
            throws IOException
    {
        Preconditions.checkState(mutex.isHeldByCurrentThread());
        File file = new File(databaseDir, Filename.logFileName(fileNumber));
        FileChannel channel = new FileInputStream(file).getChannel();
        // ...
try {
    LogMonitor logMonitor = LogMonitors.logMonitor();
    LogReader logReader = new LogReader(channel, logMonitor, true, 0);

    // Log(options_.info_log, "Recovering log #\%llu", (unsigned long long) log_number);

    // Read all the records and add to a memtable
    long maxSequence = 0;
    MemTable memTable = null;
    for (Slice record = logReader.readRecord(); record != null; record = logReader.readRecord()) {
        SliceInput sliceInput = record.input();
        // read header
        if (sliceInput.available() < 12) {
            logMonitor.corruption(sliceInput.available(), "log record too small");
            continue;
        }
        long sequenceBegin = sliceInput.readLong();
        int updateSize = sliceInput.readInt();
        // read entries
        WriteBatchImpl writeBatch = readWriteBatch(sliceInput, updateSize);
        // apply entries to memTable
        if (memTable == null) {
            memTable = new MemTable(internalKeyComparator);
        }
        writeBatch.forEach(new InsertIntoHandler(memTable, sequenceBegin));

        // update the maxSequence
        long lastSequence = sequenceBegin + updateSize - 1;
        if (lastSequence > maxSequence) {
            maxSequence = lastSequence;
        }

        // flush mem table if necessary
        if (memTable.approximateMemoryUsage() > options.writeBufferSize()) {
            writeLevel0Table(memTable, edit, null);
            memTable = null;
        }
    }

    // flush mem table
    if (memTable != null && !memTable.isEmpty()) {
        writeLevel0Table(memTable, edit, null);
    }

    return maxSequence;
} finally {
    channel.close();

}

@override
public byte[] get(byte[] key)
    throws DBException
{
    return get(key, new ReadOptions());
}

@override
public byte[] get(byte[] key, ReadOptions options)
    throws DBException
{
    checkBackgroundException();
    LookupKey lookupKey;
    mutex.lock();
    try {
        SnapshotImpl snapshot = getSnapshot(options);
        lookupKey = new LookupKey(Slices.wrappedBuffer(key), snapshot.getLastSequence());

        // First look in the memtable, then in the immutable memtable (if any).
        LookupResult lookupResult = memTable.get(lookupKey);
        if (lookupResult != null) {
            Slice value = lookupResult.getValue();
            if (value == null) {
                return null;
            }
            return value.getBytes();
        }
        if (immutableMemTable != null) {
            lookupResult = immutableMemTable.get(lookupKey);
            if (lookupResult != null) {
                Slice value = lookupResult.getValue();
                if (value == null) {
                    return null;
                }
                return value.getBytes();
            }
        }
        return value.getBytes();
    }
    finally {
        mutex.unlock();
    }

    // Not in memTables; try live files in level order
    LookupResult lookupResult = versions.get(lookupKey);
// schedule compaction if necessary
mutex.lock();
try {
    if (versions.needsCompaction()) {
        maybeScheduleCompaction();
    }
}
finally {
    mutex.unlock();
}

if (lookupResult != null) {
    Slice value = lookupResult.getValue();
    if (value != null) {
        return value.getBytes();
    }
    return null;
}

@Override
public void put(byte[] key, byte[] value)
    throws DBException
{
    put(key, value, new WriteOptions());
}

@Override
public Snapshot put(byte[] key, byte[] value, WriteOptions options)
    throws DBException
{
    return writeInternal(new WriteBatchImpl().put(key, value), options);
}

@Override
public void delete(byte[] key)
    throws DBException
{
    writeInternal(new WriteBatchImpl().delete(key), new WriteOptions());
}

@Override
public Snapshot delete(byte[] key, WriteOptions options)
    throws DBException
{
    return writeInternal(new WriteBatchImpl().delete(key), options);
}
@Override
public void write(WriteBatch updates)
    throws DBException
{
    writeInternal((WriteBatchImpl) updates, new WriteOptions());
}

@Override
public Snapshot write(WriteBatch updates, WriteOptions options)
    throws DBException
{
    return writeInternal((WriteBatchImpl) updates, options);
}

public Snapshot writeInternal(WriteBatchImpl updates, WriteOptions options)
    throws DBException
{
    checkBackgroundException();
    mutex.lock();
    try {
        long sequenceEnd;
        if (updates.size() != 0) {
            makeRoomForWrite(false);
            // Get sequence numbers for this change set
            final long sequenceBegin = versions.getLastSequence() + 1;
            sequenceEnd = sequenceBegin + updates.size() - 1;

            // Reserve this sequence in the version set
            versions.setLastSequence(sequenceEnd);

            // Log write
            Slice record = writeWriteBatch(updates, sequenceBegin);
            try {
                log.addRecord(record, options.sync());
            } catch (IOException e) {
                throw Throwables.propagate(e);
            }

            // Update memtable
            updates.forEach(new InsertIntoHandler(memTable, sequenceBegin));
        } else {
            sequenceEnd = versions.getLastSequence();
        }

        if(options.snapshot()) {

return new SnapshotImpl(versions.getCurrent(), sequenceEnd);
} else {
    return null;
}
}
finally {
    mutex.unlock();
}

@Override
public WriteBatch createWriteBatch()
{
    checkBackgroundException();
    return new WriteBatchImpl();
}

@Override
public SeekingIteratorAdapter iterator()
{
    return iterator(new ReadOptions());
}

public SeekingIteratorAdapter iterator(ReadOptions options)
{
    checkBackgroundException();
    mutex.lock();
    try {
        DbIterator rawIterator = internalIterator();
        // filter any entries not visible in our snapshot
        SnapshotImpl snapshot = getSnapshot(options);
        SnapshotSeekingIterator snapshotIterator = new SnapshotSeekingIterator(rawIterator, snapshot,
        internalKeyComparator.getUserComparator());
        return new SeekingIteratorAdapter(snapshotIterator);
    }
    finally {
        mutex.unlock();
    }
}

SeekingIterable<InternalKey, Slice> internalIterable()
{
    return new SeekingIterable<InternalKey, Slice>()
    {
        @Override
        public DbIterator iterator()
DbIterator internalIterator()
{
    mutex.lock();
    try {
        // merge together the memTable, immutableMemTable, and tables in version set
        MemTableIterator iterator = null;
        if (immutableMemTable != null) {
            iterator = immutableMemTable.iterator();
        }
        Version current = versions.getCurrent();
        return new DbIterator(memTable.iterator(), iterator, current.getLevel0Files(), current.getLevelIterators(),
            internalKeyComparator);
    }
    finally {
        mutex.unlock();
    }
}

public Snapshot getSnapshot()
{
    checkBackgroundException();
    mutex.lock();
    try {
        return new SnapshotImpl(versions.getCurrent(), versions.getLastSequence());
    }
    finally {
        mutex.unlock();
    }
}

private SnapshotImpl getSnapshot(ReadOptions options)
{
    SnapshotImpl snapshot;
    if (options.snapshot() != null) {
        snapshot = (SnapshotImpl) options.snapshot();
    }
    else {
        snapshot = new SnapshotImpl(versions.getCurrent(), versions.getLastSequence());
        snapshot.close(); // To avoid holding the snapshot active..
    }
    return snapshot;
}
private void makeRoomForWrite(boolean force) {

    Preconditions.checkState(mutex.isHeldByCurrentThread());

    boolean allowDelay = !force;

    while (true) {
        // todo background processing system need work
        // if (!bg_error_.ok()) {
        //    // Yield previous error
        //    s = bg_error_;
        //    break;
        // } else
        if (allowDelay && versions.numberOfFilesInLevel(0) > L0_SLOWDOWN_WRITES_TRIGGER) {
            // We are getting close to hitting a hard limit on the number of
            // L0 files. Rather than delaying a single write by several
            // seconds when we hit the hard limit, start delaying each
            // individual write by 1ms to reduce latency variance. Also,
            // this delay hands over some CPU to the compaction thread in
            // case it is sharing the same core as the writer.
            try {
                mutex.unlock();
                Thread.sleep(1);
            }
            catch (InterruptedException e) {
                Thread.currentThread().interrupt();
                throw new RuntimeException(e);
            } finally {
                mutex.lock();
            }

            // Do not delay a single write more than once
            allowDelay = false;
        }
    else if (!force && memTable.approximateMemoryUsage() <= options.writeBufferSize()) {
        // There is room in current memtable
        break;
    }
    else if (immutableMemTable != null) {
        // We have filled up the current memtable, but the previous
        // one is still being compacted, so we wait.
        backgroundCondition.awaitUninterruptibly();
    }
    else if (versions.numberOfFilesInLevel(0) >= L0_STOP_WRITES_TRIGGER) {
        // There are too many level-0 files.

        Log(options_.info_log, "waiting...
        ");
        backgroundCondition.awaitUninterruptibly();
    }
else {
    // Attempt to switch to a new memtable and trigger compaction of old
    Preconditions.checkState(versions.getPrevLogNumber() == 0);

    // close the existing log
    try {
        log.close();
    }
    catch (IOException e) {
        throw new RuntimeException("Unable to close log file " + log.getFile(), e);
    }

    // open a new log
    long logNumber = versions.getNextFileNumber();
    try {
        this.log = Logs.createLogWriter(new File(databaseDir, Filename.logFileName(logNumber)),
            logNumber);
    }
    catch (IOException e) {
        throw new RuntimeException("Unable to open new log file " +
            new File(databaseDir, Filename.logFileName(logNumber)).getAbsoluteFile(), e);
    }

    // create a new mem table
    immutableMemTable = memTable;
    memTable = new MemTable(internalKeyComparator);

    // Do not force another compaction there is space available
    force = false;

    maybeScheduleCompaction();
}
}

public void compactMemTable()
    throws IOException
{
    mutex.lock();
    try {
        compactMemTableInternal();
    } finally {
        mutex.unlock();
    }
}
private void compactMemTableInternal()
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());
    if (immutableMemTable == null) {
        return;
    }

    try {
        // Save the contents of the memtable as a new Table
        VersionEdit edit = new VersionEdit();
        Version base = versions.getCurrent();
        writeLevel0Table(immutableMemTable, edit, base);

        if (shuttingDown.get()) {
            throw new DatabaseShutdownException("Database shutdown during memtable compaction");
        }

        // Replace immutable memtable with the generated Table
        edit.setPreviousLogNumber(0);
        edit.setLogNumber(log.getFileNumber());  // Earlier logs no longer needed
        versions.logAndApply(edit);

        immutableMemTable = null;

        deleteObsoleteFiles();
    } finally {
        backgroundCondition.signalAll();
    }
}

private void writeLevel0Table(MemTable mem, VersionEdit edit, Version base)
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    // skip empty mem table
    if (mem.isEmpty()) {
        return;
    }

    // write the memtable to a new sstable
    long fileNumber = versions.getNextFileNumber();
    pendingOutputs.add(fileNumber);
    mutex.unlock();
    FileMetaData meta;
try {
    meta = buildTable(mem, fileNumber);
} finally {
    mutex.lock();
}

pendingOutputs.remove(fileNumber);

// Note that if file size is zero, the file has been deleted and
// should not be added to the manifest.
int level = 0;
if (meta != null && meta.getFileSize() > 0) {
    Slice minUserKey = meta.getSmallest().getUserKey();
    Slice maxUserKey = meta.getLargest().getUserKey();
    if (base != null) {
        level = base.pickLevelForMemTableOutput(minUserKey, maxUserKey);
    }
    edit.addFile(level, meta);
}

private FileMetaData buildTable(SeekingIterable<InternalKey, Slice> data, long fileNumber)
    throws IOException {
    File file = new File(databaseDir, Filename.tableFileName(fileNumber));
    try {
        InternalKey smallest = null;
        InternalKey largest = null;
        FileChannel channel = new FileOutputStream(file).getChannel();
        try {
            TableBuilder tableBuilder = new TableBuilder(options, channel, new
            InternalUserComparator(internalKeyComparator));

            for (Entry<InternalKey, Slice> entry : data) {
                // update keys
                InternalKey key = entry.getKey();
                if (smallest == null) {
                    smallest = key;
                }
                largest = key;

                tableBuilder.add(key.encode(), entry.getValue());
            }

            tableBuilder.finish();
        } finally {
            try {
                channel.force(true);
            } finally {
                mutex.lock();
            }
        }
    }
}

Open Source Used In WAE 6.2
private void doCompactionWork(CompactionState compactionState)
    throws IOException
{
    Preconditions.checkNotNull(mutex.isHeldByCurrentThread());
    Preconditions.checkNotNullArgument(versions.numberOfBytesInLevel(compactionState.getCompaction().getLevel()) > 0);
    Preconditions.checkNotNullArgument(compactionState.builder == null);
    Preconditions.checkNotNullArgument(compactionState.outfile == null);

    // todo track snapshots
    compactionState.smallestSnapshot = versions.getLastSequence();

    // Release mutex while we're actually doing the compaction work
    mutex.unlock();
    try {
        MergingIterator iterator = versions.makeInputIterator(compactionState.compaction);

        Slice currentUserKey = null;
        boolean hasCurrentUserKey = false;

        long lastSequenceForKey = MAX_SEQUENCE_NUMBER;
        while (iterator.hasNext() && !shuttingDown.get()) {
            // always give priority to compacting the current mem table
            mutex.lock();
            //
try {
    compactMemTableInternal();
}
finally {
    mutex.unlock();
}

InternalKey key = iterator.peek().getKey();
if (compactionState.compaction.shouldStopBefore(key) && compactionState.builder != null) {
    finishCompactionOutputFile(compactionState);
}

// Handle key/value, add to state, etc.
boolean drop = false;
// todo if key doesn't parse (it is corrupted).
if (false /*!ParseInternalKey(key, &ikey)*/) {
    // do not hide error keys
currentUserKey = null;
    hasCurrentUserKey = false;
    lastSequenceForKey = MAX_SEQUENCE_NUMBER;
}
else {
    if (!hasCurrentUserKey || internalKeyComparator.getUserComparator().compare(key.getUserKey(),
currentUserKey) != 0) {
        // First occurrence of this user key
        currentUserKey = key.getUserKey();
        hasCurrentUserKey = true;
        lastSequenceForKey = MAX_SEQUENCE_NUMBER;
    }
    if (lastSequenceForKey <= compactionState.smallestSnapshot) {
        // Hidden by an newer entry for same user key
drop = true;  // (A)
    }
    else if (key.getValueType() == ValueType.DELETION &&
        key.getSequenceNumber() <= compactionState.smallestSnapshot &&
        compactionState.compaction.isBaseLevelForKey(key.getUserKey())) {
        // For this user key:
        // (1) there is no data in higher levels
        // (2) data in lower levels will have larger sequence numbers
        // (3) data in layers that are being compacted here and have
        // smaller sequence numbers will be dropped in the next
        // few iterations of this loop (by rule (A) above).
        // Therefore this deletion marker is obsolete and can be dropped.
drop = true;
    }
}
lastSequenceForKey = key.getSequenceNumber();
}

if (!drop) {
    // Open output file if necessary
    if (compactionState.builder == null) {
        openCompactionOutputFile(compactionState);
    }
    if (compactionState.builder.getEntryCount() == 0) {
        compactionState.currentSmallest = key;
    }
    compactionState.currentLargest = key;
    compactionState.builder.add(key.encode(), iterator.peek().getValue());
    // Close output file if it is big enough
    if (compactionState.builder.getFileSize() >=
        compactionState.compaction.getMaxOutputFileSize()) {
        finishCompactionOutputFile(compactionState);
    }
    iterator.next();
}

if (shuttingDown.get()) {
    throw new DatabaseShutdownException("DB shutdown during compaction");
}
if (compactionState.builder != null) {
    finishCompactionOutputFile(compactionState);
}
}
finally {
    mutex.lock();
}

// todo port CompactionStats code
installCompactionResults(compactionState);
}

private void openCompactionOutputFile(CompactionState compactionState)
    throws FileNotFoundException
{
    Preconditions.checkNotNull(compactionState, "compactionState is null");
    Preconditions.checkNotNull(compactionState.builder == null, "compactionState builder is not null");
    mutex.lock();
    try {
        long fileNumber = versions.getNextFileNumber();
    } finally {
        mutex.unlock();
    }
}
pendingOutputs.add(fileNumber);
compactionState.currentFileNumber = fileNumber;
compactionState.currentFileSize = 0;
compactionState.currentSmallest = null;
compactionState.currentLargest = null;

File file = new File(databaseDir, Filename.tableFileName(fileNumber));
compactionState.outfile = new FileOutputStream(file).getChannel();
compactionState.builder = new TableBuilder(options, compactionState.outfile, new InternalUserComparator(internalKeyComparator));
}
finally {
    mutex.unlock();
}

private void finishCompactionOutputFile(CompactionState compactionState)
    throws IOException {
    Preconditions.checkNotNull(compactionState, "compactionState is null");
    Preconditions.checkNotNull(compactionState.outfile);
    Preconditions.checkNotNull(compactionState.builder);

    long outputNumber = compactionState.currentFileNumber;
    Preconditions.checkNotNull(outputNumber);

    long currentEntries = compactionState.builder.getEntryCount();
    compactionState.builder.finish();

    long currentBytes = compactionState.builder.getFileSize();
    compactionState.currentFileSize = currentBytes;
    compactionState.totalBytes += currentBytes;

    FileMetaData currentFileMetaData = new FileMetaData(compactionState.currentFileNumber,
        compactionState.currentFileSize,
        compactionState.currentSmallest,
        compactionState.currentLargest);
    compactionState.outputs.add(currentFileMetaData);

    compactionState.builder = null;

    compactionState.outfile.force(true);
    compactionState.outfile.close();
    compactionState.outfile = null;

    if (currentEntries > 0) {
        // Verify that the table is usable
        tableCache.newIterator(outputNumber);
private void installCompactionResults(CompactionState compact) throws IOException {
    Preconditions.checkNotNull(mutex.isHeldByCurrentThread());

    // Add compaction outputs
    compact.compaction.addInputDeletions(compact.compaction.getEdit());
    int level = compact.compaction.getLevel();
    for (FileMetaData output : compact.outputs) {
        compact.compaction.getEdit().addFile(level + 1, output);
        pendingOutputs.remove(output.getNumber());
    }

    try {
        versions.logAndApply(compact.compaction.getEdit());
        deleteObsoleteFiles();
    }
    catch (IOException e) {
        // Compaction failed for some reason. Simply discard the work and try again later.

        // Discard any files we may have created during this failed compaction
        for (FileMetaData output : compact.outputs) {
            File file = new File(databaseDir, Filename.tableFileName(output.getNumber()));
            file.delete();
        }
        compact.outputs.clear();
    }
}

int numberOfFilesInLevel(int level) {
    return versions.getCurrent().numberOfFilesInLevel(level);
}

@Override
public long[] getApproximateSizes(Range... ranges) {
    Preconditions.checkNotNull(ranges, "ranges is null");
    long[] sizes = new long[ranges.length];
    for (int i = 0; i < ranges.length; i++) {
        Range range = ranges[i];
        sizes[i] = getApproximateSizes(range);
    }
    return sizes;
}
public long getApproximateSizes(Range range) {
    Version v = versions.getCurrent();

    InternalKey startKey = new InternalKey(Slices.wrappedBuffer(range.start()), SequenceNumber.MAX_SEQUENCE_NUMBER, ValueType.VALUE);
    InternalKey limitKey = new InternalKey(Slices.wrappedBuffer(range.limit()), SequenceNumber.MAX_SEQUENCE_NUMBER, ValueType.VALUE);
    long startOffset = v.getApproximateOffsetOf(startKey);
    long limitOffset = v.getApproximateOffsetOf(limitKey);

    return (limitOffset >= startOffset ? limitOffset - startOffset : 0);
}

public long getMaxNextLevelOverlappingBytes() {
    return versions.getMaxNextLevelOverlappingBytes();
}

private static class CompactionState {
    private final Compaction compaction;

    private final List<FileMetaData> outputs = newArrayList();

    private long smallestSnapshot;

    // State kept for output being generated
    private FileChannel outfile;
    private TableBuilder builder;

    // Current file being generated
    private long currentFileNumber;
    private long currentFileSize;
    private InternalKey currentSmallest;
    private InternalKey currentLargest;

    private long totalBytes;

    private CompactionState(Compaction compaction) {
        this.compaction = compaction;
    }

    public Compaction getCompaction() {
        return compaction;
    }
private static class ManualCompaction
{
    private final int level;
    private final Slice begin;
    private final Slice end;

    private ManualCompaction(int level, Slice begin, Slice end)
    {
        this.level = level;
        this.begin = begin;
        this.end = end;
    }
}

private WriteBatchImpl readWriteBatch(SliceInput record, int updateSize)
throws IOException
{
    WriteBatchImpl writeBatch = new WriteBatchImpl();
    int entries = 0;
    while (record.isReadable()) {
        entries++;
        ValueType valueType = ValueType.getValueTypeByPersistentId(record.readByte());
        if (valueType == VALUE) {
            Slice key = readLengthPrefixedBytes(record);
            Slice value = readLengthPrefixedBytes(record);
            writeBatch.put(key, value);
        } else if (valueType == DELETION) {
            Slice key = readLengthPrefixedBytes(record);
            writeBatch.delete(key);
        } else {
            throw new IllegalStateException("Unexpected value type "+ valueType);
        }
    }

    if (entries != updateSize) {
        throw new IOException(String.format("Expected %d entries in log record but found %s entries", updateSize,
entrys));
    }

    return writeBatch;
}

private Slice writeWriteBatch(WriteBatchImpl updates, long sequenceBegin)
{
    Slice record = Slices.allocate(SIZE_OF_LONG + SIZE_OF_INT + updates.getApproximateSize());
final SliceOutput sliceOutput = record.output();
sliceOutput.writeLong(sequenceBegin);
sliceOutput.writeInt(updates.size());
updates.forEach(new Handler()
{
    @Override
    public void put(Slice key, Slice value)
    {
        sliceOutput.writeByte(VALUE.getPersistentId());
        writeLengthPrefixedBytes(sliceOutput, key);
        writeLengthPrefixedBytes(sliceOutput, value);
    }

    @Override
    public void delete(Slice key)
    {
        sliceOutput.writeByte(DELETION.getPersistentId());
        writeLengthPrefixedBytes(sliceOutput, key);
    }
});
return record.slice(0, sliceOutput.size());
}

private static class InsertIntoHandler implements Handler
{
    private long sequence;
    private final MemTable memTable;

    public InsertIntoHandler(MemTable memTable, long sequenceBegin)
    {
        this.memTable = memTable;
        this.sequence = sequenceBegin;
    }

    @Override
    public void put(Slice key, Slice value)
    {
        memTable.add(sequence++, VALUE, key, value);
    }

    @Override
    public void delete(Slice key)
    {
        memTable.add(sequence++, DELETION, key, Slices.EMPTY_SLICE);
    }
}

public static class DatabaseShutdownException extends DBException {
private Object suspensionMutex = new Object();
private int suspensionCounter=0;

@Override
public void suspendCompactions() throws InterruptedException {
    compactionExecutor.execute(new Runnable() {
        @Override
        public void run() {
            try {
                synchronized (suspensionMutex) {
                    suspensionCounter ++;
                    suspensionMutex.notifyAll();
                    while( suspensionCounter > 0 && !compactionExecutor.isShutdown()) {
                        suspensionMutex.wait(500);
                    }
                }
            } catch (InterruptedException e) {
            }
        }
    });
    synchronized (suspensionMutex) {
        while(suspensionCounter < 1) {
            suspensionMutex.wait();
        }
    }
}

@Override
public void resumeCompactions() {
    synchronized (suspensionMutex) {
        suspensionCounter --;
    }
}
suspensionMutex.notifyAll();
}
}

@Override
public void compactRange(byte[] begin, byte[] end) throws DBException {
    throw new UnsupportedOperationException("Not yet implemented");
}
}
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 */
package org.iq80.leveldb.impl;

import org.iq80.leveldb.Snapshot;
import java.util.concurrent.atomic.AtomicBoolean;

public class SnapshotImpl implements Snapshot {
    private final AtomicBoolean closed = new AtomicBoolean();
    private final Version version;
    private final long lastSequence;
    SnapshotImpl(Version version, long lastSequence) {
        this.version = version;
        this.lastSequence = lastSequence;
        this.version.retain();
    }

    @Override
    public void close() {
    }
}
// This is an end user API. he might screw up and close multiple times.
// but we don't want the version reference count going bad.
if(closed.compareAndSet(false, true)) {
    this.version.release();
}

public long getLastSequence() {
    return lastSequence;
}

public Version getVersion() {
    return version;
}

@Override
public String toString() {
    return Long.toString(lastSequence);
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    SnapshotImpl snapshot = (SnapshotImpl) o;
    if (lastSequence != snapshot.lastSequence) return false;
    if (!version.equals(snapshot.version)) return false;
    return true;
}

@Override
public int hashCode() {
    int result = version.hashCode();
    result = 31 * result + (int) (lastSequence ^ (lastSequence >>> 32));
    return result;
}

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 */
import com.google.common.base.Preconditions;
import com.google.common.collect.Maps;
import org.iq80.leveldb.WriteBatch;
import org.iq80.leveldb.util.Slice;
import org.iq80.leveldb.util.Slices;

import java.util.List;
import java.util.Map.Entry;

import static com.google.common.collect.Lists.newArrayList;

public class WriteBatchImpl implements WriteBatch {
    private List<Entry<Slice, Slice>> batch = newArrayList();
    private int approximateSize;

    public int getApproximateSize() {
        return approximateSize;
    }

    public int size() {
        return batch.size();
    }

    @Override
    public WriteBatchImpl put(byte[] key, byte[] value) {
        Preconditions.checkNotNull(key, "key is null");
        Preconditions.checkNotNull(value, "value is null");
        batch.add(Maps.immutableEntry(Slices.wrappedBuffer(key), Slices.wrappedBuffer(value)));
        approximateSize += 12 + key.length + value.length;
        return this;
    }

    public WriteBatchImpl put(Slice key, Slice value) {
{ Preconditions.checkNotNull(key, "key is null");
  Preconditions.checkNotNull(value, "value is null");
  batch.add(Maps.immutableEntry(key, value));
  approximateSize += 12 + key.length() + value.length();
  return this;
}

@Override
public WriteBatchImpl delete(byte[] key)
{
  Preconditions.checkNotNull(key, "key is null");
  batch.add(Maps.immutableEntry(Slices.wrappedBuffer(key), (Slice) null));
  approximateSize += 6 + key.length;
  return this;
}

public WriteBatchImpl delete(Slice key)
{
  Preconditions.checkNotNull(key, "key is null");
  batch.add(Maps.immutableEntry(key, (Slice) null));
  approximateSize += 6 + key.length();
  return this;
}

@Override
public void close()
{
}

public void forEach(Handler handler)
{
  for (Entry<Slice, Slice> entry : batch) {
    Slice key = entry.getKey();
    Slice value = entry.getValue();
    if (value != null) {
      handler.put(key, value);
    } else {
      handler.delete(key);
    }
  }
}

public static interface Handler
{
  void put(Slice key, Slice value);
}
void delete(Slice key);
}
}
/*
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 * under the License.
 */
package org.iq80.leveldb.util;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;

public class BasicSliceOutput extends SliceOutput {
    private final Slice slice;
    private int size;

    protected BasicSliceOutput(Slice slice) {
        this.slice = slice;
    }

    @Override
    public void reset() {
        size = 0;
    }

    @Override
    public int size() {
        return size;
    }

    @Override
    public void write(int index, Slice value) throws IOException {
        throw new UnsupportedOperationException();
    }
}

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;

public class BasicSliceOutput extends SliceOutput {
    private final Slice slice;
    private int size;

    protected BasicSliceOutput(Slice slice) {
        this.slice = slice;
    }

    @Override
    public void reset() {
        size = 0;
    }

    @Override
    public int size() {
        return size;
    }

    @Override
    public void write(int index, Slice value) throws IOException {
        throw new UnsupportedOperationException();
    }
}
```java
@Override
public boolean isWritable()
{
    return writableBytes() > 0;
}

@Override
public int writableBytes()
{
    return slice.length() - size;
}

@Override
public void writeByte(int value)
{
    slice.setByte(size++, value);
}

@Override
public void writeShort(int value)
{
    slice.setShort(size, value);
    size += 2;
}

@Override
public void writeInt(int value)
{
    slice.setInt(size, value);
    size += 4;
}

@Override
public void writeLong(long value)
{
    slice.setLong(size, value);
    size += 8;
}

@Override
public void writeBytes(byte[] source, int sourceIndex, int length)
{
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}
```
@Override
public void writeBytes(byte[] source) {
    writeBytes(source, 0, source.length);
}

@Override
public void writeBytes(Slice source) {
    writeBytes(source, 0, source.length());
}

@Override
public void writeBytes(SliceInput source, int length) {
    if (length > source.available()) {
        throw new IndexOutOfBoundsException();
    }
    writeBytes(source.readBytes(length));
}

@Override
public void writeBytes(Slice source, int sourceIndex, int length) {
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}

@Override
public void writeBytes(ByteBuffer source) {
    int length = source.remaining();
    slice.setBytes(size, source);
    size += length;
}

@Override
public int writeBytes(InputStream in, int length) throws IOException {
    int writtenBytes = slice.setBytes(size, in, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}

@Override
public int writeBytes(ScatteringByteChannel in, int length)
    throws IOException
{
    int writtenBytes = slice.setBytes(size, in, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}

@Override
public int writeBytes(FileChannel in, int position, int length)
    throws IOException
{
    int writtenBytes = slice.setBytes(size, in, position, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}

@Override
public void writeZero(int length)
{
    if (length == 0) {
        return;
    }
    if (length < 0) {
        throw new IllegalArgumentException(
            "length must be 0 or greater than 0.");
    }
    int nLong = length >>> 3;
    int nBytes = length & 7;
    for (int i = nLong; i > 0; i--) {
        writeLong(0);
    }
    if (nBytes == 4) {
        writeInt(0);
    } else if (nBytes < 4) {
        for (int i = nBytes; i > 0; i--) {
            writeByte((byte) 0);
        }
    } else {
        writeInt(0);
        for (int i = nBytes - 4; i > 0; i--) {
            writeByte((byte) 0);
        }
    }
@Override
public Slice slice()
{
    return slice.slice(0, size);
}

@Override
public ByteBuffer toByteBuffer()
{
    return slice.toByteBuffer(0, size);
}

@Override
public String toString()
{
    return getClass().getSimpleName() + '(' +
            "size=" + size + ", " +
            "capacity=" + slice.length() +
            ')';
}

public String toString(Charset charset)
{
    return slice.toString(0, size, charset);
}

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*/
package org.iq80.leveledb.util;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;

public class DynamicSliceOutput extends SliceOutput {
    private Slice slice;
    private int size;

    public DynamicSliceOutput(int estimatedSize) {
        this.slice = new Slice(estimatedSize);
    }

    @Override
    public void reset() {
        size = 0;
    }

    @Override
    public int size() {
        return size;
    }

    @Override
    public boolean isWritable() {
        return writableBytes() > 0;
    }

    @Override
    public int writableBytes() {
        return slice.length() - size;
    }

    @Override
    public void writeByte(int value) {
        slice = Slices.ensureSize(slice, size + 1);
        slice.setByte(size++, value);
    }

    @Override
public void writeShort(int value) {
    slice = Slices.ensureSize(slice, size + 2);
    slice.setShort(size, value);
    size += 2;
}

@Override
public void writeInt(int value) {
    slice = Slices.ensureSize(slice, size + 4);
    slice.setInt(size, value);
    size += 4;
}

@Override
public void writeLong(long value) {
    slice = Slices.ensureSize(slice, size + 8);
    slice.setLong(size, value);
    size += 8;
}

@Override
public void writeBytes(byte[] source) {
    writeBytes(source, 0, source.length);
}

@Override
public void writeBytes(byte[] source, int sourceIndex, int length) {
    slice = Slices.ensureSize(slice, size + length);
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}

@Override
public void writeBytes(Slice source) {
    writeBytes(source, 0, source.length());
}

@Override
public void writeBytes(SliceInput source, int length) {
    if (length > source.available()) {
        throw new IndexOutOfBoundsException();
    }
@Override
public void writeBytes(Slice source, int sourceIndex, int length)
{
    slice = Slices.ensureSize(slice, size + length);
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}

@Override
public void writeBytes(ByteBuffer source)
{
    int length = source.remaining();
    slice = Slices.ensureSize(slice, size + length);
    slice.setBytes(size, source);
    size += length;
}

@Override
public int writeBytes(InputStream in, int length)
throws IOException
{
    slice = Slices.ensureSize(slice, size + length);
    int writtenBytes = slice.setBytes(size, in, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}

@Override
public int writeBytes(ScatteringByteChannel in, int length)
throws IOException
{
    slice = Slices.ensureSize(slice, size + length);
    int writtenBytes = slice.setBytes(size, in, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}

@Override
public int writeBytes(FileChannel in, int position, int length)
 throws IOException
{  
  slice = Slices.ensureSize(slice, size + length);
  int writtenBytes = slice.setBytes(size, in, position, length);
  if (writtenBytes > 0) {
    size += writtenBytes;
  }
  return writtenBytes;
}

@Override
public void writeZero(int length) {
  if (length == 0) {
    return;
  }
  if (length < 0) {
    throw new IllegalArgumentException("length must be 0 or greater than 0.");
  }
  slice = Slices.ensureSize(slice, size + length);
  int nLong = length >>> 3;
  int nBytes = length & 7;
  for (int i = nLong; i > 0; i--) {
    writeLong(0);
  }
  if (nBytes == 4) {
    writeInt(0);
  } else if (nBytes < 4) {
    for (int i = nBytes; i > 0; i--) {
      writeByte((byte) 0);
    }
  } else {
    writeInt(0);
    for (int i = nBytes - 4; i > 0; i--) {
      writeByte((byte) 0);
    }
  }
}

@Override
public Slice slice() {
  return slice.slice(0, size);
}

@Override
public ByteBuffer toByteBuffer()
{
    return slice.toByteBuffer(0, size);
}

@Override
public String toString()
{
    return getClass().getSimpleName() + '(' +
    "size=" + size +", " +
    "capacity=" + slice.length() +
    ');
}

@Override
public String toString(Charset charset)
{
    return slice.toString(0, size, charset);
}

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 */
package org.iq80.levedb.util;

import com.google.common.base.Preconditions;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.channels.ClosedChannelException;
import java.nio.channels.FileChannel;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;
import java.util.Arrays;
import static java.nio.ByteOrder.LITTLE_ENDIAN;
import static org.iq80.leveldb.util.SizeOf.*;

/**
* Little Endian slice of a byte array.
*/
public final class Slice implements Comparable<Slice>
{
    private final byte[] data;
    private final int offset;
    private final int length;
    private int hash;

    public Slice(int length)
    {
        data = new byte[length];
        this.offset = 0;
        this.length = length;
    }

    public Slice(byte[] data)
    {
        Preconditions.checkNotNull(data, "array is null");
        this.data = data;
        this.offset = 0;
        this.length = data.length;
    }

    public Slice(byte[] data, int offset, int length)
    {
        Preconditions.checkNotNull(data, "array is null");
        this.data = data;
        this.offset = offset;
        this.length = length;
    }

    public int length()
    {
        return length;
    }

    /**
     * Length of this slice.
     */
    public int length()
* Gets the array underlying this slice.
* /
public byte[] getRawArray()
{
    return data;
}

/**
 * Gets the offset of this slice in the underlying array.
 * /
public int getRawOffset()
{
    return offset;
}

/**
 * Gets a byte at the specified absolute [code index] in this buffer.
 * @throws IndexOutOfBoundsException if the specified [code index] is less than [code 0] or
 * [code index + 1] is greater than [code this.capacity]
 */
public byte getByte(int index)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_BYTE, this.length);
    index += offset;
    return data[index];
}

/**
 * Gets an unsigned byte at the specified absolute [code index] in this
 * buffer.
 * @throws IndexOutOfBoundsException if the specified [code index] is less than [code 0] or
 * [code index + 1] is greater than [code this.capacity]
 */
public short getUnsignedByte(int index)
{
    return (short) (getByte(index) & 0xFF);
}

/**
 * Gets a 16-bit short integer at the specified absolute [code index] in
 * this slice.
 * @throws IndexOutOfBoundsException if the specified [code index] is less than [code 0] or
 * [code index + 2] is greater than [code this.capacity]
 */
public short getShort(int index)
{  Preconditions.checkPositionIndexes(index, index + SIZE_OF_SHORT, this.length);  index += offset;  return (short) (data[index] & 0xFF | data[index + 1] << 8);
}

/**
 * Gets a 32-bit integer at the specified absolute {code index} in
 * this buffer.
 * @throws IndexOutOfBoundsException if the specified {code index} is less than {code 0} or
 * {code index + 4} is greater than {code this.capacity}
 */
public int getInt(int index)
{
  Preconditions.checkPositionIndexes(index, index + SIZE_OF_INT, this.length);  index += offset;
  return (data[index] & 0xff) |
    (data[index + 1] & 0xff) << 8 |
    (data[index + 2] & 0xff) << 16 |
    (data[index + 3] & 0xff) << 24;
}

/**
 * Gets a 64-bit long integer at the specified absolute {code index} in
 * this buffer.
 * @throws IndexOutOfBoundsException if the specified {code index} is less than {code 0} or
 * {code index + 8} is greater than {code this.capacity}
 */
public long getLong(int index)
{
  Preconditions.checkPositionIndexes(index, index + SIZE_OF_LONG, this.length);  index += offset;
  return ((long) data[index] & 0xff) |
    ((long) data[index + 1] & 0xff) << 8 |
    ((long) data[index + 2] & 0xff) << 16 |
    ((long) data[index + 3] & 0xff) << 24 |
    ((long) data[index + 4] & 0xff) << 32 |
    ((long) data[index + 5] & 0xff) << 40 |
    ((long) data[index + 6] & 0xff) << 48 |
    ((long) data[index + 7] & 0xff) << 56;
}

/**
 * Transfers this buffer's data to the specified destination starting at
 * the specified absolute {code index}.
 */
public void getBytes(int index, Slice dst, int dstIndex, int length)
{
    getBytes(index, dst.data, dstIndex, length);
}

public void getBytes(int destinationIndex, int length)
{
    Preconditions.checkPositionIndexes(destinationIndex, length, this.length);
    System.arraycopy(data, index, destination, destinationIndex, length);
}

public byte[] getBytes(int index, int length)
{
    index += offset;
    if (index == 0) {
        return Arrays.copyOf(data, length);
    } else {
        byte[] value = new byte[length];
        System.arraycopy(data, index, value, 0, length);
        return value;
    }
}

public byte[] getBytes(int index, int length)
{
    index += offset;
    if (index == 0) {
        return Arrays.copyOf(data, length);
    } else {
        byte[] value = new byte[length];
        System.arraycopy(data, index, value, 0, length);
        return value;
    }
}
public void getBytes(int index, ByteBuffer destination) {
    Preconditions.checkPositionIndex(index, this.length);
    index += offset;
    destination.put(data, index, Math.min(length, destination.remaining()));
}

public void getBytes(int index, OutputStream out, int length) throws IOException {
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    out.write(data, index, length);
}

public int getBytes(int index, Channel channel, int length) throws IOException {
    Preconditions.checkPositionIndex(index, this.length);
    index += offset;
    return channel.write(data, index, length);
}

return value;
}

/**
 * Transfers this buffer’s data to the specified destination starting at
 * the specified absolute [@code index] until the destination's position
 * reaches its limit.
 *
 * @throws IndexOutOfBoundsException if the specified [@code index] is less than [@code 0] or
 * if [@code index + dst.remaining()] is greater than
 * [@code this.capacity]
 */

public void getBytes(int index, ByteBuffer destination)
{
    Preconditions.checkPositionIndex(index, this.length);
    index += offset;
    destination.put(data, index, Math.min(length, destination.remaining()));
}
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    return out.write(ByteBuffer.wrap(data, index, length));
}

/**
 * Sets the specified 16-bit short integer at the specified absolute
 * [index] in this buffer. The 16 high-order bits of the specified
 * value are ignored.
 *
 * @throws IndexOutOfBoundsException if the specified [index] is less than [0] or
 * [index + 2] is greater than [this.capacity]
 */
public void setShort(int index, int value)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_SHORT, this.length);
    index += offset;
    data[index] = (byte) (value);
    data[index + 1] = (byte) (value >>> 8);
}

/**
 * Sets the specified 32-bit integer at the specified absolute
 * [index] in this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified [index] is less than [0] or
 * [index + 4] is greater than [this.capacity]
 */
public void setInt(int index, int value)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_INT, this.length);
    index += offset;
    data[index] = (byte) (value);
    data[index + 1] = (byte) (value >>> 8);
    data[index + 2] = (byte) (value >>> 16);
    data[index + 3] = (byte) (value >>> 24);
}

/**
 * Sets the specified 64-bit long integer at the specified absolute
 * [index] in this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified [index] is less than [0] or
 * [index + 8] is greater than [this.capacity]
 */
public void setLong(int index, long value) {
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_LONG, this.length);
    index += offset;
    data[index] = (byte) (value);
    data[index + 1] = (byte) (value >>> 8);
    data[index + 2] = (byte) (value >>> 16);
    data[index + 3] = (byte) (value >>> 24);
    data[index + 4] = (byte) (value >>> 32);
    data[index + 5] = (byte) (value >>> 40);
    data[index + 6] = (byte) (value >>> 48);
    data[index + 7] = (byte) (value >>> 56);
}

/**
 * Sets the specified byte at the specified absolute {code index} in this
 * buffer.  The 24 high-order bits of the specified value are ignored.
 *
 * @throws IndexOutOfBoundsException if the specified {code index} is less than {code 0} or
 * {code index + 1} is greater than {code this.capacity}
 */
public void setByte(int index, int value) {
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_BYTE, this.length);
    index += offset;
    data[index] = (byte) value;
}

/**
 * Transfers the specified source buffer's data to this buffer starting at
 * the specified absolute {code index}.
 *
 * @param srcIndex the first index of the source
 * @param length the number of bytes to transfer
 * @throws IndexOutOfBoundsException if the specified {code index} is less than {code 0},
 * if the specified {code srcIndex} is less than {code 0},
 * if {code index + length} is greater than
 * {code this.capacity}, or
 * if {code srcIndex + length} is greater than
 * {code src.capacity}
 */
public void setBytes(int index, Slice src, int srcIndex, int length) {
    setBytes(index, src.data, src.offset + srcIndex, length);
}
* Transfers the specified source array's data to this buffer starting at
* the specified absolute [@code index].
*
* @throws IndexOutOfBoundsException if the specified [@code index] is less than [@code 0],
* if the specified [@code srcIndex] is less than [@code 0],
* if [@code index + length] is greater than
* [@code this.capacity], or
* if [@code srcIndex + length] is greater than [@code src.length]
*/
public void setBytes(int index, byte[] source, int sourceIndex, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    Preconditions.checkPositionIndexes(sourceIndex, sourceIndex + length, source.length);
    index += offset;
    System.arraycopy(source, sourceIndex, data, index, length);
}

/**
 * Transfers the specified source buffer's data to this buffer starting at
 * the specified absolute [@code index] until the source buffer's position
 * reaches its limit.
 *
 * @throws IndexOutOfBoundsException if the specified [@code index] is less than [@code 0] or
 * if [@code index + src.remaining()] is greater than
 * [@code this.capacity]
 */
public void setBytes(int index, ByteBuffer source)
{
    Preconditions.checkPositionIndexes(index, index + source.remaining(), this.length);
    index += offset;
    source.get(data, index, source.remaining());
}

/**
 * Transfers the content of the specified source stream to this buffer
 * starting at the specified absolute [@code index].
 *
 * @param length the number of bytes to transfer
 * @return the actual number of bytes read in from the specified channel.
 *         [@code -1] if the specified channel is closed.
 * @throws IndexOutOfBoundsException if the specified [@code index] is less than [@code 0] or
 * if [@code index + length] is greater than [@code this.capacity]
 * @throws java.io.IOException if the specified stream threw an exception during I/O
 */
public int setBytes(int index, InputStream in, int length)
throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    return in.read(data, index, length);
}
index += offset;
int readBytes = 0;
do {
    int localReadBytes = in.read(data, index, length);
    if (localReadBytes < 0) {
        if (readBytes == 0) {
            return -1;
        }
        else {
            break;
        }
    }
    readBytes += localReadBytes;
    index += localReadBytes;
    length -= localReadBytes;
} while (length > 0);

return readBytes;
}

/**
 * Transfers the content of the specified source channel to this buffer
 * starting at the specified absolute { @code index }. 
 * @param length the maximum number of bytes to transfer
 * @return the actual number of bytes read in from the specified channel.
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
 * if { @code index + length } is greater than { @code this.capacity }
 * @throws java.io.IOException if the specified channel threw an exception during I/O
 */
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    ByteBuffer buf = ByteBuffer.wrap(data, index, length);
    int readBytes = 0;
    do {
        int localReadBytes;
        try {
            localReadBytes = in.read(buf);
        } catch (ClosedChannelException e) {
            localReadBytes = -1;
        }
        if (localReadBytes < 0) {


if (readBytes == 0) {
    return -1;
} else {
    break;
}
else if (localReadBytes == 0) {
    break;
    readBytes += localReadBytes;
} while (readBytes < length);

return readBytes;
}

public int setBytes(int index, FileChannel in, int position, int length) throws IOException {
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    ByteBuffer buf = ByteBuffer.wrap(data, index, length);
    int readBytes = 0;
    do {
        int localReadBytes;
        try {
            localReadBytes = in.read(buf, position + readBytes);
        } catch (ClosedChannelException e) {
            localReadBytes = -1;
        }
        if (localReadBytes < 0) {
            if (readBytes == 0) {
                return -1;
            } else {
                break;
            }
        } else if (localReadBytes == 0) {
            break;
        }
        readBytes += localReadBytes;
    } while (readBytes < length);

    return readBytes;
}
public Slice copySlice()
{
    return copySlice(0, length);
}

/**
 * Returns a copy of this buffer's sub-region. Modifying the content of
 * the returned buffer or this buffer does not affect each other at all.
 */
public Slice copySlice(int index, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);

    index += offset;
    byte[] copiedArray = new byte[length];
    System.arraycopy(data, index, copiedArray, 0, length);
    return new Slice(copiedArray);
}

public byte[] copyBytes()
{
    return copyBytes(0, length);
}

public byte[] copyBytes(int index, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    if (index == 0) {
      return Arrays.copyOf(data, length);
    } else {
      byte[] value = new byte[length];
      System.arraycopy(data, index, value, 0, length);
      return value;
    }
}

/**
 * Returns a slice of this buffer's readable bytes. Modifying the content
 * of the returned buffer or this buffer affects each other's content
 * while they maintain separate indexes and marks.
 */
public Slice slice()
{
    return slice(0, length);
}
/**
 * Returns a slice of this buffer's sub-region. Modifying the content of
 * the returned buffer or this buffer affects each other's content while
 * they maintain separate indexes and marks.
 */
public Slice slice(int index, int length) {
    if (index == 0 && length == this.length) {
        return this;
    }
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    if (index >= 0 && length == 0) {
        return Slices.EMPTY_SLICE;
    }
    return new Slice(data, offset + index, length);
}

/**
 * Creates an input stream over this slice.
 */
public SliceInput input() {
    return new SliceInput(this);
}

/**
 * Creates an output stream over this slice.
 */
public SliceOutput output() {
    return new BasicSliceOutput(this);
}

/**
 * Converts this buffer's readable bytes into a NIO buffer. The returned
 * buffer shares the content with this buffer.
 */
public ByteBuffer toByteBuffer() {
    return toByteBuffer(0, length);
}

/**
 * Converts this buffer's sub-region into a NIO buffer. The returned
 * buffer shares the content with this buffer.
 */
public ByteBuffer toByteBuffer(int index, int length)
Preconditions.checkPositionIndexes(index, index + length, this.length);
index += offset;
return ByteBuffer.wrap(data, index, length).order(LITTLE_ENDIAN);
}

@override
public boolean equals(Object o)
{
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    Slice slice = (Slice) o;

    // do lengths match
    if (length != slice.length) {
        return false;
    }

    // if arrays have same base offset, some optimizations can be taken...
    if (offset == slice.offset && data == slice.data) {
        return true;
    }
    for (int i = 0; i < length; i++) {
        if (data[offset + i] != slice.data[slice.offset + i]) {
            return false;
        }
    }
    return true;
}

@override
public int hashCode()
{
    if (hash != 0) {
        return hash;
    }
    int result = length;
    for (int i = offset; i < offset + length; i++) {
        result = 31 * result + data[i];
    }
    if (result == 0) {
        result = 1;
    }
    return result;
}
hash = result;
return hash;

/**
 * Compares the content of the specified buffer to the content of this
 * buffer. This comparison is performed byte by byte using an unsigned
 * comparison.
 */
public int compareTo(Slice that)
{
    if (this == that) {
        return 0;
    }
    if (this.data == that.data && length == that.length && offset == that.offset) {
        return 0;
    }

    int minLength = Math.min(this.length, that.length);
    for (int i = 0; i < minLength; i++) {
        int thisByte = 0xFF & this.data[this.offset + i];
        int thatByte = 0xFF & that.data[that.offset + i];
        if (thisByte != thatByte) {
            return (thisByte) - (thatByte);
        }
    }
    return this.length - that.length;
}

/**
 * Decodes this buffer's readable bytes into a string with the specified
 * character set name.
 */
public String toString(Charset charset)
{
    return toString(0, length, charset);
}

/**
 * Decodes this buffer's sub-region into a string with the specified
 * character set.
 */
public String toString(int index, int length,Charset charset)
{
    if (length == 0) {
        return "";
    }
return Slices.decodeString(toByteBuffer(index, length), charset);
}

public String toString()
{
    return getClass().getSimpleName() + '(' +
            "length=" + length() +
        ');
}
}
/**
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 */
package org.iq80.leveldb.util;

import com.google.common.base.Preconditions;
import javax.xml.transform.Source;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.CharBuffer;
import java.nio.charset.CharacterCodingException;
import java.nio.charset.Charset;
import java.nio.charset.CharsetDecoder;
import java.nio.charset.CharsetEncoder;
import java.nio.charset.CoderResult;
import java.nio.charset.CodingErrorAction;
import java.util.IdentityHashMap;
import java.util.Map;
public final class Slices
{
    public static Slice readLengthPrefixedBytes(SliceInput sliceInput)
```java
{  
    int length = VariableLengthQuantity.readVariableLengthInt(sliceInput);
    return sliceInput.readBytes(length);
}

public static void writeLengthPrefixedBytes(SliceOutput sliceOutput, Slice value)  
{  
    VariableLengthQuantity.writeVariableLengthInt(value.length(), sliceOutput);
    sliceOutput.writeBytes(value);
}

/**  
* A buffer whose capacity is [@code 0].  
*/  
public static final Slice EMPTY_SLICE = new Slice(0);

private Slices()  
{  
}

public static Slice ensureSize(Slice existingSlice, int minWritableBytes)  
{  
    if (existingSlice == null)  
    {  
        existingSlice = EMPTY_SLICE;
    }

    if (minWritableBytes <= existingSlice.length()) {  
        return existingSlice;
    }

    int newCapacity;
    if (existingSlice.length() == 0) {  
        newCapacity = 1;
    }  
    else {  
        newCapacity = existingSlice.length();
    }

    int minNewCapacity = existingSlice.length() + minWritableBytes;
    while (newCapacity < minNewCapacity) {  
        newCapacity <<= 1;
    }

    Slice newSlice = Slices.allocate(newCapacity);
    newSlice.setBytes(0, existingSlice, 0, existingSlice.length());
    return newSlice;
}

public static Slice allocate(int capacity)
```
if (capacity == 0) {
    return EMPTY_SLICE;
}
return new Slice(capacity);

public static Slice wrappedBuffer(byte[] array)
{
    if (array.length == 0) {
        return EMPTY_SLICE;
    }
    return new Slice(array);
}

public static Slice copiedBuffer(ByteBuffer source, int sourceOffset, int length)
{
    Preconditions.checkNotNull(source, "source is null");
    int newPosition = source.position() + sourceOffset;
    return copiedBuffer((ByteBuffer) source.duplicate().order(ByteOrder.LITTLE_ENDIAN).clear().limit(newPosition + length).position(newPosition));
}

public static Slice copiedBuffer(ByteBuffer source)
{
    Preconditions.checkNotNull(source, "source is null");
    Slice copy = allocate(source.limit() - source.position());
    copy.setBytes(0, source.duplicate().order(ByteOrder.LITTLE_ENDIAN));
    return copy;
}

public static Slice copiedBuffer(String string, Charset charset)
{
    Preconditions.checkNotNull(string, "string is null");
    Preconditions.checkNotNull(charset, "charset is null");
    return wrappedBuffer(string.getBytes(charset));
}

public static ByteBuffer encodeString(CharBuffer src, Charset charset)
{
    final CharsetEncoder encoder = getEncoder(charset);
    final ByteBuffer dst = ByteBuffer.allocate(
        (int) ((double) src.remaining() * encoder.maxBytesPerChar()));
    try {
        CoderResult cr = encoder.encode(src, dst, true);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
    }
}
cr = encoder.flush(dst);
if (!cr.isUnderflow()) {
    cr.throwException();
}
}

catch (CharacterCodingException x) {
    throw new IllegalStateException(x);
}
dst.flip();
return dst;

public static String decodeString(ByteBuffer src, Charset charset) {
    final CharsetDecoder decoder = getDecoder(charset);
    final CharBuffer dst = CharBuffer.allocate((int) ((double) src.remaining() * decoder.maxCharsPerByte()));
    try {
        CoderResult cr = decoder.decode(src, dst, true);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
        cr = decoder.flush(dst);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
    }
    catch (CharacterCodingException x) {
        throw new IllegalStateException(x);
    }
    return dst.flip().toString();
}

/**
 * Toggles the endianness of the specified 16-bit short integer.
 */
public static short swapShort(short value) {
    return (short) (value << 8 | value >>> 8 & 0xff);
}

/**
 * Toggles the endianness of the specified 32-bit integer.
 */
public static int swapInt(int value) {
    return swapShort((short) value) << 16 |
swapShort((short) (value >>> 16)) & 0xffff;

/**
 * Toggles the endianness of the specified 64-bit long integer.
 */
public static long swapLong(long value)
{
    return (long) swapInt((int) value) << 32 |
            swapInt((int) (value >>> 32)) & 0xffffffffL;
}

private static final ThreadLocal<Map<Charset, CharsetEncoder>> encoders =
    new ThreadLocal<Map<Charset, CharsetEncoder>>()
    {
        @Override
        protected Map<Charset, CharsetEncoder> initialValue()
        {
            return new IdentityHashMap<Charset, CharsetEncoder>();
        }
    };

private static final ThreadLocal<Map<Charset, CharsetDecoder>> decoders =
    new ThreadLocal<Map<Charset, CharsetDecoder>>()
    {
        @Override
        protected Map<Charset, CharsetDecoder> initialValue()
        {
            return new IdentityHashMap<Charset, CharsetDecoder>();
        }
    };

/**
 * Returns a cached thread-local { @link CharsetEncoder} for the specified
 * <tt>charset</tt>.
 */
private static CharsetEncoder getEncoder(Charset charset)
{
    if (charset == null) {
        throw new NullPointerException("charset");
    }
    Map<Charset, CharsetEncoder> map = encoders.get();
    CharsetEncoder e = map.get(charset);
    if (e != null) {
        e.reset();
        e.onMalformedInput(CodingErrorAction.REPLACE);
        e.onUnmappableCharacter(CodingErrorAction.REPLACE);
return e;
}

e = charset.newEncoder();
e.onMalformedInput(CodingErrorAction.REPLACE);
e.onUnmappableCharacter(CodingErrorAction.REPLACE);
map.put(charset, e);
return e;
}

/**
 * Returns a cached thread-local { @link CharsetDecoder} for the specified
 * <tt>charset</tt>.
 */
private static CharsetDecoder getDecoder(Charset charset)
{
    if (charset == null) {
        throw new NullPointerException("charset");
    }

    Map<Charset, CharsetDecoder> map = decoders.get();
    CharsetDecoder d = map.get(charset);
    if (d != null) {
        d.reset();
        d.onMalformedInput(CodingErrorAction.REPLACE);
        d.onUnmappableCharacter(CodingErrorAction.REPLACE);
        return d;
    }

    d = charset.newDecoder();
d.onMalformedInput(CodingErrorAction.REPLACE);
d.onUnmappableCharacter(CodingErrorAction.REPLACE);
map.put(charset, d);
return d;
}

---

### 7.214 leveldbjni-all 1.8

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*/

package io.netty.buffer;

import io.netty.util.ResourceLeak;
import java.nio.ByteOrder;

final class SimpleLeakAwareByteBuf extends WrappedByteBuf {

    private final ResourceLeak leak;

    SimpleLeakAwareByteBuf(ByteBuf buf, ResourceLeak leak) {
        super(buf);
        this.leak = leak;
    }

    @Override
    public boolean release() {
        boolean deallocated = super.release();
        if (deallocated) {
            leak.close();
        }
        return deallocated;
    }

    @Override
    public boolean release(int decrement) {
        boolean deallocated = super.release(decrement);
        if (deallocated) {
            leak.close();
        }
        return deallocated;
    }

    @Override
    public ByteBuf order(ByteOrder endianness) {
        leak.record();
        if (order() == endianness) {
            return this;
        } else {
            return new SimpleLeakAwareByteBuf(super.order(endianness), leak);
        }
    }

    @Override
    public ByteBuf slice() {
        return new SimpleLeakAwareByteBuf(super.slice(), leak);
    }

    @Override
    public ByteBuf slice(int index, int length) {
        return new SimpleLeakAwareByteBuf(super.slice(index, length), leak);
    }
}
public class SlicedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;
    private final int adjustment;

    public SlicedByteBuf(ByteBuf buffer, int adjustment) {
        this.buffer = buffer;
        this.adjustment = adjustment;
    }

    @Override
    public ByteBuf duplicate() {
        return new SimpleLeakAwareByteBuf(super.duplicate(), leak);
    }

    @Override
    public ByteBuf readSlice(int length) {
        return new SimpleLeakAwareByteBuf(super.readSlice(length), leak);
    }

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     */
    package io.netty.buffer;

    import java.io.IOException;
    import java.io.InputStream;
    import java.io.OutputStream;
    import java.nio.ByteBuffer;
    import java.nio.ByteOrder;
    import java.nio.channels.GatheringByteChannel;
    import java.nio.channels.ScatteringByteChannel;

    /**
     * A derived buffer which exposes its parent's sub-region only. It is
     * recommended to use {@link ByteBuf#slice()} and
     * {@link ByteBuf#slice(int, int)} instead of calling the constructor
     * explicitly.
     */
    public class SlicedByteBuf extends AbstractDerivedByteBuf {

        private final ByteBuf buffer;
        private final int adjustment;
private final int length;

public SlicedByteBuf(ByteBuf buffer, int index, int length) {
    super(length);
    if (index < 0 || index > buffer.capacity() - length) {
        throw new IndexOutOfBoundsException(buffer + "slice(" + index + ", " + length + ")");
    }

    if (buffer instanceof SlicedByteBuf) {
        this.buffer = ((SlicedByteBuf) buffer).buffer;
        adjustment = ((SlicedByteBuf) buffer).adjustment + index;
    } else if (buffer instanceof DuplicatedByteBuf) {
        this.buffer = buffer.unwrap();
        adjustment = index;
    } else {
        this.buffer = buffer;
        adjustment = index;
    }
    this.length = length;

    writerIndex(length);
}

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return length;
}
@Override
public ByteBuf capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}
@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);
    duplicate.setIndex(readerIndex(), writerIndex());
    return duplicate;
}

@Override
public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}
@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index + adjustment, value);
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());
    buffer.setBytes(index + adjustment, src);
    return this;
}
@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    checkIndex(index, length);
    return buffer.getBytes(index + adjustment, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer nioBuffer(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffer(index + adjustment, length);
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffers(index + adjustment, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    checkIndex(index, length);
    return nioBuffer(index, length);
}
@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByte(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}

package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

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 */
package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which simply forwards all data access requests to its
* parent. It is recommended to use \{@link ByteBuf#duplicate()\} instead
* of calling the constructor explicitly.
 */

public class DuplicatedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;

    public DuplicatedByteBuf(ByteBuf buffer) {
        super(buffer.maxCapacity());

        if (buffer instanceof DuplicatedByteBuf) {
            this.buffer = ((DuplicatedByteBuf) buffer).buffer;
        } else {
            this.buffer = buffer;
        }

        setIndex(buffer.readerIndex(), buffer.writerIndex());
    }

    @Override
    public ByteBuf unwrap() {
        return buffer;
    }

    @Override
    public ByteBufAllocator alloc() {
        return buffer.alloc();
    }

    @Override
    public ByteOrder order() {
        return buffer.order();
    }

    @Override
    public boolean isDirect() {
        return buffer.isDirect();
    }

    @Override
    public int capacity() {
        return buffer.capacity();
    }

    @Override
    public ByteBuf capacity(int newCapacity) {
        buffer.capacity(newCapacity);
        return this;
    }
@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {
    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
protected short getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override
public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuf slice(int index, int length) {
    return buffer.slice(index, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
}
return this;
}

@Override
public ByteBuffer getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}

@Override
public ByteBuffer setByte(int index, int value) {
    _setByte(index, value);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}

@Override
public ByteBuffer setShort(int index, int value) {
    _setShort(index, value);
    return this;
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}

@Override
public ByteBuffer setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}

@Override
public ByteBuffer setInt(int index, int value) {
    _setInt(index, value);
    return this;
}
@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index, value);
}

@Override
public ByteBuf setLong(int index, long value) {
    _setLong(index, value);
    return this;
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    buffer.setBytes(index, src);
    return this;
}

@Override
public int getBytes(int index, OutputStream out, int length) throws IOException {
    buffer.getBytes(index, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)  
    throws IOException 
    {  
        return buffer.setBytes(index, in, length);  
    }

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) 
    throws IOException 
    {  
        return buffer.setBytes(index, in, length);  
    }

@Override
public int nioBufferCount() {  
    return buffer.nioBufferCount(); 
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {  
    return buffer.nioBuffers(index, length); 
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {  
    return nioBuffer(index, length); 
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {  
    return buffer.forEachByte(index, length, processor); 
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {  
    return buffer.forEachByteDesc(index, length, processor); 
}

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package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented {
 * @link SctpMessage}s, so only <strong>complete</strong>{
 * @link SctpMessage}s will be forwarded to the next {
 * @link ChannelInboundHandler}.
 */
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {

    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();
        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {
            frag = fragments.remove(streamIdentifier);
        } else {
            frag = Unpooled.EMPTY_BUFFER;
        }
        if (isComplete && !frag.isReadable()) {
            //data chunk is not fragmented
            out.add(msg);
        } else if (!isComplete && frag.isReadable()) {
            //more message to complete
            fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
        } else if (isComplete && frag.isReadable()) {
            //last message to complete
            fragments.remove(streamIdentifier);  
    
}
SctpMessage assembledMsg = new SctpMessage(
    protocolIdentifier,
    streamIdentifier,
    Unpooled.wrappedBuffer(frag, byteBuf));
out.add(assembledMsg);
} else {
    //first incomplete message
    fragments.put(streamIdentifier, byteBuf);
}
byteBuf.retain();
}
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 */

package org.osgi.application;

import java.util.Dictionary;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;

/**
 * ApplicationContext is the access point for an OSGi-aware application
 * to the features of the OSGi Service Platform. Each application instance will
 * have its own ApplicationContext instance, which will not be reused
 * after destroying the corresponding application instance.
 * <p>
 * Application instances can obtain their ApplicationContext using the
 * Framework#getApplicationContext(Object) method.
 * <p>
 * The lifecycle of an ApplicationContext instance is bound to the
 * lifecycle of the corresponding application instance. The
 * ApplicationContext becomes available when the application is started
 * and it is invalidated when the application instance is stopped (i.e. the
 * "stop" method of the application activator object returned). All method calls
 * (except {Framework#getApplicationId()} and {Framework#getInstanceId()}) to an
 * invalidated context object result an IllegalArgumentException.
 * <p>
 * @see org.osgi.application.Framework
 * <p>
 * @author $Id: 51dddaaaced80155f9c1b38fefd6211a466447d4a $
 */
public interface ApplicationContext {

/**
 * Adds the specified (@link ApplicationServiceListener) object to this
 * context application instance's list of listeners. The specified
 * ({@code referenceName}) is a reference name specified in the descriptor of
 * the corresponding application. The registered ({@code listener}) will only
 * receive the (@link ApplicationServiceEvent)s related to the referred
 * service.
 * <p>
 * @param listener The
 *        (@link org.osgi.application.ApplicationServiceListener) to be
 *        added. It must not be {@code null}
 * @param referenceName the reference name of a service from the descriptor
 *        of the corresponding application. It must not be {@code null}.
 * @throws java.lang.IllegalStateException If this context application
 *         instance has stopped.
 * @throws java.lang.NullPointerException If {@code listener} or
 *         {@code referenceName} is {@code null}.
 * @throws java.lang.IllegalArgumentException If there is no service in the
 *         application descriptor with the specified (@code referenceName).
 */
public void addServiceListener(ApplicationServiceListener listener, String referenceName) throws
java.lang.IllegalArgumentException;

/**
 * Adds the specified (@link ApplicationServiceListener) object to this
 * context application instance's list of listeners. The
 * ({@code referenceNames}) parameter is an array of reference name specified
 * in the descriptor of the corresponding application. The registered
 * ({@code listener}) will only receive the (@link ApplicationServiceEvent)s
 * related to the referred services.
 * <p>
 * If the ({@code listener}) was already added, calling this method will
 * overwrite the previous registration.
 * <p>
 * @param listener The
 *        (@link org.osgi.application.ApplicationServiceListener) to be
 *        added. It must not be {@code null}
 * @param referenceNames and array of service reference names from the
 *        descriptor of the corresponding application. It must not be
 *        {@code null} and it must not be empty.
 * @throws java.lang.IllegalStateException If this context application
 *         instance has stopped.
 * @throws java.lang.NullPointerException If {@code listener} or
 *         {@code referenceNames} is {@code null}.
 * @throws java.lang.IllegalArgumentException If there is no service in the
 *         application descriptor with the specified (@code referenceNames).
 */
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws
java.lang.IllegalArgumentException;
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws java.lang.IllegalArgumentException;

/**
 * Removes the specified
 * [@link org.osgi.application.ApplicationServiceListener] object from this
 * context application instances's list of listeners.
 * <p>
 * If {@code listener} is not contained in this context application
 * instance's list of listeners, this method does nothing.
 * *
 * @param listener The
 *         [@link org.osgi.application.ApplicationServiceListener] object to
 *         be removed.
 * @throws java.lang.IllegalArgumentException If this context application
 *         instance has stopped.
 * @throws java.lang.NullPointerException If {@code listener} or
 *         {@code referenceNames} is null
 * @throws java.lang.IllegalArgumentException If {@code referenceNames}
 *         array is empty or it contains unknown references
 */

public void removeServiceListener(ApplicationServiceListener listener);

/**
 * This method returns the identifier of the corresponding application
 * instance. This identifier is guaranteed to be unique within the scope of
 * the device.
 * *
 * @return the unique identifier of the corresponding application instance
 * @see org.osgi.service.application.ApplicationHandle#getInstanceId()
 */

public String getInstanceId();

/**
 * This method return the identifier of the corresponding application type.
 * This identifier is the same for the different instances of the same
 * application but it is different for different application type.
 * <p>
 * Note: this method can safely be called on an invalid
 * [@code ApplicationContext] as well.
 * *
 * @return the unique identifier of the corresponding application instance
 * @see org.osgi.service.application.ApplicationDescriptor#getApplicationId()
 */

public String getApplicationId();
public String getApplicationId();

/**
 * @return the identifier of the application type.
 */

public Object locateService(String referenceName);

/**
 * This method returns the service object for the specified
 * [@code referenceName]. If the cardinality of the reference is 0..n or
 * 1..n and multiple services are bound to the reference, the service with
 * the highest ranking (as specified in its
 * [@link org.osgi.framework.Constants#SERVICE_RANKING] property) is
 * returned. If there is a tie in ranking, the service with the lowest
 * service ID (as specified in its
 * [@link org.osgi.framework.Constants#SERVICE_ID] property); that is, the
 * service that was registered first is returned.
 *
 * @param referenceName The name of a reference as specified in a reference
 * element in this context applications's description. It must not be
 * [@code null].
 * @return A service object for the referenced service or [@code null] if
 * the reference cardinality is 0..1 or 0..n and no bound service is
 * available.
 * @throws java.lang.NullPointerException If [@code referenceName] is
 * [@code null].
 * @throws java.lang.IllegalArgumentException If there is no service in the
 * application descriptor with the specified [@code referenceName].
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Object[] locateServices(String referenceName);

/**
 * Returns the startup parameters specified when calling the
 * [{@code org.osgi.service.application.ApplicationDescriptor#launch(Map)}]
 * method.
 * <p>
 * Startup arguments can be specified as name, value pairs. The name must be
 * of type [{@link java.lang.String}], which must not be {@code null} or empty
 * [{@link java.lang.String} {@code ""}], the value can be any object
 * including {@code null}.
 * <p>
 * @return a [{@link java.util.Map}] containing the startup arguments. It can
 * be {@code null}.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Map getStartupParameters();

/**
 * Application can query the service properties of a service object it is
 * bound to. Application gets bound to a service object when it first
 * obtains a reference to the service by calling [{@code locateService}] or
 * [{@code locateServices}] methods.
 * <p>
 * @param serviceObject A service object the application is bound to. It
 * must not be null.
 * @return The service properties associated with the specified service
 * object.
 * @throws NullPointerException if the specified [{@code serviceObject}] is
 * null
 * @throws IllegalArgumentException if the application is not bound to the
 * specified service object or it is not a service object at all.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Map getServiceProperties(Object serviceObject);

/**
 * Registers the specified service object with the specified properties
 * under the specified class names into the Framework. A
 * [{@link org.osgi.framework.ServiceRegistration}] object is returned. The
 * [{@link org.osgi.framework.ServiceRegistration}] object is for the private
 * use of the application registering the service and should not be shared
 * with other applications. The registering application is defined to be the
 * context application. Bundles can locate the service by using either the
 * [{@link org.osgi.framework.BundleContext#getServiceReferences(String, String)}]
 * or [{@link org.osgi.framework.BundleContext#getServiceReference(String)}]
* method. Other applications can locate this service by using
* [@link #locateService(String)] or [@link #locateServices(String)] method,
* if they declared their dependence on the registered service.
* 
* <p>
* An application can register a service object that implements the
* [@link org.osgi.framework.ServiceFactory] interface to have more
* flexibility in providing service objects to other applications or
* bundles.
* 
* <p>
* The following steps are required to register a service:
* <ol>
* <li>If [@code service] is not a [@code ServiceFactory], an
* [@code IllegalArgumentException] is thrown if [@code service] is not an
* [@code instanceof] all the classes named.</li>
* <li>The Framework adds these service properties to the specified
* [@code Dictionary] (which may be [@code null]): a property named
* [@link org.osgi.framework.Constants#SERVICE_ID] identifying the
* registration number of the service and a property named
* [@link org.osgi.framework.Constants#OBJECTCLASS] containing all the
* specified classes. If any of these properties have already been specified
* by the registering bundle, their values will be overwritten by the
* Framework.</li>
* <li>The service is added to the Framework service registry and may now be
* used by others.</li>
* <li>A service event of type
* [@link org.osgi.framework.ServiceEvent#REGISTERED] is fired. This event
* triggers the corresponding [@link ApplicationServiceEvent] to be
* delivered to the applications that registered the appropriate listener.</li>
* <li>A [@code ServiceRegistration] object for this registration is
* returned.</li>
* </ol>
* 
* @param clazzes The class names under which the service can be located.
* The class names in this array will be stored in the service's
* properties under the key
* [@link org.osgi.framework.Constants#OBJECTCLASS]. This parameter
* must not be [@code null].
* @param service The service object or a [@code ServiceFactory] object.
* @param properties The properties for this service. The keys in the
* properties object must all be [@code String] objects. See
* [@link org.osgi.framework.Constants] for a list of standard
* service property keys. Changes should not be made to this object
* after calling this method. To update the service's properties the
* method must be called. The set of properties may be [@code null]
* if the service has no properties.
* @return A [ @link org.osgi.framework.ServiceRegistration] object for use by the application registering the service to update the service's properties or to unregister the service.

* @throws java.lang.IllegalArgumentException If one of the following is true:
*         <ul>
*         <li>{@code service} is {@code null}.</li><li>{@code service} is not a [ @code ServiceFactory] object and is not an instance of all the named classes in [ @code clazzes].</li><li>{@code properties} contains case variants of the same key name.</li>
*         </ul>
* @throws NullPointerException if [ @code clazzes] is [ @code null]
* @throws java.lang.SecurityException If the caller does not have the named classes and the Java Runtime Environment supports permissions.
* @throws java.lang.IllegalStateException If this ApplicationContext is no longer valid.
* @see org.osgi.framework.BundleContext#registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)
* @see org.osgi.framework.ServiceRegistration
* @see org.osgi.framework.ServiceFactory
*/

public ServiceRegistration registerService(String[] clazzes, Object service, Dictionary properties);

/**
 * Registers the specified service object with the specified properties under the specified class name with the Framework.
 * This method is otherwise identical to [ @link registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)] and is provided as a convenience when [ @code service] will only be registered under a single class name. Note that even in this case the value of the service's [ @link Constants#OBJECTCLASS] property will be an array of strings, rather than just a single string.
 * @param clazz The class name under which the service can be located. It must not be [ @code null]
 * @param service The service object or a [ @code ServiceFactory] object.
 * @param properties The properties for this service.
 * @return A [ @code ServiceRegistration] object for use by the application
registering the service to update the service's properties or to
unregister the service.

@throws java.lang.IllegalArgumentException If one of the following is
true:
<ul>
<li>{@code service} is {@code null}.</li>
<li>{@code service} is not a {@code ServiceFactory} object and is not an instance of the
named class in {@code clazz}.</li>
<li>{@code properties} contains case variants of the same key name.</li>
</ul>
@throws NullPointerException if {@code clazz} is null
@throws java.lang.SecurityException If the caller does not have the
{@code ServicePermission} to register the service the named class
and the Java Runtime Environment supports permissions.
@throws java.lang.IllegalStateException If this ApplicationContext is no
longer valid.

@see #registerService(String[], Object, Dictionary)

public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);
*/

package org.osgi.framework;
import org.osgi.framework.ServiceEvent;
import org.osgi.framework.ServiceReference;

/*
* An event from the Framework describing a service lifecycle change.
* <p>
* {@code ApplicationServiceEvent} objects are delivered to a
* {@code ApplicationServiceListener} objects when a change occurs in this
* service’s lifecycle. The delivery of an {@code ApplicationServiceEvent} is
* always triggered by a [link org.osgi.framework.ServiceEvent].
* {@code ApplicationServiceEvent} extends the content of [link org.osgi.framework.ServiceEvent]
* with the service object the event is referring to as applications has no
* means to find the corresponding service object for a
* [link org.osgi.framework.ServiceReference]. A type code is used to identify
* the event type for future extendability. The available type codes are defined
* in [link org.osgi.framework.ServiceEvent].
* *
* <p>
* OSGi Alliance reserves the right to extend the set of types.
* *
* @see org.osgi.framework.ServiceEvent
* @see ApplicationServiceListener
* *
* @author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9 $
* /
public class ApplicationServiceEvent extends ServiceEvent {

private static final long serialVersionUID = -4762149286971897323L;
final Object serviceObject;

/**
 * Creates a new application service event object.
 *
 * @param type The event type. Available type codes are defines in
 *   [link org.osgi.framework.ServiceEvent]
 * @param reference A [code ServiceReference] object to the service that
 *   had a lifecycle change. This reference will be used as the
 * @param serviceObject The service object bound to this application
 *   instance. It can be [code null] if this application is not bound
 *   to this service yet.
 * @throws IllegalArgumentException if the specified [code reference] is
 *   null.
 */
public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
    super(type, reference);
    this.serviceObject = serviceObject;
}

/**
 * This method returns the service object of this service bound to the
 * listener application instance. A service object becomes bound to the
 * application when it first obtains a service object reference to that
* service by calling the [@code ApplicationContext.locateService] or
* [@code locateServices] methods. If the application is not bound to the
* service yet, this method returns [@code null].
 *
* @return the service object bound to the listener application or
*      [@code null] if it isn't bound to this service yet.
*/
public Object getServiceObject() {
    return this.serviceObject;
}

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* limitations under the License.
*/

package org.osgi.application;

import java.util.EventListener;
import org.osgi.framework.*;

/**
 * @code ApplicationServiceEvent] listener. When a [code ServiceEvent] is
 * fired, it is converted to an [code ApplicationServiceEvent] and it is
 * synchronously delivered to an [code ApplicationServiceListener].
 * 
 * <p>
 * [code ApplicationServiceListener] is a listener interface that may be
 * implemented by an application developer.
 * <p>
 * An [code ApplicationServiceListener] object is registered with the Framework
 * using the [@code ApplicationContext.addServiceListener] method.
 * [code ApplicationServiceListener] objects are called with an
 * [code ApplicationServiceEvent] object when a service is registered,
 * modified, or is in the process of unregistering.
 * 
 * 

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* <p>
* [ @code ApplicationServiceEvent ] object delivery to
* [ @code ApplicationServiceListener ] objects is filtered by the filter
* specified when the listener was registered. If the Java Runtime Environment
* supports permissions, then additional filtering is done.
* [ @code ApplicationServiceEvent ] objects are only delivered to the listener if
* the application which defines the listener object's class has the appropriate
* [ @code ServicePermission ] to get the service using at least one of the named
* classes the service was registered under, and the application specified its
* dependence on the corresponding service in the application metadata.
* 
* <p>
* [ @code ApplicationServiceEvent ] object delivery to
* [ @code ApplicationServiceListener ] objects is further filtered according to
* package sources as defined in
* [ @link ServiceReference#isAssignableTo(Bundle, String) ].
* 
* @author $Id: 406895df9d8ba1a250de7fb9d49da1d0a18abc5b $
* @see ApplicationServiceEvent
* @see ServicePermission
*/

public interface ApplicationServiceListener extends EventListener {

/**
 * Receives notification that a service has had a lifecycle change.
 *
 * @param event The [ @code ApplicationServiceEvent ] object.
 */

public void serviceChanged(ApplicationServiceEvent event);
}

/*
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*
*    http://www.apache.org/licenses/LICENSE-2.0
*
*/

package org.osgi.service.application;

import java.security.Permission;
import java.util.Hashtable;
import java.util.StringTokenizer;
import java.util.Vector;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * This class implements permissions for manipulating applications and their
 * instances.
 * <P>
 * ApplicationAdminPermission can be targeted to applications that matches the
 * specified filter.
 * <P>
 * ApplicationAdminPermission may be granted for different actions:
 * <code>{@code lifecycle}, {@code schedule} and {@code lock}</code>. The permission
 * <code>{@code schedule}</code> implies the permission <code>{@code lifecycle}</code>.
 * <P>
 * @author $Id: c8c799ae29ff5bb6095e22d201b47a3445eb42cb $
 */
public class ApplicationAdminPermission extends Permission {
    private static final long serialVersionUID = 1L;

    /**
     * Allows the lifecycle management of the target applications.
     */
    public static final String LIFECYCLE_ACTION = "lifecycle";

    /**
     * Allows scheduling of the target applications. The permission to schedule
     * an application implies that the scheduler can also manage the lifecycle
     * of that application i.e. <code>{@code schedule}</code> implies <code>{@code lifecycle}</code>
     */
    public static final String SCHEDULE_ACTION = "schedule";

    /**
     * Allows setting/unsetting the locking state of the target applications.
     */
    public static final String LOCK_ACTION = "lock";

    private ApplicationDescriptor applicationDescriptor;

    /**
     * Constructs an ApplicationAdminPermission. The <code>{@code filter}</code> specifies
     * the target application. The <code>{@code filter}</code> is an LDAP-style filter, the
     * recognized properties are <code>{@code signer}</code> and <code>{@code pid}</code>. The pattern
     * specified in the <code>{@code signer}</code> is matched with the Distinguished Name
     * chain used to sign the application. Wildcards in a DN are not matched
     */
}
* according to the filter string rules, but according to the rules defined
* for a DN chain. The attribute `{code pid}` is matched with the PID of the
* application according to the filter string rules.

* <p>
* If the `{code filter}` is `{code null}` then it matches `{code "*"}`. If
* `{code actions}` is `{code "*"}` then it identifies all the possible
* actions.
* 
* `{@param filter filter to identify application. The value `{code null}` is
* equivalent to `{code "*"}` and it indicates "all application".`
* `{@param actions comma-separated list of the desired actions granted on the
* applications or "*" means all the actions. It must not be
* `{code null}`. The order of the actions in the list is not
* significant.`
* `{@throws InvalidSyntaxException is thrown if the specified `{code filter}
* is not syntactically correct.`
* 
* `{@exception NullPointerException is thrown if the actions parameter is
* `{code null}`
* 
* `{@see ApplicationDescriptor
* `{@see org.osgi.framework.AdminPermission
* 
* public ApplicationAdminPermission(String filter, String actions) throws InvalidSyntaxException {
  super(filter == null ? "*" : filter);

  if (filter == null)
    filter = "*";

  if (actions == null)
    throw new NullPointerException("Action string cannot be null!");

  this.applicationDescriptor = null;
  this.filter = (filter == null ? "*" : filter);
  this.actions = actions;

  if (!filter.equals("*") && !filter.equals("<<SELF>>"))
    FrameworkUtil.createFilter(this.filter); // check if the filter is
    // valid
    init();
  }

  /**
   * This constructor should be used when creating
   * `{code ApplicationAdminPermission}` instance for `{code checkPermission}
   * call.
   * 
   * `{@param application the target of the operation, it must not be
public ApplicationAdminPermission(ApplicationDescriptor application, String actions) {
    super(application.getApplicationId());

    if (application == null || actions == null)
        throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

    this.filter = application.getApplicationId();
    this.applicationDescriptor = application;
    this.actions = actions;

    init();
}

/**
 * This method can be used in the {@link java.security.ProtectionDomain}
 * implementation in the {@code implies} method to insert the application ID
 * of the current application into the permission being checked. This*
 * enables the evaluation of the {@code <<SELF>>} pseudo targets.
 *
 * @param applicationId the ID of the current application.
 * @return the permission updated with the ID of the current application
 */
public ApplicationAdminPermission setCurrentApplicationId(String applicationId) {
    ApplicationAdminPermission newPerm = null;
    if (this.applicationDescriptor == null) {
        try {
            newPerm = new ApplicationAdminPermission(this.filter, this.actions);
        } catch (InvalidSyntaxException e) {
            throw new RuntimeException(e); /* this can never happen */
        }
    } else
        newPerm = new ApplicationAdminPermission(this.applicationDescriptor, this.actions);

    newPerm.applicationID = applicationId;

    return newPerm;
}

/**
 * Checks if the specified {@code permission} is implied by this permission.
 * The method returns true under the following conditions:
 * <ul>
 * <li>This permission was created by specifying a filter (see
* The implied [@link ApplicationAdminPermission(String, String)]) was created for a particular
* [@link ApplicationDescriptor] (see
* [@link ApplicationAdminPermission(ApplicationDescriptor, String)])</li>
* The [@code otherPermission] was created for a particular
* [@link ApplicationDescriptor] (see
* [@link ApplicationAdminPermission(ApplicationDescriptor, String)])</li>
* The [@code filter] of this permission mathes the
* [@code ApplicationDescriptor] specified in the [@code otherPermission].
* If the filter in this permission is the [@code <<SELF>>] pseudo target,
* then the currentApplicationId set in the [@code otherPermission] is
* compared to the application Id of the target
* [@code ApplicationDescriptor].</li>
* The list of permitted actions in this permission contains all actions
* required in the [@code otherPermission] </li>
* Otherwise the method returns false.
* @param otherPermission the implied permission
* @return true if this permission implies the [@code otherPermission],
* false otherwise.
*/
public boolean implies(Permission otherPermission) {
    if (otherPermission == null)
        return false;
    if (!(otherPermission instanceof ApplicationAdminPermission))
        return false;
    ApplicationAdminPermission other = (ApplicationAdminPermission) otherPermission;
    if (!filter.equals("*")) {
        if (other.applicationDescriptor == null)
            return false;
        if (filter.equals("<<SELF>>")) {
            if (other.applicationID == null)
                return false; /* it cannot be, this might be a bug */
        } else {
            Hashtable props = new Hashtable();
            props.put("pid", other.applicationDescriptor.getApplicationId());
            props.put("signer", new SignerWrapper(other.applicationDescriptor));
            Filter flt = getFilter();
            if (flt == null)
                return false;
            if (!flt.match(props))
                return false;
        }
    }
    return false;
}
public boolean equals(Object with) {
    if (with == null || !(with instanceof ApplicationAdminPermission))
        return false;
    ApplicationAdminPermission other = (ApplicationAdminPermission) with;

    // Compare actions:
    if (other.actionsVector.size() != actionsVector.size())
        return false;
    for (int i = 0; i != actionsVector.size(); i++)
        if (!other.actionsVector.contains(actionsVector.get(i)))
            return false;
    return equal(this.filter, other.filter) && equal(this.applicationDescriptor, other.applicationDescriptor) &&
    equal(this.applicationID, other.applicationID);
}

/**
 * Compares parameters for equality. If both object are null, they are
 * considered equal.
 *
 * @param a object to compare
 * @param b other object to compare
 * @return true if both objects are equal or both are null
 */
private static boolean equal(Object a, Object b) {
    // This equation is true if both references are null or both point
    // to the same object. In both cases they are considered as equal.
    if (a == b) {
        return true;
    }
    return a.equals(b);
}

public int hashCode() {
    int hc = 0;

for (int i = 0; i != actionsVector.size(); i++)
hc ^= ((String) actionsVector.get(i)).hashCode();
hc ^= (null == this.filter) ? 0 : this.filter.hashCode();
hc ^= (null == this.applicationDescriptor) ? 0 : this.applicationDescriptor.hashCode();
hc ^= (null == this.applicationID) ? 0 : this.applicationID.hashCode();
return hc;
}
/**
* Returns the actions of this permission.
*
* @return the actions specified when this permission was created
*/
public String getActions() {
return actions;
}
private StringapplicationID;
private static final VectorACTIONS= new Vector();
private VectoractionsVector;
private final Stringfilter;
private final Stringactions;
private FilterappliedFilter= null;
static {
ACTIONS.add(LIFECYCLE_ACTION);
ACTIONS.add(SCHEDULE_ACTION);
ACTIONS.add(LOCK_ACTION);
}
private static Vector actionsVector(String actions) {
Vector v = new Vector();
StringTokenizer t = new StringTokenizer(actions.toUpperCase(), ",");
while (t.hasMoreTokens()) {
String action = t.nextToken().trim();
v.add(action.toLowerCase());
}
if (v.contains(SCHEDULE_ACTION) && !v.contains(LIFECYCLE_ACTION))
v.add(LIFECYCLE_ACTION);
return v;
}
private static class SignerWrapper extends Object {
private Stringpattern;
private ApplicationDescriptorappDesc;

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/**
 * @param pattern
 */

public SignerWrapper(String pattern) {
    this.pattern = pattern;
}

SignerWrapper(ApplicationDescriptor appDesc) {
    this.appDesc = appDesc;
}

public boolean equals(Object o) {
    if (!(o instanceof SignerWrapper))
        return false;
    SignerWrapper other = (SignerWrapper) o;
    ApplicationDescriptor matchAppDesc = appDesc != null ? appDesc : other.appDesc;
    String matchPattern = appDesc != null ? other.pattern : pattern;
    return matchAppDesc.matchDNChain(matchPattern);
}

private void init() {
    actionsVector = actionsVector(actions);
    if (actions.equals("*"))
        actionsVector = actionsVector(LIFECYCLE_ACTION + "," + SCHEDULE_ACTION + "," + LOCK_ACTION);
        else
            if (!ACTIONS.containsAll(actionsVector))
                throw new IllegalArgumentException("Illegal action!");

    applicationID = null;
}

private Filter getFilter() {
    if (appliedFilter == null) {
        try {
            appliedFilter = FrameworkUtil.createFilter(filter);
        } catch (InvalidSyntaxException e) {
            // we will return null
        }
    }
    return appliedFilter;
}

/*
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 */
package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.InvalidSyntaxException;

/**
 * An OSGi service that represents an installed application and stores
 * information about it. The application descriptor can be used for instance
 * creation.
 * 
 * @author $Id: 991343b4701de961cbb87126ededcc00685811f0 $
 * /

public abstract class ApplicationDescriptor {

 /**
  * NOTE: An implementor may also choose to replace this class in their
  * distribution with a class that directly interfaces with the
  * org.osgi.service.application implementation. This replacement class MUST
  * NOT alter the public/protected signature of this class.
  */

 /**
  * The property key for the localized name of the application.
  */
  public static final String APPLICATION_NAME = "application.name";

  /**
   * The property key for the localized icon of the application.
   */

public static final String APPLICATION_ICON = "application.icon";

/**
 * The property key for the unique identifier (PID) of the application.
 */
public static final String APPLICATION_PID = Constants.SERVICE_PID;

/**
 * The property key for the version of the application.
 */
public static final String APPLICATION_VERSION = "application.version";

/**
 * The property key for the name of the application vendor.
 */
public static final String APPLICATION_VENDOR = Constants.SERVICE_VENDOR;

/**
 * The property key for the visibility property of the application.
 */
public static final String APPLICATION_VISIBLE = "application.visible";

/**
 * The property key for the launchable property of the application.
 */
public static final String APPLICATION_LAUNCHABLE = "application.launchable";

/**
 * The property key for the locked property of the application.
 */
public static final String APPLICATION_LOCKED = "application.locked";

/**
 * The property key for the localized description of the application.
 */
public static final String APPLICATION_DESCRIPTION = "application.description";

/**
 * The property key for the localized documentation of the application.
 */
public static final String APPLICATION_DOCUMENTATION = "application.documentation";

/**
 * The property key for the localized copyright notice of the application.
 */
public static final String APPLICATION_COPYRIGHT = "application.copyright";
* The property key for the localized license of the application. */
public static final String APPLICATION_LICENSE = "application.license";

/**
 * The property key for the application container of the application.
 */
public static final String APPLICATION_CONTAINER = "application.container";

/**
 * The property key for the location of the application.
 */
public static final String APPLICATION_LOCATION = "application.location";

private final String pid;

/**
 * Constructs the {@code ApplicationDescriptor}. 
 *
 * @param applicationId The identifier of the application. Its value is also
 * available as the { code service.pid } service property of this
 * { code ApplicationDescriptor } service. This parameter must not be
 * null.
 * @throws NullPointerException if the specified { code applicationId } is
 * null.
 */
protected ApplicationDescriptor(String applicationId) {
if (null == applicationId) {
throw new NullPointerException("Application ID must not be null!");
} 

this.pid = applicationId;
try {
delegate = new Delegate();
delegate.setApplicationDescriptor(this, applicationId);
} catch (Exception e) {
// Too bad ... 
e.printStackTrace();
System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
}

/**
 * Returns the identifier of the represented application.
 * *
 * @return the identifier of the represented application
 */
public final String getApplicationId() {

/**
 * This method verifies whether the specified {code pattern} matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 */

return pid;
}

/**
 * This method verifies whether the specified {code pattern} matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 *<p>
The {code pattern} must adhere to the syntax defined in
 *{@link org.osgi.service.application.ApplicationAdminPermission} for
 *signer attributes.
 *<p>
 *This method is used by
 *{@link ApplicationAdminPermission#implies(java.security.Permission)}
 *method to match target {code ApplicationDescriptor} and filter.
 *
 *{param pattern a pattern for a chain of Distinguished Names. It must not
 * be null.
 *<return {code true} if the specified pattern matches at least one of the
 * certificate chains used to authenticate this application
 *@throws NullPointerException if the specified {code pattern} is null.
 *@throws IllegalStateException if the application descriptor was
 * unregistered
 */
public abstract boolean matchDNChain(String pattern);

/**
 * Returns the properties of the application descriptor as key-value pairs.
 * The return value contains the locale aware and unaware properties as
 * well. The returned {code Map} will include the service properties of
 * this {code ApplicationDescriptor} as well.
 *<p>
 *This method will call the {code getPropertiesSpecific} method to enable
 * the container implementation to insert application model and/or container
 * implementation specific properties.
 */

public Map getProperties(String locale);

/**
 * The returned {link java.util.Map} will contain the standard OSGi service
 * properties as well (e.g. service.id, service.vendor etc.) and specialized
 * application descriptors may offer further service properties. The
 * returned Map contains a snapshot of the properties. It will not reflect
 * further changes in the property values nor will the update of the Map
 * change the corresponding service property.
 *<p>
 *{param locale the locale string, it may be null, the value null means the
 * default locale. If the provided locale is the empty String ( {code ""}
 * then raw (non-localized) values are returned.
 *<p>
 *{return copy of the service properties of this application descriptor

* service, according to the specified locale. If locale is null
* then the default locale's properties will be returned. (Since
* service properties are always exist it cannot return null.)
*
* @throws IllegalStateException if the application descriptor is
* unregistered
*
public final Map getProperties(String locale) {
    Map props = getPropertiesSpecific(locale);

    /* currently the ApplicationDescriptor manages the load/save of locking */
    boolean isLocked = delegate.isLocked(); // the real locking state
    Boolean containerLocked = (Boolean) props.remove(APPLICATION_LOCKED);
    if (containerLocked != null && containerLocked.booleanValue() != isLocked) {
        try {
            if (isLocked) /* if the container's information is not correct */
                lockSpecific(); /*
                * about the locking state (after loading
                * the lock states)
                */
            else
                unlockSpecific();
        } catch (Exception e) {
        }
    } /*
    * replace the container's lock with the application model's lock,
    * that's the correct
    */
    props.put(APPLICATION_LOCKED, new Boolean(isLocked));
    return props;
}

/**
* Container implementations can provide application model specific and/or
* container implementation specific properties via this method.
*
* * Localizable properties must be returned localized if the provided
* [@code locale] argument is not the empty String. The value [@code null]
* indicates to use the default locale, for other values the specified
* locale should be used.
*
* * The returned [@link java.util.Map] must contain the standard OSGi service
* properties as well (e.g. service.id, service.vendor etc.) and specialized
* application descriptors may offer further service properties. The
* returned [@code Map] contains a snapshot of the properties. It will not
* reflect further changes in the property values nor will the update of the
* Map change the corresponding service property.
protected abstract Map getPropertiesSpecific(String locale);

/**
 * Launches a new instance of an application. The {code args} parameter
 * specifies the startup parameters for the instance to be launched, it may
 * be null.
 * <p>
 * The following steps are made:
 * <ul>
 * <li>Check for the appropriate permission.</li>
 * <li>Check the locking state of the application. If locked then throw an
 * {link ApplicationException} with the reason code
 * {code ApplicationException#APPLICATION_LOCKED}.</li>
 * <li>Calls the {code launchSpecific()} method to create and start an
 * application instance.</li>
 * <li>Returns the {code ApplicationHandle} returned by the
 * launchSpecific().</li>
 * </ul>
 * The caller has to have ApplicationAdminPermission(applicationPID,
 * "launch") in order to be able to perform this operation.
 * <p>
 * The {code Map} argument of the launch method contains startup arguments
 * for the application. The keys used in the Map must be non-null, non-empty
 * {code String} objects. They can be standard or application specific.
 * OSGi defines the {code org.osgi.triggeringevent} key to be used to pass
 * the triggering event to a scheduled application, however in the future it
 * is possible that other well-known keys will be defined. To avoid unwanted
 * clashes of keys, the following rules should be applied:
 * <ul>
 * <li>The keys starting with the dash (-) character are application
 * specific, no well-known meaning should be associated with them.</li>
 * <li>Well-known keys should follow the reverse domain name based naming.</li>
 * In particular, the keys standardized in OSGi should start with
 * {code org.osgi.}.</li>
 * </ul>
 * <p>
* The method is synchronous, it return only when the application instance
* was successfully started or the attempt to start it failed.
* <p>
* This method never returns '{@code null}'. If launching an application
* fails, the appropriate exception is thrown.
*
* @param arguments Arguments for the newly launched application, may be
* null
* <p>
* @return the registered ApplicationHandle, which represents the newly
* launched application instance. Never returns '{@code null}'.
* <p>
* @throws SecurityException if the caller doesn't have "lifecycle"
* ApplicationAdminPermission for the application.
* @throws ApplicationException if starting the application failed
* @throws IllegalStateException if the application descriptor is
* unregistered
* @throws IllegalArgumentExeception if the specified '{@code Map}' contains
* invalid keys (null objects, empty '{@code String}' or a key that is
* not '{@code String}')
*/

public final ApplicationHandle launch(Map arguments) throws ApplicationException {
    try {
        delegate.launch(arguments);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the catched SecurityException */
    }
    if (!isLaunchableSpecific())
        throw new ApplicationException(ApplicationException.APPLICATION_NOT_LAUNCHABLE, "Cannot launch
        the application!");
    try {
        return launchSpecific(arguments);
    } catch (IllegalStateException ise) {
        throw ise;
    } catch (SecurityException se) {
        throw se;
    } catch (ApplicationException ae) {
        throw ae;
    } catch (Exception t) {
        throw new ApplicationException(ApplicationException.APPLICATION_INTERNAL_ERROR, t);
    }
}

/**
* Called by launch() to create and start a new instance in an application
* model specific way. It also creates and registeres the application handle
* to represent the newly created and started instance and registeres it.
* The method is synchronous, it return only when the application instance
* was successfully started or the attempt to start it failed.
* 
* This method must not return [@code null]. If launching the application
* failed, and exception must be thrown.
*
* @param arguments the startup parameters of the new application instance,
* may be null
*
* @return the registered application model specific application handle for
* the newly created and started instance.
*
* @throws IllegalStateException if the application descriptor is
* unregistered
* @throws Exception if any problem occurs.
*/
protected abstract ApplicationHandle launchSpecific(Map arguments) throws Exception;

/**
 * This method is called by launch() to verify that according to the
 * container, the application is launchable.
 *
 * @return true, if the application is launchable according to the
 * container, false otherwise.
 *
 * @throws IllegalStateException if the application descriptor is
 * unregistered
 */
protected abstract boolean isLaunchableSpecific();

/**
 * Schedules the application at a specified event. Schedule information
 * should not get lost even if the framework or the device restarts so it
 * should be stored in a persistent storage. The method registers a
 * [link ScheduledApplication] service in Service Registry, representing
 * the created schedule.
 * 
 * The [@code Map] argument of the method contains startup arguments for the
 * application. The keys used in the Map must be non-null, non-empty
 * [code String] objects. The argument values must be of primitive types,
 * wrapper classes of primitive types, [code String] or arrays or
 * collections of these.
 * 
 * The created schedules have a unique identifier within the scope of this
 * [code ApplicationDescriptor]. This identifier can be specified in the
 * [code scheduleId] argument. If this argument is [code null], the
 * identifier is automatically generated.
* @param scheduleId the identifier of the created schedule. It can be
  * { @code null}, in this case the identifier is automatically
  * generated.
* @param arguments the startup arguments for the scheduled application, may
  * be null
* @param topic specifies the topic of the triggering event, it may contain
  * a trailing asterisk as wildcard, the empty string is treated as
  * "*", must not be null
* @param eventFilter specifies and LDAP filter to filter on the properties
  * of the triggering event, may be null
* @param recurring if the recurring parameter is false then the application
  * will be launched only once, when the event firstly occurs. If the
  * parameter is true then scheduling will take place for every event
  * occurrence; i.e. it is a recurring schedule
* 
* @return the registered scheduled application service
* 
* @throws NullPointerException if the topic is { @code null}
* @throws InvalidSyntaxException if the specified { @code eventFilter} is
  * not syntactically correct
* @throws ApplicationException if the schedule couldn't be created. The
  * possible error codes are
*   * <ul>
*     * <li>[@link ApplicationException#APPLICATION_DUPLICATE_SCHEDULE_ID] if
*         the specified { @code scheduleId} is already used for this
*         { @code ApplicationDescriptor}]</li>
*     * [@link ApplicationException#APPLICATION_SCHEDULING_FAILED] if the
*         scheduling failed due to some internal reason (e.g. persistent
*         storage error).</li>
*   * <li>[@link ApplicationException#APPLICATION_INVALID_STARTUP_ARGUMENT] if
*         the specified startup argument doesn't satisfy the type or
*         value constraints of startup arguments.</li>
*   * </ul>
* @throws SecurityException if the caller doesn't have "schedule"
  * ApplicationAdminPermission for the application.
* @throws IllegalStateException if the application descriptor is
  * unregistered
* @throws IllegalArgumentException if the specified { @code Map} contains
  * invalid keys (null objects, empty { @code String} or a key that is
  * not { @code String})
* */

public final ScheduledApplication schedule(String scheduleId, Map arguments, String topic, String eventFilter,
               boolean recurring) throws InvalidSyntaxException, ApplicationException {
    isLaunchableSpecific(); // checks if the ApplicationDescriptor was
    // already unregistered
    try {

return delegate.schedule(scheduleId, arguments, topic, eventFilter, recurring);
} catch (SecurityException se) {
isLaunchableSpecific(); /* check whether the bundle was uninstalled */
/* if yes, throws IllegalStateException */
throw se; /* otherwise throw the caught SecurityException */
}

/**
 * Sets the lock state of the application. If an application is locked then
 * launching a new instance is not possible. It does not affect the already
 * launched instances.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 *   ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *   unregistered
 */
public final void lock() {
try {
delegate.lock();
} catch (SecurityException se) {
isLaunchableSpecific(); /* check whether the bundle was uninstalled */
/* if yes, throws IllegalStateException */
throw se; /* otherwise throw the caught SecurityException */
}
lockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been locked and it should update the
 * {code application.locked} service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *   unregistered
 */
protected abstract void lockSpecific();

/**
 * Unsets the lock state of the application.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 *   ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *   unregistered
 */
public final void unlock() {

try {
    delegate.unlock();
} catch (SecurityException se) {
    isLaunchableSpecific(); /* check whether the bundle was uninstalled */
    /* if yes, throws IllegalStateException */
    throw se; /* otherwise throw the caught SecurityException */
}
unlockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been unlocked and it should update the
 * {@code application.locked} service property accordingly.
 * *
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 * */
protected abstract void unlockSpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationDescriptor and delegate method
 * calls to an instance of the class.
 * */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationDescriptor;
    static Method isLocked;
    static Method lock;
    static Method unlock;
    static Method schedule;
    static Method launch;
    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationDescriptor");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationDescriptor property must be set");
                }

                try {
                    implementation = Class.forName(cName);
                } catch (ClassNotFoundException e) {
                } catch (ClassNotFoundException e) {

throw new NoClassDefFoundError(e.toString());
}

try {
setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[]{
    ApplicationDescriptor.class, String.class });
isLocked = implementation.getMethod("isLocked", new Class [] { });
lock = implementation.getMethod("lock", new Class [] { });
unlock = implementation.getMethod("unlock", new Class [] { });
schedule = implementation.getMethod("schedule", new Class [] { String.class, Map.class, String.class, String.class, boolean.class });
launch = implementation.getMethod("launch", new Class [] { Map.class });
} catch (NoSuchMethodException e) {
    throw new NoSuchMethodError(e.toString());
}

return null;
} 
});

Object target;

Delegate() throws Exception {
target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
    public Object run() throws Exception {
        return implementation.newInstance();
    }
});
}

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
try {
    try {
        setApplicationDescriptor.invoke(target, new Object [] { d, pid });
    } catch (InvocationTargetException e) {
        throw e.getTargetException();
    }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

boolean isLocked() {
try {
try {
return ((Boolean) isLocked.invoke(target, new Object[] {})).booleanValue();
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}

void lock() {
try {
try {
lock.invoke(target, new Object[] {});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}

void unlock() {
try {
try {
unlock.invoke(target, new Object[] {});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}

ScheduledApplication schedule(String scheduleId, Map args, String topic, String filter, boolean recurs) throws
InvalidSyntaxException, ApplicationException {
    try {
        try {
            return (ScheduledApplication) schedule.invoke(target, new Object[] {scheduleId, args, topic, filter, new Boolean(recurs)});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
        catch (InvalidSyntaxException e) {
            throw e;
        }
        catch (ApplicationException e) {
            throw e;
        }
        catch (Error e) {
            throw e;
        }
        catch (RuntimeException e) {
            throw e;
        }
        catch (Throwable e) {
            throw new RuntimeException(e);
        }
    }
}

void launch(Map arguments) throws ApplicationException {
    try {
        try {
            launch.invoke(target, new Object[] {arguments});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
        catch (ApplicationException e) {
            throw e;
        }
        catch (Error e) {
            throw e;
        }
        catch (RuntimeException e) {
            throw e;
        }
        catch (Throwable e) {
            throw new RuntimeException(e);
        }
    }
}

/*
 * Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 */
package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *
 * @code ApplicationException} object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * @code ApplicationException}s should not be created by developers.
 * @code ApplicationException}s are associated with an error code. This code
 * describes the type of problem reported in this exception. The possible codes
 * are:
 * <ul>
 * <li> @link #APPLICATION_LOCKED} - The application couldn't be launched
 * because it is locked.</li>
 * <li> @link #APPLICATION_NOT_LAUNCHABLE} - The application is not in
 * launchable state.</li>
 * <li> @link #APPLICATION_INTERNAL_ERROR} - An exception was thrown by the
 * application or its container during launch.</li>
 * <li> @link #APPLICATION_SCHEDULING_FAILED} - The scheduling of an application
 * failed.</li>
 * <li> @link #APPLICATION_DUPLICATE_SCHEDULE_ID} - The application scheduling
 * failed because the specified identifier is already in use.</li>
 * <li> @link #APPLICATION_EXITVALUE_NOT_AVAILABLE} - The exit value is not
 * available for an application instance because the instance has not
 * terminated.</li>
 * <li> @link #APPLICATION_INVALID_STARTUP_ARGUMENT} - One of the specified
 * startup arguments is invalid, for example its type is not permitted.</li>
 * </ul>
 *
 * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
 */

public class ApplicationException extends Exception {
    private static final long serialVersionUID = -7173190453622508207L;
    private final int errorCode;

    /**
     * The application couldn't be launched because it is locked.
     */

    // implementation details
public static final int APPLICATION_LOCKED = 0x01;

/**
 * The application is not in launchable state, it's
 * [@link ApplicationDescriptor#APPLICATION_LAUNCHABLE] attribute is false.
 */
public static final int APPLICATION_NOT_LAUNCHABLE = 0x02;

/**
 * An exception was thrown by the application or the corresponding container
 * during launch. The exception is available from [ @code getCause() ].
 */
public static final int APPLICATION_INTERNAL_ERROR = 0x03;

/**
 * The application schedule could not be created due to some internal error
 * (for example, the schedule information couldn't be saved due to some
 * storage error).
 */
public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

/**
 * The application scheduling failed because the specified identifier is
 * already in use.
 */
public static final int APPLICATION_DUPLICATE_SCHEDULE_ID = 0x05;

/**
 * The exit value is not available for an application instance because the
 * instance has not terminated.
 * 
 * @since 1.1
 */
public static final int APPLICATION_EXITVALUE_NOT_AVAILABLE = 0x06;

/**
 * One of the specified startup arguments is invalid, for example its type
 * is not permitted.
 * 
 * @since 1.1
 */
public static final int APPLICATION_INVALID_STARTUP_ARGUMENT = 0x07;

/**
 * Creates an [ @code ApplicationException ] with the specified error code.
 * 
 * @param errorCode The code of the error
 */
public ApplicationException(int errorCode) {
    super();
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 * @param errorCode The code of the error
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, Throwable cause) {
    super(cause);
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} with the specified error code.
 * @param errorCode The code of the error
 * @param message The associated message.
 */
public ApplicationException(int errorCode, String message) {
    super(message);
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 * @param errorCode The code of the error
 * @param message The associated message.
 */
public ApplicationException(int errorCode, String message, Throwable cause) {
    super(message, cause);
    this.errorCode = errorCode;
}

/**
 * Returns the cause of this exception or {@code null} if no cause was set.
 * @return The cause of this exception or {@code null} if no cause was set.
 */
public Throwable getCause() {
    return super.getCause();
}
/**
 * Returns the error code associated with this exception.
 * @return The error code of this exception.
 */
public int getErrorCode() {
    return errorCode;
}

package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import org.osgi.framework.Constants;

/**
 * ApplicationHandle is an OSGi service interface which represents an instance
 * of an application. It provides the functionality to query and manipulate the
 * lifecycle state of the represented application instance. It defines constants
 * for the lifecycle states.
 * @author $Id: 4a9c1d6258e03ce4eb1a26748bcca83661ad8244 $
 */
public abstract class ApplicationHandle {

    /**
     * NOTE: An implementor may also choose to replace this class in their
     * distribution with a class that directly interfaces with the
     * org.osgi.service.application implementation. This replacement class MUST
     * NOT alter the public/protected signature of this class.
     */
/*

/**
 * The property key for the unique identifier (PID) of the application instance.
 */

public static final String APPLICATION_PID = Constants.SERVICE_PID;

/**
 * The property key for the pid of the corresponding application descriptor.
 */

public final static String APPLICATION_DESCRIPTOR = "application.descriptor";

/**
 * The property key for the state of this application instance.
 */

public final static String APPLICATION_STATE = "application.state";

/**
 * The property key for the supports exit value property of this application instance.
 *
 * @since 1.1
 */

public final static String APPLICATION_SUPPORTS_EXITVALUE = "application.supports.exitvalue";

/**
 * The application instance is running. This is the initial state of a newly created application instance.
 */

public final static String RUNNING = "RUNNING";

/**
 * The application instance is being stopped. This is the state of the application instance during the execution of the {@code destroy()} method.
 */

public final static String STOPPING = "STOPPING";

private final String instanceId;

private final ApplicationDescriptor descriptor;

/**
 * Application instance identifier is specified by the container when the instance is created. The instance identifier must remain static for the lifetime of the instance, it must remain the same even across framework restarts for the same application instance. This value must be the same
as the `{@code service.pid}` service property of this application handle.

* `<p>`

* The instance identifier should follow the following scheme:

  * `<i>application descriptor PID</i>`&lt;`<i>index</i>`&gt; where
  * `<i>application descriptor PID</i>` is the PID of the corresponding
  * `{@code ApplicationDescriptor}` and `<i>index</i>` is a unique
  * integer index assigned by the application container. Even after
  * destroying the application index the same index value should not be
  * reused in a reasonably long timeframe.

* `@param instanceId the instance identifier of the represented application
  * instance. It must not be null.
  *
  * `@param descriptor the `{@code ApplicationDescriptor}` of the represented
  * application instance. It must not be null.
  *
  * `@throws NullPointerException if any of the arguments is null.
  */

protected ApplicationHandle(String instanceId, ApplicationDescriptor descriptor) {
  if ((null == instanceId) || (null == descriptor)) {
    throw new NullPointerException("Parameters must not be null!");
  }

  this.instanceId = instanceId;
  this.descriptor = descriptor;

  try {
    delegate = new Delegate();
    delegate.setApplicationHandle(this, descriptor.delegate);
  } catch (Exception e) {
    // Too bad ...
    e.printStackTrace();
    System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
  }
}

/**
 * Retrieves the `{@code ApplicationDescriptor}` to which this
 * `{@code ApplicationHandle}` belongs.
 *
 * `@return` The corresponding `{@code ApplicationDescriptor}`
 */
public final ApplicationDescriptor getApplicationDescriptor() {
  return descriptor;
}

/**
 * Get the state of the application instance.
public abstract String getState();

/**
 * Returns the unique identifier of this instance. This value is also
 * @return the state of the application.
 * @throws IllegalStateException if the application handle is unregistered
 */

public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
    throw new UnsupportedOperationException();
}

/**
 * Returns the exit value for the application instance. The timeout
 * specifies how the method behaves when the application has not yet
 * terminated. A negative, zero or positive value may be used.
 * <ul>
 * <li>negative - The method does not wait for termination. If the
 * application has not terminated then an {code ApplicationException} is
 * thrown.</li>
 * <li>zero - The method waits until the application terminates.</li>
 * <li>positive - The method waits until the application terminates or the
 * timeout expires. If the timeout expires and the application has not
 * terminated then an {code ApplicationException} is thrown.</li>
 * </ul>
 * The default implementation throws an
 * {code UnsupportedOperationException}. The application model should
 * override this method if exit values are supported.
 */

/**
 * @param timeout The maximum time in milliseconds to wait for the
 * application to timeout.
 * @return The exit value for the application instance. The value is
 * application specific.
 * @throws UnsupportedOperationException If the application model does not
 * support exit values.
 * @throws InterruptedException If the thread is interrupted while waiting
 * for the timeout.
 * @throws ApplicationException If the application has not terminated. The
 * error code will be
 * {link ApplicationException#APPLICATION_EXITVALUE_NOT_AVAILABLE}.
 * @since 1.1
 */

public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
    throw new UnsupportedOperationexpception();
}
* available as a service property of this application handle's service.pid.
* 
* @return the unique identifier of the instance
*/
public final String getInstanceId()
{
    return instanceId;
}

/**
 * The application instance's lifecycle state can be influenced by this
 * method. It lets the application instance perform operations to stop
 * application safely, e.g. saving its state to a permanent storage.
 * <p>
 * The method must check if the lifecycle transition is valid; a STOPPING
 * application cannot be stopped. If it is invalid then the method must
 * exit. Otherwise the lifecycle state of the application instance must be
 * set to STOPPING. Then the destroySpecific() method must be called to
 * perform any application model specific steps for safe stopping of the
 * represented application instance.
 * <p>
 * At the end the [@code ApplicationHandle] must be unregistered. This
 * method should free all the resources related to this
 * [@code ApplicationHandle].
 * <p>
 * When this method is completed the application instance has already made
 * its operations for safe stopping, the ApplicationHandle has been
 * unregistered and its related resources has been freed. Further calls on
 * this application should not be made because they may have unexpected
 * results.
 * 
 * @throws SecurityException if the caller doesn't have "lifecycle"
 *         [@code ApplicationAdminPermission] for the corresponding
 *         application.
 * 
 * @throws IllegalStateException if the application handle is unregistered
 */
public final void destroy()
{
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
         * check whether the bundle was
         * uninstalled
         */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    destroySpecific();
}
/**
 * Called by the destroy() method to perform application model specific
 * steps to stop and destroy an application instance safely.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
protected abstract void destroySpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationHandle and delegate method calls
 * to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationHandle;
    static Method destroy;
    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationHandle");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationHandle property must be set");
                }

                try {
                    implementation = Class.forName(cName);
                    return null;
                } catch (ClassNotFoundException e) {
                    throw new NoClassDefFoundError(e.toString());
                }

                try {
                    setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[] {ApplicationHandle.class, Object.class});
                    destroy = implementation.getMethod("destroy", new Class[] { });
                    return null;
                } catch (NoSuchMethodException e) {
                    throw new NoSuchMethodError(e.toString());
                }
            }
        });
    }
}
Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationHandle(ApplicationHandle d, ApplicationDescriptor.Delegate descriptor) {
    try {
        try {
            setApplicationHandle.invoke(target, new Object[] { d, descriptor.target });
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void destroy() {
    try {
        try {
            destroy.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

/*
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 */
package org.osgi.service.application;

import java.util.Map;

/**
 * It is allowed to schedule an application based on a specific event.
 * ScheduledApplication service keeps the schedule information. When the
 * specified event is fired a new instance must be launched. Note that launching
 * operation may fail because e.g. the application is locked.
 *<p>
 * Each [code ScheduledApplication] instance has an identifier which is unique
 * within the scope of the application being scheduled.
 *<p>
 * [code ScheduledApplication] instances are registered as services. The
 * [link APPLICATION_PID] service property contains the PID of the application
 * being scheduled, the [link SCHEDULE_ID] service property contains the
 * schedule identifier.
 *<p>
 * @author $Id: 69c9a4995399ff1619ec236dcb9ae2553a12d1ae $
 */

public interface ScheduledApplication {

/**
 * The property key for the identifier of the application being scheduled.
 */

public static final String APPLICATION_PID = ApplicationDescriptor.APPLICATION_PID;

/**
 * The property key for the schedule identifier. The identifier is unique
 * within the scope of the application being scheduled.
 */

public static final String SCHEDULE_ID = "schedule.id";

/**
 * The key for the startup argument used to pass the event object that
* triggered the schedule to launch the application instance. The event is
* passed in a [@link java.security.GuardedObject] protected by the
* corresponding [@link org.osgi.service.event.TopicPermission].
*/

```
public static final String TRIGGERING_EVENT = "org.osgi.triggeringevent";
```

/**
 * The topic name for the virtual timer topic. Time based schedules should
 * be created using this topic.
 */

```
public static final String TIMER_TOPIC = "org/osgi/application/timer";
```

/**
 * The name of the <i>year</i> attribute of a virtual timer event. The value
 * is defined by [@link java.util.Calendar#YEAR].
 */

```
public static final String YEAR = "year";
```

/**
 * The name of the <i>month</i> attribute of a virtual timer event. The
 * value is defined by [@link java.util.Calendar#MONTH].
 */

```
public static final String MONTH = "month";
```

/**
 * The name of the <i>day of month</i> attribute of a virtual timer event.
 * The value is defined by [@link java.util.Calendar#DAY_OF_MONTH].
 */

```
public static final String DAY_OF_MONTH = "day_of_month";
```

/**
 * The name of the <i>day of week</i> attribute of a virtual timer event.
 * The value is defined by [@link java.util.Calendar#DAY_OF_WEEK].
 */

```
public static final String DAY_OF_WEEK = "day_of_week";
```

/**
 * The name of the <i>hour of day</i> attribute of a virtual timer event.
 * The value is defined by [@link java.util.Calendar#HOUR_OF_DAY].
 */

```
public static final String HOUR_OF_DAY = "hour_of_day";
```

/**
 * The name of the <i>minute</i> attribute of a virtual timer event. The
 * value is defined by [@link java.util.Calendar#MINUTE].
 */

```
public static final String MINUTE = "minute";
```
/**
 * Returns the identifier of this schedule. The identifier is unique within
 * the scope of the application that the schedule is related to.
 *
 * @return the identifier of this schedule
 *
 */
public String getScheduleId();

/**
 * Queries the topic of the triggering event. The topic may contain a
 * trailing asterisk as wildcard.
 *
 * @return the topic of the triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 *
 */
public String getTopic();

/**
 * Queries the event filter for the triggering event.
 *
 * @return the event filter for triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 *
 */
public String getEventFilter();

/**
 * Queries if the schedule is recurring.
 *
 * @return true if the schedule is recurring, otherwise returns false
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 *
 */
public boolean isRecurring();

/**
 * Retrieves the ApplicationDescriptor which represents the application and
 * necessary for launching.
 *
 * @return the application descriptor that represents the scheduled
 * application
 *
 * @throws IllegalStateException if the scheduled application service is
 *
 */


unregistered
*/

public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the startup arguments specified when the application was
 * scheduled. The method returns a copy of the arguments, it is not possible
 * to modify the arguments after scheduling.
 * *
 * @return the startup arguments of the scheduled application. It may be
 * null if null argument was specified.
 * *
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */

public Map getArguments();

/**
 * Cancels this schedule of the application.
 * *
 * @throws SecurityException if the caller doesn't have "schedule"
 * ApplicationAdminPermission for the scheduled application.
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */

public void remove();

} /*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.cm;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Filter;

/**
 * Indicates a bundle's authority to configure bundles or be updated by
 * Configuration Admin.
 * @ThreadSafe
 * @author $Id: 8d063b34f0b7e467b8bf7ecd8b8e6d42384fdeb7$
 * @since 1.2
 */

public final class ConfigurationPermission extends BasicPermission {
    static final long serialVersionUID = 5716868734811965383L;
    /**
     * Provides permission to create new configurations for other bundles as
     * well as manipulate them. The action string [@value #CONFIGURE].
     */
    public final static String CONFIGURE = "configure";

    /**
     * The permission to be updated, that is, act as a Managed Service or
     * Managed Service Factory. The action string [@value #TARGET].
     * @since 1.4
     */
    public final static String TARGET = "target";

    private final static int ACTION_CONFIGURE = 0x00000001;
    private final static int ACTION_TARGET = 0x00000002;
    private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
    final static int ACTION_NONE = 0;

    /**
     * The actions mask.
     */
    transient int action_mask;
/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * Parsed name if it includes wildcards: "*"
 */
private transient List<String> substrings;

/**
 * Create a new ConfigurationPermission.
 *
 * @param name Name of the permission. Wildcards (\@code '{code '*'}\) are allowed
 *             in the name. During \@link \#implies(Permission)\, the name is
 *             matched to the requested permission using the substring matching
 *             rules used by \@link Filter\{}s.
 * @param actions Comma separated list of \@link \#CONFIGURE\, \@link \#TARGET\ (case insensitive).
 */
public ConfigurationPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by ConfigurationPermissionCollection.
 *
 * @param name location string
 * @param mask action mask
 */
ConfigurationPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param mask action mask
 */
private void setTransients(int mask) {
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
}
substrings = parseSubstring(getName());
}

/**
 * Parse action string into action mask.
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;

    if (actions == null) {
        return mask;
    }

    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;

        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;

        // check for the known strings
        int matchlen;
        if (i >= 5 && (a[i - 5] == 't' || a[i - 5] == 'T')
            && (a[i - 4] == 'a' || a[i - 4] == 'A')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'g' || a[i - 2] == 'G')
            && (a[i - 1] == 'e' || a[i - 1] == 'E')
            && (a[i] == 't' || a[i] == 'T'))
            matchlen = 6;
        else
            if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
                && (a[i - 7] == 'o' || a[i - 7] == 'O')
                && (a[i - 6] == 'n' || a[i - 6] == 'N')
                && (a[i - 5] == 'f' || a[i - 5] == 'F')

 // skip whitespace
 while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
 i--;

 // check for the known strings
 int matchlen;

 if (i >= 5 && (a[i - 5] == 't' || a[i - 5] == 'T')
 && (a[i - 4] == 'a' || a[i - 4] == 'A')
 && (a[i - 3] == 'r' || a[i - 3] == 'R')
 && (a[i - 2] == 'g' || a[i - 2] == 'G')
 && (a[i - 1] == 'e' || a[i - 1] == 'E')
 && (a[i] == 't' || a[i] == 'T'))
 matchlen = 6;
 mask |= ACTION_TARGET;

 } else
 if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
 && (a[i - 7] == 'o' || a[i - 7] == 'O')
 && (a[i - 6] == 'n' || a[i - 6] == 'N')
 && (a[i - 5] == 'f' || a[i - 5] == 'F')
&& (a[i - 4] == 'i' || a[i - 4] == 'I')
&& (a[i - 3] == 'g' || a[i - 3] == 'G')
&& (a[i - 2] == 'u' || a[i - 2] == 'U')
&& (a[i - 1] == 'r' || a[i - 1] == 'R')
&& (a[i] == 'e' || a[i] == 'E')) {
  matchlen = 9;
  mask |= ACTION_CONFIGURE;
} else {
  // parse error
  throw new IllegalArgumentException("invalid actions: " + actions);
}

// make sure we didn't just match the tail of a word
// like "ackbarftarget". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
  switch (a[i - matchlen]) {
    case ',':
      seencomma = true;
      /* FALLTHROUGH */
    case ' ':  
    case '\r':
    case '\n':
    case '\f':
    case '\t':
      break;
    default:
      throw new IllegalArgumentException("invalid permission: " + actions);
  }
  i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;
}

if (seencomma) {
  throw new IllegalArgumentException("invalid actions: " + actions);
}

return mask;
}

/**
 * Parse the name for wildcard processing.
 *
 * @param name The name of the permission.
private static List<String> parseSubstring(String name) {
if (name.indexOf('*') < 0) {
    return null;
}
char[] chars = name.toCharArray();
StringBuffer sb = new StringBuffer(chars.length);

List<String> sub = new ArrayList<String>(10);

for (int pos = 0; pos < chars.length; pos++) {
    char c = chars[pos];
    switch (c) {
    case '*': {
        if (sb.length() > 0) {
            sub.add(sb.toString());
        }
        sb.setLength(0);
        sub.add(null);
        break;
    }
    case '\': {
        pos++;
        if (pos < chars.length) {
            c = chars[pos];
        }
        /* fall through into default */
    }
    default: {
        sb.append(c);
        break;
    }
    }

    if (sb.length() > 0) {
        sub.add(sb.toString());
    }

    int size = sub.size();
    if (size == 0) {
        return null;
    }
if (size == 1) {
    if (sub.get(0) != null) {
        return null;
    }
}
return sub;

/**
 * Determines if a {code ConfigurationPermission} object "implies" the
 * specified permission.
 *
 * @param p The target permission to check.
 * @return {code true} if the specified permission is implied by this
 *         object; {code false} otherwise.
 */
public boolean implies(Permission p) {
    if (!(p instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission requested = (ConfigurationPermission) p;
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested ConfigurationPermission which has already
 *        be validated as a proper argument.
 * @param effective The effective actions with which to start.
 * @return {code true} if the specified permission is implied by this
 *         object; {code false} otherwise.
 */
boolean implies0(ConfigurationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    String requestedName = requested.getName();
    if (substrings == null) {
        return getName().equals(requestedName);
    }
for (int i = 0, pos = 0, size = substrings.size(); i < size; i++) {
    String substr = substrings.get(i);

    if (i + 1 < size) /* if this is not that last substr */{
        if (substr == null) /* * */{
            String substr2 = substrings.get(i + 1);

            if (substr2 == null) /* ** */{
                continue; /* ignore first star */
                /* xxx */
                int index = requestedName.indexOf(substr2, pos);
            } else /* last substr */{
                if (substr == null) /* * */{
                    return true;
                    /* xxx */
                } else /* xxx */{
                    int len = substr.length();
                    if (requestedName.regionMatches(pos, substr, 0, len)) {
                        pos += len;
                    } else {
                        return false;
                    }
                    } else /* last substr */{
            } else /* last substr */{
                return requestedName.endsWith(substr);
            }
        } else /* last substr */{
            return false;
        }
    } else /* last substr */{
        return false;
    }
}

/**
 * Determines the equality of two ConfigurationPermission objects.
 */

public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }

    if (!(obj instanceof ConfigurationPermission)) {
        return false;
    }

    ConfigurationPermission cp = (ConfigurationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName());
}

/**
 * Returns the hash code value for this object.
 * @return Hash code value for this object.
 */

public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * Returns the canonical string representation of the
 * ConfigurationPermission actions.
 * Always returns present ConfigurationPermission actions in the
 * following order: CONFIGURE, TARGET
 * @return Canonical string representation of the
 * ConfigurationPermission actions.
 */

public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;

        // Remaining code...
if ((mask & ACTION_CONFIGURE) == ACTION_CONFIGURE) {
    sb.append(CONFIGURE);
    comma = true;
}

if ((mask & ACTION_TARGET) == ACTION_TARGET) {
    if (comma)
        sb.append(',');
    sb.append(TARGET);
}

actions = result = sb.toString();
}

return result;
}

/**
 * Returns a new [code PermissionCollection] object suitable for storing
 * [code ConfigurationPermission]s.
 *
 * @return A new [code PermissionCollection] object.
 */
public PermissionCollection newPermissionCollection() {
    return new ConfigurationPermissionCollection();
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the data, then initialize the transients
    s.defaultReadObject();
    setTransients(parseActions(actions));
final class ConfigurationPermissionCollection extends PermissionCollection {
	static final long serialVersionUID = -6917638867081695839L;

	/**
	 * Collection of permissions.
	 *
	 * @serial
	 * @GuardedBy this
	 */
	part private Map<String, ConfigurationPermission>permissions;

	part /**
	 * Boolean saying if "*" is in the collection.
	 *
	 * @serial
	 * @GuardedBy this
	 */
	part boolean all_allowed;

	part /**
	 * Creates an empty {code ConfigurationPermissionCollection} object.
	 *
	 */
	part ConfigurationPermissionCollection() {
	permissions = new HashMap<String, ConfigurationPermission>();
	all_allowed = false;
	}

	part /**
	 * Adds the specified permission to the
	 * {code ConfigurationPermissionCollection}. The key for the hash is the
	 * interface name of the service.
	 *
	 * @param permission The {code Permission} object to add.
	 *
	 * @exception IllegalArgumentException If the permission is not an
	 * {code ConfigurationPermission}.
	 *
	 * @exception SecurityException If this ConfigurationPermissionCollection
public void add(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
      throw new IllegalArgumentException("invalid permission: " + permission);
    }

    if (isReadOnly())
      throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");

    final ConfigurationPermission cp = (ConfigurationPermission) permission;
    final String name = cp.getName();
    synchronized (this) {
      Map<String, ConfigurationPermission> pc = permissions;
      final ConfigurationPermission existing = pc.get(name);
      if (existing != null) {
        final int oldMask = existing.action_mask;
        final int newMask = cp.action_mask;
        if (oldMask != newMask) {
          pc.put(name, new ConfigurationPermission(name, oldMask | newMask));
        }
      } else {
        pc.put(name, cp);
      }
    }

    if (!all_allowed) {
      if (name.equals("**")) {
        all_allowed = true;
      }
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in [@code permission].
 * @param permission The Permission object to compare with this
 * @code ConfigurationPermission] object.
 * @return [@code true] if [@code permission] is a proper subset of a
 * permission in the set; [@code false] otherwise.
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
      return false;
    }
    final ConfigurationPermission requested = (ConfigurationPermission) permission;

int effective = ConfigurationPermission.ACTION_NONE;

Collection<ConfigurationPermission> perms;

synchronized (this) {
    Map<String, ConfigurationPermission> pc = permissions;
    /* short circuit if the "*" Permission was added */
    if (all_allowed) {
        ConfigurationPermission cp = pc.get("*");
        if (cp != null) {
            effective |= cp.action_mask;
            final int desired = requested.action_mask;
            if ((effective & desired) == desired) {
                return true;
            }
        } else {
            perms = pc.values();
        }
        /* iterate one by one over permissions */
        for (ConfigurationPermission perm : perms) {
            if (perm.implies0(requested, effective)) {
                return true;
            }
        }
        return false;
    }

    /**
     * Returns an enumeration of all ConfigurationPermission objects in the container.
     * @return Enumeration of all ConfigurationPermission objects.
     */
    public synchronized Enumeration<Permission> elements() {
        List<Permission> all = new ArrayList<Permission>(permissions.values());
        return Collections.enumeration(all);
    }

    /* serialization logic */
    private static final ObjectStreamField[] serialPersistentFields = {
        new ObjectStreamField("hasElement", Boolean.TYPE),
        new ObjectStreamField("permissions", HashMap.class),
        new ObjectStreamField("all_allowed", Boolean.TYPE)
    };

    private synchronized void writeObject(ObjectOutputStream out) throws IOException {
        ObjectOutputStream.PutField pfields = out.putFields();
        pfields.put("hasElement", false);
        pfields.put("permissions", permissions);
        pfields.put("all_allowed", all_allowed);
    }
}
out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
ObjectInputStream.GetField gfields = in.readFields();
boolean hasElement = gfields.get("hasElement", false);
if (hasElement) { // old format
permissions = new HashMap<String, ConfigurationPermission>();
permissions.put("*", new ConfigurationPermission("*", ConfigurationPermission.CONFIGURE));
all_allowed = true;
} else {
permissions = (HashMap<String, ConfigurationPermission>) gfields.get("permissions", new HashMap<String, ConfigurationPermission>());
all_allowed = gfields.get("all_allowed", false);
}
}

/*==================================================================
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* limitations under the License.
*/

package org.osgi.service.component.annotations;

/**
 * Configuration Policy for the {@link Component} annotation.
 *<p>
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 */
@since 1.1
@link Component
@auth $Id: 2bb2640aedd7d09de30e9ec3f471f6a8cccfcf3c $
public enum ConfigurationPolicy {
  /**
   * Use the corresponding Configuration object if present but allow the
   * component to be satisfied even if the corresponding Configuration object
   * is not present.
   */
  OPTIONAL("optional"),
  /**
   * There must be a corresponding Configuration object for the component
   * configuration to become satisfied.
   */
  REQUIRE("require"),
  /**
   * Always allow the component configuration to be satisfied and do not use
   * the corresponding Configuration object even if it is present.
   */
  IGNORE("ignore");

  private final String value;
  ConfigurationPolicy(String value) {
    this.value = value;
  }

  @Override
  public String toString() {
    return value;
  }
}

package org.osgi.service.component.annotations;
/**
 * Policy for the [ @link Reference ] annotation.
 *
 * @author $Id: 835125670fa25ca1205beacabb2d4cfa5896fd4 $
 */
public enum ReferencePolicy {
    /**
     * The static policy is the most simple policy and is the default policy. A
     * component instance never sees any of the dynamics. Component
     * configurations are deactivated before any bound service for a reference
     * having a static policy becomes unavailable. If a target service is
     * available to replace the bound service which became unavailable, the
     * component configuration must be reactivated and bound to the replacement
     * service.
     */
    STATIC("static"),
    /**
     * The dynamic policy is slightly more complex since the component
     * implementation must properly handle changes in the set of bound services.
     * With the dynamic policy, SCR can change the set of bound services without
     * deactivating a component configuration. If the component uses the event
     * strategy to access services, then the component instance will be notified
     * of changes in the set of bound services by calls to the bind and unbind
     * methods.
     */
    DYNAMIC("dynamic"),

    private final String value;

    ReferencePolicy(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    } 

    private final String value;

    ReferencePolicy(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }

    /*
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     * You may obtain a copy of the License at
     *
     *    http://www.apache.org/licenses/LICENSE-2.0
     */
package org.osgi.service.component.annotations;

/**
 * Policy option for the [@link Reference] annotation.
 *
 * @author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $
 * @since 1.2
 */
public enum ReferencePolicyOption {

    RELUCTANT("reluctant"),

    GREEDY("greedy"),

    private final String value;

    ReferencePolicyOption(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }

    public String value() {
        return value;
    }

    @Override
    public String toString() {
        return value;
    }
}

/**
 * The reluctant policy option is the default policy option for both
 * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
 * dynamic] reference policies. When a new target service for a reference
 * becomes available, references having the reluctant policy option for the
 * static policy or the dynamic policy with a unary cardinality will ignore
 * the new target service. References having the dynamic policy with a
 * multiple cardinality will bind the new target service.
 */
public enum ReferencePolicyOption {

    RELUCTANT("reluctant"),

    GREEDY("greedy"),

    private final String value;

    ReferencePolicyOption(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }

    public String value() {
        return value;
    }

    @Override
    public String toString() {
        return value;
    }
}
package org.osgi.service.coordinator;

import java.io.IOException;
import java.io.NotSerializableException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.AccessController;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Bundle;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * A bundle's authority to create or use a [@link Coordination].
 *
 * <p>
 * [@code CoordinationPermission] has three actions: [@code initiate],
 * [@code participate] and [@code admin].
 */
* @ThreadSafe
* @author $Id: 13aa34eaea5f268a315be475fa8bb7b2718415bd $
*/
public final class CoordinationPermission extends BasicPermission {

private static final long serialVersionUID = 1L;

/**
 * The action string {@code initiate}.
 */
public final static String INITIATE = "initiate";

/**
 * The action string {@code participate}.
 */
public final static String PARTICIPATE = "participate";

/**
 * The action string {@code admin}.
 */
public final static String ADMIN = "admin";

private final static int ACTION_INITIATE = 0x00000001;
private final static int ACTION_PARTICIPATE = 0x00000002;
private final static int ACTION_ADMIN = 0x00000004;
private final static int ACTION_ALL = ACTION_INITIATE | ACTION_PARTICIPATE | ACTION_ADMIN;
final static int ACTION_NONE = 0;

/**
 * The actions mask.
 */
transient int action_mask;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * The bundle used by this CoordinationPermission.
 */
transient final Bundle bundle;

/**
 * If this CoordinationPermission was constructed with a filter, this holds
 * a Filter matching object used to evaluate the filter in implies.
 */
transient Filter filter;
/**
 * This map holds the properties of the permission, used to match a filter
 * in implies. This is not initialized until necessary, and then cached in
 * this object.
 */
private transient volatile Map<String, Object> properties;

/**
 * Creates a new granted CoordinationPermission object.
 *
 * This constructor must only be used to create a permission that is going
 * to be checked.
 *
 * Examples:
 *
 * <pre>
 * (coordination.name=com.acme.*)
 * (&amp;(signer=*,o=ACME,c=US)(coordination.name=com.acme.*))
 * (signer=\*,o=ACME,c=US)
 * </pre>
 *
 * When a signer key is used within the filter expression the signer value
 * must escape the special filter chars ('*', '(', ')').
 *
 * The name is specified as a filter expression. The filter gives access to
 * the following attributes:
 *
 * <ul>
 * <li>signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.</li>
 * <li>location - The location of the exporting bundle.</li>
 * <li>id - The bundle ID of the exporting bundle.</li>
 * <li>name - The symbolic name of the exporting bundle.</li>
 * <li>coordination.name - The name of the requested coordination.</li>
 * </ul>
 * Filter attribute names are processed in a case sensitive manner.
 *
 * @param filter A filter expression. Filter attribute names are processed
 * in a case sensitive manner. A special value of "*" can be
 * used to match all coordinations.
 * @param actions [admin], [initiate] or [participate]
 * (canonical order).
 * @throws IllegalArgumentException If the filter has an invalid syntax.
 */
public CoordinationPermission(String filter, String actions) {
    this(parseFilter(filter), parseActions(actions));
/**
 * Creates a new requested CoordinationPermission object to be used by the code that must perform checkPermission.
 * CoordinationPermission objects created with this constructor cannot be added to an CoordinationPermission permission collection.
 * @param coordinationName The name of the requested Coordination.
 * @param coordinationBundle The bundle which Coordination#getBundle() created the requested Coordination.
 * @param actions admin, initiate or participate (canonical order).
 */
public CoordinationPermission(String coordinationName, Bundle coordinationBundle, String actions) {
    super(coordinationName);
    setTransients(null, parseActions(actions));
    this.bundle = coordinationBundle;
    if (coordinationName == null) {
        throw new NullPointerException("coordinationName must not be null");
    }
    if (coordinationBundle == null) {
        throw new NullPointerException("coordinationBundle must not be null");
    }
}

/**
 * Package private constructor used by CoordinationPermissionCollection.
 * @param filter name filter
 * @param mask action mask
 */
CoordinationPermission(Filter filter, int mask) {
    super((filter == null) ? "*" : filter.toString());
    setTransients(filter, mask);
    this.bundle = null;
}

/**
 * Called by constructors and when deserialized.
 * @param filter Permission's filter or null for wildcard.
 * @param mask action mask
 */
private void setTransients(Filter filter, int mask) {
    this.filter = filter;
}
if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
    throw new IllegalArgumentException("invalid action string");
}
this.action_mask = mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;

    if (actions == null) {
        return mask;
    }

    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;

    while (i != -1) {
        char c;

        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;

        // check for the known strings
        int matchlen;
        if (i >= 4 && (a[i - 4] == 'a' || a[i - 4] == 'A')
            && (a[i - 3] == 'd' || a[i - 3] == 'D')
            && (a[i - 2] == 'm' || a[i - 2] == 'M')
            && (a[i - 1] == 'i' || a[i - 1] == 'I')
            && (a[i] == 'n' || a[i] == 'N')) {
            matchlen = 5;
            mask |= ACTION_ADMIN;
        }
        else
            if (i >= 7 && (a[i - 7] == 'i' || a[i - 7] == 'I')
                && (a[i - 6] == 'd' || a[i - 6] == 'D')
                && (a[i - 5] == 'm' || a[i - 5] == 'M')
                && (a[i - 4] == 'a' || a[i - 4] == 'A')
                && (a[i - 3] == 'n' || a[i - 3] == 'N')
                && (a[i - 2] == 'i' || a[i - 2] == 'I')
                && (a[i - 1] == 'm' || a[i - 1] == 'M')
                && (a[i] == 'l' || a[i] == 'L')
                && (a[i + 1] == 'l' || a[i + 1] == 'L')) {
                matchlen = 9;
                mask |= ACTION_ADMIN;
            }
            else
                if (i >= 8 && (a[i - 8] == 'i' || a[i - 8] == 'I')
                    && (a[i - 7] == 'd' || a[i - 7] == 'D')
                    && (a[i - 6] == 'm' || a[i - 6] == 'M')
                    && (a[i - 5] == 'a' || a[i - 5] == 'A')
                    && (a[i - 4] == 'n' || a[i - 4] == 'N')
                    && (a[i - 3] == 'i' || a[i - 3] == 'I')
                    && (a[i - 2] == 'm' || a[i - 2] == 'M')
                    && (a[i - 1] == 'l' || a[i - 1] == 'L')
                    && (a[i] == 'l' || a[i] == 'L')) {
                matchlen = 12;
                mask |= ACTION_ADMIN;
            }
            else
                if (i >= 9 && (a[i - 9] == 'i' || a[i - 9] == 'I')
                    && (a[i - 8] == 'd' || a[i - 8] == 'D')
                    && (a[i - 7] == 'm' || a[i - 7] == 'M')
                    && (a[i - 6] == 'a' || a[i - 6] == 'A')
                    && (a[i - 5] == 'n' || a[i - 5] == 'N')
                    && (a[i - 4] == 'i' || a[i - 4] == 'I')
                    && (a[i - 3] == 'm' || a[i - 3] == 'M')
                    && (a[i - 2] == 'l' || a[i - 2] == 'L')
                    && (a[i - 1] == 'l' || a[i - 1] == 'L')
                    && (a[i] == 'l' || a[i] == 'L')) {
                matchlen = 15;
                mask |= ACTION_ADMIN;
            }
        }
    }

&& (a[i - 6] == 'n' || a[i - 6] == 'N')
&& (a[i - 5] == 'i' || a[i - 5] == 'I')
&& (a[i - 4] == 't' || a[i - 4] == 'T')
&& (a[i - 3] == 'i' || a[i - 3] == 'I')
&& (a[i - 2] == 'a' || a[i - 2] == 'A')
&& (a[i - 1] == 't' || a[i - 1] == 'T')
&& (a[i] == 'e' || a[i] == 'E')) {
    matchlen = 8;
    mask |= ACTION_INITIATE;
}
else {
    if (i >= 10 && (a[i - 10] == 'p' || a[i - 10] == 'P')
    && (a[i - 9] == 'a' || a[i - 9] == 'A')
    && (a[i - 8] == 'r' || a[i - 8] == 'R')
    && (a[i - 7] == 't' || a[i - 7] == 'T')
    && (a[i - 6] == 'i' || a[i - 6] == 'I')
    && (a[i - 5] == 'c' || a[i - 5] == 'C')
    && (a[i - 4] == 'i' || a[i - 4] == 'I')
    && (a[i - 3] == 'p' || a[i - 3] == 'P')
    && (a[i - 2] == 'a' || a[i - 2] == 'A')
    && (a[i - 1] == 't' || a[i - 1] == 'T')
    && (a[i] == 'e' || a[i] == 'E')) {
        matchlen = 11;
        mask |= ACTION_PARTICIPATE;
    } else {
        // parse error
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
}

// make sure we didn't just match the tail of a word
// like "ackbarfadmin". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',' :
        seencomma = true;
        /* FALLTHROUGH */
    case ' ' :
    case '' :
    case '
' :
    case '' :
    case '	' :
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
// point i at the location of the comma minus one (or -1).
i -= matchlen;

if (seencomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}

return mask;

/**
 * Parse filter string into a Filter object.
 *
 * @param filterString The filter string to parse.
 * @return a Filter for this bundle.
 * @throws IllegalArgumentException If the filter syntax is invalid.
 */
private static Filter parseFilter(String filterString) {
    filterString = filterString.trim();
    if (filterString.equals("*")) {
        return null;
    }
    try {
        return FrameworkUtil.createFilter(filterString);
    } catch (InvalidSyntaxException e) {
        IllegalArgumentException iae = new IllegalArgumentException("invalid filter");
        iae.initCause(e);
        throw iae;
    }
}

/**
 * Determines if the specified permission is implied by this object.
 *
 * This method checks that the filter of the target is implied by the
 * coordination name of this object. The list of
 * [CoordinationPermission] actions must either match or allow for the
 * list of the target object to imply the target
 * [CoordinationPermission] action.
 * </p>
 * @param p The requested permission.
public boolean implies(Permission p) {
    if (!(p instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission requested = (CoordinationPermission) p;
    if (bundle != null) {
        return false;
    }
    if (requested.filter != null) {
        return false;
    }
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested CoordinationPermission which has already
 *        be validated as a proper argument. The requested
 *        CoordinationPermission must not have a filter expression.
 * @param effective The effective actions with which to start.
 * @return {@code true} if the specified permission is implied by this
 *         object; {@code false} otherwise.
 *
 */
boolean implies0(CoordinationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    /* Get filter */
    Filter f = filter;
    if (f == null) {
        return true;
    }
    return f.matches(requested.getProperties());
}

/**
 * Returns the canonical string representation of the
 * {@code CoordinationPermission} actions.
 */
Always returns present \emph{@code CoordinationPermission} actions in the following order: \emph{@code admin}, \emph{@code initiate}, \emph{@code participate}.

@returns Canonical string representation of the \emph{@code CoordinationPermission} actions.

```java
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_ADMIN) == ACTION_ADMIN) {
            sb.append(ADMIN);
            comma = true;
        }

        if ((mask & ACTION_INITIATE) == ACTION_INITIATE) {
            if (comma)
                sb.append(',');
            sb.append(INITIATE);
            comma = true;
        }

        if ((mask & ACTION_PARTICIPATE) == ACTION_PARTICIPATE) {
            if (comma)
                sb.append(',');
            sb.append(PARTICIPATE);
            comma = true;
        }

        actions = result = sb.toString();
    }

    return result;
}
```

/**
 * Returns a new \emph{@code PermissionCollection} object suitable for storing \emph{@code CoordinationPermission} objects.
 * @returns A new \emph{@code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new CoordinationPermissionCollection();
}
/**
 * Determines the equality of two CoordinationPermission objects.
 *
 * This method checks that specified permission has the same name and
 * CoordinationPermission actions as this CoordinationPermission object.
 *
 * @param obj The object to test for equality with this CoordinationPermission object.
 * @return true if obj is a CoordinationPermission, and has the same name and actions as this CoordinationPermission object; false otherwise.
 */
public boolean equals(Object obj) {
if (obj == this) {
    return true;
}
if (!(obj instanceof CoordinationPermission)) {
    return false;
}
CoordinationPermission cp = (CoordinationPermission) obj;
return (action_mask == cp.action_mask) && getName().equals(cp.getName()) && ((bundle == cp.bundle) ||
((bundle != null) && bundle.equals(cp.bundle)));
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
int h = 31 * 17 + getName().hashCode();
h = 31 * h + getActions().hashCode();
if (bundle != null) {
    h = 31 * h + bundle.hashCode();
}
return h;
}

/**
 * WriteObject is called to save the state of this permission object to a stream. The actions are serialized, and the superclass takes care of the name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    if (bundle != null) {
        throw new NotSerializableException("cannot serialize");
    }
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseFilter(getName()), parseActions(actions));
}

/**
 * Called by {@link CoordinationPermission#implies(Permission)}. This method
 * is only called on a requested permission which cannot have a filter set.
 *
 * @return a map of properties for this permission.
 */
private Map<String, Object> getProperties() {
    Map<String, Object> result = properties;
    if (result != null) {
        return result;
    }
    final Map<String, Object> map = new HashMap<String, Object>(5);
    map.put("coordination.name", getName());
    if (bundle != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
            public Object run() {
                map.put("id", new Long(bundle.getBundleId()));
                map.put("location", bundle.getLocation());
                String name = bundle.getSymbolicName();
                if (name != null) {
                    map.put("name", name);
                }
                SignerProperty signer = new SignerProperty(bundle);
                if (signer.isBundleSigned()) {
                    map.put("bundleSigned()");
                }
            }
            return null;
        });
    }
    return map;
}
final class SignerProperty {

private final Bundle bundle;
private final String pattern;

/**
 * String constructor used by the filter matching algorithm to construct a
 * SignerProperty from the attribute value in a filter expression.
 * @param pattern Attribute value in the filter expression.
 */
public SignerProperty(String pattern) {
this.pattern = pattern;
this.bundle = null;
}

/**
 * Used by the permission implies method to build the properties for a
 * filter match.
 * @param bundle The bundle whose signers are to be matched.
 */
SignerProperty(Bundle bundle) {
this.bundle = bundle;
this.pattern = null;
}

/**
 * Used by the filter matching algorithm. This methods does NOT satisfy the
 * normal equals contract. Since the class is only used in filter expression
 * evaluations, it only needs to support comparing an instance created with
 * a Bundle to an instance created with a pattern string from the filter
 * expression.
 * @param o SignerProperty to compare against.
 * @return true if the DN name chain matches the pattern.
 */
public boolean equals(Object o) {
    if (!(o instanceof SignerProperty))
        return false;
    SignerProperty other = (SignerProperty) o;
    Bundle matchBundle = bundle != null ? bundle : other.bundle;
    String matchPattern = bundle != null ? other.pattern : pattern;
    Map<X509Certificate, List<X509Certificate>> signers =
        matchBundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    for (List<X509Certificate> signerCerts : signers.values()) {
        List<String> dnChain = new ArrayList<String>(signerCerts.size());
        for (X509Certificate signerCert : signerCerts) {
            dnChain.add(signerCert.getSubjectDN().getName());
        }
        try {
            if (FrameworkUtil.matchDistinguishedNameChain(matchPattern, dnChain)) {
                return true;
            }
        } catch (IllegalArgumentException e) {
            continue; // bad pattern
        }
    }
    return false;
}

/**
 * Since the equals method does not obey the general equals contract, this
 * method cannot generate hash codes which obey the equals contract.
 */
public int hashCode() {
    return 31;
}

/**
 * Check if the bundle is signed.
 * @return true if constructed with a bundle that is signed.
 */
boolean isBundleSigned() {
    if (bundle == null) {
        return false;
    }
    Map<X509Certificate, List<X509Certificate>> signers =
        bundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    return !signers.isEmpty();
}
final class CoordinationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -3350758995234427603L;

    private Map<String, CoordinationPermission> permissions;

    private boolean all_allowed;

    public CoordinationPermissionCollection() {
        permissions = new HashMap<String, CoordinationPermission>();
        all_allowed = false;
    }

    public void add(final Permission permission) {
        if (!(permission instanceof CoordinationPermission)) {
            throw new IllegalArgumentException("invalid permission: " + permission);
        }
    }
}

/**
 * Stores a set of CoordinationPermission permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final CoordinationPermission cp = (CoordinationPermission) permission;
if (cp.bundle != null) {
    throw new IllegalArgumentException("cannot add to collection: " + cp);
}

final String name = cp.getName();
synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    final CoordinationPermission existing = pc.get(name);
    if (existing != null) {
        final int oldMask = existing.action_mask;
        final int newMask = cp.action_mask;
        if (oldMask != newMask) {
            pc.put(name, new CoordinationPermission(existing.filter, oldMask | newMask));
        }
    } else {
        pc.put(name, cp);
    }
}

if (!all_allowed) {
    if (name.equals("*")) {
        all_allowed = true;
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in { @code permission }.  
 * 
 * @param permission The Permission object to compare with this
 * @return { @code true } if { @code permission } is a proper subset of a
 *         permission in the set; { @code false } otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        return false;
    }
    final CoordinationPermission requested = (CoordinationPermission) permission;
    if (requested.isFiltered()) {
        return false;
    }
    final String requestedName = requested.getName();
    if (requestedName.equals("*") && all_allowed) {
        return true;
    }
    if (!requestedName.equals("*")) {
        Map<String, CoordinationPermission> pc = permissions;
        for (Map.Entry<String, CoordinationPermission> entry : pc.entrySet()) {
            if (entry.getKey().equals(requestedName)) {
                CoordinationPermission existing = entry.getValue();  
                if (existing.isFiltered()) {
                    return false;  
                }
                int oldMask = existing.getActionMask();
                int newMask = requested.getActionMask();  
                if (oldMask != newMask) {
                    return false;  
                }
            }
        }
    }
    return true;
}
if (requested.filter != null) {
    return false;
}

int effective = CoordinationPermission.ACTION_NONE;

Collection<CoordinationPermission> perms;
synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    /* short circuit if the "*" Permission was added */
    if (all_allowed) {
        CoordinationPermission cp = pc.get("*");
        if (cp != null) {
            effective |= cp.action_mask;
            final int desired = requested.action_mask;
            if ((effective & desired) == desired) {
                return true;
            }
        }
    }
    perms = pc.values();
}
/* iterate one by one over filteredPermissions */
for (CoordinationPermission perm : perms) {
    if (perm.implies0(requested, effective)) {
        return true;
    }
}
return false;

/**
 * Returns an enumeration of all {@code CoordinationPermission} objects in
 * the container.
 *
 * @return Enumeration of all {@code CoordinationPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", HashMap.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    
    
}
pfields.put("permissions", permissions);
pfields.put("all_allowed", all_allowed);
out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{
ObjectInputStream.GetField gfields = in.readFields();
permissions = (HashMap<String, CoordinationPermission>) gfields.get("permissions", null);
all_allowed = gfields.get("all_allowed", false);
}
/*
 * Copyright (c) OSGi Alliance (2005, 2012). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * *
 * http://www.apache.org/licenses/LICENSE-2.0
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 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.deploymentadmin.spi;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;
import org.osgi.service.deploymentadmin.DeploymentAdminPermission;

/**
 * The {DeploymentCustomizerPermission} permission gives the right to
 * Resource Processors to access a bundle's (residing in a Deployment Package)
 * private area. The bundle and the Resource Processor (customizer) have to be
 * in the same Deployment Package.
 * 
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
/* The actions string is converted to lowercase before processing. */

public class DeploymentCustomizerPermission extends Permission {

/**
 * Constant String to the "privatearea" action.
 */

public static final String PRIVATEAREA = "privatearea";

private static final long serialVersionUID = 1L;

private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new [@code DeploymentCustomizerPermission] object for the given
 * [@code name] and [@code action].
 */

public class DeploymentCustomizerPermission extends Permission {

/**
 * Constant String to the "privatearea" action.
 */

public static final String PRIVATEAREA = "privatearea";

private static final long serialVersionUID = 1L;

private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new [@code DeploymentCustomizerPermission] object for the given
 * [@code name] and [@code action].
 */

public class DeploymentCustomizerPermission extends Permission {

/**
 * Constant String to the "privatearea" action.
 */

public static final String PRIVATEAREA = "privatearea";

private static final long serialVersionUID = 1L;

private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new [@code DeploymentCustomizerPermission] object for the given
 * [@code name] and [@code action].
 */

public class DeploymentCustomizerPermission extends Permission {

/**
 * Constant String to the "privatearea" action.
 */

public static final String PRIVATEAREA = "privatearea";

private static final long serialVersionUID = 1L;

private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}
* attribute is a Bundle Symbolic Name that represents a bundle. The only
* allowed action is the "privatearea" action. E.g.
*<pre>
* Permission perm = new DeploymentCustomizerPermission(
*     \"(name=com.acme.bundle)\", \"privatearea\")
* </pre>
*
The Resource Processor that has this permission is allowed to access the
bundle's private area by calling the
[@link DeploymentSession#getDataFile(Bundle)] method. The Resource
Processor will have [@code FilePermission] with "read", "write" and
"delete" actions for the returned [@link java.io.File] and its
subdirectories during the deployment session.
*
* @param name Bundle Symbolic Name of the target bundle, must not be
  { @code null }.
* @param actions action string (only the "privatearea" or "*" action is
  valid; "*" means all the possible actions), must not be
  { @code null }.
* @throws IllegalArgumentException if the filter is invalid, the list of
  actions contains unknown operations or one of the parameters is
  { @code null }
*[/]
public DeploymentCustomizerPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[]{name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
        catch (Error e) {
            throw e;
        }
        catch (RuntimeException e) {
            throw new RuntimeException(e);
        }
    }
}
/**
* Checks two DeploymentCustomizerPermission objects for equality. Two
* permission objects are equal if:
* <p>
*<ul>
* <li>their target filters are equal (semantically and not character by

* @param obj the reference object with which to compare.
* @return true if the two objects are equal.
* @see java.lang.Object#equals(java.lang.Object)
*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) obj;
    return delegate.equals(dcp.delegate);
}

/**
* Returns hash code for this permission object.
* @return Hash code for this permission object.
* @see java.lang.Object#hashCode()
*/
public int hashCode() {
    return delegate.hashCode();
}

/**
* Returns the String representation of the action list.
* @return Action list of this permission instance. It is always
*         "privatearea".
* @see java.security.Permission#getActions()
*/
public String getActions() {
    return delegate.getActions();
}

/**
* Checks if this DeploymentCustomizerPermission would imply the parameter
* permission. This permission implies another
* DeploymentCustomizerPermission permission if:
* *
* <ul>
* <li>both of them has the "privatearea" action (other actions are not
* allowed) and</li>
* <li>their filters (only name attribute is allowed in the filters) match
* similarly to { @link DeploymentAdminPermission}. </li>
* </ul>
* @param obj the reference object with which to compare.
* @return true if the two objects are equal.
* @see java.lang.Object#equals(java.lang.Object)
*/
@param permission Permission to check.
@return true if this DeploymentCustomizerPermission object implies the specified permission.
@see java.security.Permission#implies(java.security.Permission)

public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentCustomizerPermission))
        return false;

    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) permission;

    return delegate.implies(dcp.delegate);
}

/**
 * Returns a new PermissionCollection object for storing DeploymentCustomizerPermission objects.
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */

public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}
package org.osgi.service.deploymentadmin;

import java.io.InputStream;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**
 * DeploymentAdminPermission controls access to the Deployment Admin service.
 * <p>
 * The permission uses a filter string formatted similarly to the
 * { @link org.osgi.framework.Filter}. The filter determines the target of the
 * permission. The { @code DeploymentAdminPermission} uses the { @code name} and
 * the { @code signer} filter attributes only. The value of the { @code signer}
 * attribute is matched against the signer chain (represented with its semicolon
 * separated Distinguished Name chain) of the Deployment Package, and the value
 * of the { @code name} attribute is matched against the value of the
 * "DeploymentPackage-Name" manifest header of the Deployment Package. Example:
 * 
 * <ul>
 * <li>(signer=cn = Bugs Bunny, o = ACME, c = US)</li>
 * <li>(name=org.osgi.ExampleApp)</li>
 * </ul>
 * 
 * Wildcards also can be used:
 * 
 * <pre>
 * (signer=cn=*,o=ACME,c=*)
 * </pre>
 * 
 * "cn" and "c" may have an arbitrary value
 * <pre>
 * (signer=*, o=ACME, c=US)
 * </pre>
 * 
 * Only the value of "o" and "c" are significant
 * <pre>
 * (signer=; ou=S &amp; V, o=Tweety Inc., c=US)
 * </pre>
 * */
* The first element of the certificate chain is not important, only the second
* (the Distinguished Name of the root certificate)
* 
* <pre>
* (signer=- ; *, o=Tweety Inc., c=US)
* </pre>
* 
* The same as the previous but `-:` represents zero or more certificates,
* whereas the asterisk only represents a single certificate
* 
* <pre>
* (name=*)
* </pre>
* 
* The name of the Deployment Package doesn't matter
* 
* <pre>
* (name=org.osgi.*)
* </pre>
* 
* The name has to begin with "org.osgi."
* 
* <p>
* The following actions are allowed:
* <p>
* 
* <b>list</b>
* 
* A holder of this permission can access the inventory information of the
* deployment packages selected by the &lt;filter&gt; string. The filter selects
* the deployment packages on which the holder of the permission can acquire
* detailed inventory information. See
* [@link DeploymentAdmin#getDeploymentPackage(Bundle)],
* [@link DeploymentAdmin#getDeploymentPackage(String)] and
* [@link DeploymentAdmin#listDeploymentPackages].
* <p>
* 
* <b>install</b>
* 
* A holder of this permission can install/update deployment packages if the
* deployment package satisfies the &lt;filter&gt; string. See
* [@link DeploymentAdmin#installDeploymentPackage].
* <p>
* 
* <b>uninstall</b>
* 
*
A holder of this permission can uninstall deployment packages if the deployment package satisfies the &lt;filter&gt; string. See \[@link DeploymentPackage#uninstall()\].

A holder of this permission can forcefully uninstall deployment packages if the deployment package satisfies the &lt;filter&gt; string. See \[@link DeploymentPackage#uninstallForced()\].

A holder of this permission can cancel an active deployment action. This action being canceled could correspond to the install, update or uninstall of a deployment package that satisfies the &lt;filter&gt; string. See \[@link DeploymentAdmin#cancel()\]

A holder of this permission is able to retrieve metadata information about a Deployment Package (e.g. is able to ask its manifest headers). See \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)\], \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()\], \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)\], \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)\], \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)\], \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceInfos()\], \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeaders()\]

The actions string is converted to lower case before processing.

```
public final class DeploymentAdminPermission extends Permission {

/**

* A holder of this permission can uninstall deployment packages if the
* deployment package satisfies the &lt;filter&gt; string. See
* \[@link DeploymentPackage#uninstall()\].
* 
* <p>
*
* <b>uninstall_forced</b>
* 
* A holder of this permission can forcefully uninstall deployment packages if
* the deployment package satisfies the &lt;filter&gt; string. See
* \[@link DeploymentPackage#uninstallForced()\].
* 
* <b>cancel</b>
* 
* A holder of this permission can cancel an active deployment action. This
* action being canceled could correspond to the install, update or uninstall of
* a deployment package that satisfies the &lt;filter&gt; string. See
* \[@link DeploymentAdmin#cancel()\]
* 
* <b>metadata</b>
* 
* A holder of this permission is able to retrieve metadata information about a
* Deployment Package (e.g. is able to ask its manifest headers). See
* \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)\],
* \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()\],
* \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)\],
* \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)\],
* \[@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)\], \[@link
* org.osgi.service.deploymentadmin.DeploymentPackage#getResourceInfos()\], \[@link
* org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeaders()\]
* 
* The actions string is converted to lower case before processing.
* /
```

```
* @see DeploymentAdmin#installDeploymentPackage(InputStream)
*/
public static final String INSTALL = "install";

/**
* Constant String to the "list" action.
* <p>
* @see DeploymentAdmin#listDeploymentPackages()
* @see DeploymentAdmin#getDeploymentPackage(String)
* @see DeploymentAdmin#getDeploymentPackage(Bundle)
*/
public static final String LIST = "list";

/**
* Constant String to the "uninstall" action.
* <p>
* @see DeploymentPackage#uninstall()
*/
public static final String UNINSTALL = "uninstall";

/**
* Constant String to the "uninstall_forced" action.
* <p>
* @see DeploymentPackage#uninstallForced()
*/
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
* Constant String to the "cancel" action.
* <p>
* @see DeploymentAdmin#cancel()
*/
public static final String CANCEL = "cancel";

/**
* Constant String to the "metadata" action.
* <p>
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
public static final String METADATA = "metadata";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property " + delegateProperty + " is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentAdminPermission");
                return c.getConstructor(new Class[]{String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new {code DeploymentAdminPermission} object for the given
 * {code name} and {code action}.
 * <p>
 * The {code name} parameter identifies the target deployment package the
 * permission relates to. The {code actions} parameter contains the comma
 * separated list of allowed actions.
 * <p>
 * @param name filter string, must not be null.
 * @param actions action string, must not be null. "*" means all the
 * possible actions.
 * @throws IllegalArgumentException if the filter is invalid, the list of
 * actions contains unknown operations or one of the parameters is
 * null
 * */
public DeploymentAdminPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[]{name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    }
}
** Checks two DeploymentAdminPermission objects for equality. Two permission
* objects are equal if:
* <p>
* <ul>
* <li>their target filters are semantically equal and</li>
* <li>their actions are the same</li>
* </ul>
* 
* @param obj The reference object with which to compare.
* @return true if the two objects are equal.
* @see java.lang.Object#equals(java.lang.Object)
*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) obj;
    return delegate.equals(dap.delegate);
}

/**
 * Returns hash code for this permission object.
 * 
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * <p>
 * The method always gives back the actions in the following (alphabetical)
 * order:
 * [@code cancel, install, list, metadata, uninstall, uninstall_forced]
 * 
 * @return Action list of this permission instance. This is a
* comma-separated list that reflects the action parameter of the
* constructor.
* @see java.security.Permission#getActions()
*/
public String getActions() {
    return delegate.getActions();
}

/**
* Checks if this DeploymentAdminPermission would imply the parameter
* permission.
* <p>
* Precondition of the implication is that the action set of this permission
* is the superset of the action set of the other permission. Further rules
* of implication are determined by the [@link org.osgi.framework.Filter]
* rules and the "OSGi Service Platform, Core Specification Release 4,
* Chapter Certificate Matching".
* <p>
* The allowed attributes are: [@code name] (the symbolic name of the
* deployment package) and [@code signer] (the signer of the deployment
* package). In both cases wildcards can be used.
* <p>
* Examples:
* <p>
* <pre>
*  1. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list")
*  2. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list, install")
*  3. DeploymentAdminPermission("(name=org.osgi.*)", "list")
*  4. DeploymentAdminPermission("(signer=*, o=ACME, c=US)", "list")
*  5. DeploymentAdminPermission("(signer=cn=Bugs Bunny, o=ACME, c=US)", "list")
* </pre>
* <p>
* 1. implies 1.
* 2. implies 1.
* 1. doesn't implies 2.
* 3. implies 1.
* 4. implies 5.
* </pre>
* 
* @param permission Permission to check.
* @return true if this DeploymentAdminPermission object implies the
* specified permission.
* @see java.security.Permission#implies(java.security.Permission)
* @see org.osgi.framework.Filter
public boolean implies(Permission permission) {
if (!(permission instanceof DeploymentAdminPermission))
return false;

DeploymentAdminPermission dap = (DeploymentAdminPermission) permission;
return delegate.implies(dap.delegate);
}

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentAdminPermission objects.
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
return delegate.newPermissionCollection();
}

}
* Indicates the callers authority to send alerts to management servers,
* identified by their principal names.
* 
* {@code AlertPermission} has a target string which controls the principal
* names where alerts can be sent. A wildcard is allowed at the end of the
* target string, to allow sending alerts to any principal with a name matching
* the given prefix. The "*" target means that alerts can be sent to
* any destination.
* 
* @author $Id: c6a01d2c5e33287b1fd6bf40fedca908e9ddd072 $
*/

public class AlertPermission extends Permission {
private static final long serialVersionUID = -3206463101788245739L;

// specifies whether the target string had a wildcard at the end
private final boolean isPrefix;

// the target string without the wildcard (if there was one)
private final String serverId;

/**
 * Creates a new {@code AlertPermission} object with its name set to the
 * target string. Name must be non-null and non-empty.
 * 
 * @param target the name of a principal, can end with { @code * } to match
 * any principal identifier with the given prefix
 * @throws NullPointerException if { @code name} is { @code null}
 * @throws IllegalArgumentException if { @code name} is empty
 */
public AlertPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(")")
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        serverId = target.substring(0, target.length() - 1);
    else
        serverId = target;
}

/**
 * Creates a new { @code AlertPermission} object using the 'canonical' two
 * argument constructor. In this version this class does not define any
* actions, the second argument of this constructor must be "*" so that this
* class can later be extended in a backward compatible way.
*
* @param target the name of the server, can end with { @code *} to match any
* server identifier with the given prefix
* @param actions no actions defined, must be "*" for forward compatibility
* @throws NullPointerException if { @code name} or { @code actions} is
*         { @code null}
* @throws IlleagalArgumentException if { @code name} is empty or
*         { @code actions} is not "*"
 */
public AlertPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("actions' parameter must not be null.");

    if (!actions.equals("*"))
        throw new IlleagalArgumentException("actions' parameter must be \"*\".");
}

/**
 * Checks whether the given object is equal to this AlertPermission
 * instance. Two AlertPermission instances are equal if they have the same
 * target string.
 *
 * @param obj the object to compare to this AlertPermission instance
 * @return { @code true} if the parameter represents the same permissions as
 *         this instance
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof AlertPermission))
        return false;
    AlertPermission other = (AlertPermission) obj;

    return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
 * Returns the action list (always { @code * } in the current version).
 *
 * @return the action string &quot;*";
 */
public String getActions() {
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ serverId.hashCode();
}

public boolean implies(Permission p) {
    if (!(p instanceof AlertPermission))
        return false;
    AlertPermission other = (AlertPermission) p;
    return impliesServer(other);
}

public PermissionCollection newPermissionCollection() {
    return new DmtAlertPermissionCollection();
}

public boolean impliesServer(AlertPermission other) {
    return equalsServer(other.serverId).
}

/**
 * Checks if this AlertPermission object implies the specified permission.
 * Another AlertPermission instance is implied by this permission either if
 * the target strings are identical, or if this target can be made identical
 * to the other target by replacing a trailing ";" with any
 * string.
 *
 * @param p the permission to check for implication
 * @return true if this AlertPermission instance implies the specified
 *         permission
 * @param p
 */

public boolean impliesServer(String other) {
    return equalsServer(other.serverId);
}

/**
 * Returns true if the server name parameter of the given AlertPermission is
 * implied by the server name of this permission, i.e. this server name is a

boolean impliesServer(AlertPermission p) {
    return isPrefix ? p.serverId.startsWith(serverId) : !p.isPrefix && p.serverId.equals(serverId);
}

final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;

    private ArrayList perms;

    public DmtAlertPermissionCollection() {
        perms = new ArrayList();
    }

    public void add(Permission permission) { 
        if (!(permission instanceof AlertPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");
        if (!implies(permission)) {
            Iterator i = perms.iterator();
            while (i.hasNext())
                if (permission.implies((AlertPermission) i.next()))
                    i.remove();
        }
    }

    // only add new permission if it is not already implied by the
    // permissions in the collection
    if (!implies(permission)) { 
        // remove all permissions that are implied by the new one
        Iterator i = perms.iterator();
        while (i.hasNext())
            if (permission.implies((AlertPermission) i.next()))
                i.remove();
    }
}

/*
* Represents a homogeneous collection of AlertPermission objects.
*/
final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;

    private ArrayList perms;

    public DmtAlertPermissionCollection() {
        perms = new ArrayList();
    }

    public void add(Permission permission) { 
        if (!(permission instanceof AlertPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");
        if (!implies(permission)) {
            Iterator i = perms.iterator();
            while (i.hasNext())
                if (permission.implies((AlertPermission) i.next()))
                    i.remove();
        }
    }

    // only add new permission if it is not already implied by the
    // permissions in the collection
    if (!implies(permission)) { 
        // remove all permissions that are implied by the new one
        Iterator i = perms.iterator();
        while (i.hasNext())
            if (permission.implies((AlertPermission) i.next()))
                i.remove();
    }

    // no need to synchronize because all adds are done sequentially
*/
// before any implies() calls
perms.add(permission);

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((AlertPermission) i.next()).impliesServer(other))
            return true;

    return false;
}

/**
 * Returns an enumeration of all the AlertPermission objects in the
 * container. The returned value cannot be null.
 *
 * @return an enumeration of all the AlertPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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* limitations under the License.
*/

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.StringTokenizer;
import org.osgi.service.dmt.Acl;
import org.osgi.service.dmt.Uri;

/**
* Controls access to management objects in the Device Management Tree (DMT). It
* is intended to control local access to the DMT. DmtPermission target string
* identifies the management object URI and the action field lists the OMA DM
* commands that are permitted on the management object. Example:
*
* <pre>
* DmtPermission("./OSGi/bundles", "Add,Replace,Get");
* </pre>
* This means that owner of this permission can execute Add, Replace and Get
* commands on the ./OSGi/bundles management object. It is possible to use
* wildcards in both the target and the actions field. Wildcard in the target
* field means that the owner of the permission can access children nodes of the
* target node. Example:
*
* <pre>
* DmtPermission("./OSGi/bundles/*/", "Get");
* </pre>
* This means that owner of this permission has Get access on every child node
* of ./OSGi/bundles. The asterix does not necessarily have to follow a '/'
* character. For example the { @code "/OSGi/a*/" } target matches the
* { @code /OSGi/applications } subtree.
* If wildcard is present in the actions field, all legal OMA DM commands are
* allowed on the designated nodes(s) by the owner of the permission. Action
* names are interpreted case-insensitively, but the canonical action string
* returned by { @link #getActions() } uses the forms defined by the action
*
* constants.
*  
* @author $Id: 5fc6f3d37c4fac64313f532ad9bd9f07bc48dc39 $
* /
public class DmtPermission extends Permission {
private static final long serialVersionUID = -1910969921419407809L;

/**
 * Holders of DmtPermission with the Add action present can create new nodes
 * in the DMT, that is they are authorized to execute the
 * createInteriorNode() and createLeafNode() methods of the DmtSession. This
 * action is also required for the copy() command, which needs to perform
 * node creation operations (among others).
 * */
public static final String ADD = "Add";

/**
 * Holders of DmtPermission with the Delete action present can delete nodes
 * from the DMT, that is they are authorized to execute the deleteNode()
 * method of the DmtSession.
 * */
public static final String DELETE = "Delete";

/**
 * Holders of DmtPermission with the Exec action present can execute nodes
 * in the DMT, that is they are authorized to call the execute() method of
 * the DmtSession.
 * */
public static final String EXEC = "Exec";

/**
 * Holders of DmtPermission with the Get action present can query DMT node
 * value or properties, that is they are authorized to execute the
 * isLeafNode(), getNodeAcl(), getEffectiveNodeAcl(), getMetaNode(),
 * getNodeValue(), getChildNodeNames(), getNodeTitle(), getNodeVersion(),
 * getNodeTimeStamp(), getNodeSize() and getNodeType() methods of the
 * DmtSession. This action is also required for the copy() command, which
 * needs to perform node query operations (among others).
 * */
public static final String GET = "Get";

/**
 * Holders of DmtPermission with the Replace action present can update DMT
 * node value or properties, that is they are authorized to execute the
 * setNodeAcl(), setNodeTitle(), setNodeValue(), setNodeType() and
 * renameNode() methods of the DmtSession. This action is also be required
 * for the copy() command if the original node had a title property (which
 * must be set in the new node).
/*
 public static final String REPLACE = "Replace";

 // does this permission have a wildcard at the end?
 private final boolean prefixPath;

 // the name without the wildcard on the end
 private final String path;

 // the actions mask
 private final int mask;

 // the canonical action string (redundant)
 private final String actions;

 /**
 * Creates a new DmtPermission object for the specified DMT URI with the
 * specified actions. The given URI can be:
 * <ul>
 * <li>{@code "*"}, which matches all valid (see
 * {link Uri#isValidUri(String)}) absolute URIs;</li>
 * <li>@code \"./OSGi/L*\"), which matches all valid absolute URIs
 * beginning with the given prefix;</li>
 * <li>a valid absolute URI, which matches itself.</li>
 * </ul>
 * Since the \{"@code \*\}" character is itself a valid URI character, it can
 * appear as the last character of a valid absolute URI. To distinguish this
 * case from using \{"@code \*\} as a wildcard, the \{"@code \*\} character at the
 * end of the URI must be escaped with the \{"@code \}\} charater. For example
 * the URI \{"@code \./a\*\}" matches \{"@code \./a"}, \{"@code \./aa"},
 * \{"@code \./a/b"} etc. while \{"@code \./a\*\}" matches \{"@code \./a\*\}" only.
 * The actions string must either be \"*\" to allow all actions, or it must
 * contain a non-empty subset of the valid actions, defined as constants in
 * this class.
 * @param dmtUri URI of the management object (or subtree)
 * @param actions OMA DM actions allowed
 * @throws NullPointerException if any of the parameters are \{@code null\}
 * @throws IllegalArgumentException if any of the parameters are invalid
 */
 public DmtPermission(String dmtUri, String actions) {
 super(dmtUri);
 mask = getMask(actions);
 this.actions = canonicalActions(mask);
}
if (dmtUri == null)
throw new NullPointerException("'dmtUri' parameter must not be " + "null.");
prefixPath = dmtUri.endsWith("*") && !dmtUri.endsWith("\\*");
if (prefixPath) {
dmtUri = dmtUri.substring(0, dmtUri.length() - 1);
// the single "*" as dmtUri is the only valid non-absolute URI param
if (dmtUri.length() == 0) {
path = "";
return;
}
}
// if URI ends with "/*", remove it before the validity check
if (prefixPath && dmtUri.endsWith("/") && !dmtUri.endsWith("\\/"))
checkUri(dmtUri.substring(0, dmtUri.length() - 1));
else
checkUri(dmtUri);
// canonicalize URI: remove escapes from non-special characters
StringBuffer sb = new StringBuffer(dmtUri);
int i = 0;
while (i < sb.length()) { // length can decrease during the loop!
if (sb.charAt(i) == '\\') {
// there must be a next character after a '\' in a valid URI
char nextCh = sb.charAt(i + 1);
if (nextCh != '/' && nextCh != '\\')
sb.deleteCharAt(i); // remove the extra '\'
else
i++;
}
i++;
}
path = sb.toString();
}
private void checkUri(String dmtUri) throws IllegalArgumentException {
if (!Uri.isValidUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain a valid URI.");
if (!Uri.isAbsoluteUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain an absolute URI.");
}
/**
* Checks whether the given object is equal to this DmtPermission instance.

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* Two DmtPermission instances are equal if they have the same target string
* and the same action mask. The "*" action mask is considered equal to a
* mask containing all actions.
*
* @param obj the object to compare to this DmtPermission instance
* @return { @code true } if the parameter represents the same permissions as
*         this instance
* /
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof DmtPermission))
        return false;

    DmtPermission other = (DmtPermission) obj;

    return mask == other.mask && prefixPath == other.prefixPath && path.equals(other.path);
}

/**
* Returns the String representation of the action list. The allowed actions
* are listed in the following order: Add, Delete, Exec, Get, Replace. The
* wildcard character is not used in the returned string, even if the class
* was created using the "*" wildcard.
* *
* @return canonical action list for this permission object
* /
public String getActions() {
    return actions;
}

/**
* Returns the hash code for this permission object. If two DmtPermission
* objects are equal according to the { @link #equals(Object) } method, then
* calling this method on each of the two DmtPermission objects must produce
* the same integer result.
* *
* @return hash code for this permission object
* /
public int hashCode() {
}

/**
* Checks if this DmtPermission object &quote;implies&quot; the specified
* permission. This method returns { @code false } if and only if at least one
* of the following conditions are fulfilled for the specified permission:
* <ul>
* <li>it is not a DmtPermission</li>
* <li>its set of actions contains an action not allowed by this permission</li>
* <li>the set of nodes defined by its path contains a node not defined by
* the path of this permission</li>
* </ul>
*
* @param p the permission to check for implication
* @return true if this DmtPermission instance implies the specified
*
permission
*/
public boolean implies(Permission p) {
if (!(p instanceof DmtPermission))
return false;
DmtPermission other = (DmtPermission) p;
if ((mask & other.mask) != other.mask)
return false;
return impliesPath(other);
}
/**
* Returns a new PermissionCollection object for storing DmtPermission
* objects.
*
* @return the new PermissionCollection
*/
public PermissionCollection newPermissionCollection() {
return new DmtPermissionCollection();
}
// parses the given action string, and returns the corresponding action mask
private static int getMask(String actions) {
int mask = 0;
if (actions == null)
throw new NullPointerException("'actions' parameter cannot be null.");
if (actions.equals("*"))
return Acl.ALL_PERMISSION;
// empty tokens (swallowed by StringTokenizer) are not considered errors
StringTokenizer st = new StringTokenizer(actions, ",");
while (st.hasMoreTokens()) {
String action = st.nextToken().trim();
if (action.equalsIgnoreCase(GET)) {

Open Source Used In WAE 6.2

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mask |= Acl.GET;
} else
if (action.equalsIgnoreCase(ADD)) {
    mask |= Acl.ADD;
} else
if (action.equalsIgnoreCase(REPLACE)) {
    mask |= Acl.REPLACE;
} else
if (action.equalsIgnoreCase(DELETE)) {
    mask |= Acl.DELETE;
} else
if (action.equalsIgnoreCase(EXEC)) {
    mask |= Acl.EXEC;
} else
throw new IllegalArgumentException("Invalid action '" + action + '"");
}

if (mask == 0)
throw new IllegalArgumentException("Action mask cannot be empty.");

return mask;
}

// generates the canonical string representation of the action list
private static String canonicalActions(int mask) {
    StringBuffer sb = new StringBuffer();
    addAction(sb, mask, Acl.ADD, ADD);
    addAction(sb, mask, Acl.DELETE, DELETE);
    addAction(sb, mask, Acl.EXEC, EXEC);
    addAction(sb, mask, Acl.GET, GET);
    addAction(sb, mask, Acl.REPLACE, REPLACE);
    return sb.toString();
}

// if 'flag' appears in 'mask', appends the 'action' string to the contents
// of 'sb', separated by a comma if needed
private static void addAction(StringBuffer sb, int mask, int flag, String action) {
    if ((mask & flag) != 0) {
        if (sb.length() > 0)
            sb.append(',');
        sb.append(action);
    }
}

// used by DmtPermissionCollection to retrieve the action mask
int getMask() {
    return mask;
}
// returns true if the path parameter of the given DmtPermission is
// implied by the path of this permission, i.e. this path is a prefix of the
// other path, but ends with a *, or the two path strings are equal
boolean impliesPath(DmtPermission p) {
    return prefixPath ? p.path.startsWith(path) : !p.prefixPath && p.path.equals(path);
}
}  

/**
 * Represents a homogeneous collection of DmtPermission objects.
 */
final class DmtPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -4172481774562012941L;

    // OPTIMIZE keep a special flag for permissions of "*" path
    private ArrayList perms;

    /**
     * Create an empty DmtPermissionCollection object.
     */
    public DmtPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtPermissionCollection.
     *
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
     *            DmtPermission
     * @exception SecurityException if this DmtPermissionCollection object has
     *            been marked readonly
     */
    public void add(Permission permission) {
        if (!(permission instanceof DmtPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: "+ permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");
        perms.add(permission);
    }

    // No need to synchronize because all adds are done sequentially
    // before any implies() calls
    perms.add(permission);
}

/**
 * Check whether this set of permissions implies the permission specified in
public boolean implies(Permission permission) {
if (!(permission instanceof DmtPermission))
return false;

DmtPermission other = (DmtPermission) permission;

int required = other.getMask();
int available = 0;
int needed = required;

Iterator i = perms.iterator();
while (i.hasNext()) {
DmtPermission p = (DmtPermission) i.next();
if (((needed & p.getMask()) != 0) && p.impliesPath(other)) {
available |= p.getMask();
if ((available & required) == required)
return true;
needed = (required ^ available);
}
}

return false;
}

/**
* Returns an enumeration of all the DmtPermission objects in the container.
* The returned value cannot be { @code null}.
* @return an enumeration of all the DmtPermission objects
*/
public Enumeration elements() {
// Convert Iterator into Enumeration
return Collections.enumeration(perms);
}
}
package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to create DMT sessions on behalf of a remote
 * management server. Only protocol adapters communicating with management
 * servers should be granted this permission.
 * <p>
 * @code DmtPrincipalPermission} has a target string which controls the name of
 * the principal on whose behalf the protocol adapter can act. A wildcard is
 * allowed at the end of the target string, to allow using any principal name
 * with the given prefix. The "&quot;*&quot; target means the adapter can create
 * a session in the name of any principal.
 * <p>
 * @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $
 */

public class DmtPrincipalPermission extends Permission {
    private static final long serialVersionUID = 6388752177325038332L;
    // specifies whether the target string had a wildcard at the end
    private static final String principal;
    // the target string without the wildcard (if there was one)
    private static final Stringprefix;

    /**
     * Creates a new {@code DmtPrincipalPermission} object with its name set to
     * the target string. Name must be non-null and non-empty.
     * @param target the name of the principal, can end with {@code *} to match
     * any principal with the given prefix
     * @throws NullPointerException if {@code name} is {@code null}
     * @throws IllegalArgumentException if {@code name} is empty
     */
public DmtPrincipalPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals("")
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        principal = target.substring(0, target.length() - 1);
    else
        principal = target;
}

/**
 * Creates a new [DmtPrincipalPermission] object using the 'canonical'
 * two argument constructor. In this version this class does not define any
 * actions, the second argument of this constructor must be "]*" so that this
 * class can later be extended in a backward compatible way.
 *
 * @param target the name of the principal, can end with ["]*" to match
 * any principal with the given prefix
 * @param actions no actions defined, must be "]*" for forward compatibility
 * @throws NullPointerException if [name] or [actions] is
 *         [null]
 * @throws IllegalArgumentException if [name] is empty or
 *         [actions] is not "]*"
 */
public DmtPrincipalPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    if (!actions.equals("*"))
        throw new IllegalArgumentException("'actions' parameter must be "]*".");
}

/**
 * Checks whether the given object is equal to this DmtPrincipalPermission
 * instance. Two DmtPrincipalPermission instances are equal if they have the
 * same target string.
 *
 * @param obj the object to compare to this DmtPrincipalPermission instance
 * @return [true] if the parameter represents the same permissions as
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) obj;

    return isPrefix == other.isPrefix && principal.equals(other.principal);
}

/**
 * Returns the action list (always [@code *] in the current version).
 * @return the action string &quot;*"
 */
public String getActions() {
    return "*";
}

/**
 * Returns the hash code for this permission object. If two
 * DmtPrincipalPermission objects are equal according to the
 * [@link equals(Object)] method, then calling this method on each of the
 * two DmtPrincipalPermission objects must produce the same integer result.
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ principal.hashCode();
}

/**
 * Checks if this DmtPrincipalPermission object implies the specified
 * permission. Another DmtPrincipalPermission instance is implied by this
 * permission either if the target strings are identical, or if this target
 * can be made identical to the other target by replacing a trailing
 * &quot;*;&quot; with any string.
 * @param p the permission to check for implication
 * @return true if this DmtPrincipalPermission instance implies the
 *         specified permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPrincipalPermission))
        return false;
    DmtPrincipalPermission other = (DmtPrincipalPermission) p;

    return isPrefix == other.isPrefix && principal.equals(other.principal);
}
return false;

DmtPrincipalPermission other = (DmtPrincipalPermission) p;

return impliesPrincipal(other);
}

/**
 * Returns a new PermissionCollection object for storing
 * DmtPrincipalPermission objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPrincipalPermissionCollection();
}

/*
 * Returns true if the principal parameter of the given
 * DmtPrincipalPermission is implied by the principal of this permission,
 * i.e. this principal is a prefix of the other principal but ends with a *,
 * or the two principal strings are equal.
 */
boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
}
}

/**
 * Represents a homogeneous collection of DmtPrincipalPermission objects.
 */
final class DmtPrincipalPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -6692103535775802684L;

    private ArrayList perms;

    /**
     * Create an empty DmtPrincipalPermissionCollection object.
     */
    public DmtPrincipalPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtPrincipalPermissionCollection.
     *
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
     */
    public void addPermission(Permission permission) {
        perms.add(permission);
    }

    /**
     * Clears the PermissionCollection.
     */
    public void clear() {
        perms.clear();
    }

    /**
     * Returns true if the principal parameter of the given
     * DmtPrincipalPermission is implied by the principal of this permission,
     * i.e. this principal is a prefix of the other principal but ends with a *,
     * or the two principal strings are equal.
     */
    boolean impliesPrincipal(DmtPrincipalPermission p) {
        return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
    }
}
public void add(Permission permission) {
    if (!permission instanceof DmtPrincipalPermission)
        throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    if (isReadOnly())
        throw new SecurityException("Cannot add permission, collection is marked read-only.");

    // only add new permission if it is not already implied by the
    // permissions in the collection
    if (!implies(permission)) {
        // remove all permissions that are implied by the new one
        Iterator i = perms.iterator();
        while (i.hasNext())
            if (permission.implies((DmtPrincipalPermission) i.next()))
                i.remove();

        // no need to synchronize because all adds are done sequentially
        // before any implies() calls
        perms.add(permission);
    }
}

/**
* Check whether this set of permissions implies the permission specified in
* the parameter.
*
* @param permission the Permission object to compare
* @return true if the parameter permission is a proper subset of the
*         permissions in the collection, false otherwise
*/
public boolean implies(Permission permission) {
    if (!permission instanceof DmtPrincipalPermission)
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((DmtPrincipalPermission) i.next()).impliesPrincipal(other))
            return true;

    return false;
}
/**
 * Returns an enumeration of all the DmtPrincipalPermission objects in the
 * container. The returned value cannot be [code null].
 *
 * @return an enumeration of all the DmtPrincipalPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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 * limitations under the License.
 */

package org.osgi.service.dmt;

/**
 * Unchecked illegal state exception. This class is used in DMT because
 * java.lang.IllegalStateException does not exist in CLDC.
 *
 * @author $Id: ab7441ab9ccea82894de416498a66b9376001581 $
 */
public class DmtIllegalStateException extends RuntimeException {
    private static final long serialVersionUID = 2015244852018469700L;

    /**
     * Create an instance of the exception with no message.
     */
    public DmtIllegalStateException() {
        super();
    }

    /**
     * Create an instance of the exception with the specified message.
     */

public DmtIllegalStateException(String message) {
    super(message);
}

/**
 * Create an instance of the exception with the specified cause exception
 * and no message.
 *
 * @param cause the cause of the exception
 */
public DmtIllegalStateException( Throwable cause) {
    super(cause);
}

/**
 * Create an instance of the exception with the specified message and cause
 * exception.
 *
 * @param message the reason for the exception
 * @param cause the cause of the exception
 */
public DmtIllegalStateException(String message, Throwable cause) {
    super(message, cause);
}

package org.osgi.service.event;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Hashtable;
import java.util.List;
import java.util.Map;

/**
 * A bundle's authority to publish or subscribe to event on a topic.
 * 
 * A topic is a slash-separated string that defines a topic.
 * 
 * For example:
 * 
 * org/osgi/service/foo/FooEvent/ACTION
 * 
 * {code TopicPermission} has two actions: {code publish} and
 * {code subscribe}.
 * 
 * @ThreadSafe
 * @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
 */
public final class TopicPermission extends Permission {
    static final long serialVersionUID = -5855563886961618300L;
    /**
     * The action string {code publish}.
     */
    public final static String PUBLISH = "publish";
    /**
     * The action string {code subscribe}.
     */
    public final static String SUBSCRIBE = "subscribe";
    private final static int ACTION_PUBLISH = 0x00000001;
    private final static int ACTION_SUBSCRIBE = 0x00000002;
    private final static int ACTION_ALL = ACTION_PUBLISH | ACTION_SUBSCRIBE;
    private final static int ACTION_NONE = 0;
    /**
     * The actions mask.
     */
    private transient int action_mask;
/**
 * prefix if the name is wildcarded.
 */
private transient volatile String prefix;

/**
 * The actions in canonical form.
 */
private volatile String actions = null;

/**
 * Defines the authority to publish and/or subscribe to a topic within the
 * EventAdmin service.
 * <p>
 * The name is specified as a slash-separated string. Wildcards may be used.
 * For example:
 * <p>
 * <pre>
 *   org/osgi/service/foofOoEvent/ACTION
 *   com/isv/*
 *   *
 *   *
 * </pre>
 * <p>
 * A bundle that needs to publish events on a topic must have the
 * appropriate {@code TopicPermission} for that topic; similarly, a bundle
 * that needs to subscribe to events on a topic must have the appropriate
 * [@code TopicPermission] for that topic.
 * <p>
 * <p>
 * @param name Topic name.
 * @param actions {@code publish},{@code subscribe} (canonical order).
 * */
public TopicPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by TopicPermissionCollection.
 * @param name class name
 * @param mask action mask
 */
TopicPermission(String name, int mask) {
    super(name);
setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 * @param name topic name
 * @param mask action mask
 */
private synchronized void setTransients(final int mask) {
    final String name = getName();
    if ((name == null) || name.length() == 0) {
        throw new IllegalArgumentException("invalid name");
    }

    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }

    if (name.equals("*")) {
        prefix = "";
    } else {
        if (name.endsWith("/*")) {
            prefix = name.substring(0, name.length() - 1);
        } else {
            prefix = null;
        }
    }
}

/**
 * Returns the current action mask.
 * @return Current action mask.
 */
synchronized int getActionsMask() {
    return action_mask;
}

/**
 * Parse action string into action mask.
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(final String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 8 && (a[i - 8] == 's' || a[i - 8] == 'S')
            && (a[i - 7] == 'u' || a[i - 7] == 'U')
            && (a[i - 6] == 'b' || a[i - 6] == 'B')
            && (a[i - 5] == 's' || a[i - 5] == 'S')
            && (a[i - 4] == 'c' || a[i - 4] == 'C')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'i' || a[i - 2] == 'I')
            && (a[i - 1] == 'b' || a[i - 1] == 'B')
            && (a[i] == 'e' || a[i] == 'E')) {
            matchlen = 9;
            mask |= ACTION_SUBSCRIBE;
        }
        else if (i >= 6 && (a[i - 6] == 'p' || a[i - 6] == 'P')
            && (a[i - 5] == 'u' || a[i - 5] == 'U')
            && (a[i - 4] == 'b' || a[i - 4] == 'B')
            && (a[i - 3] == 'l' || a[i - 3] == 'L')
            && (a[i - 2] == 'i' || a[i - 2] == 'I')
            && (a[i - 1] == 's' || a[i - 1] == 'S')
            && (a[i] == 'h' || a[i] == 'H')) {
            matchlen = 7;
            mask |= ACTION_PUBLISH;
        }
        else {
            // parse error
            throw new IllegalArgumentException("invalid permission: "+ actions);
        }
        // make sure we didn’t just match the tail of a word
        // like "ackbarfpublish". Also, skip to the comma.
        seencomma = false;
    }
    return mask;
}
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',' :
        seencomma = true;
        /* FALLTHROUGH */
    case ' ' : 
    case '\' : 
    case '
' :
    case '\' : 
    case '	' :
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
} // point i at the location of the comma minus one (or -1).
    i -= matchlen;
}
if (seencomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}
return mask;

/**
 * Determines if the specified permission is implied by this object.
 * 
 * <p>
 * This method checks that the topic name of the target is implied by the
 * topic name of this object. The list of {@code TopicPermission} actions
 * must either match or allow for the list of the target object to imply the
 * target {@code TopicPermission} action.
 * 
 * <pre>
 * x/y/",&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is true
 * x/,.&quot;subscribe&quot; -&gt; x/y,.&quot;subscribe&quot; is true
 * x/,.&quot;publish&quot; -&gt; x/y,.&quot;subscribe&quot; is false
 * x/y,.&quot;publish&quot; -&gt; x/y/z,.&quot;publish&quot; is false
 * </pre>
 * 
 * @param p The target permission to interrogate.
 * @return {@code true} if the specified {@code TopicPermission} action is
 *         implied by this object; {@code false} otherwise.
 */
public boolean implies(Permission p) {
    if (p instanceof TopicPermission) {
        TopicPermission requested = (TopicPermission) p;
int requestedMask = requested.getActionsMask();
if ((getActionsMask() & requestedMask) == requestedMask) {
    String requestedName = requested.getName();
    String pre = prefix;
    if (pre != null) {
        return requestedName.startsWith(pre);
    }
    return requestedName.equals(getName());
}
return false;

/**
 * Returns the canonical string representation of the
 * {@code TopicPermission} actions.
 * *
 * <p>
 * Always returns present {@code TopicPermission} actions in the following
 * order: {@code publish},{@code subscribe}.
 * *
 * @return Canonical string representation of the {@code TopicPermission}
 *         actions.
 * */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;
        int mask = getActionsMask();
        if ((mask & ACTION_PUBLISH) == ACTION_PUBLISH) {
            sb.append(PUBLISH);
            comma = true;
        }
        if ((mask & ACTION_SUBSCRIBE) == ACTION_SUBSCRIBE) {
            if (comma)
                sb.append(',');
            sb.append(SUBSCRIBE);
        }
        actions = result = sb.toString();
    }
    return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * {@code TopicPermission} objects.
public PermissionCollection newPermissionCollection() {
    return new TopicPermissionCollection();
}

/**
 * Determines the equality of two [code TopicPermission] objects.
 *
 * This method checks that specified [code TopicPermission] has the same
 * topic name and actions as this [code TopicPermission] object.
 *
 * @param obj The object to test for equality with this
 * [code TopicPermission] object.
 * @return [code true] if [code obj] is a [code TopicPermission], and has
 * the same topic name and actions as this [code TopicPermission]
 * object; [code false] otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof TopicPermission)) {
        return false;
    }
    TopicPermission tp = (TopicPermission) obj;
    return (getActionsMask() == tp.getActionsMask()) && getName().equals(tp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
// call getActions to make sure actions field is initialized
if (actions == null)
getActions();
s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseActions(actions));
}

/**
 * Stores a set of TopicPermission permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class TopicPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -614647783533924048L;
    /**
     * Table of permissions.
     *
     * @GuardedBy this
     */
    private transient Map<String, TopicPermission> permissions;
    /**
     * Boolean saying if ".*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;

    /**
     * Create an empty TopicPermissions object.
     *
     */
    public TopicPermissionCollection() {
        permissions = new HashMap<String, TopicPermission>();
        all_allowed = false;
    }
/**
 * Adds a permission to the {@code TopicPermission} objects. The key for the
 * hash is the name.
 * *
 * @param permission The {@code TopicPermission} object to add.
 * *
 * @throws IllegalArgumentException If the permission is not a
 *         {@code TopicPermission} instance.
 * *
 * @throws SecurityException If this {@code TopicPermissionCollection}
 *         object has been marked read-only.
 */
public void add(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    }
    final TopicPermission tp = (TopicPermission) permission;
    final String name = tp.getName();
    final int newMask = tp.getActionsMask();
    synchronized (this) {
        final TopicPermission existing = permissions.get(name);
        if (existing != null) {
            final int oldMask = existing.getActionsMask();
            if (oldMask != newMask) {
                permissions.put(name, new TopicPermission(name, oldMask | newMask));
            } else {
                permissions.put(name, tp);
            }
        } else {
            permissions.put(name, tp);
        }
        if (!all_allowed) {
            if (name.equals("*"))
                all_allowed = true;
        }
    }
}
/**
 * Determines if the specified permissions implies the permissions expressed
 * in {@code permission}.
 * *
 * @param permission The Permission object to compare with this
 *         {@code TopicPermission} object.
 * */
* @return {@code true} if {@code permission} is a proper subset of a
* permission in the set; {@code false} otherwise.
*
* public boolean implies(final Permission permission) {
* if (!(permission instanceof TopicPermission)) {
* return false;
* }
* final TopicPermission requested = (TopicPermission) permission;
* String name = requested.getName();
* final int desired = requested.getActionsMask();
* int effective = 0;
* 
* TopicPermission x;
* // short circuit if the ")*" Permission was added
* synchronized (this) {
* if (all_allowed) {
* x = permissions.get("*");
* if (x != null) {
* effective |= x.getActionsMask();
* if ((effective & desired) == desired) {
* return true;
* }
* }
* x = permissions.get(name);
* }
* // strategy:
* // Check for full match first. Then work our way up the
* // name looking for matches on a/b/*
* if (x != null) {
* // we have a direct hit!
* effective |= x.getActionsMask();
* if ((effective & desired) == desired) {
* return true;
* }
* }
* // work our way up the tree...
* int last;
* int offset = name.length() - 1;
* while ((last = name.lastIndexOf("/", offset)) != -1) {
* name = name.substring(0, last + 1) + ")*";
* synchronized (this) {
* x = permissions.get(name);
* }
* if (x != null) {
* effective |= x.getActionsMask();
* if ((effective & desired) == desired) {
* return true;
* }
offset = last - 1;

// we don't have to check for "*" as it was already checked
// at the top (all_allowed), so we just return false
return false;

/**
 * Returns an enumeration of all {@code TopicPermission} objects in the
 * container.
 *
 * @return Enumeration of all {@code TopicPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", Hashtable.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    Hashtable<String, TopicPermission> hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions", null);
    permissions = new HashMap<String, TopicPermission>(hashtable);
    all_allowed = gfields.get("all_allowed", false);
}

/*
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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 */
package org.osgi.service.monitor;

import java.io.UnsupportedEncodingException;
import java.security.Permission;
import java.util.StringTokenizer;

/**
 * Indicates the callers authority to publish, read or reset
 * StatusVariable\'s, to switch event sending on or off or to start
 * monitoring jobs. The target of the permission is the identifier of the
 * StatusVariable\', the action can be read, publish,
 * reset, startjob, switchevents, or the combination of
 * these separated by commas. Action names are interpreted case-insensitively,
 * but the canonical action string returned by getActions() uses the
 * forms defined by the action constants.
 * <p>
 * If the wildcard \* appears in the actions field, all legal monitoring
 * commands are allowed on the designated target(s) by the owner of the
 * permission.
 * <p>
 * @author $Id: 2899bf825eb7708601d99fb39019087deddefb$
 */

public class MonitorPermission extends Permission {

  /**
   * Holders of MonitorPermission with the read action present
   * are allowed to read the value of the StatusVariable\'s specified in
   * the permission\'s target field.
   */
  public static final String READ = "read";

  /**
   * Holders of MonitorPermission with the reset action
   * present are allowed to reset the value of the StatusVariable\'s
* specified in the permission's target field.
*/

public static final String RESET = "reset";

/**
 * Holders of {@code MonitorPermission} with the {@code publish} action present are services that are allowed to publish the
 * {@code StatusVariable}s specified in the permission's target field. Note, that this permission cannot be enforced when a
 * registers to the framework, because the Service Registry does not know about this permission. Instead, any
 * published by a [@code Monitorable] without the corresponding [@code publish]
 * permission are silently ignored by [@code MonitorAdmin], and are
 * therefore invisible to the users of the monitoring service.
 */

public static final String PUBLISH = "publish";

/**
 * Holders of [@code MonitorPermission] with the [@code startjob] action present are allowed to initiate monitoring jobs involving the
 * {@code StatusVariable}s specified in the permission's target field.
 *<p>
 * A minimal sampling interval can be optionally defined in the following form: [@code startjob:n]. This allows the holder of the permission to
 * initiate time based jobs with a measurement interval of at least
 * [@code n] seconds. If [@code n] is not specified or 0 then the holder of
 * this permission is allowed to start monitoring jobs specifying any
 * frequency.
 */

public static final String STARTJOB = "startjob";

/**
 * Holders of [@code MonitorPermission] with the [@code switchevents] action present are allowed to switch event sending on or off for the value of
 * the {@code StatusVariable}s specified in the permission's target field.
 */

private static final int READ_FLAG = 0x1;
private static final int RESET_FLAG = 0x2;
private static final int PUBLISH_FLAG = 0x4;
private static final int STARTJOB_FLAG = 0x8;
private static final int SWITCHEVENTS_FLAG = 0x10;

private static final int ALL_FLAGS = READ_FLAG | RESET_FLAG | PUBLISH_FLAG | STARTJOB_FLAG | SWITCHEVENTS_FLAG;

private static final int monId;
private String varId;
private boolean prefixMonId;
private boolean prefixVarId;
private int mask;
private int minJobInterval;

/**
 * Create a [MonitorPermission] object, specifying the target and actions.
 * <p>
 * The [statusVariable] parameter is the target of the permission, defining one or more status variable names to which the specified actions apply. Multiple status variable names can be selected by using the wildcard [code: *] in the target string. The wildcard is allowed in both fragments, but only at the end of the fragments.
 * <p>
 * For example, the following targets are valid:
 * @code: com.mycomp.myapp/queue_length, com.mycomp.myapp/*,
 * @code: com.mycomp/queue*, @code: *.
 * <p>
 * The following targets are invalid: @code: *.myapp/queue_length,
 * @code: com.*, @code: */.
 * <p>
 * The [actions] parameter specifies the allowed action(s):
 * @code: read, @code: publish, @code: startjob, @code: reset,
 * @code: switchevents, or the combination of these separated by commas. String constants are defined in this class for each valid action. Passing [code: *] as the action string is equivalent to listing all actions.
 * <p>
 * @param statusVariable the identifier of the [StatusVariable] in [Monitorable_id]/[StatusVariable_id] format
 * @param actions the list of allowed actions separated by commas, or [code: *] for all actions
 * @throws java.lang.IllegalArgumentException if either parameter is [code: null], or invalid with regard to the constraints defined above and in the documentation of the used actions
 *
 public MonitorPermission(String statusVariable, String actions) throws IllegalArgumentException {
 super(statusVariable);

 if (statusVariable == null)
 throw new IllegalArgumentException("Invalid StatusVariable path 'null.'");

 if (actions == null)
 throw new IllegalArgumentException("Invalid actions string 'null.'");

 int sep = statusVariable.indexOf('/');
int len = statusVariable.length();

if (sep == -1)
throw new IllegalArgumentException("Invalid StatusVariable path: should contain '/' separator.");
if (sep == 0 || sep == statusVariable.length() - 1)
throw new IllegalArgumentException("Invalid StatusVariable path: empty monitorable ID or StatusVariable name.");

prefixMonId = statusVariable.charAt(sep - 1) == '*';
prefixVarId = statusVariable.charAt(len - 1) == '*';

monId = statusVariable.substring(0, prefixMonId ? sep - 1 : sep);
varId = statusVariable.substring(sep + 1, prefixVarId ? len - 1 : len);

checkId(monId, "Monitorable ID part of the target");
checkId(varId, "Status Variable ID part of the target");

minJobInterval = 0;

if (actions.equals("*"))
mask = ALL_FLAGS;
else {
  mask = 0;
  StringTokenizer st = new StringTokenizer(actions, ",");
  while (st.hasMoreTokens()) {
    String action = st.nextToken().trim();
    if (action.equalsIgnoreCase(READ)) {
      addToMask(READ_FLAG, READ);
    } else 
    if (action.equalsIgnoreCase(RESET)) {
      addToMask(RESET_FLAG, RESET);
    } else 
    if (action.equalsIgnoreCase(PUBLISH)) {
      addToMask(PUBLISH_FLAG, PUBLISH);
    } else 
    if (action.equalsIgnoreCase(SWITCHEVENTS)) {
      addToMask(SWITCHEVENTS_FLAG, SWITCHEVENTS);
    } else 
    if (action.toLowerCase().startsWith(STARTJOB)) {
      minJobInterval = 0;
      int slen = STARTJOB.length();
      if (action.length() != slen) {
        if (action.charAt(slen) != ':')
          throw new IllegalArgumentException("Invalid action " + action + ", ");
      }
      try {
        minJobInterval = Integer.parseInt(action.substring(slen + 1));
      }
    }
  }
}
try {
    nameBytes = id.getBytes("UTF-8");
} catch (UnsupportedEncodingException e) {
    // never happens, "UTF-8" must always be supported
    throw new IllegalStateException(e.getMessage());
}

if (nameBytes.length > StatusVariable.MAX_ID_LENGTH)
    throw new IllegalArgumentException(idName + " is too long (over " + StatusVariable.MAX_ID_LENGTH + " bytes in UTF-8 encoding.).");

if (id.equals(".")) || id.equals(".."))
    throw new IllegalArgumentException(idName + " is invalid.");

char[] chars = id.toCharArray();
for (int i = 0; i < chars.length; i++)
    if (StatusVariable.SYMBOLIC_NAME_CHARACTERS.indexOf(chars[i]) == -1)
        throw new IllegalArgumentException(idName + " contains invalid characters.");

/**
 * Create an integer hash of the object. The hash codes of
 * [@code MonitorPermission]s [@code p1] and [@code p2] are the same if
 * [@code p1.equals(p2)].
 *
 * @return the hash of the object
 */
public int hashCode() {
    int code = 0;
    int finalCode = code;
    for (int i = 0; i < nameBytes.length; i++)
        code = 31 * code + (nameBytes[i] & 0xFF);
    return code;
}
return new Integer(mask).hashCode() ^ new Integer(minJobInterval).hashCode() ^ monId.hashCode() ^ new
Boolean(prefixMonId).hashCode() ^ varId.hashCode() ^ new Boolean(prefixVarId).hashCode();
}

/**
 * Determines the equality of two MonitorPermission objects. Two MonitorPermission objects are equal if their
target strings are equal and the same set of actions are listed in their action strings.
 *
 * @param o the object being compared for equality with this object
 * @return true if the two permissions are equal
 */
public boolean equals(Object o) {
    if (!(o instanceof MonitorPermission))
        return false;

    MonitorPermission other = (MonitorPermission) o;

    return mask == other.mask && minJobInterval == other.minJobInterval && monId.equals(other.monId) &&
        prefixMonId == other.prefixMonId && varId.equals(other.varId) &&
        prefixVarId == other.prefixVarId;
}

/**
 * Get the action string associated with this permission. The actions are returned in the following order:
read, reset, publish, startjob, switchevents.
 *
 * @return the allowed actions separated by commas, cannot be null
 */
public String getActions() {
    StringBuffer sb = new StringBuffer();

    appendAction(sb, READ_FLAG, READ);
    appendAction(sb, RESET_FLAG, RESET);
    appendAction(sb, PUBLISH_FLAG, PUBLISH);
    appendAction(sb, STARTJOB_FLAG, STARTJOB);
    appendAction(sb, SWITCHEVENTS_FLAG, SWITCHEVENTS);

    return sb.toString();
}

private void appendAction(StringBuffer sb, int flag, String actionName) {
    if ((mask & flag) != 0) {
        if (sb.length() != 0)
            sb.append(',');
        sb.append(actionName);
    }
}
if (flag == STARTJOB_FLAG && minJobInterval != 0)
    sb.append(':').append(minJobInterval);
}

/**
 * Determines if the specified permission is implied by this permission.
 * <p>
 * This method returns {code false} if and only if at least one of the
 * following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a {code MonitorPermission}</li>
 * <li>it has a broader set of actions allowed than this one</li>
 * <li>it allows initiating time based monitoring jobs with a lower minimal
 * sampling interval</li>
 * <li>the target set of {code Monitorable}s is not the same nor a subset
 * of the target set of {code Monitorable}s of this permission</li>
 * <li>the target set of {code StatusVariable}s is not the same nor a
 * subset of the target set of {code StatusVariable}s of this permission</li>
 * </ul>
 * @param p the permission to be checked
 * @return {code true} if the given permission is implied by this
 * permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof MonitorPermission))
        return false;
    MonitorPermission other = (MonitorPermission) p;
    if ((mask & other.mask) != other.mask)
        return false;
    if ((other.mask & STARTJOB_FLAG) != 0 && minJobInterval > other.minJobInterval)
        return false;
    return implies(monId, prefixMonId, other.monId, other.prefixMonId) && implies(varId, prefixVarId, other.varId,
    other.prefixVarId);
}

private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {
    return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}


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7.250 Plexus Cipher: encryption/decryption
Component 1.4
7.251 plexus-build-api 0.0.7

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7.252 plexus-component-annotations 1.5.5

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7.253 plexus-container-default 1.5.5
7.253.1 Available under license :
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*/

/**
* Exception that is thrown when the class(es) required for a component
public class ComponentImplementationNotFoundException
extends Exception
{
    private static final long serialVersionUID = -9171668987729438489L;

    /**
     * Construct a new <code>ComponentImplementationNotFoundException</code> instance.
     * @param message exception message
     */
    public ComponentImplementationNotFoundException( String message )
    {
        super( message );
    }

    /**
     * Construct a new <code>ComponentImplementationNotFoundException</code> instance.
     * @param message exception message
     * @param cause causing exception to chain
     */
    public ComponentImplementationNotFoundException( String message, Throwable cause )
    {
        super( message, cause );
    }
}

package org.codehaus.plexus.component.repository.exception;

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 */
/**
 * Exception that is thrown when the class(es) required for a component
 * implementation are not available.
 *
 * @author Jason van Zyl
 * @version $Id: ComponentManagerImplementationNotFoundException.java 7089 2007-11-25 15:19:06Z jvanzyl$
 */

public class ComponentManagerImplementationNotFoundException
    extends Exception
{
    private static final long serialVersionUID = 2365017114180373632L;

    /**
     * Construct a new <code>ComponentManagerImplementationNotFoundException</code> instance.
     * @param message exception message
     */
    public ComponentManagerImplementationNotFoundException( String message )
    {
        super( message );
    }

    /**
     * Construct a new <code>ComponentManagerImplementationNotFoundException</code> instance.
     * @param message exception message
     * @param cause causing exception to chain
     */
    public ComponentManagerImplementationNotFoundException( String message, Throwable cause )
    {
        super( message, cause );
    }

    package org.codehaus.plexus;

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     */
public class DuplicateChildContainerException
    extends PlexusContainerException
{

    private final String parent;
    private final String child;

    public DuplicateChildContainerException( String parent, String child )
    {
        super( "Cannot create child container, because child named \"" + child + \"\" already exists in parent \"" + parent + \"\".\"" );

        this.parent = parent;

        this.child = child;
    }

    public String getParent()
    {
        return parent;
    }

    public String getChild()
    {
        return child;
    }

}

7.254 plexus-interpolation 1.1.4

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public final class DelimiterSpecification
{
    public static final DelimiterSpecification DEFAULT_SPEC = DelimiterSpecification.parse( "${*}" );

    private String begin;
    private String end;
    private int nextStart;

    public DelimiterSpecification( String begin, String end )
    {
        this.begin = begin;
        this.end = end;
    }

    public int getNextStartIndex()
    {
        return nextStart;
    }

    public void setNextStartIndex( int nextStart )
    {
        this.nextStart = nextStart;
    }

    public void clearNextStart()
    {
        nextStart = -1;
    }

    public static DelimiterSpecification parse( String delimiterSpec )
    {
        final String[] spec = new String[2];

        int splitIdx = delimiterSpec.indexOf( "*" );
        if ( splitIdx < 0 )
        {
            spec[0] = delimiterSpec;
            spec[1] = spec[0];
        }
        else if ( splitIdx == delimiterSpec.length() - 1 )
        {
            spec[0] = delimiterSpec.substring( 0, splitIdx );
            spec[1] = delimiterSpec.substring( splitIdx + 1, delimiterSpec.length() );
        }
        else
        {
            spec[0] = delimiterSpec;
            spec[1] = delimiterSpec.substring( splitIdx, delimiterSpec.length() );
        }

        return new DelimiterSpecification( spec[0], spec[1] );
    }
}
spec[0] = delimiterSpec.substring( 0, delimiterSpec.length() - 1 );
spec[1] = spec[0];
}
else
{
    spec[0] = delimiterSpec.substring( 0, splitIdx );
    spec[1] = delimiterSpec.substring( splitIdx + 1 );
}

return new DelimiterSpecification( spec[0], spec[1] );

public String getBegin()
{
    return begin;
}

public String getEnd()
{
    return end;
}

public int hashCode()
{
    final int prime = 31;
    int result = 1;
    result = prime * result + ( ( begin == null ) ? 0 : begin.hashCode() );
    result = prime * result + ( ( end == null ) ? 0 : end.hashCode() );
    return result;
}

public boolean equals( Object obj )
{
    if ( this == obj )
        return true;
    if ( obj == null )
        return false;
    if ( getClass() != obj.getClass() )
        return false;
    DelimiterSpecification other = (DelimiterSpecification) obj;
    if ( begin == null )
    {
        if ( other.begin != null )
            return false;
    }
    else if ( !begin.equals( other.begin ) )
        return false;
    if ( end == null )
if ( other.end != null )
    return false;
}
else if ( !end.equals( other.end ) )
    return false;
return true;
}

public String toString()
{
    return "Interpolation delimiter [begin: "+ begin + ", end: "+ end + "]";
}

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package org.codehaus.plexus.interpolation.multi;

import org.codehaus.plexus.interpolation.InterpolationException;
import org.codehaus.plexus.interpolation.Interpolator;
import org.codehaus.plexus.interpolation.RecursionInterceptor;
import org.codehaus.plexus.interpolation.SimpleRecursionInterceptor;

import java.io.FilterReader;
import java.io.IOException;
import java.io.Reader;
import java.util.Iterator;
import java.util.LinkedHashSet;

/**
 * A FilterReader implementation, that works with Interpolator interface instead of it's own interpolation
 * implementation. This implementation is heavily based on org.codehaus.plexus.util.InterpolationFilterReader.
 *
 * @author cstamas
 * @version $Id: InterpolatorFilterReader.java 8351 2009-08-20 22:25:14Z jdcasey $
 */
public class MultiDelimiterInterpolatorFilterReader
    extends FilterReader
{

    /** Interpolator used to interpolate */
    private Interpolator interpolator;

}
private RecursionInterceptor recursionInterceptor;

/** replacement text from a token */
private String replaceData = null;

/** Index into replacement data */
private int replaceIndex = -1;

/** Index into previous data */
private int previousIndex = -1;

/** Default begin token. */
public static final String DEFAULT_BEGIN_TOKEN = "${";

/** Default end token. */
public static final String DEFAULT_END_TOKEN = "}";

/** true by default to preserve backward comp */
private boolean interpolateWithPrefixPattern = true;

private String escapeString;

private boolean useEscape = false;

/** if true escapeString will be preserved \{foo} -> \{foo} */
private boolean preserveEscapeString = false;

private LinkedHashSet delimiters = new LinkedHashSet();
private DelimiterSpecification currentSpec;

private String beginToken;

private String originalBeginToken;

private String endToken;

/**
 * this constructor use default begin token ${ and default end token }
 * @param in reader to use
 * @param interpolator interpolator instance to use
 */
public MultiDelimiterInterpolatorFilterReader( Reader in, Interpolator interpolator )
{  
    this( in, interpolator, new SimpleRecursionInterceptor() );
}
/**
 * @param in reader to use
 * @param interpolator interpolator instance to use
 * @param ri The {link RecursionInterceptor} to use to prevent recursive expressions.
 * @since 1.12
 */
public MultiDelimiterInterpolatorFilterReader( Reader in, Interpolator interpolator, RecursionInterceptor ri )
{
    super( in );

    this.interpolator = interpolator;

    // always cache answers, since we'll be sending in pure expressions, not mixed text.
    this.interpolator.setCacheAnswers( true );

    recursionInterceptor = ri;

    delimiters.add( DelimiterSpecification.DEFAULT_SPEC );
}

public MultiDelimiterInterpolatorFilterReader addDelimiterSpec( String delimiterSpec )
{
    if ( delimiterSpec == null )
    {
        return this;
    }
    delimiters.add( DelimiterSpecification.parse( delimiterSpec ) );
    return this;
}

public boolean removeDelimiterSpec( String delimiterSpec )
{
    if ( delimiterSpec == null )
    {
        return false;
    }
    return delimiters.remove( DelimiterSpecification.parse( delimiterSpec ) );
}

public MultiDelimiterInterpolatorFilterReader setDelimiterSpecs( LinkedHashSet specs )
{
    delimiters.clear();
    for ( Iterator it = specs.iterator(); it.hasNext(); )
    {
        String spec = (String) it.next();
        if (spec == null)
/**
 * Skips characters. This method will block until some characters are available, an I/O error occurs, or the end of
 * the stream is reached.
 * @param n The number of characters to skip
 * @return the number of characters actually skipped
 * @exception IllegalArgumentException If <code>n</code> is negative.
 * @exception IOException If an I/O error occurs
 */
public long skip( long n )
    throws IOException
{
    if ( n < 0L )
    {
        throw new IllegalArgumentException( "skip value is negative" );
    }

    for ( long i = 0; i < n; i++ )
    {
        if ( read() == -1 )
        {
            return i;
        }
    }

    return n;
}

/**
 * Reads characters into a portion of an array. This method will block until some input is available, an I/O error
 * occurs, or the end of the stream is reached.
 * @param cbuf Destination buffer to write characters to. Must not be <code>null</code>.
 * @param off Offset at which to start storing characters.
 * @param len Maximum number of characters to read.
 * @return the number of characters read, or -1 if the end of the stream has been reached
 * @exception IOException If an I/O error occurs
 */
public int read( char cbuf[], int off, int len )
    throws IOException
for ( int i = 0; i < len; i++ )
{
    int ch = read();
    if ( ch == -1 )
    {
        if ( i == 0 )
        {
            return -1;
        }
        else
        {
            return i;
        }
    }
    cbuf[off + i] = (char) ch;
}
return len;

/**
 * Returns the next character in the filtered stream, replacing tokens from the original stream.
 *
 * @return the next character in the resulting stream, or -1 if the end of the resulting stream has been reached
 * @exception IOException if the underlying stream throws an IOException during reading
 */
public int read()
    throws IOException
{
    if ( replaceIndex != -1 && replaceIndex < replaceData.length() )
    {
        int ch = replaceData.charAt( replaceIndex++ );
        if ( replaceIndex >= replaceData.length() )
        {
            replaceIndex = -1;
        }
        return ch;
    }
    int ch = -1;
    if ( previousIndex != -1 && previousIndex < this.endToken.length() )
    {
        ch = this.endToken.charAt( previousIndex++ );
    }
    else
    {
        ch = in.read();
    }
boolean inEscape = false;

if ( ( inEscape = ( useEscape && ch == escapeString.charAt( 0 ) ) ) || reselectDelimiterSpec( ch ) )
{
    StringBuffer key = new StringBuffer();

    key.append( (char) ch );

    // this will happen when we're using an escape string, and ONLY then.
    boolean atEnd = false;

    if ( inEscape )
    {
        for( int i = 0; i < escapeString.length() - 1; i++ )
        {
            ch = in.read();
            if ( ch == -1 )
            {
                atEnd = true;
                break;
            }

            key.append( (char) ch );
        }

        if ( !atEnd )
        {
            ch = in.read();
            if ( !reselectDelimiterSpec( ch ) )
            {
                replaceData = key.toString();
                replaceIndex = 1;
                return replaceData.charAt( 0 );
            }
            else
            {
                key.append( (char) ch );
            }
        }
    }

    int beginTokenMatchPos = 1;
    do
    {
        if ( atEnd )
        {
            // didn't finish reading the escape string.
        }
    }
break;
}

if ( previousIndex != -1 && previousIndex < this.endToken.length() )
{
    ch = this.endToken.charAt( previousIndex++ );
}
else
{
    ch = in.read();
}
if ( ch != -1 )
{
    key.append( (char) ch );
    if ( ( beginTokenMatchPos < this.originalBeginToken.length() )
        && ( ch != this.originalBeginToken.charAt( beginTokenMatchPos ) ) )
    {
        ch = -1; // not really EOF but to trigger code below
        break;
    }
}
else
{
    break;
}

beginTokenMatchPos++;
}
while ( ch != this.endToken.charAt( 0 ) );

// now test endToken
if ( ch != -1 && this.endToken.length() > 1 )
{
    int endTokenMatchPos = 1;

do
{
    if ( previousIndex != -1 && previousIndex < this.endToken.length() )
    {
        ch = this.endToken.charAt( previousIndex++ );
    }
    else
    {
        ch = in.read();
    }

    if ( ch != -1 )
    {

key.append((char) ch);

if ( ch != this.endToken.charAt(endTokenMatchPos++))
{
    ch = -1; // not really EOF but to trigger code below
    break;
}

else
{
    break;
}
}
while (endTokenMatchPos < this.endToken.length());

// There is nothing left to read so we have the situation where the begin/end token
// are in fact the same and as there is nothing left to read we have got ourselves
// end of a token boundary so let it pass through.
if (ch == -1)
{
    replaceData = key.toString();
    replaceIndex = 1;
    return replaceData.charAt(0);
}

String value = null;
try
{
    boolean escapeFound = false;
    if (useEscape)
    {
        if (key.toString().startsWith(beginToken))
        {
            String keyStr = key.toString();
            if (!preserveEscapeString)
            {
                value = keyStr.substring(escapeString.length(), keyStr.length());
            }
            else
            {
                value = keyStr;
            }
            escapeFound = true;
        }
    }
    if (!escapeFound)
{  
  if ( interpolateWithPrefixPattern )  
  {  
    value = interpolator.interpolate( key.toString(), "", recursionInterceptor );  
  }  
  else  
  {  
    value = interpolator.interpolate( key.toString(), recursionInterceptor );  
  }  
}

try  
{  
  catch ( InterpolationException e )  
  {  
    IllegalArgument Exception error = new IllegalArgumentException( e.getMessage() );  
    error.initCause( e );  
    throw error;  
  }

  if ( value != null )  
  {  
    if ( value.length() != 0 )  
    {  
      replaceData = value;  
      replaceIndex = 0;  
    }  
    return read();  
  }  
  else  
  {  
    previousIndex = 0;  
    replaceData = key.substring( 0, key.length() - this.endToken.length() );  
    replaceIndex = 0;  
    return this.beginToken.charAt( 0 );  
  }  
}

return ch;
}

private boolean reselectDelimiterSpec( int ch )  
{  
  for ( Iterator it = delimiters.iterator(); it.hasNext(); )  
  {  
    DelimiterSpecification spec = (DelimiterSpecification) it.next();  
    if ( ch == spec.getBegin().charAt( 0 ) )  
    {  
      currentSpec = spec;  
    }  
  }
originalBeginToken = currentSpec.getBegin();
beginToken = useEscape ? escapeString + originalBeginToken : originalBeginToken;
endToken = currentSpec.getEnd();

    return true;
  }
}

return false;
}

public boolean isInterpolateWithPrefixPattern()
{
    return interpolateWithPrefixPattern;
}

public void setInterpolateWithPrefixPattern( boolean interpolateWithPrefixPattern )
{
    this.interpolateWithPrefixPattern = interpolateWithPrefixPattern;
}

public String getEscapeString()
{
    return escapeString;
}

public void setEscapeString( String escapeString )
{
    // TODO NPE if escapeString is null ?
    if ( escapeString != null && escapeString.length() >= 1 )
    {
        this.escapeString = escapeString;
        this.useEscape = escapeString != null && escapeString.length() >= 1;
    }
}

public boolean isPreserveEscapeString()
{
    return preserveEscapeString;
}

public void setPreserveEscapeString( boolean preserveEscapeString )
{
    this.preserveEscapeString = preserveEscapeString;
}

public RecursionInterceptor getRecursionInterceptor()
{
    return recursionInterceptor;
}
public MultiDelimiterInterpolatorFilterReader setRecursionInterceptor(RecursionInterceptor recursionInterceptor)
{
    this.recursionInterceptor = recursionInterceptor;
    return this;
}

package org.codehaus.plexus.interpolation.multi;

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 */

import org.codehaus.plexus.interpolation.InterpolationCycleException;
import org.codehaus.plexus.interpolation.InterpolationException;
import org.codehaus.plexus.interpolation.InterpolationPostProcessor;
import org.codehaus.plexus.interpolation.Interpolator;
import org.codehaus.plexus.interpolation.RecursionInterceptor;
import org.codehaus.plexus.interpolation.SimpleRecursionInterceptor;
import org.codehaus.plexus.interpolation.ValueSource;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Set;

public class MultiDelimiterStringSearchInterpolator
    implements Interpolator
{
    /*
     * Implement Interpolator.
     */
private static final int MAX_TRIES = 10;

private Map existingAnswers = new HashMap();

private List valueSources = new ArrayList();

private List postProcessors = new ArrayList();

private boolean cacheAnswers = false;

private LinkedHashSet delimiters = new LinkedHashSet();

private String escapeString;

public MultiDelimiterStringSearchInterpolator()
{
    delimiters.add( DelimiterSpecification.DEFAULT_SPEC );
}

public MultiDelimiterStringSearchInterpolator addDelimiterSpec( String delimiterSpec )
{
    if ( delimiterSpec == null )
    {
        return this;
    }
    delimiters.add( DelimiterSpecification.parse( delimiterSpec ) );
    return this;
}

public boolean removeDelimiterSpec( String delimiterSpec )
{
    if ( delimiterSpec == null )
    {
        return false;
    }
    return delimiters.remove( DelimiterSpecification.parse( delimiterSpec ) );
}

public MultiDelimiterStringSearchInterpolator withValueSource( ValueSource vs )
{
    addValueSource( vs );
    return this;
}

public MultiDelimiterStringSearchInterpolator withPostProcessor( InterpolationPostProcessor postProcessor )
{
    addPostProcessor( postProcessor );
    return this;
}
/**
 * { @inheritdoc }
 */
public void addValueSource( ValueSource valueSource )
{
    valueSources.add( valueSource );
}

/**
 * { @inheritdoc }
 */
public void removeValuesSource( ValueSource valueSource )
{
    valueSources.remove( valueSource );
}

/**
 * { @inheritdoc }
 */
public void addPostProcessor( InterpolationPostProcessor postProcessor )
{
    postProcessors.add( postProcessor );
}

/**
 * { @inheritdoc }
 */
public void removePostProcessor( InterpolationPostProcessor postProcessor )
{
    postProcessors.remove( postProcessor );
}

public String interpolate( String input, String thisPrefixPattern )
    throws InterpolationException
{
    return interpolate( input, new SimpleRecursionInterceptor() );
}

public String interpolate( String input, String thisPrefixPattern, RecursionInterceptor recursionInterceptor )
    throws InterpolationException
{
    return interpolate( input, recursionInterceptor );
}

public String interpolate( String input )
    throws InterpolationException
public String interpolate( String input, RecursionInterceptor recursionInterceptor )
throws InterpolationException
{
    try
    {
        return interpolate( input, recursionInterceptor, new HashSet() );
    }
    finally
    {
        if ( !cacheAnswers )
        {
            existingAnswers.clear();
        }
    }
}

private String interpolate( String input, RecursionInterceptor recursionInterceptor, Set unresolvable )
throws InterpolationException
{
    if ( input == null )
    {
        // return empty String to prevent NPE too
        return "";
    }
    StringBuffer result = new StringBuffer( input.length() * 2 );

    String lastResult = input;
    int tries = 0;
    do
    {
        tries++;
        if ( result.length() > 0 )
        {
            lastResult = result.toString();
            result.setLength( 0 );
        }
        int startIdx = -1;
        int endIdx = -1;
DelimiterSpecification selectedSpec = null;
while( ( selectedSpec = select( input, endIdx ) ) != null )
{
    String startExpr = selectedSpec.getBegin();
    String endExpr = selectedSpec.getEnd();

    startIdx = selectedSpec.getNextStartIndex();
    result.append( input.substring( endIdx + 1, startIdx ) );

    endIdx = input.indexOf( endExpr, startIdx + 1 );
    if ( endIdx < 0 )
    {
        break;
    }

    String wholeExpr = input.substring( startIdx, endIdx + endExpr.length() );
    String realExpr = wholeExpr.substring( startExpr.length(), wholeExpr.length() - endExpr.length() );

    if ( startIdx >= 0 && escapeString != null && escapeString.length() > 0 )
    {
        int startEscapeIdx = startIdx == 0 ? 0 : startIdx - escapeString.length();
        if ( startEscapeIdx >= 0 )
        {
            String escape = input.substring( startEscapeIdx, startIdx );
            if ( escape != null && escapeString.equals( escape ) )
            {
                result.append( wholeExpr );
                result.replace( startEscapeIdx, startEscapeIdx + escapeString.length(), "" );
                continue;
            }
        }
    }

    boolean resolved = false;
    if ( !unresolvable.contains( wholeExpr ) )
    {
        if ( realExpr.startsWith( "." ) )
        {
            realExpr = realExpr.substring( 1 );
        }

        if ( recursionInterceptor.hasRecursiveExpression( realExpr ) )
        {
            throw new InterpolationCycleException( recursionInterceptor, realExpr, wholeExpr );
        }

        recursionInterceptor.expressionResolutionStarted( realExpr );
    }
Object value = existingAnswers.get( realExpr );
Object bestAnswer = null;
for ( Iterator it = valueSources.iterator(); it.hasNext() && value == null; )
{
    ValueSource vs = (ValueSource) it.next();

    value = vs.getValue( realExpr );

    if ( value != null && value.toString().indexOf( wholeExpr ) > -1 )
    {
        bestAnswer = value;
        value = null;
    }
}

// this is the simplest recursion check to catch exact recursion
// (non synonym), and avoid the extra effort of more string
// searching.
if ( value == null && bestAnswer != null )
{
    throw new InterpolationCycleException( recursionInterceptor, realExpr, wholeExpr );
}

if ( value != null )
{
    value = interpolate( String.valueOf( value ), recursionInterceptor, unresolvable );

    if ( postProcessors != null && !postProcessors.isEmpty() )
    {
        for ( Iterator it = postProcessors.iterator(); it.hasNext(); )
        {
            InterpolationPostProcessor postProcessor = (InterpolationPostProcessor) it.next();
            Object newVal = postProcessor.execute( realExpr, value );
            if ( newVal != null )
            {
                value = newVal;
                break;
            }
        }
    }
}

// could use:
// result = matcher.replaceFirst( stringValue );
// but this could result in multiple lookups of stringValue, and replaceAll is not correct behaviour
result.append( String.valueOf( value ) );
resolved = true;
else
{
    unresolvable.add(wholeExpr);
}

recursionInterceptor.expressionResolutionFinished(realExpr);
}

if (!resolved)
{
    result.append(wholeExpr);
}

if (endIdx > -1)
{
    endIdx += endExpr.length() - 1;
}
}

if (endIdx == -1 && startIdx > -1)
{
    result.append(input.substring(startIdx, input.length()));
} else if (endIdx < input.length())
{
    result.append(input.substring(endIdx + 1, input.length()));
}
while(!lastResult.equals(result.toString()) && tries < MAX_TRIES);

return result.toString();
}

private DelimiterSpecification select(String input, int lastEndIdx)
{
    DelimiterSpecification selected = null;

    for (Iterator it = delimiters.iterator(); it.hasNext();)
    {
        DelimiterSpecification spec = (DelimiterSpecification) it.next();
        spec.clearNextStart();

        if (selected == null)
        {
            int idx = input.indexOf(spec.getBegin(), lastEndIdx + 1);
            if (idx > -1)
            {
                spec.setNextStartIndex(idx);
            }
        }
    }
selected = spec;
}
}

return selected;
}

/**
 * Return any feedback messages and errors that were generated - but suppressed - during the interpolation
 * process.
 * Since unresolvable expressions will be left in the source string as-is, this feedback is optional, and will only
 * be useful for debugging interpolation problems.
 *
 * @return a { @link List} that may be interspersed with { @link String} and { @link Throwable} instances.
 */
public List getFeedback()
{
    List messages = new ArrayList();
    for ( Iterator it = valueSources.iterator(); it.hasNext(); )
    {
        ValueSource vs = (ValueSource) it.next();
        List feedback = vs.getFeedback();
        if ( feedback != null && !feedback.isEmpty() )
        {
            messages.addAll( feedback );
        }
    }

    return messages;
}

/**
 * Clear the feedback messages from previous interpolate(..) calls.
 */
public void clearFeedback()
{
    for ( Iterator it = valueSources.iterator(); it.hasNext(); )
    {
        ValueSource vs = (ValueSource) it.next();
        vs.clearFeedback();
    }
}

public boolean isCacheAnswers()
{
    return cacheAnswers;
}
public void setCacheAnswers( boolean cacheAnswers )
{
    this.cacheAnswers = cacheAnswers;
}

public void clearAnswers()
{
    existingAnswers.clear();
}

public String getEscapeString()
{
    return escapeString;
}

public void setEscapeString( String escapeString )
{
    this.escapeString = escapeString;
}

public MultiDelimiterStringSearchInterpolator setDelimiterSpecs( LinkedHashSet specs )
{
    delimiters.clear();
    for ( Iterator it = specs.iterator(); it.hasNext(); )
    {
        String spec = (String) it.next();
        if ( spec == null )
        {
            continue;
        }
        delimiters.add( DelimiterSpecification.parse( spec ) );
    }

    return this;
}

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 */
import java.util.Collections;
import java.util.List;
import java.util.Stack;

/**
 * Simplest implementation of a RecursionInterceptor, which checks whether
 * the existing interpolation effort is already attempting to resolve an exact
 * expression, but has not finished. This will not catch synonym expressions, as
 * are found in Maven (${project.build.directory}, ${pom.build.directory}, and
 * ${build.directory} are synonyms).
 * 
 * @author jdcasey
 * @version $Id: SimpleRecursionInterceptor.java 7529 2008-07-20 20:24:21Z olamy $
 */

public class SimpleRecursionInterceptor
    implements RecursionInterceptor
{

    private Stack expressions = new Stack();

    /**
     * { @inheritdoc }
     */
    public void expressionResolutionFinished( String expression )
    {
        expressions.pop();
    }

    /**
     * { @inheritdoc }
     */
    public void expressionResolutionStarted( String expression )
    {
        expressions.push( expression );
    }

    /**
     * Check whether the current expression is already present in the in-process
     * stack.
     */
public boolean hasRecursiveExpression( String expression )
{
    return expressions.contains( expression );
}

/**
 * When an expression is determined to be a recursive reference, this method
 * returns the sublist of tracked expressions that participate in this cycle.
 * Otherwise, if the expression isn't present in the in-process stack, return
 * [@link Collections#EMPTY_LIST].
 */
public List getExpressionCycle( String expression )
{
    int idx = expressions.indexOf( expression );
    if ( idx < 0 )
    {
        return Collections.EMPTY_LIST;
    }
    else
    {
        return expressions.subList( idx, expressions.size() );
    }
}

7.255 plexus-sec-dispatcher 1.3
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 *
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 *
 * Changelog: http://layout.jquery-dev.net/changelog.cfm#1.3.0.rc30.62
 * NOTE: This is a short-term release to patch a couple of bugs.
 * These bugs are listed as officially fixed in RC30.7, which will be released shortly.
 *
 * Docs: http://layout.jquery-dev.net/documentation.html
 * Tips: http://layout.jquery-dev.net/tips.html
 * Help: http://groups.google.com/group/jquery-ui-layout
 */

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*
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* @todo: Add hotkey/mousewheel bindings to _instantly_ respond to these zoom event
*/
// +--------------------------------------------------------------------+
// and; Raphaël 2.1.0 - JavaScript Vector Library
// and; Raphael.js 2.1.0 - JavaScript Vector Library
// +--------------------------------------------------------------------+
7.269 scala-library 2.10.4

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7.270 scala-parser-combinators 1.0.2

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7.273 selenium-api 2.35.0

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*/

package org.openqa.selenium.html5;

public interface ApplicationCache {
    /**
     * The current state of the application cache.
     * @return @link AppCacheStatus
     */
    AppCacheStatus getStatus();
}

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package org.openqa.selenium.interactions.touch;

import org.openqa.selenium.interactions.Action;
import org.openqa.selenium.interactions.TouchScreen;
import org.openqa.selenium.interactions.internal.TouchAction;
import org.openqa.selenium.internal.Locatable;

/**
 * Creates a flick gesture.
 */
public class FlickAction extends TouchAction implements Action {
    private int xOffset;
    private int yOffset;
}
private int speed;
private int xSpeed;
private int ySpeed;

public static final int SPEED_NORMAL = 0;
public static final int SPEED_FAST = 1;

public FlickAction(TouchScreen touchScreen, Locatable locationProvider, int x, int y, int speed) {
    super(touchScreen, locationProvider);
    xOffset = x;
    yOffset = y;
    this.speed = speed;
}

public FlickAction(TouchScreen touchScreen, int xSpeed, int ySpeed) {
    super(touchScreen, null);
    this.xSpeed = xSpeed;
    this.ySpeed = ySpeed;
}

public void perform() {
    if (where != null) {
        touchScreen.flick(getActionLocation(), xOffset, yOffset, speed);
    } else {
        touchScreen.flick(xSpeed, ySpeed);
    }
}

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*/

package org.openqa.selenium.interactions;

import org.openqa.selenium.interactions.internal.MouseAction;
import org.openqa.selenium.internal.Locatable;

/**
 * clicks an element.
 *
 */
public class ClickAction extends MouseAction implements Action {
    public ClickAction(Mouse mouse, Locatable locationProvider) {
        super(mouse, locationProvider);
    }

    public void perform() {
        moveToLocation();
        mouse.click(getActionLocation());
    }
}

package org.openqa.selenium.interactions;

import org.openqa.selenium.interactions.internal.MouseAction;
import org.openqa.selenium.internal.Locatable;

/**
 * Presses the left mouse button without releasing it.
 *
 */
public class ClickAndHoldAction extends MouseAction implements Action {
    public ClickAndHoldAction(Mouse mouse, Locatable locationProvider) {
        super(mouse, locationProvider);
    }

    /**
     * Holds down the mouse button on a selected element. If this action is called out of sequence
     */
    public void perform() {
        moveToLocation();
        mouse.click(getActionLocation());
    }
}
* (i.e. twice in a row, without releasing the button after the first action) the results will be
* different between browsers.
 */
public void perform() {
    moveToLocation();
    mouse.mouseDown(getActionLocation());
}
}

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 */

package org.openqa.selenium.interactions;

import org.openqa.selenium.interactions.internal.MouseAction;
import org.openqa.selenium.internal.Locatable;

/**<*/
/**
 * Context-clicks an element
 *
 **/  
public class ContextClickAction extends MouseAction implements Action {
    public ContextClickAction(Mouse mouse, Locatable where) {
        super(mouse, where);
    }

 /**<*/
/**  
 * Emulates clicking on the mouse button that would bring up contextual menus (usually
 * right-clicking).
 **/  
public void perform() {
    moveToLocation();
    mouse.contextClick(getActionLocation());
}
}
package org.openqa.selenium.interactions;

import org.openqa.selenium.interactions.internal.MouseAction;
import org.openqa.selenium.internal.Locatable;

/**
 * Double-clicks an element.
 */
public class DoubleClickAction extends MouseAction implements Action {
    public DoubleClickAction(Mouse mouse, Locatable locationProvider) {
        super(mouse, locationProvider);
    }

    /**
     * Double-clicks on the given element.
     */
    public void perform() {
        moveToLocation();
        mouse.doubleClick(getActionLocation());
    }
}

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7.276 sisu-inject-bean 2.2.3

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*******************************************************************************
package org.sonatype.guice.bean.locators;

import org.sonatype.guice.bean.reflect.DeferredProvider;

import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * [@link BindingTargetVisitor] that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
        extends DefaultBindingTargetVisitor<Object, Class<?>> {

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // ----------------------------------------------------------------------
    // Constants
    // ----------------------------------------------------------------------

    // ------------------------------
    // Public methods
    // ------------------------------

    @Override
    public Class<?> visit(final UntargettedBinding<?> binding) {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit(final LinkedKeyBinding<?> binding) {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit(final ConstructorBinding<?> binding) {
        return binding.getConstructor().getDeclaringType().getRawType();
    }
}
@Override
public Class<? extends Annotation> visit( final InstanceBinding<?> binding )
{
    return binding.getInstance().getClass();
}

@Override
public Class<? extends Annotation> visit( final ProviderInstanceBinding<?> binding )
{
    final Provider<?> provider = binding.getProviderInstance();
    if ( provider instanceof DeferredProvider<?>)
    {
        try
        {
            // deferred providers let us peek at the underlying implementation type
            return ((DeferredProvider<?>) provider).getImplementationClass().load();
        } catch (final TypeNotPresentException e) // NOPMD
        {
            // fall-through
        }
    }
    return null;
}

@Override
public Class<? extends Annotation> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}

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*******************************************************************************/
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

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import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

import javax.inject.Qualifier;

/**
 * [@link Qualifier] used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = {} )
public @interface Implicit
{
}

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package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;
import org.sonatype.guice.bean.reflect.Logs;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes [@link ImplementedBy], [@link ProvidedBy], and concrete types.
 */
final class ImplicitBindings
{
    // ...

    // Implementation fields
    // ...

    private final Iterable<Injector> injectors;

    // ...

// Constructors
// ---------------------------------------------------------------------------

ImplicitBindings( final BeanLocator locator )
{
    injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
}

// ---------------------------------------------------------------------------
// Public methods
// ---------------------------------------------------------------------------

@SuppressWarnings( { "unchecked", "rawtypes" } )
public <T> Binding<T> get( final TypeLiteral<T> type )
{
    final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
    for ( final Injector i : injectors )
    {
        try
        {
            // first round: check for any re-written implicit bindings
            final Binding binding = i.getBindings().get( implicitKey );
            if ( null != binding )
            {
                Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }

    final Key justInTimeKey = Key.get( type );
    for ( final Injector i : injectors )
    {
        try
        {
            // second round: fall back to just-in-time lookup
            final Binding binding = i.getBinding( justInTimeKey );
            if ( InjectorPublisher.isVisible( binding ) )
            {
                Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
        }
    }
}
{  
    continue; // no luck, move onto next injector
}  
}  
return null;  
}  
}

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7.284 spring-core 3.2.8.RELEASE

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 */

7.288 stax2-api 3.1.1

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/* Woodstox XML processor
 *
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 */

package org.codehaus.stax2.ri;

import java.util.NoSuchElementException;

import javax.xml.stream.*;

import javax.xml.stream.events.*;
import javax.xml.stream.util.XMLEventAllocator;
import org.codehaus.stax2.XMLEventReader2;
import org.codehaus.stax2.XMLStreamReader2;

/**
 * Almost complete implementation of {@link XMLEventReader2}, built on top of
 * a generic {@link XMLStreamReader} implementation (using aggregation).
 * Designed to be used by concrete Stax2 implementations to provide
 * full Event API implementation with minimal effort.
 *<p>
 * Since there is not much to optimize at this
 * level (API and underlying stream reader pretty much define functionality
 * and optimizations that can be done), implementation is fairly straight
 * forward, with not many surprises.
 *<p>
 * Implementation notes: the trickiest things to implement are:
 *<ul>
 *<li>Peek() functionality! Geez, why did that have to be part of StAX
 * specs??!
 *</li>
 *<li>Adding START_DOCUMENT event that cursor API does not return
 * explicitly.
 *</li>
 *<ul>
 */
public abstract class Stax2EventReaderImpl
    implements XMLEventReader2,
                XMLStreamConstants
{
    // // // Enumerated state ids

    protected final static int STATE_INITIAL = 1;
    protected final static int STATE_END_OF_INPUT = 2;
    protected final static int STATE_CONTENT = 3;

    // // // Enumerated error case ids

    /**
     * Current state when getElementText() called not START_ELEMENT
     */
    protected final static int ERR_GETELEMTEXT_NOT_START_ELEM = 1;

    /**
     * Encountered non-textual event (other than closing END_ELEMENT)
     * when collecting text for getElementText()
     */
protected final static int ERR_GETELEMTXT_NON_TEXT_EVENT = 2;

/**
 * Encountered CHARACTERS or CDATA that contains non-white space
 * char(s), when trying to locate tag with nextTag()
 */
protected final static int ERR_NXTAG_NON_WS_TEXT = 3;

/**
 * Encountered non-skippable non-text/element event with
 * nextTag()
 */
protected final static int ERR_NXTAG_WRONG_TYPE = 4;

/*
///////////////////////////////////////////
// Configuration
///////////////////////////////////////////
*/
protected final XMLEventAllocator mAllocator;
protected final XMLStreamReader2 mReader;

/*
///////////////////////////////////////////
// State
///////////////////////////////////////////
*/
/**
 * Event that has been peeked, ie. loaded without call to
 * [@link #nextEvent]; will be returned and cleared by
 * call to [@link #nextEvent] (or, returned again if peeked
 * again)
 */
private XMLEvent mPeekedEvent = null;

/**
 * High-level state indicator, with currently three values:
 * whether we are initializing (need to synthetize START_DOCUMENT),
 * at END_OF_INPUT (end-of-doc), or otherwise, normal operation.
 * Useful in simplifying some methods, as well as to make sure
 * that independent of how stream reader handles things, event reader
 * can reliably detect End-Of-Document.
 */
protected int mState = STATE_INITIAL;
/**
 * This variable keeps track of the type of the 'previous' event
 * when peeking for the next Event. It is needed for some functionality,
 * to remember state even when underlying parser has to move to peek
 * the next event.
 */
protected int mPrePeekEvent = START_DOCUMENT;

/**
@Injectable
  
  // Construction
  
  protected Stax2EventReaderImpl(XMLEventAllocator a, XMLStreamReader2 r)
  {
    mAllocator = a;
    mReader = r;
  }
  */

public abstract boolean isPropertySupported(String name);

public abstract boolean setProperty(String name, Object value);

/**
 * Method called upon encountering a problem that should result
 * in an exception being thrown. If non-null String is returned.
 * that will be used as the message of exception thrown; if null,
 * a standard message will be used instead.
 *
 * @param errorType Type of the problem, one of <code>ERR_</code>
 * constants
 * @param eventType Type of the event that triggered the problem,
 * if any; -1 if not available.
 */
protected abstract String getErrorDesc(int errorType, int eventType);

/**
@Injectable
  
  // XMLEventReader API
  
  */
public void close()
   throws XMLStreamException
{
   mReader.close();
}

public String getElementText()
   throws XMLStreamException
{
   /* Simple, if no peeking occurred: can just forward this to the
    * underlying parser
    */
   if (mPeekedEvent == null) {
      return mReader.getElementText();
   }
   XMLEvent evt = mPeekedEvent;
   mPeekedEvent = null;

   /* Otherwise need to verify that we are currently over START_ELEMENT.
   * Problem is we have already went past it...
   */
   if (mPrePeekEvent != START_ELEMENT) {
      reportProblem(findErrorDesc(ERR_GETELEMTEXT_NOT_START_ELEM, mPrePeekEvent));
   } // ??? do we need to update mPrePeekEvent now

   String str = null;
   StringBuffer sb = null;

   /* Ok, fine, then just need to loop through and get all the
   * text...
   */
   for (; true; evt = nextEvent()) {
      if (evt.isEndElement()) {
         break;
      }
      int type = evt.getEventType();
      if (type == COMMENT || type == PROCESSING_INSTRUCTION) {
         // can/should just ignore them
         continue;
      }
      if (!evt.isCharacters()) {
         reportProblem(findErrorDesc(ERR_GETELEMTEXT_NON_TEXT_EVENT, type));
      }
      String curr = evt.asCharacters().getData();
      if (str == null) {
str = curr;
} else {
    if (sb == null) {
        sb = new StringBuffer(str.length() + curr.length());
        sb.append(str);
    }
    sb.append(curr);
}

if (sb != null) {
    return sb.toString();
} else {
    return (str == null) ? "" : str;
}

public Object getProperty(String name) {
    return mReader.getProperty(name);
}

public boolean hasNext() {
    return (mState != STATE_END_OF_INPUT);
}

public XMLEvent nextEvent() throws XMLStreamException {
    if (mState == STATE_END_OF_INPUT) {
        throwEndOfInput();
    } else if (mState == STATE_INITIAL) {
        mState = STATE_CONTENT;
        return createStartDocumentEvent();
    }
    if (mPeekedEvent != null) {
        XMLEvent evt = mPeekedEvent;
        mPeekedEvent = null;
        if (evt.isEndDocument()) {
            mState = STATE_END_OF_INPUT;
        }
        return evt;
    }
    return createNextEvent(true, mReader.next());
}

public Object next() {
    try {
        return nextEvent();
    } catch (XMLStreamException sex) {

throwUncheckedsex);
return null;
}
}

public XMLEvent nextTag()
    throws XMLStreamException{
    // If we have peeked something, need to process it
    if (mPeekedEvent != null) {
        XMLEvent evt = mPeekedEvent;
        mPeekedEvent = null;
        int type = evt.getEventType();
        switch (type) {
        case END_DOCUMENT:
            return null;
        case START_DOCUMENT:
            // Need to skip START_DOCUMENT to get the root elem
            break;
        case SPACE:
            // Ignoorable WS is just fine
            break;
        /* !!! 07-Dec-2004, TSa: Specs are mum about Comments and PIs.
        * But why would they not be skipped just like what
        * the stream reader does?
        */
        case COMMENT:
        case PROCESSING_INSTRUCTION:
            break;
        case CDATA:
        case CHARACTERS:
            if (((Characters) evt).isWhiteSpace()) {
                break;
            }
            reportProblem(findErrorDesc(ERR_NEXTTAG_NON_WS_TEXT, type));
            break; // never gets here, but some compilers whine without...
        case START_ELEMENT:
        case END_ELEMENT:
            return evt;
        default:
            reportProblem(findErrorDesc(ERR_NEXTTAG_WRONG_TYPE, type));
        }
    } else {
    /* 13-Sep-2005, TSa: As pointed out by Patrick, we may need to
        * initialize the state here, too; otherwise peek() won't work
        * correctly. The problem is that following loop's get method
* does not use event reader's method but underlying reader's.
* As such, it won't update state: most importantly, initial
* state may not be changed to non-initial.
*/
if (mState == STATE_INITIAL) {
    mState = STATE_CONTENT;
}
}

while (true) {
    int next = mReader.next();

    switch (next) {
    case END_DOCUMENT:
        return null;
    case SPACE:
        /* !!! 07-Dec-2004, TSa: Specs are mum about Comments and PIs.
         * But why would they not be skipped just like what
         * the stream reader does?
         */
        case COMMENT:
        case PROCESSING_INSTRUCTION:
            continue;
        case CDATA:
        case CHARACTERS:
            if (mReader.isWhiteSpace()) {
                continue;
            }
            reportProblem(findErrorDesc(ERR_NEXTTAG_NON_WS_TEXT, next));
            break; // just to keep Jikes happy...
        case START_ELEMENT:
        case END_ELEMENT:
            return createNextEvent(false, next);
        default:
            reportProblem(findErrorDesc(ERR_NEXTTAG_WRONG_TYPE, next));
            break;
    }
}

public XMLEvent peek() throws XMLStreamException {
    if (mPeekedEvent == null) {
        if (mState == STATE_END_OF_INPUT) {
            // 06-Mar-2006, TSa: Fixed as per Arjen's suggestion:
            //throwEndOfInput();
        }
        mState = STATE_END_OF_INPUT;
        mReader.close();
        reportProblem(findErrorDesc(ERR_END_OF_INPUT, null));
        return null;
    } else {
        mPeekedEvent = null;
    }
    while (true) {
        int next = mReader.next();

return null;
}
if (mState == STATE_INITIAL) {
    // Not sure what it should be... but this should do:
    mPrePeekEvent = START_DOCUMENT;
    mPeekedEvent = createStartDocumentEvent();
    mState = STATE_CONTENT;
} else {
    mPrePeekEvent = mReader.getEventType();
    mPeekedEvent = createNextEvent(false, mReader.next());
}
return mPeekedEvent;

/**
* Note: only here because we implement Iterator interface. Will not
* work, don't bother calling it.
*/
public void remove() {
    throw new UnsupportedOperationException("Can not remove events from XMLEventReader.");
}

/*****
	XMLEventReader2 API
/*****

/**
* Note: although the interface allows implementations to
* throw an { @link XMLStreamException }, the reference implementation
* doesn't currently need to.
* It's still declared, in case in future there is need to throw
* such an exception.
*/
public boolean hasNextEvent() throws XMLStreamException {
    return (mState != STATE_END_OF_INPUT);
}

/*****
// Overridable factory methods
/*****
protected XMLEvent createNextEvent(boolean checkEOD, int type)
throws XMLStreamException
{
    try {
        XMLEvent evt = mAllocator.allocate(mReader);
        if (checkEOD && type == END_DOCUMENT) {
            mState = STATE_END_OF_INPUT;
        }
        return evt;
    }
    catch (RuntimeException rex) {
        /* 29-Mar-2008, TSa: Due to some problems with Stax API
           * (lack of 'throws XMLStreamException' in signature of
           * XMLStreamReader.getText(), for one) it is possible
           * we will get a wrapped XMLStreamException. If so,
           * we should be able to unwrap it.
           */
        Throwable t = rex.getCause();
        while (t != null) {
            if (t instanceof XMLStreamException) {
                throw (XMLStreamException) t;
            }
            t = t.getCause();
        }
        // Nope, need to re-throw as is
        throw rex;
    }
}

/**
 * Method called to create the very first event (START_DOCUMENT).
 */
protected XMLEvent createStartDocumentEvent()
throws XMLStreamException
{
    XMLEvent start = mAllocator.allocate(mReader);
    return start;
}

/**
 // Overridable error reporting methods
 */
private void throwEndOfInput()
{
    throw new NoSuchElementException();
}
protected void throwUnchecked(XMLStreamException sex) {
/* Wrapped root cause? Let's only unwrap one layer; one that
* must have been used to expose the problem (if any)
*/
Throwable t = (sex.getNestedException() == null) ? sex : sex.getNestedException();
// Unchecked? Can re-throw as is
if (t instanceof RuntimeException) {
    throw (RuntimeException) t;
}
if (t instanceof Error) {
    throw (Error) t;
}
// Otherwise, let's just wrap it
throw new RuntimeException("[was "+t.getClass()+"] "+t.getMessage(), t);
}

protected void reportProblem(String msg)
    throws XMLStreamException
{
    reportProblem(msg, mReader.getLocation());
}

protected void reportProblem(String msg, Location loc)
    throws XMLStreamException
{
    if (loc == null) {
        throw new XMLStreamException(msg);
    }
    throw new XMLStreamException(msg, loc);
}

/*
// Package methods for sub-classes
*/

protected XMLStreamReader getStreamReader()
{
    return mReader;
}

/*
// Other internal methods
*/
private final String findErrorDesc(int errorType, int currEvent) {
    String msg = getErrorDesc(errorType, currEvent);
    if (msg != null) {
        return msg;
    }
    switch (errorType) {
        case ERR_GETELEMTEXT_NOT_START_ELEM:
            return "Current state not START_ELEMENT when calling getElementText()";
        case ERR_GETELEMTEXT_NON_TEXT_EVENT:
            return "Expected a text token";
        case ERR_NEXTTAG_NON_WS_TEXT:
            return "Only all-whitespace CHARACTERS/CDATA (or SPACE) allowed for nextTag()";
        case ERR_NEXTTAG_WRONG_TYPE:
            return "Should only encounter START_ELEMENT/END_ELEMENT, SPACE, or all-white-space CHARACTERS";
    }
    // should never happen, but it'd be bad to throw another exception...
    return "Internal error (unrecognized error type: "+errorType+")";
}

/* Stax2 API extension for Streaming Api for Xml processing (StAX). *
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*/
package org.codehaus.stax2.ri;

import java.io.IOException;
import java.io.Writer;
import java.math.BigDecimal;
import java.math.BigInteger;

import javax.xml.namespace.NamespaceContext;
import javax.xml.namespace.QName;
import javax.xml.stream.*;

import org.codehaus.stax2.*;
import org.codehaus.stax2.typed.Base64Variant;
import org.codehaus.stax2.typed.Base64Variants;
import org.codehaus.stax2.typed.TypedArrayDecoder;
import org.codehaus.stax2.typed.TypedValueDecoder;
import org.codehaus.stax2.typed.TypedXMLStreamException;
import org.codehaus.stax2.validation.*;

import org.codehaus.stax2.ri.typed.ValueDecoderFactory;

/**
 * This is a partial base implementation of {@link XMLStreamReader2},
 * the extended stream reader that is part of Stax2.
 */
public abstract class Stax2ReaderImpl
    implements XMLStreamReader2 /* From Stax2 */
    ,AttributeInfo
    ,DTDInfo
    ,LocationInfo
{
    /**
     * Factory used for constructing decoders we need for typed access
     */
    protected ValueDecoderFactory _decoderFactory;

    /**
     // Life-cycle methods
     ************************************************************************
     */

    protected Stax2ReaderImpl()
    {
    }

    /**
     // XMLStreamReader2 (StAX2) implementation
     ************************************************************************
     */
public Object getFeature(String name) {
    // No features defined
    return null;
}

public void setFeature(String name, Object value) {
    // No features defined
}

// NOTE: getProperty() defined in StAX 1.0 interface

public boolean isPropertySupported(String name) {
    /* No way to cleanly implement this using just StAX 1.0
     * interface, so let's be conservative and decline any knowledge
     * of properties...
     */
    return false;
}

public boolean setProperty(String name, Object value) {
    return false; // could throw an exception too
}

// // // StAX2, additional traversal methods

public void skipElement() throws XMLStreamException {
    if (getEventType() != START_ELEMENT) {
        throwNotStartElem();
    }
    int nesting = 1; // need one more end elements than start elements

    while (true) {
        int type = next();
        if (type == START_ELEMENT) {
            ++nesting;
        } else if (type == END_ELEMENT) {
            if (--nesting == 0) {
                break;
            }
        }
    }
}
public AttributeInfo getAttributeInfo() throws XMLStreamException {
    if (getEventType() != START_ELEMENT) {
        throwNotStartElem();
    }
    return this;
}

public DTDInfo getDTDInfo() throws XMLStreamException {
    if (getEventType() != DTD) {
        return null;
    }
    return this;
}

/**
 * Location information is always accessible, for this reader.
 */
public final LocationInfo getLocationInfo() {
    return this;
}

public int getText(Writer w, boolean preserveContents) throws IOException, XMLStreamException {
    char[] cbuf = getTextCharacters();
    int start = getTextStart();
    int len = getTextLength();
    if (len > 0) {
        w.write(cbuf, start, len);
    }
    return len;
}
public abstract int getDepth();

public abstract boolean isEmptyElement() throws XMLStreamException;

public abstract NamespaceContext getNonTransientNamespaceContext();

public String getPrefixedName()
{
    switch (getEventType()) {
    case START_ELEMENT:
    case END_ELEMENT:
    {
        String prefix = getPrefix();
        String ln = getLocalName();

        if (prefix == null) {
            return ln;
        }
        StringBuffer sb = new StringBuffer(ln.length() + 1 + prefix.length());
        sb.append(prefix);
        sb.append(':');
        sb.append(ln);
        return sb.toString();
    }
    case ENTITY_REFERENCE:
        return getLocalName();
    case PROCESSING_INSTRUCTION:
        return getPITarget();
    case DTD:
        return getDTDRootName();
    }
    throw new IllegalStateException("Current state not START_ELEMENT, END_ELEMENT,
ENTITY_REFERENCE, PROCESSING_INSTRUCTION or DTD");
}

public void closeCompletely() throws XMLStreamException
{
    /* As usual, Stax 1.0 offers no generic way of doing just this.
    * But let's at least call the lame basic close()
    */
    close();
}
/**
   // AttributeInfo implementation (StAX 2)
   // Already part of XMLStreamReader
   //public int getAttributeCount();

   public int findAttributeIndex(String nsURI, String localName)
   {
       // !!! TBI
       return -1;
   }

   public int getIdAttributeIndex()
   {
       // !!! TBI
       return -1;
   }

   public int getNotationAttributeIndex()
   {
       // !!! TBI
       return -1;
   }

   */

   /*********************************************************************/
   // DTDInfo implementation (StAX 2)
   /*********************************************************************/
   /*

   public Object getProcessedDTD() {
       return null;
   }

   public String getDTDRootName() {
       return null;
   }

   public String getDTDPublicId() {
       return null;
   }

   public String getDTDSystemId() {
       return null;
   }

   */
/**
 * @return Internal subset portion of the DOCTYPE declaration, if any;
 *   empty String if none
 */
public String getDTDInternalSubset() {
    return null;
}

// StAX2, v2.0
public DTDValidationSchema getProcessedDTDSchema() {
    return null;
}

/*
/////////////////////////////////////////
// LocationInfo implementation (StAX 2)
/////////////////////////////////////////
*/

// // First, the "raw" offset accessors:

public long getStartingByteOffset() {
    return -1L;
}

public long getStartingCharOffset() {
    return 0;
}

public long getEndingByteOffset() throws XMLStreamException {
    return -1;
}

public long getEndingCharOffset() throws XMLStreamException {
    return -1;
}

// // and then the object-based access methods:

public abstract XMLStreamLocation2 getStartLocation();

public abstract XMLStreamLocation2 getCurrentLocation();

public abstract XMLStreamLocation2 getEndLocation() throws XMLStreamException;
public XMLValidator validateAgainst(XMLValidationSchema schema) throws XMLStreamException {
    throwUnsupported();
    return null;
}

public XMLValidator stopValidatingAgainst(XMLValidationSchema schema) throws XMLStreamException {
    throwUnsupported();
    return null;
}

public XMLValidator stopValidatingAgainst(XMLValidator validator) throws XMLStreamException {
    throwUnsupported();
    return null;
}

public abstract ValidationProblemHandler setValidationProblemHandler(ValidationProblemHandler h);

public boolean getElementAsBoolean() throws XMLStreamException {
    ValueDecoderFactory.BooleanDecoder dec = _decoderFactory().getBooleanDecoder();
    getElementAs(dec);
    return dec.getValue();
}

public int getElementAsInt() throws XMLStreamException {
    ValueDecoderFactory.IntDecoder dec = _decoderFactory().getIntDecoder();
    getElementAs(dec);
    return dec.getValue();
}
public long getElementAsLong() throws XMLStreamException
{
    ValueDecoderFactory.LongDecoder dec = _decoderFactory().getLongDecoder();
    getElementAs(dec);
    return dec.getValue();
}

public float getElementAsFloat() throws XMLStreamException
{
    ValueDecoderFactory.FloatDecoder dec = _decoderFactory().getFloatDecoder();
    getElementAs(dec);
    return dec.getValue();
}

public double getElementAsDouble() throws XMLStreamException
{
    ValueDecoderFactory.DoubleDecoder dec = _decoderFactory().getDoubleDecoder();
    getElementAs(dec);
    return dec.getValue();
}

public BigInteger getElementAsInteger() throws XMLStreamException
{
    ValueDecoderFactory.IntegerDecoder dec = _decoderFactory().getIntegerDecoder();
    getElementAs(dec);
    return dec.getValue();
}

public BigDecimal getElementAsDecimal() throws XMLStreamException
{
    ValueDecoderFactory.DecimalDecoder dec = _decoderFactory().getDecimalDecoder();
    getElementAs(dec);
    return dec.getValue();
}

public QName getElementAsQName() throws XMLStreamException
{
    ValueDecoderFactory.QNameDecoder dec = _decoderFactory().getQNameDecoder(getNamespaceContext());
    getElementAs(dec);
    // !!! Should we try to verify validity of name chars?
    return dec.getValue();
}

public byte[] getElementAsBinary() throws XMLStreamException
{
    return getElementAsBinary(Base64Variants.getDefaultVariant());
}
public abstract byte[] getElementAsBinary(Base64Variant v) throws XMLStreamException;

public void getElementAs(TypedValueDecoder tvd) throws XMLStreamException {
    String value = getElementText();
    try {
        tvd.decode(value);
    } catch (IllegalArgumentException iae) {
        throw _constructTypeException(iae, value);
    }
}

/*

///////////////////////////////////////////////////////////////////////////
// TypedXMLStreamReader2 implementation, array elements
///////////////////////////////////////////////////////////////////////////
*/

public int readElementAsIntArray(int[] value, int from, int length) throws XMLStreamException {
    return readElementAsArray(_decoderFactory().getIntArrayDecoder(value, from, length));
}

public int readElementAsLongArray(long[] value, int from, int length) throws XMLStreamException {
    return readElementAsArray(_decoderFactory().getLongArrayDecoder(value, from, length));
}

public int readElementAsFloatArray(float[] value, int from, int length) throws XMLStreamException {
    return readElementAsArray(_decoderFactory().getFloatArrayDecoder(value, from, length));
}

public int readElementAsDoubleArray(double[] value, int from, int length) throws XMLStreamException {
    return readElementAsArray(_decoderFactory().getDoubleArrayDecoder(value, from, length));
}

/**
 * Actual implementation needs to implement tokenization and state keeping.
 * <p>
 * !!! TODO: should be possible to implement completely
 */

public abstract int readElementAsArray(TypedArrayDecoder dec)
throws XMLStreamException;

/*

 ///////////////////////////////////////////////////////////////////////////
// TypedXMLStreamReader2 implementation, binary data

 ///////////////////////////////////////////////////////////////////////////
*/

public int readElementAsBinary(byte[] resultBuffer, int offset, int maxLength)
        throws XMLStreamException
{
    return readElementAsBinary(Base64Variants.getDefaultVariant(), resultBuffer, offset, maxLength);
}

public abstract int readElementAsBinary(Base64Variant b64variant, byte[] resultBuffer, int offset, int maxLength)
        throws XMLStreamException;

/*

 ///////////////////////////////////////////////////////////////////////////
// TypedXMLStreamReader2 implementation, scalar attributes

 ///////////////////////////////////////////////////////////////////////////
*/

public abstract int getAttributeIndex(String namespaceURI, String localName);

public boolean getAttributeAsBoolean(int index) throws XMLStreamException
{
    ValueDecoderFactory.BooleanDecoder dec = _decoderFactory().getBooleanDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public int getAttributeAsInt(int index) throws XMLStreamException
{
    ValueDecoderFactory.IntDecoder dec = _decoderFactory().getIntDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public long getAttributeAsLong(int index) throws XMLStreamException
{
    ValueDecoderFactory.LongDecoder dec = _decoderFactory().getLongDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public float getAttributeAsFloat(int index) throws XMLStreamException
{
ValueDecoderFactory.FloatDecoder dec = _decoderFactory().getFloatDecoder();
getAttributeAs(index, dec);
return dec.getValue();
}

public double getAttributeAsDouble(int index) throws XMLStreamException
{
    ValueDecoderFactory.DoubleDecoder dec = _decoderFactory().getDoubleDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public BigInteger getAttributeAsInteger(int index) throws XMLStreamException
{
    ValueDecoderFactory.IntegerDecoder dec = _decoderFactory().getIntegerDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public BigDecimal getAttributeAsDecimal(int index) throws XMLStreamException
{
    ValueDecoderFactory.DecimalDecoder dec = _decoderFactory().getDecimalDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public QName getAttributeAsQName(int index) throws XMLStreamException
{
    ValueDecoderFactory.QNameDecoder dec = _decoderFactory().getQNameDecoder(getNamespaceContext());
    getAttributeAs(index, dec);
    // !!! Should we try to verify validity of name chars?
    return dec.getValue();
}

public void getAttributeAs(int index, TypedValueDecoder tvd) throws XMLStreamException
{
    String value = getAttributeValue(index);
    try {
        tvd.decode(value);
    } catch (IllegalArgumentException iae) {
        throw _constructTypeException(iae, value);
    }
}

public int[] getAttributeAsIntArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.IntArrayDecoder dec = _decoderFactory().getIntArrayDecoder();
    getAttributeAsArray(index, dec);
return dec.getValues();
}

public long[] getAttributeAsLongArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.LongArrayDecoder dec = _decoderFactory().getLongArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

public float[] getAttributeAsFloatArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.FloatArrayDecoder dec = _decoderFactory().getFloatArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

public double[] getAttributeAsDoubleArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.DoubleArrayDecoder dec = _decoderFactory().getDoubleArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

/**
 * Actual implementation needs to implement tokenization.
 */
public abstract int getAttributeAsArray(int index, TypedArrayDecoder tad) throws XMLStreamException;

public byte[] getAttributeAsBinary(int index) throws XMLStreamException
{
    return getAttributeAsBinary(Base64Variants.getDefaultVariant(), index);
}

public abstract byte[] getAttributeAsBinary(Base64Variant v, int index) throws XMLStreamException;

/*

///////////////////////////////////////////////////////////////////////////////////
// Package methods
///////////////////////////////////////////////////////////////////////////////////
*/

protected ValueDecoderFactory _decoderFactory()
{
    if (_decoderFactory == null) {
        _decoderFactory = new ValueDecoderFactory();
    }
}
protected TypedXMLStreamException _construct(TypeException iae, String lexicalValue)
{
    return new TypedXMLStreamException(lexicalValue, iae.getMessage(), getStartLocation(), iae);
}

/*================================================================*/
// Internal methods
/*================================================================*/
protected void throwUnsupported()
    throws XMLStreamException
{
    throw new XMLStreamException("Unsupported method");
}

protected void throwNotStartElem()
{
    throw new IllegalStateException("Current state not START_ELEMENT");
}
/* Stax2 API extension for Streaming Api for Xml processing (StAX). *
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* limitations under the License. */
package org.codehaus.stax2.ri;

import javax.xml.stream.*;

import org.codehaus.stax2.*;
import org.codehaus.stax2.validation.*;
/**
 * This is a partial base implementation of {@link XMLStreamWriter2},
 * the extended stream writer that is part of Stax2.
 */

public abstract class Stax2WriterImpl
    implements XMLStreamWriter2 /* From Stax2 */
    ,XMLStreamConstants
{
    /*
     // Life-cycle methods
     */

    protected Stax2WriterImpl() { }

    /*
     // XMLStreamWriter2 (StAX2) implementation
     */

    public boolean isPropertySupported(String name)
    {
        /* No base properties (or should we have something for impl
         * name, version?)
         */
        return false;
    }

    public boolean setProperty(String name, Object value)
    {
        throw new IllegalArgumentException("No settable property "+name+");
    }

    public abstract XMLStreamLocation2 getLocation();

    public abstract String getEncoding();

    public void writeCData(char[] text, int start, int len)
        throws XMLStreamException
    {
        writeCData(new String(text, start, len));
    }

    public void writeDTD(String rootName, String systemId, String publicId,
        String internalSubset)
        throws XMLStreamException
    {
StringBuffer sb = new StringBuffer();
sb.append("<!DOCTYPE ");
sb.append(rootName);
if (systemId != null) {
    if (publicId != null) {
        sb.append(" PUBLIC ");
        sb.append(publicId);
        sb.append(" ");
    } else {
        sb.append(" SYSTEM ");
    }
    sb.append(systemId);
    sb.append(">");
// Hmmh. Should we output empty internal subset?
if (internalSubset != null && internalSubset.length() > 0) {
    sb.append(" [ ");
    sb.append(internalSubset);
    sb.append(" ]");
    sb.append(']');
    sb.append('>);
    writeDTD(sb.toString());
}
public void writeFullEndElement()
    throws XMLStreamException
{
    /* This should work with base Stax 1.0 implementations.
    * Sub-classes are, however, encouraged to implement it
    * more directly, if possible.
    */
    writeCharacters('"\n"');
    writeEndElement();
}
public void writeSpace(String text)
    throws XMLStreamException
{
    /* Hmmh. Two choices: either try to write as regular characters,
    * or output as is via raw calls. Latter would be safer, if we
    * had access to it; former may escape incorrectly.
    * While this may not be optimal, let's try former
    */
    writeRaw(text);
public void writeSpace(char[] text, int offset, int length) throws XMLStreamException {
    // See comments above...
    writeRaw(text, offset, length);
}

public abstract void writeStartDocument(String version, String encoding, boolean standAlone) throws XMLStreamException;

/*
   // Stax2, Pass-through methods
   */

public void writeRaw(String text) throws XMLStreamException {
    writeRaw(text, 0, text.length());
}

public abstract void writeRaw(String text, int offset, int len) throws XMLStreamException;

public abstract void writeRaw(char[] text, int offset, int length) throws XMLStreamException;

public void copyEventFromReader(XMLStreamReader2 sr, boolean preserveEventData) throws XMLStreamException {
    switch (sr.getEventType()) {
    case START_DOCUMENT:
        String version = sr.getVersion();
        /* No real declaration? If so, we don't want to output
         * anything, to replicate as closely as possible the
         * source document
         */
        if (version == null || version.length() == 0) {
            ; // no output if no real input
        } else {
            if (sr.standaloneSet()) {
                writeStartDocument(sr.getVersion(),
                sr.getCharacterEncodingScheme(),
                sr.getDefaultNamespaceURI(),
                sr.getParsedName(),
                sr.getLocalName(),
                sr.getQName());
            } else {
                writeWithAttributes(sr.getAttributeCount(),
                sr.getAttributeIndex(0),
                sr.getAttributeValue(0));
            }
        }
        break;
    }
sr.isStandalone();

} else {
    writeStartDocument(sr.getCharacterEncodingScheme(),
    sr.getVersion());

}
}
}

return;

case END_DOCUMENT:
    writeEndDocument();
    return;

    // Element start/end events:
    case START_ELEMENT:
        /* Start element is bit trickier to output since there
         * may be differences between repairing/non-repairing
         * writers. But let's try a generic handling here.
         */
        copyStartElement(sr);
        return;

    case END_ELEMENT:
        writeEndElement();
        return;

    case SPACE:
        writeSpace(sr.getTextCharacters(), sr.getTextStart(), sr.getTextLength());
        return;

    case CDATA:
        writeCData(sr.getTextCharacters(), sr.getTextStart(), sr.getTextLength());
        return;

    case CHARACTERS:
        writeCharacters(sr.getTextCharacters(), sr.getTextStart(), sr.getTextLength());
        return;

    case COMMENT:
        writeComment(sr.getText());
        return;

    case PROCESSING_INSTRUCTION:
        writeProcessingInstruction(sr.getPITarget(), sr.getPIData());
        return;

    case DTD:
        {

DTDInfo info = sr.getDTDInfo();
if (info == null) {
    /* Hmmhh. Can this happen for non-DTD-aware readers? */
    /* And if so, what should we do? */
    /*
    throw new XMLStreamException("Current state DOCTYPE, but not DTDInfo Object returned -- reader doesn't support DTDs?");
    */
    writeDTD(info.getDTDRootName(), info.getDTDSysId(),
             info.getDTDPublicId(), info.getDTDInternalSubset());
}
return;

case ENTITY_REFERENCE:
    writeEntityRef(sr.getLocalName());
    return;

case ATTRIBUTE:
case NAMESPACE:
case ENTITY_DECLARATION:
case NOTATION_DECLARATION:
    // Let's just fall back to throw the exception
    throw new XMLStreamException("Unrecognized event type (" +
                                 sr.getEventType()+"); not sure how to copy");
}

/*
   // Stax2, validation
   // Stax2, validation
   */

public XMLValidator validateAgainst(XMLValidationSchema schema)
    throws XMLStreamException {
    throw new UnsupportedOperationException("Not yet implemented");
}

public XMLValidator stopValidatingAgainst(XMLValidationSchema schema)
    throws XMLStreamException {
    return null;
}

public XMLValidator stopValidatingAgainst(XMLValidator validator)
    throws XMLStreamException {

return null;
}

public ValidationProblemHandler setValidationProblemHandler(ValidationProblemHandler h) {
    /* Not a real problem: although we can’t do anything with it
     * (without real validator integration)
     */
    return null;
}

/**
 // Helper methods
*/

protected void copyStartElement(XMLStreamReader sr) throws XMLStreamException {
    // Any namespace declarations/bindings?
    int nsCount = sr.getNamespaceCount();
    if (nsCount > 0) { // yup, got some...
        /* First, need to (or at least, should?) add prefix bindings:
         * (may not be 100% required, but probably a good thing to do,
         * just so that app code has access to prefixes then)
         */
        for (int i = 0; i < nsCount; ++i) {
            String prefix = sr.getNamespacePrefix(i);
            String uri = sr.getNamespaceURI(i);
            if (prefix == null || prefix.length() == 0) { // default NS
                setDefaultNamespace(uri);
            } else {
                setPrefix(prefix, uri);
            }
        }
    writeStartElement(sr.getPrefix(), sr.getLocalName(), sr.getNamespaceURI());

    if (nsCount > 0) {
        // And then output actual namespace declarations:
        for (int i = 0; i < nsCount; ++i) {
            String prefix = sr.getNamespacePrefix(i);
String uri = sr.getNamespaceURI(i);

if (prefix == null || prefix.length() == 0) { // default NS
    writeDefaultNamespace(uri);
} else {
    writeNamespace(prefix, uri);
}
}

/* And then let's just output attributes. But should we copy the
 * implicit attributes (created via attribute defaulting?) *
 */
int attrCount = sr.getAttributeCount();
if (attrCount > 0) {
    for (int i = 0; i < attrCount; ++i) {
        writeAttribute(sr.getAttributePrefix(i),
                      sr.getAttributeNamespace(i),
                      sr.getAttributeLocalName(i),
                      sr.getAttributeValue(i));
    }
}

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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.

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7.302 xml-apis 1.0b2

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7.303 XML_Pull Parsing API 1.1.3.1

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Simple API for XML (SAX)

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1998-05-11

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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

7.310 xstream:jart 1.4.4 :REL

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 *
 * Created on 22. January 2005 by Joe Walnes
 */

class package com.thoughtworks.xstream.mapper;

import com.thoughtworks.xstream.InitializationException;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

/**
* Mapper that resolves default implementations of classes. For example, * mapper.serializedClass(ArrayList.class) will return java.util.List. Calling * mapper.defaultImplementationOf(List.class) will return ArrayList. *
* @author Joe Walnes
*/

public class DefaultImplementationsMapper extends MapperWrapper {

    private final Map typeToImpl = new HashMap();
    private transient Map implToType = new HashMap();

    public DefaultImplementationsMapper(Mapper wrapped) { super(wrapped);
        addDefaults();
    }

    protected void addDefaults() {
        // null handling
        addDefaultImplementation(null, Mapper.Null.class);
        // register primitive types
        addDefaultImplementation(Boolean.class, boolean.class);
        addDefaultImplementation(Character.class, char.class);
        addDefaultImplementation(Integer.class, int.class);
        addDefaultImplementation(Float.class, float.class);
        addDefaultImplementation(Double.class, double.class);
        addDefaultImplementation(Short.class, short.class);
        addDefaultImplementation(Byte.class, byte.class);
        addDefaultImplementation(Long.class, long.class);
    }

    public void addDefaultImplementation(Class defaultImplementation, Class ofType) { if (defaultImplementation != null && defaultImplementation.isInterface()) { throw new InitializationException("Default implementation is not a concrete class: ",
                + defaultImplementation.getName());
        } typeToImpl.put(ofType, defaultImplementation);
        implToType.put(defaultImplementation, ofType);
    }

    public String serializedClass(Class type) { Class baseType = (Class)implToType.get(type);
        return baseType == null ? super.serializedClass(type) : super.serializedClass(baseType);
    }

    public Class defaultImplementationOf(Class type) { if (typeToImpl.containsKey(type)) { return (Class)typeToImpl.get(type);
    }
private Object readResolve() {
    implToType = new HashMap();
    for (final Iterator iter = typeToImpl.keySet().iterator(); iter.hasNext();) {
        final Object type = iter.next();
        implToType.put(typeToImpl.get(type), type);
    }
    return this;
}
*/

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*
* Created on 16. February 2005 by Joe Walnes
*/

import com.thoughtworks.xstream.InitializationException;
import com.thoughtworks.xstream.core.util.Primitives;
import java.lang.reflect.Field;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

public class ImplicitCollectionMapper extends MapperWrapper {

    public ImplicitCollectionMapper(Mapper wrapped) {
        super(wrapped);
    }

    // { definedIn (Class) -> (ImplicitCollectionMapperForClass) }
    private final Map classNameToMapper = new HashMap();

    private ImplicitCollectionMapperForClass getMapper(Class definedIn) {
        while (definedIn != null) {
            // { definedIn (Class) -> (ImplicitCollectionMapperForClass) }
            private final Map classNameToMapper = new HashMap();

            private ImplicitCollectionMapperForClass getMapper(Class definedIn) {
                while (definedIn != null) {
ImplicitCollectionMapperForClass mapper = (ImplicitCollectionMapperForClass)classNameToMapper.get(definedIn);
if (mapper != null) {
    return mapper;
}
definedIn = definedIn.getSuperclass();
return null;
}

private ImplicitCollectionMapperForClass getOrCreateMapper(Class definedIn) {
    ImplicitCollectionMapperForClass mapper = (ImplicitCollectionMapperForClass)classNameToMapper.get(definedIn);
    if (mapper == null) {
        mapper = new ImplicitCollectionMapperForClass(definedIn);
        classNameToMapper.put(definedIn, mapper);
    }
    return mapper;
}

public String getFieldNameForItemTypeAndName(Class definedIn, Class itemType, String itemFieldName) {
    ImplicitCollectionMapperForClass mapper = getMapper(definedIn);
    if (mapper != null) {
        return mapper.getFieldNameForItemTypeAndName(itemType, itemFieldName);
    } else {
        return null;
    }
}

public Class getItemTypeForItemFieldName(Class definedIn, String itemFieldName) {
    ImplicitCollectionMapperForClass mapper = getMapper(definedIn);
    if (mapper != null) {
        return mapper.getItemTypeForItemFieldName(itemFieldName);
    } else {
        return null;
    }
}

public ImplicitCollectionMapping getImplicitCollectionDefForFieldName(Class itemType, String fieldName) {
    ImplicitCollectionMapperForClass mapper = getMapper(itemType);
    if (mapper != null) {
        return mapper.getImplicitCollectionDefForFieldName(fieldName);
    } else {
        return null;
    }
}
public void add(Class definedIn, String fieldName, String itemFieldName, Class itemType, String keyFieldName) {
    Field field = null;
    Class declaredIn = definedIn;
    while (declaredIn != Object.class) {
        try {
            field = declaredIn.getDeclaredField(fieldName);
            break;
        } catch (SecurityException e) {
            throw new InitializationException(
                    "Access denied for field with implicit collection", e);
        } catch (NoSuchFieldException e) {
            declaredIn = declaredIn.getSuperclass();
        }
    }
    if (field == null) {
        throw new InitializationException("No field \\
            + fieldName
            + " for implicit collection");
    } else if (Map.class.isAssignableFrom(field.getType())) {
        if (itemFieldName == null && keyFieldName == null) {
            itemType = Map.Entry.class;
            } else if (!Collection.class.isAssignableFrom(field.getType())) {
                Class fieldType = field.getType();
                if (!fieldType.isArray()) {
                    throw new InitializationException("Field \\
                        + fieldName
                        + " declares no collection or array");
                } else {
                    Class componentType = fieldType.getComponentType();
                    componentType = componentType.isPrimitive() ? Primitives.box(componentType) : componentType;
                    if (itemType == null) {
                        itemType = componentType;
                    } else {
                        itemType = itemType.isPrimitive() ? Primitives.box(itemType) : itemType;
                        if (!componentType.isAssignableFrom(itemType)) {
                            throw new InitializationException("Field \\
                                + fieldName
                                + " declares no collection or array");
                        }
                    }
                }
            } else if (!Collection.class.isAssignableFrom(field.getType())) {
                Class fieldType = field.getType();
                if (!fieldType.isArray()) {
                    throw new InitializationException("Field \\
                        + fieldName
                        + " declares no collection or array");
                } else {
                    Class componentType = fieldType.getComponentType();
                    componentType = componentType.isPrimitive() ? Primitives.box(componentType) : componentType;
                    if (itemType == null) {
                        itemType = componentType;
                    } else {
                        itemType = itemType.isPrimitive() ? Primitives.box(itemType) : itemType;
                        if (!componentType.isAssignableFrom(itemType)) {
                            throw new InitializationException("Field \\
                                + fieldName
                                + " declares no collection or array");
                        }
                    }
                }
            }
        }
    }
+ "/" declares an array, but the array type is not compatible with " + itemType.getName();

    }}
    }
    }

ImplicitCollectionMapperForClass mapper = getOrCreateMapper(definedIn);
mapper.add(new ImplicitCollectionMappingImpl(fieldName, itemType, itemFieldName, keyFieldName));

private class ImplicitCollectionMapperForClass {
    private Class definedIn;
    // { (NamedItemType) -> (ImplicitCollectionDefImpl) }
    private Map namedItemTypeToDef = new HashMap();
    // { itemFieldName (String) -> (ImplicitCollectionDefImpl) }
    private Map itemFieldNameToDef = new HashMap();
    // { fieldName (String) -> (ImplicitCollectionDefImpl) }
    private Map fieldNameToDef = new HashMap();

    ImplicitCollectionMapperForClass(Class definedIn) {
        this.definedIn = definedIn;
    }

    public String getFieldNameForItemTypeAndName(Class itemType, String itemFieldName) {
        ImplicitCollectionMappingImpl unnamed = null;
        for (Iterator iterator = namedItemTypeToDef.keySet().iterator(); iterator.hasNext();)
            NamedItemType itemTypeForFieldName = (NamedItemType)iterator.next();
            ImplicitCollectionMappingImpl def = (ImplicitCollectionMappingImpl)namedItemTypeToDef
                .get(itemTypeForFieldName);
            if (itemType == Mapper.Null.class) {
                unnamed = def;
                break;
            } else if (itemTypeForFieldName.itemType.isAssignableFrom(itemType)) {
                if (def.getItemFieldName() != null) {
                    if (def.getItemFieldName().equals(itemFieldName)) {
                        return def.getFieldName();
                    }
                } else {
                    unnamed = def;
                    if (itemFieldName == null) {
                        break;
                    }
                }
            }
            if (unnamed != null) {
                return unnamed.getFieldName();
            } else {
ImplicitCollectionMapperForClass mapper =
ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
    return mapper != null ? mapper.getFieldNameForItemTypeAndName(itemType, itemFieldName) : null;
})

public Class getItemTypeForItemFieldName(String itemFieldName) {
    ImplicitCollectionMappingImpl def = getImplicitCollectionDefByItemFieldName(itemFieldName);
    if (def != null) {
        return def.getItemType();
    } else {
        ImplicitCollectionMapperForClass mapper =
        ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
        return mapper != null ? mapper.getItemTypeForItemFieldName(itemFieldName) : null;
    }
}

private ImplicitCollectionMappingImpl getImplicitCollectionDefByItemFieldName(
    String itemFieldName) {
    if (itemFieldName == null) {
        return null;
    } else {
        ImplicitCollectionMappingImpl mapping =
        (ImplicitCollectionMappingImpl)itemFieldNameToDef.get(itemFieldName);
        if (mapping != null) {
            return mapping;
        } else {
            ImplicitCollectionMapperForClass mapper =
            ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
            return mapper != null ? mapper.getImplicitCollectionDefByItemFieldName(itemFieldName) : null;
        }
    }
}

public ImplicitCollectionMapping getImplicitCollectionDefForFieldName(String fieldName) {
    ImplicitCollectionMapping mapping = (ImplicitCollectionMapping)fieldNameToDef.get(fieldName);
    if (mapping != null) {
        return mapping;
    } else {
        ImplicitCollectionMapperForClass mapper =
        ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
        return mapper != null ? mapper.getImplicitCollectionDefForFieldName(fieldName) : null;
    }
}

public void add(ImplicitCollectionMappingImpl def) {
    fieldNameToDef.put(def.getFieldName(), def);
    namedItemTypeToDef.put(def.createNamedItemType(), def);
}
if (def.getItemFieldName() != null) {
    itemFieldNameToDef.put(def.getItemFieldName(), def);
}

private static class ImplicitCollectionMappingImpl implements ImplicitCollectionMapping {
    private final String fieldName;
    private final String itemFieldName;
    private final Class itemType;
    private final String keyFieldName;

    ImplicitCollectionMappingImpl(String fieldName, Class itemType, String itemFieldName, String keyFieldName) {
        this.fieldName = fieldName;
        this.itemFieldName = itemFieldName;
        this.itemType = itemType;
        this.keyFieldName = keyFieldName;
    }

    public NamedItemType createNamedItemType() {
        return new NamedItemType(itemType, itemFieldName);
    }

    public String getFieldName() {
        return fieldName;
    }

    public String getItemFieldName() {
        return itemFieldName;
    }

    public Class getItemType() {
        return itemType;
    }

    public String getKeyFieldName() {
        return keyFieldName;
    }
}

private static class NamedItemType {
    Class itemType;
    String itemFieldName;

    NamedItemType(Class itemType, String itemFieldName) {
        this.itemType = itemType == null ? Object.class : itemType;
        this.itemFieldName = itemFieldName;
    }

    public String getItemFieldName() {
        return itemFieldName;
    }

    public Class getItemType() {
        return itemType;
    }

    public String getKeyFieldName() {
        return keyFieldName;
    }
}
this.itemFieldName = itemFieldName;
}

public boolean equals(Object obj) {
    if (obj instanceof NamedItemType) {
        NamedItemType b = (NamedItemType)obj;
        return itemType.equals(b.itemType) && isEquals(itemFieldName, b.itemFieldName);
    } else {
        return false;
    }
}

private static boolean isEquals(Object a, Object b) {
    if (a == null) {
        return b == null;
    } else {
        return a.equals(b);
    }
}

public int hashCode() {
    int hash = itemType.hashCode() << 7;
    if (itemFieldName != null) {
        hash += itemFieldName.hashCode();
    }
    return hash;
}

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 *
 * Created on 06. May 2004 by Joe Walnes
 */
package com.thoughtworks.xstream.core.util;

import java.text.DateFormat;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;
import java.util.TimeZone;
/**
 * Wrapper around java.text.SimpleDateFormat that can
 * be called by multiple threads concurrently.
 * <p>SimpleDateFormat has a high overhead in creating
 * and is not thread safe. To make best use of resources,
 * the ThreadSafeSimpleDateFormat provides a dynamically
 * sizing pool of instances, each of which will only
 * be called by a single thread at a time.</p>
 * <p>The pool has a maximum capacity, to limit overhead.
 * If all instances in the pool are in use and another is
 * required, it shall block until one becomes available.</p>
 *
 * @author Joe Walnes
 * @author Jörg Schaible
 */

public class ThreadSafeSimpleDateFormat {

    private final String formatString;
    private final Pool pool;
    private final TimeZone timeZone;

    public ThreadSafeSimpleDateFormat(
        String format, TimeZone timeZone, int initialPoolSize, int maxPoolSize,
        final boolean lenient)
    {
        this(format, timeZone, Locale.ENGLISH, initialPoolSize, maxPoolSize, lenient);
    }

    public ThreadSafeSimpleDateFormat(
        String format, TimeZone timeZone, final Locale locale, int initialPoolSize,
        int maxPoolSize, final boolean lenient)
    {
        formatString = format;
        timeZone = timeZone;
        pool = new Pool(initialPoolSize, maxPoolSize, new Pool.Factory() {
            public Object newInstance() {
                SimpleDateFormat dateFormat = new SimpleDateFormat(formatString, locale);
                dateFormat.setLenient(lenient);
                return dateFormat;
            }
        });
    }

    public String format(Date date) {
        DateFormat format = fetchFromPool();
        try {
            return format.format(date);
        } finally {
        }
    }
}
pool.putInPool(format);
}
}

public Date parse(String date) throws ParseException {

    DateFormat format = fetchFromPool();
    try {
        return format.parse(date);
    } finally {
        pool.putInPool(format);
    }
}

private DateFormat fetchFromPool() {
    DateFormat format = (DateFormat) pool.fetchFromPool();
    TimeZone tz = timeZone != null ? timeZone : TimeZone.getDefault();
    if (!tz.equals(format.getTimeZone())) {
        format.setTimeZone(tz);
    }
    return format;
}

public String toString() {
    return formatString;
}

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 * 
 * Created on 11. October 2006 by Joerg Schaible
 */
package com.thoughtworks.xstream.core.util;

import java.util.HashMap;
import java.util.Map;

/**
 * Utility class for primitives.
 *
 * @author Jörg Schaible
 * @since 1.2.1
 */
public final class Primitives {

private final static Map BOX = new HashMap();
private final static Map UNBOX = new HashMap();
private final static Map NAMED_PRIMITIVE = new HashMap();
private final static Map REPRESENTING_CHAR = new HashMap();

static {
    final Class[][] boxing = new Class[][]{
        { Byte.TYPE, Byte.class },
        { Character.TYPE, Character.class },
        { Short.TYPE, Short.class },
        { Integer.TYPE, Integer.class },
        { Long.TYPE, Long.class },
        { Float.TYPE, Float.class },
        { Double.TYPE, Double.class },
        { Boolean.TYPE, Boolean.class },
        { Void.TYPE, Void.class },
    };
    final Character[] representingChars = {
        new Character('B'),
        new Character('C'),
        new Character('S'),
        new Character('I'),
        new Character('J'),
        new Character('F'),
        new Character('D'),
        new Character('Z'),
        null
    };
    for (int i = 0; i < boxing.length; i++) {
        final Class primitiveType = boxing[i][0];
        final Class boxedType = boxing[i][1];
        BOX.put(primitiveType, boxedType);
        UNBOX.put(boxedType, primitiveType);
        NAMED_PRIMITIVE.put(primitiveType.getName(), primitiveType);
        REPRESENTING_CHAR.put(primitiveType, representingChars[i]);
    }
}

/**
 * Get the boxed type for a primitive.
 *
 * @param type the primitive type
 * @return the boxed type or null
 */
static public Class box(final Class type) {
    return (Class)BOX.get(type);
}
/**
* Get the primitive type for a boxed one.
*
* @param type the boxed type
* @return the primitive type or null
*/
static public Class unbox(final Class type) {
    return (Class)UNBOX.get(type);
}

/**
* Check for a boxed type.
*
* @param type the type to check
* @return true if the type is boxed
* @since 1.4
*/
static public boolean isBoxed(final Class type) {
    return UNBOX.containsKey(type);
}

/**
* Get the primitive type by name.
*
* @param name the name of the type
* @return the Java type or null
* @since 1.4
*/
static public Class primitiveType(final String name) {
    return (Class)NAMED_PRIMITIVE.get(name);
}

/**
* Get the representing character of a primitive type.
*
* @param type the primitive type
* @return the representing character or 0
* @since 1.4
*/
static public char representingChar(final Class type) {
    Character ch = (Character)REPRESENTING_CHAR.get(type);
    return ch == null ? 0 : ch.charValue();
}

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*
* Created on 06. May 2005 by Guilherme Silveira
*/
package com.thoughtworks.xstream.annotations;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import java.lang.annotation.ElementType;
/**
* Declares a field to be omitted. The result is the same as invoking the method
* omitField in a XStream instance.
*
* @author Chung-Onn Cheong
* @author Guilherme Silveira
* @since 1.2.2
*/
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.FIELD)
public @ interface XStreamOmitField {
}
/**
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*
* Created on 16. September 2005 by Mauro Talevi
*/
package com.thoughtworks.xstream.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
/**
* @author Chung-Onn Cheong
* @deprecated As of 1.3, use @XStreamImplicit at field level
*/
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.FIELD)
public @interface XStreamImplicit {
    /**
     * An annotation for marking a field as an implicit collection or array.
     *
     * @author Lucio Benfante
     * @author Jörg Schaible
     * @since 1.2.2
     */
    @Retention(RetentionPolicy.RUNTIME)
    @Target(ElementType.FIELD)
    public @interface XStreamImplicit {
        /**
         * Element name of the implicit collection.
         */
        String itemFieldName() default "";
        /**
         * Field name of map entries that are used as key for the element in the implicit map.
         * @since 1.4
         */
        String keyFieldName() default "";
    }
}

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * @Retention(RetentionPolicy.RUNTIME)
 * @Target(ElementType.TYPE)
 public @interface XStreamImplicitCollection { 
    String value(); //fieldName  
    String item() default ""; //itemfieldName
 }
 /**
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 *
 * Created on 01. December 2006 by Joerg Schaible
 */
package com.thoughtworks.xstream.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * An annotation for marking a field as an implicit collection or array.
 *
 * @author Lucio Benfante
 * @author Jörg Schaible
 * @since 1.2.2
 */
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.TYPE)
public @interface XStreamImplicitCollection {
    String value(); //fieldName
    String item() default ""; //itemfieldName
}

7.311 xtend-lib 2.4.3
package org.eclipse.xtend.lib.macro.declaration;

import com.google.common.annotations.Beta;

/**
 * @author Sven Efftinge
 */
@Beta
public interface PrimitiveType extends Type {
  /**
   * Returns the kind of primitive type that this object represents.
   * @return the kind of primitive type that this object represents
   */
  Kind getKind();

  /**
   * An enumeration of the different kinds of primitive types.
   */
  enum Kind {
    /** The primitive type boolean */
    BOOLEAN,
    /** The primitive type byte */
    BYTE,
    /** The primitive type short */
    SHORT,
    /** The primitive type int */
    INT,
    /** The primitive type long */
    LONG,
    /** The primitive type char */
    CHAR,
    /** The primitive type float */
    FLOAT,
    /** The primitive type double */
    DOUBLE,
    /** The primitive type boolean array */
    BOOLEAN_ARRAY,
    /** The primitive type byte array */
    BYTE_ARRAY,
    /** The primitive type short array */
    SHORT_ARRAY,
    /** The primitive type int array */
    INT_ARRAY,
    /** The primitive type long array */
    LONG_ARRAY,
    /** The primitive type char array */
    CHAR_ARRAY,
    /** The primitive type float array */
    FLOAT_ARRAY,
    /** The primitive type double array */
    DOUBLE_ARRAY,
    /** The primitive type boolean array */
    BOOLEAN_ARRAY_2D,
    /** The primitive type byte array */
    BYTE_ARRAY_2D,
    /** The primitive type short array */
    SHORT_ARRAY_2D,
    /** The primitive type int array */
    INT_ARRAY_2D,
    /** The primitive type long array */
    LONG_ARRAY_2D,
    /** The primitive type char array */
    CHAR_ARRAY_2D,
    /** The primitive type float array */
    FLOAT_ARRAY_2D,
    /** The primitive type double array */
    DOUBLE_ARRAY_2D
  }
}
FLOAT,
/** The primitive type <tt>double</tt> */
DOUBLE
}
}

### 7.312 xtext-xbase 2.4.3

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7.313 yangtools-binding-data-codec 0.6.5-Helium-SR3

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7.314 yangtools-binding-generator-api 0.6.5-Helium-SR3

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7.316 yangtools-binding-generator-spi 0.6.5-Helium-SR3

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### 7.317 yangtools-binding-generator-util 0.6.5-Helium-SR3

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7.319 yangtools-binding-type-provider 0.6.5-Helium-SR3

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7.323 yangtools-object-cache-guava .6.5-Helium-SR3

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7.324 yangtools-object-cache-noop 0.6.5-Helium-SR3
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7.325 yangtools-restconf-client 0.6.5-Helium-SR3

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7.326 yangtools-restconf-client-impl 0.6.5-Helium-SR3

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7.331 yangtools-thirdparty-xtend-lib-osgi

2.4.3

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7.332 yangtools-util 0.6.2-Helium

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7.334 yangtools-yang-common 0.6.5-Helium-SR3

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7.335 yangtools-yang-data-api 0.6.5-Helium-SR3

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7.340 yangtools-yang-data-util 0.6.5-Helium-SR3

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7.341 yangtools-yang-ietf-restconf
2013.10.19.1.3-Helium-SR3

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### 7.346 yangtools-yang-model-api 0.6.5-Helium-SR3

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**7.348 yangtools-yang-model-util 6.5-Helium-SR3**

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2013.09.07-Helium-SR3
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7.350 yangtools-yang-parser-api :0.6.5-
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7.351 yangtools-yang-parser-impl 0.6.5-Helium-SR3

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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-- activemq-web

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-- activemq-web
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1.9.0.1

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8.18 cassandra 2.1.2

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The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.

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8.45 google-gson 2.3

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**8.47 guava 16.0**

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14.0.1

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8.55 jackson-jaxrs 1.9.12

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8.56 jackson-mapper-asl 1.9.12

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      (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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8.59 jaxb2-basics-runtime 0.6.4

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*/

package com.jcraft.jsch;

public class Buffer{
    final byte[] tmp=new byte[4];
    byte[] buffer;
    int index;
    int s;
    public Buffer(int size){
        buffer=new byte[size];
        index=0;
        s=0;
    }
    public Buffer(byte[] buffer){
        this.buffer=buffer;
        index=0;
        s=0;
    }
    public Buffer(){ this(1024*10*2); }
    public void putByte(byte foo){
        buffer[index++]=foo;
    }
    public void putByte(byte[] foo) {
        putByte(foo, 0, foo.length);
    }
    public void putByte(byte[] foo, int begin, int length) {
        System.arraycopy(foo, begin, buffer, index, length);
        index+=length;
    }
    public void putString(byte[] foo){
        putString(foo, 0, foo.length);
    }
    public void putString(byte[] foo, int begin, int length) {
        System.arraycopy(foo, begin, buffer, index, length);
        index+=length;
    }
    public void putInt(int val) {
        // implementation
    }
}
tmp[0]=(byte)(val >>> 24);
tmp[1]=(byte)(val >>> 16);
tmp[2]=(byte)(val >>> 8);
tmp[3]=(byte)(val);
System.arraycopy(tmp, 0, buffer, index, 4);
index+=4;
}
public void putLong(long val) {
  tmp[0]=(byte)(val >>> 56);
tmp[1]=(byte)(val >>> 48);
tmp[2]=(byte)(val >>> 40);
tmp[3]=(byte)(val >>> 32);
System.arraycopy(tmp, 0, buffer, index, 4);
tmp[0]=(byte)(val >>> 24);
tmp[1]=(byte)(val >>> 16);
tmp[2]=(byte)(val >>> 8);
tmp[3]=(byte)(val);
System.arraycopy(tmp, 0, buffer, index+4, 4);
index+=8;
}
void skip(int n) {
  index+=n;
}
void putPad(int n) {
  while(n>0){
    buffer[index++]=(byte)0;
    n--;
  }
}
public void putMPIInt(byte[] foo){
  int i=foo.length;
  if(((foo[0]&0x80)!=0)){
    i++;
    putInt(i);
    putByte((byte)0);
  }
  else{
    putInt(i);
  }
  putByte(foo);
}
public int getLength(){
  return index-s;
}
public int getOffSet(){
  return s;
}
public void setOffSet(int s){
this.s=s;
}
public long getLong(){
    long foo = getInt()&0xffffffffL;
    foo = ((foo<<32)) | (getInt()&0xffffffffL);
    return foo;
}
public int getInt(){
    int foo = getShort();
    foo = ((foo<<16)&0xffff0000) | (getShort()&0xffff);
    return foo;
}
public long getUInt(){
    long foo = 0L;
    long bar = 0L;
    foo = getByte();
    foo = ((foo<<8)&0xff00)|(getByte()&0xff);
    bar = getByte();
    bar = ((bar<<8)&0xff00)|(getByte()&0xff);
    foo = ((foo<<16)&0xffff0000) | (bar&0xffff);
    return foo;
}
int getShort() {
    int foo = getByte();
    foo = ((foo<<8)&0xff00)|(getByte()&0xff);
    return foo;
}
public int getByte() {
    return (buffer[s++]&0xff);
}
public void getByte(byte[] foo) {
    getByte(foo, 0, foo.length);
}
void getByte(byte[] foo, int start, int len) {
    System.arraycopy(buffer, s, foo, start, len);
    s+=len;
}
public int getByte(int len) {
    int foo=s;
    s+=len;
    return foo;
}
public byte[] getMPInt() {
    int i=getInt(); // uint32
    if(i<0 || // bigger than 0x7fffffff
         i>8*1024){
        // TODO: an exception should be thrown.
        i = 8*1024; // the session will be broken, but working around OOME.
    }
byte[] foo=new byte[i];
getByte(foo, 0, i);
return foo;

public byte[] getMPIntBits() {
    int bits=getInt();
    int bytes=(bits+7)/8;
    byte[] foo=new byte[bytes];
    getByte(foo, 0, bytes);
    if((foo[0] & 0x80)!=0){
        byte[] bar=new byte[foo.length+1];
        bar[0]=0; // ??
        System.arraycopy(foo, 0, bar, 1, foo.length);
        foo=bar;
    }
    return foo;
}

public byte[] getString() {
    int i = getInt();  // uint32
    if(i<0 || // bigger than 0x7fffffff
        i>256*1024){
        // TODO: an exception should be thrown.
        i = 256*1024; // the session will be broken, but working around OOME.
    }
    byte[] foo=new byte[i];
    getByte(foo, 0, i);
    return foo;
}
byte[] getString(int[]start, int[]len) {
    int i=getInt();
    start[0]=getByte(i);
    len[0]=i;
    return buffer;
}

public void reset(){
    index=0;
    s=0;
}

public void shift(){
    if(s==0)return;
    System.arraycopy(buffer, s, buffer, 0, index-s);
    index=index-s;
    s=0;
}
void rewind(){
    s=0;
}
byte getCommand(){
    return buffer[5];
}

void checkFreeSize(int n){
    if(buffer.length<index+n){
        byte[] tmp = new byte[buffer.length*2];
        System.arraycopy(buffer, 0, tmp, 0, index);
        buffer = tmp;
    }
}

byte[][] getBytes(int n, String msg) throws JSchException {
    byte[][] tmp = new byte[n][];
    for(int i = 0; i < n; i++){
        int j = getInt();
        if(getLength() < j){
            throw new JSchException(msg);
        }
        tmp[i] = new byte[j];
        getByte(tmp[i]);
    }
    return tmp;
}

/*
static Buffer fromBytes(byte[]... args){
    int length = args.length*4;
    for(int i = 0; i < args.length; i++){
        length += args[i].length;
    }
    Buffer buf = new Buffer(length);
    for(int i = 0; i < args.length; i++){
        buf.putString(args[i]);
    }
    return buf;
}
*/

static Buffer fromBytes(byte[][] args){
    int length = args.length*4;
    for(int i = 0; i < args.length; i++){
        length += args[i].length;
    }
    Buffer buf = new Buffer(length);
    for(int i = 0; i < args.length; i++){
        buf.putString(args[i]);
    }
    return buf;
}
static String[] chars={
    "0","1","2","3","4","5","6","7","8","9","a","b","c","d","e","f"
};
static void dump_buffer(){
    int foo;
    for(int i=0; i<tmp_buffer_index; i++){
        foo=tmp_buffer[i]&0xff;
        System.err.print(chars[(foo>>>4)&0xf]);
        System.err.print(chars[foo&0xf]);
        if(i%16==15){
            System.err.println("\n");
            continue;
        }
        if(i>0 & i%2==1){
            System.err.print(" ");
        }
    }
    System.err.println("\n");
}
static void dump(byte[] b){
    dump(b, 0, b.length);
}
static void dump(byte[] b, int s, int l){
    for(int i=s; i<s+l; i++){
        System.err.print(Integer.toHexString(b[i]&0xff)+":");
    }
    System.err.println("\n");
}

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8.67 libprotobuf 2.5.0

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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8.73 netty 3.9.5Final

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 */

package io.netty.buffer;

import io.netty.util.ResourceLeak;

import java.nio.ByteOrder;
final class SimpleLeakAwareByteBuf extends WrappedByteBuf {

    private final ResourceLeak leak;

    SimpleLeakAwareByteBuf(ByteBuf buf, ResourceLeak leak) {
        super(buf);
        this.leak = leak;
    }

    @Override
    public boolean release() {
        boolean deallocated = super.release();
        if (deallocated) {
            leak.close();
        }
        return deallocated;
    }

    @Override
    public boolean release(int decrement) {
        boolean deallocated = super.release(decrement);
        if (deallocated) {
            leak.close();
        }
        return deallocated;
    }

    @Override
    public ByteBuf order(ByteOrder endianness) {
        leak.record();
        if (order() == endianness) {
            return this;
        } else {
            return new SimpleLeakAwareByteBuf(super.order(endianness), leak);
        }
    }

    @Override
    public ByteBuf slice() {
        return new SimpleLeakAwareByteBuf(super.slice(), leak);
    }

    @Override
    public ByteBuf slice(int index, int length) {
        return new SimpleLeakAwareByteBuf(super.slice(index, length), leak);
    }
}
@Override
public ByteBuf duplicate() {
    return new SimpleLeakAwareByteBuf(super.duplicate(), leak);
}

@Override
public ByteBuf readSlice(int length) {
    return new SimpleLeakAwareByteBuf(super.readSlice(length), leak);
}

package io.netty.buffer;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which exposes its parent's sub-region only. It is
 * recommended to use {@link ByteBuf#slice()} and
 * {@link ByteBuf#slice(int, int)} instead of calling the constructor
 * explicitly.
 */
public class SlicedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;
    private final int adjustment;
    private final int length;

    public SlicedByteBuf(ByteBuf buffer, int adjustment, int length) {
        super(buffer, adjustment, length);
        this.buffer = buffer;
        this.adjustment = adjustment;
        this.length = length;
    }

    // other methods...
}
public SlicedByteBuf(ByteBuf buffer, int index, int length) {
    super(length);
    if (index < 0 || index > buffer.capacity() - length) {
        throw new IndexOutOfBoundsException(buffer + ".slice(" + index + ", " + length + ")");
    }
    if (buffer instanceof SlicedByteBuf) {
        this.buffer = ((SlicedByteBuf) buffer).buffer;
        adjustment = ((SlicedByteBuf) buffer).adjustment + index;
    } else if (buffer instanceof DuplicatedByteBuf) {
        this.buffer = buffer.unwrap();
        adjustment = index;
    } else {
        this.buffer = buffer;
        adjustment = index;
    }
    this.length = length;
}

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return length;
}

@Override
public ByteBuf capacity(int newCapacity) {
throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}
@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);
    duplicate.setIndex(readerIndex(), writerIndex());
    return duplicate;
}

@Override
public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}
@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index + adjustment, value);
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());
    buffer.setBytes(index + adjustment, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    return null;
}
checkIndex(index, length);
buffer.getBytes(index + adjustment, out, length);
return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
checkIndex(index, length);
return buffer.getBytes(index + adjustment, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
checkIndex(index, length);
return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
checkIndex(index, length);
return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int nioBufferCount() {
return buffer.nioBufferCount();
}

@Override
public ByteBuffer nioBuffer(int index, int length) {
checkIndex(index, length);
return buffer.nioBuffer(index + adjustment, length);
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
checkIndex(index, length);
return buffer.nioBuffers(index + adjustment, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
checkIndex(index, length);
return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {

int ret = buffer.forEachByte(index + adjustment, length, processor);
if (ret >= adjustment) {
    return ret - adjustment;
} else {
    return -1;
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}

package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use {@link ByteBuf#duplicate()} instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;

    public DuplicatedByteBuf(ByteBuf buffer) {
        super(buffer.maxCapacity());

        if (buffer instanceof DuplicatedByteBuf) {
            this.buffer = ((DuplicatedByteBuf) buffer).buffer;
        } else {
            this.buffer = buffer;
        }

        setIndex(buffer.readerIndex(), buffer.writerIndex());
    }

    @Override
    public ByteBuf unwrap() {
        return buffer;
    }

    @Override
    public ByteBufAllocator alloc() {
        return buffer.alloc();
    }

    @Override
    public ByteOrder order() {
        return buffer.order();
    }

    @Override
    public boolean isDirect() {
        return buffer.isDirect();
    }

    @Override
    public int capacity() {
        return buffer.capacity();
    }

    @Override
    public ByteBuf capacity(int newCapacity) {
        buffer.capacity(newCapacity);
        return this;
    }
}
@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {
    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}

protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}
@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override
public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuf slice(int index, int length) {
    return buffer.slice(index, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}
@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}

@Override
public ByteBuf setByte(int index, int value) {
    _setByte(index, value);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}

@Override
public ByteBuf setShort(int index, int value) {
    _setShort(index, value);
    return this;
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}

@Override
public ByteBuf setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}

@Override
public ByteBuf setInt(int index, int value) {
    _setInt(index, value);
    return this;
}

@Override
protected void _setInt(int index, int value) {

buffer.setInt(index, value);
}

@Override
public ByteBuf setLong(int index, long value) {
    _setLong(index, value);
    return this;
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    buffer.setBytes(index, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length)
    throws IOException {
    buffer.getBytes(index, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return 0;
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return 0;
}
return buffer.setBytes(index, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
}

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/*============================================================================
package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented {@link SctpMessage}s, so
 * only <strong>complete</strong> {@link SctpMessage}s will be forwarded to the next
 * {@link ChannelInboundHandler}.
 */
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();

        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {
            frag = fragments.remove(streamIdentifier);
        } else {
            frag = Unpooled.EMPTY_BUFFER;
        }

        if (isComplete && !frag.isReadable()) {
            //data chunk is not fragmented
            out.add(msg);
        } else if (!isComplete && frag.isReadable()) {
            //more message to complete
            fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
        } else if (isComplete && frag.isReadable()) {
            //last message to complete
            fragments.remove(streamIdentifier);
            SctpMessage assembledMsg = new SctpMessage(
                protocolIdentifier,
               ......}
streamIdentifier,
    Unpooled.wrappedBuffer(frag, byteBuf));
    out.add(assembledMsg);
} else {
    // first incomplete message
    fragments.put(streamIdentifier, byteBuf);
}
byteBuf.retain();
}

8.75 netty project 3.7.0 :final

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9.13 commons-cli 1.2

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// TODO On Windows 7+ or Windows 2008 R2+ use NetAddServiceAccount,
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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 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;
}
}
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18.0

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*/

package org.glassfish.jersey.servlet.async;

import java.util.concurrent.atomic.AtomicReference;
import javax.servlet.AsyncContext;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.glassfish.jersey.servlet.spi.AsyncContextDelegate;
import org.glassfish.jersey.servlet.spi.AsyncContextDelegateProvider;

/**
 * Servlet 3.x container response writer async extension and related extension factory implementation.
 *
 * @author Jakub Podlesak (jakub.podlesak at oracle.com)
 * @author Marek Potociar (marek.potociar at oracle.com)
 */
public class AsyncContextDelegateProviderImpl implements AsyncContextDelegateProvider {
  @Override
  public final AsyncContextDelegate createDelegate(final HttpServletRequest request, final HttpServletResponse response) {
    return new ExtensionImpl(request, response);
  }

  private static final class ExtensionImpl implements AsyncContextDelegate {
    private static final int NEVER_TIMEOUT_VALUE = -1;

    private final HttpServletRequest request;
    private final HttpServletResponse response;

    // Implementation details...
  }
}
private final AtomicReference<AsyncContext> asyncContextRef;

/**
 * Create a Servlet 3.x [@link AsyncContextDelegate] with given [@code request] and [@code response].
 * @param request request to create [@link AsyncContext] for.
 * @param response response to create [@link AsyncContext] for.
 */
private ExtensionImpl(final HttpServletRequest request, final HttpServletResponse response) {
    this.request = request;
    this.response = response;
    this.asyncContextRef = new AtomicReference<AsyncContext>();
}

@Override
public void suspend() throws IllegalStateException {
    final AsyncContext asyncContext = request.startAsync(request, response);
    // Tell underlying asyncContext to never time out.
    asyncContext setTimeout(NEVER_TIMEOUT_VALUE);

    asyncContextRef.set(asyncContext);
}

@Override
public void complete() {
    final AsyncContext asyncContext = asyncContextRef.getAndSet(null);
    if (asyncContext != null) {
        asyncContext.complete();
    }
}

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9.61 jersey-server 2.6

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 */
package org.glassfish.jersey.server.wadl.internal.generators;

import java.io.File;
import java.io.FileInputStream;
import java.io.InputStream;
import java.util.List;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.MediaType;
import javax.inject.Provider;
import javax.xml.parsers.SAXParserFactory;
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;
import org.glassfish.jersey.server.wadl.internal.WadlUtils;
import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Method;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;

/**<p>This {@link org.glassfish.jersey.server.wadl.WadlGenerator} adds all doc elements provided by {@link ApplicationDocs#getDocs()} to the generated wadl-file.</p>
*<p>The {@link ApplicationDocs} content can either be provided via a {@link File} reference
* ({@link #setApplicationDocsFile(File)}) or via an {@link InputStream} ({@link #setApplicationDocsStream(InputStream)}).
*<p>
* The {@link File} should be used when using the maven-wadl-plugin for generating wadl offline,
* the {@link InputStream} should be used when the extended wadl is generated by jersey at runtime, e.g.
* using the {@link org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig} for configuration.
* <p>
* @author Martin Grotzke (martin.grotzke at freiheit.com)
*/

public class WadlGeneratorApplicationDoc implements WadlGenerator {
private WadlGenerator _delegate;
private File _applicationDocsFile;
private InputStream _applicationDocsStream;
private ApplicationDocs _applicationDocs;
@Context
private Provider<SAXParserFactory> saxFactoryProvider;

public void setWadlGeneratorDelegate(WadlGenerator delegate) {
   _delegate = delegate;
}

public String getRequiredJaxbContextPath() {
   return _delegate.getRequiredJaxbContextPath();
}

public void setApplicationDocsFile(File applicationDocsFile) {
   if (_applicationDocsStream != null) {
      throw new IllegalStateException("The applicationDocsStream property is already set," +
         " therefore you cannot set the applicationDocsFile property. Only one of both can be set at a time.");
   }
   _applicationDocsFile = applicationDocsFile;
}

public void setApplicationDocsStream(InputStream applicationDocsStream) {
   if (_applicationDocsFile != null) {
      throw new IllegalStateException("The applicationDocsFile property is already set," +
         " therefore you cannot set the applicationDocsStream property. Only one of both can be set at a time.");
   }
   _applicationDocsStream = applicationDocsStream;
}

public void init() throws Exception {
   if (_applicationDocsFile == null && _applicationDocsStream == null) {
      throw new IllegalStateException("Neither the applicationDocsFile nor the applicationDocsStream" +
         " is set, one of both is required.");
   }
   _delegate.init();

   InputStream inputStream;
   if (_applicationDocsFile != null) {
      inputStream = new FileInputStream(_applicationDocsFile);
   } else {
      inputStream = _applicationDocsStream;
   }
   _applicationDocs = WadlUtils.unmarshall(inputStream, saxFactoryProvider.get(), ApplicationDocs.class);
}
/**
 * @return the application
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createApplication()
 */

public Application createApplication() {
    final Application result = _delegate.createApplication();
    if (_applicationDocs != null && _applicationDocs.getDocs() != null &&
        !_applicationDocs.getDocs().isEmpty()) {
        result.getDoc().addAll(_applicationDocs.getDocs());
    }
    return result;
}

/**
 * @param r
 * @param m
 * @return the method
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createMethod(org.glassfish.jersey.server.model.Resource,
 *          org.glassfish.jersey.server.model.ResourceMethod)
 */

public Method createMethod(org.glassfish.jersey.server.model.Resource r,
                           org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createMethod(r, m);
}

/**
 * @param r
 * @param m
 * @param mediaType
 * @return request
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createRequestRepresentation(org.glassfish.jersey.server.model.Resource,
 *          org.glassfish.jersey.server.model.ResourceMethod, javax.ws.rs.core.MediaType)
 */

public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
                                                   org.glassfish.jersey.server.model.ResourceMethod m,
                                                   MediaType mediaType) {
    return _delegate.createRequestRepresentation(r, m, mediaType);
}
public Request createRequest(org.glassfish.jersey.server.model.Resource r, org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createRequest(r, m);
}

/**
* @param r
* @param m
* @param p
* @return parameter
* @see org.glassfish.jersey.server.wadl.WadlGenerator#createParam(org.glassfish.jersey.server.model.Resource,
*/
public Param createParam(org.glassfish.jersey.server.model.Resource r, org.glassfish.jersey.server.model.ResourceMethod m, Parameter p) {
    return _delegate.createParam(r, m, p);
}

/**
* @param r
* @param path
* @return resource
* @see org.glassfish.jersey.server.wadl.WadlGenerator#createResource(org.glassfish.jersey.server.model.Resource, String)
*/
public Resource createResource(org.glassfish.jersey.server.model.Resource r, String path) {
    return _delegate.createResource(r, path);
}

/**
* @param r
* @param m
* @return response
* @see org.glassfish.jersey.server.wadl.WadlGenerator#createResponses(org.glassfish.jersey.server.model.Resource,
* org.glassfish.jersey.server.model.ResourceMethod)
*/
public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r, org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createResponses(r, m);
}
public Resources createResources() {
    return _delegate.createResources();
}

// ================ methods for post build actions =======================

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    return _delegate.createExternalGrammar();
}

@Override
public void attachTypes(ApplicationDescription egd) {
    _delegate.attachTypes(egd);
}

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package org.glassfish.jersey.server.wadl.internal.generators;

import java.util.ArrayList;
import java.util.List;
import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorType;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlType;
import com.sun.research.ws.wadl.Doc;

/**
 * The wrapper root document for multiple {@link Doc} elements.
 * Created on: Jun 10, 2008<br>
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 */
@XmlAccessorType(XmlAccessType.FIELD)
@XmlType(name = "applicationDocs", propOrder = {
        "docs"
})
@XmlRootElement(name = "applicationDocs")
public class ApplicationDocs {

    @XmlElement(name = "doc")
    protected List<Doc> docs;

    public List<Doc> getDocs() {
        if (docs == null) {
            docs = new ArrayList<Doc>();
        }
        return this.docs;
    }
}
package org.glassfish.jersey.server.wadl.internal;

import java.util.ArrayList;
import java.util.List;
import javax.ws.rs.core.MediaType;
import javax.xml.namespace.QName;

import java.util.ArrayList;
import java.util.List;
import javax.ws.rs.core.MediaType;
import javax.xml.namespace.QName;
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.model.ResourceMethod;
import org.glassfish.jersey.server.wadl.WadlGenerator;

import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.ParamStyle;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;

/**
 * This WadlGenerator creates the basic wadl artifacts.<br>
 * Created on: Jun 16, 2008<br>
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public class WadlGeneratorImpl implements WadlGenerator {

@Override
public String getRequiredJaxbContextPath() {
    final String name = Application.class.getName();
    return name.substring(0, name.lastIndexOf('.'));
}

@Override
public void init() {
}

@Override
public void setWadlGeneratorDelegate(WadlGenerator delegate) {
    throw new UnsupportedOperationException("No delegate supported.");
}

@Override
public Resources createResources() {
    return new Resources();
}

@Override
public Application createApplication() {
    return new Application();
}
@Override
public com.sun.research.ws.wadl.Method createMethod(
    org.glassfish.jersey.server.model.Resource r, final ResourceMethod m) {
    com.sun.research.ws.wadl.Method wadlMethod =
        new com.sun.research.ws.wadl.Method();
    wadlMethod.setName(m.getHttpMethod());
    wadlMethod.setId(m.getInvocable().getDefinitionMethod().getName());
    if (m.isExtended()) {
        wadlMethod.getAny().add(WadlApplicationContextImpl.extendedElement);
    }
    return wadlMethod;
}

@Override
public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
    ResourceMethod m, MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

@Override
public Request createRequest(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    return new Request();
}

@Override
public Param createParam(org.glassfish.jersey.server.model.Resource r, ResourceMethod m, final Parameter p) {
    if (p.getSource() == Parameter.Source.UNKNOWN)
        return null;

    Param wadlParam = new Param();
    wadlParam.setName(p.getSourceName());

    switch (p.getSource()) {
        case FORM:
            wadlParam.setStyle(ParamStyle.QUERY);
            break;
        case QUERY:
            wadlParam.setStyle(ParamStyle.QUERY);
            break;
        case MATRIX:
            wadlParam.setStyle(ParamStyle.MATRIX);
            break;
        case PATH:
            wadlParam.setStyle(ParamStyle.TEMPLATE);
break;
case HEADER:
    wadlParam.setStyle(ParamStyle.HEADER);
    break;
case COOKIE:
    // Generates name="Cookie" path="<name>"
    wadlParam.setStyle(ParamStyle.HEADER);
    wadlParam.setName("Cookie");
    wadlParam.setPath(p.getSourceName());
    break;
default:
    break;
}
if (p.hasDefaultValue())
    wadlParam.setDefaultValue(p.getDefaultValue());
Class<? pClass = p.getRawType();
if (pClass.isArray()) {
    wadlParam.setRepeating(true);
    pClass = pClass.getComponentType();
}
if (pClass.equals(int.class) || pClass.equals(Integer.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "int", "xs"));
else if (pClass.equals(boolean.class) || pClass.equals(Boolean.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "boolean", "xs"));
else if (pClass.equals(long.class) || pClass.equals(Long.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "long", "xs"));
else if (pClass.equals(short.class) || pClass.equals(Short.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "short", "xs"));
else if (pClass.equals(byte.class) || pClass.equals(Byte.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "byte", "xs"));
else if (pClass.equals(float.class) || pClass.equals(Float.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "float", "xs"));
else if (pClass.equals(double.class) || pClass.equals(Double.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "double", "xs"));
else
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "string", "xs"));
return wadlParam;

@Override
public Resource createResource(org.glassfish.jersey.server.model.Resource resource, String path) {  
    Resource wadlResource = new Resource();
    if (path != null) {
        wadlResource.setPath(path);
    } else if (resource.getPath() != null) {
        wadlResource.setPath(resource.getPath());
    }
if (resource.isExtended()) {

    wadlResource.getAny().add(WadlApplicationContextImpl.extendedElement);
}

return wadlResource;

@Override
public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    final Response response = new Response();

    for (MediaType mediaType : m.getProducedTypes()) {
        if (!MediaType.WILDCARD_TYPE.equals(mediaType) || !hasEmptyProducibleMediaTypeSet(m)) {
            Representation wadlRepresentation = createResponseRepresentation(r, m, mediaType);
            response.getRepresentation().add(wadlRepresentation);
        }
    }

    List<Response> responses = new ArrayList<Response>();
    responses.add(response);
    return responses;
}

private boolean hasEmptyProducibleMediaTypeSet(final ResourceMethod method) {
    return method.getProducedTypes().isEmpty();
}

public Representation createResponseRepresentation(org.glassfish.jersey.server.model.Resource r,
                                                ResourceMethod m,
                                                MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

// ================ methods for post build actions =======================

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    // Return an empty list to add to
    return new ExternalGrammarDefinition();
}
@Override
public void attachTypes(ApplicationDescription egd) {
}
}

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package org.glassfish.jersey.server.wadl.internal;

import java.util.Set;
import javax.ws.rs.core.MediaType;
import javax.xml.namespace.QName;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import com.sun.research.ws.wadl.Application;

/**
 * This class is designed to combine the Application instance with any other 
 * external metadata that might be required to describe the application.
 * 
 * @author Gerard Davison
 */
public class ApplicationDescription {

    private Application _application;
    private WadlGenerator.ExternalGrammarDefinition _externalGrammarDefinition;

    ApplicationDescription(Application application, WadlGenerator.ExternalGrammarDefinition externalGrammarDefinition) {
        super();
        this._application = application;
        this._externalGrammarDefinition = externalGrammarDefinition;
    }

    /**
     * @return The instance of the application object
     */
    public Application getApplication() {
        return _application;
    }

    /**
     * @param type java class to be resolved.
     * @return the QName for the given Class in the grammar.
     */
    public QName resolve(Class type) {
        return _externalGrammarDefinition.resolve(type);
    }

    /**
     * @param path path to external metadata.
     * @return the external metadata for a given URL, generally provided as a sub resource 
     * or the root application.wadl.
     */
    public ExternalGrammar getExternalGrammar(String path) {
        return _externalGrammarDefinition.map.get(path);
    }
}
/**
 * @return A set of all the external metadata keys
 */
public Set<String> getExternalMetadataKeys() {
    return _externalGrammarDefinition.map.keySet();
}

/**
 * A simple holder class that stores a type and binary content
 * to be used to return extra metadata with
 */
public static class ExternalGrammar {

    private MediaType _type;
    private byte[] _content;

    public ExternalGrammar(MediaType type, byte[] content) {
        super();
        this._type = type;
        this._content = content.clone();
    }

    public MediaType getType() {
        return _type;
    }

    public byte[] getContent() {
        // Defensive copy
        return _content.clone();
    }
}

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package org.glassfish.jersey.server.wadl.internal;

import java.net.URI;
import java.security.AccessController;
import java.util.logging.Level;
import java.util.logging.Logger;

import javax.ws.rs.ProcessingException;
import javax.ws.rs.core.Configuration;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.UriBuilder;
import javax.ws.rs.core.UriInfo;

import javax.xml.bind.JAXBContext;
import javax.xml.bind.JAXBElement;
import javax.xml.bind.JAXBException;
import javax.xml.namespace.QName;
import org.glassfish.jersey.internal.util.ReflectionHelper;
import org.glassfish.jersey.server.ExtendedResourceContext;
import org.glassfish.jersey.server.internal.LocalizationMessages;
import org.glassfish.jersey.server.wadl.WadlApplicationContext;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig;
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfigLoader;

import org.glassfish.hk2.api.ServiceLocator;

import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Doc;
import com.sun.research.ws.wadl.Grammars;
import com.sun.research.ws.wadl.Include;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;

/**
 * WADL application context implementation.
 *
 * @author Paul Sandoz (paul.sandoz at oracle.com)
 */
public class WadlApplicationContextImpl implements WadlApplicationContext {

    private static final Logger LOGGER = Logger.getLogger(WadlApplicationContextImpl.class.getName());

    static final String WADL_JERSEY_NAMESPACE = "http://jersey.java.net/";
    public static final JAXBElement extendedElement = new JAXBElement<String>(
            new QName(WADL_JERSEY_NAMESPACE, "extended", "jersey"), String.class, "true");

    @Context
    private ExtendedResourceContext resourceContext;

    private final ServiceLocator serviceLocator;

    private boolean wadlGenerationEnabled = true;

    private final WadlGeneratorConfig wadlGeneratorConfig;

    private final JAXBContext jaxbContext;

    public WadlApplicationContextImpl(@Context Configuration configuration, @Context ServiceLocator serviceLocator) {
        this.serviceLocator = serviceLocator;
        this.wadlGeneratorConfig = WadlGeneratorConfigLoader.loadWadlGeneratorsFromConfig(configuration.getProperties());

        // TODO perhaps this should be done another way for the moment
        // create a temporary generator just to do this one task
        final WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);

        JAXBContext jaxbContextCandidate;
final ClassLoader contextClassLoader =
AccessController.doPrivileged(ReflectionHelper.getContextClassLoaderPA());
try {
    // Nasty ClassLoader magic. JAXB-API has some strange limitation about what classloader can
    // be used in OSGi environment - it must be same as context ClassLoader. Following code just
    // workarounds this limitation
    // see JERSEY-1818
    // see JSR222-46

    final ClassLoader jerseyModuleClassLoader =
        AccessController.doPrivileged(ReflectionHelper.getClassLoaderPA(wadlGenerator.getClass()));

    AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(jerseyModuleClassLoader));

    JAXBContext jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath(),
        jerseyModuleClassLoader);
}

} catch (JAXBException ex) { 
    try {
        // fallback for glassfish
        LOGGER.log(Level.FINE, LocalizationMessages.WADL_JAXB_CONTEXT_FALLBACK(), ex);
        jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath());
    } catch (JAXBException innerEx) {
        throw new ProcessingException(LocalizationMessages.ERROR_WADL_JAXB_CONTEXT(), ex);
    }
} finally {
    AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(contextClassLoader));
}

jaxbContext = jaxbContextCandidate;

@Override
public ApplicationDescription getApplication(UriInfo uriInfo, boolean detailedWadl) {
    ApplicationDescription applicationDescription = getWadlBuilder(detailedWadl, uriInfo)
        .generate(resourceContext.getResourceModel().getRootResources());
    final Application application = applicationDescription.getApplication();
    for (Resources resources : application.getResources()) {
        if (resources.getBase() == null) {
            resources.setBase(uriInfo.getBaseUri().toString());
        }
    }
    attachExternalGrammar(application, applicationDescription, uriInfo.getRequestUri());
    return applicationDescription;
}

@Override
public Application getApplication(UriInfo info, org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl) {

    // Get the root application description
    //

    ApplicationDescription description = getApplication(info, detailedWadl);

    WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);
    Application application = new WadlBuilder(wadlGenerator, detailedWadl, info).generate(description, resource);
    if (application == null) {
        return null;
    }

    for (Resources resources : application.getResources()) {
        resources.setBase(info.getBaseUri().toString());
    }

    // Attach any grammar we may have
    attachExternalGrammar(application, description, info.getRequestUri());

    for (Resources resources : application.getResources()) {
        final Resource r = resources.getResource().get(0);
        r.setPath(info.getBaseUri().relativize(info.getAbsolutePath()).toString());
        // remove path params since path is fixed at this point
        r.getParam().clear();
    }

    return application;
}

// TODO probably no longer required
@Override
public JAXBContext getJAXBContext() {
    return jaxbContext;
}

private WadlBuilder getWadlBuilder(boolean detailedWadl, UriInfo uriInfo) {
    return (this.wadlGenerationEnabled ? new WadlBuilder(wadlGeneratorConfig.createWadlGenerator(serviceLocator), detailedWadl, uriInfo) : null);
}

@Override
public void setWadlGenerationEnabled(boolean wadlGenerationEnabled) {
this.wadlGenerationEnabled = wadlGenerationEnabled;
}

@Override
public boolean isWadlGenerationEnabled() {
    return wadlGenerationEnabled;
}

/**
 * Update the application object to include the generated grammar objects
 */
private void attachExternalGrammar(
    Application application,
    ApplicationDescription applicationDescription,
    URI requestURI) {

    // Massage the application.wadl URI slightly to get the right effect
    //

    try {
        final String requestURIPath = requestURI.getPath();

        if (requestURIPath.endsWith("application.wadl")) {
            requestURI = UriBuilder.fromUri(requestURI)
                .replacePath(  
                    requestURIPath  
                        .substring(0, requestURIPath.lastIndexOf('/') + 1))  
                .build();
        }

        String root = application.getResources().get(0).getBase();
        UriBuilder extendedPath = root != null ?  
            UriBuilder.fromPath(root).path("/application.wadl/")  
            : UriBuilder.fromPath("./application.wadl/");
        URI rootURI = root != null ? UriBuilder.fromPath(root).build() : null;

        // Add a reference to this grammar
        //

        Grammars grammars;
        if (application.getGrammars() != null) {
            LOGGER.info(LocalizationMessages.ERROR_WADL_GRAMMAR_ALREADY_CONTAINS());
            grammars = application.getGrammars();
        } else {
            grammars = new Grammars();
            application.setGrammars(grammars);
        }
    }
}
for (String path : applicationDescription.getExternalMetadataKeys()) { 
    URI schemaURI = 
        extendedPath.clone().path(path).build(); 
    String schemaPath = rootURI != null ? 
        requestURI.relativize(schemaURI).toString() 
    : schemaURI.toString(); 
    Include include = new Include(); 
    include.setHref(schemaPath); 
    Doc doc = new Doc(); 
    doc.setLang("en"); 
    doc.setTitle("Generated"); 
    include.getDoc().add(doc); 
    // Finally add to list 
    grammars.getInclude().add(include); 
} 
} catch (Exception e) { 
    throw new ProcessingException(LocalizationMessages.ERROR_WADL_EXTERNAL_GRAMMAR(), e); 
} 

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 */
package org.glassfish.jersey.server.wadl;

import javax.ws.rs.core.UriInfo;
import javax.xml.bind.JAXBContext;
import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;
import com.sun.research.ws.wadl.Application;

/**
 * A context to obtain WADL-based information.
 *
 * @author Paul.Sandoz
 */
public interface WadlApplicationContext {
    //    /**
    //     * Get a WADL builder initiated with the configured [link WadlGenerator]
    //     * for the Web application.
    //     * // *
    //     * @return the WADL builder.
    //     */
    //    WadlBuilder getWadlBuilder();

    //    /**
    //     * Get a new instance of a [link ApplicationDescription] corresponding to all
    //     * the root resource classes.
    //     * // *
    //     * @return the application description, the contents may be modified.
    //    */
/**
 * Get a new instance of a {ApplicationDescription} corresponding to all
 * the root resource classes, and configure the base URI.
 * @param ui the URI information from which the base URI is set on the
 * WADL application.
 * @return the application description, the contents may be modified.
 */
ApplicationDescription getApplication(UriInfo ui, boolean detailedWadl);

/**
 * Get a new instance of {Application} for a particular resource.
 * @param info the URI information from which the base URI is set on the
 * WADL application.
 * @param resource the resource to build the Application for
 * @return the application for this resource
 */
Application getApplication(UriInfo info, org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl);

/**
 * Get the default JAXB context associated with the {WadlGenerator}
 * for the Web application.
 * @return the default JAXB context.
 */
JAXBContext getJAXBContext();
/**
 * Get WADL generation status.
 *
 * @return true when WADL generation is enabled. Does not take
 *         {@link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 */

boolean isWadlGenerationEnabled();
}

/*
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 */
package org.glassfish.jersey.server.monitoring;

import java.util.Date;
import java.util.Map;
import java.util.Set;

/**
 * Application MX Bean.
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public interface ApplicationMXBean {

    /**
     * Get the application name.
     *
     * @return Application name.
     */
    public String getApplicationName();

    /**
     * Get the Application class name.
     *
     * @return Application class name.
     */
    public String getApplicationClass();

    /**
     * Get the map of configuration properties converted to strings.
     *
     * @return Map property keys to property string values.
     */
    public Map<String, String> getProperties();

    /**
     * Get the start time of the application (when application was initialized).
     *
     * @return Application start time.
     */
    public Date getStartTime();

    /**
     * Get a set of string names of resource classes registered by the user.
     *
     * @return Set of classes full names (with package names).
     */
    public Set<String> getRegisteredClasses();
}

@see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredClasses() for specification
* of returned classes.
public Set<String> getRegisteredClasses();

/**
 * Get a set of string names of classes of user registered instances.
 * @return Set of user registered instances converted to their class full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredClasses()
 */
public Set<String> getRegisteredInstances();

/**
 * Get classes of registered providers.
 * @return Set of provider class full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getProviders() for specification
 *      of returned classes.
 */
public Set<String> getProviderClasses();

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package org.glassfish.jersey.server.monitoring;

import java.util.Set;

import org.glassfish.jersey.server.ResourceConfig;
import org.glassfish.jersey.server.model.ResourceModel;

/**
 * An event informing about application lifecycle changes. The event is created by Jersey runtime and
 * handled by user registered [@link ApplicationEventListener application event listener].
 * <p/>
 * The event contains the [@link Type] which distinguishes between types of event. There are various
 * properties in the event (accessible by getters) and some of them might be relevant only to specific event types.
 * <p/>
 * Note that internal state of the event must be modified. Even the event is immutable it exposes objects
 * which might be mutable and the code of event listener must not change state of these objects.
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public interface ApplicationEvent {

    /**
     * The type of the event that identifies on which lifecycle change the event is triggered.
     */
    public static enum Type {

        /**
         * Initialization of the application has started. In this point no all the event properties
         * are initialized yet.
         */
        INITIALIZATION_START,

        /**
         * Initialization of [@link org.glassfish.jersey.server.ApplicationHandler jersey application] is
         * finished but the server might not be started and ready yet to serve requests (this will be
         * indicated by the [@link #INITIALIZATION_FINISHED] event). This event indicates only that the
         * environment is ready (all providers are registered, application is configured, etc.).
         */
/* @since 2.5 */
INITIALIZATION_APP_FINISHED,
/**
* Initialization of the application has finished, server is started and application is ready
* to handle requests now.
*/
INITIALIZATION_FINISHED,
/**
* Application has been destroyed (stopped). In this point the application cannot process any new requests.
*/
DESTROY_FINISHED,
/**
* The application reload is finished. The reload can be invoked by
* [ @link org.glassfish.jersey.server.spi.Container#reload() ] method. When this event is triggered
* the reload is completely finished, which means that the new application is initialized (appropriate
* events are called) and new reloaded application is ready to server requests.
*/
RELOAD_FINISHED
}

/**
* Return the type of the event.
*
* @return Event type.
*/
public Type getType();

/**
* Get resource config associated with the application. The resource config is set for all event types.
*
* @return Resource config on which this application is based on.
*/
public ResourceConfig getResourceConfig();

/**
* Get resource classes registered by the user in the current application. The set contains only
* user resource classes and not resource classes added by Jersey
* or by [ @link org.glassfish.jersey.server.model.ModelProcessor ].
* <p/>
* User resources are resources that
* were explicitly registered by the configuration, discovered by the class path scanning or that
* constructs explicitly registered [ @link org.glassfish.jersey.server.model.Resource programmatic resource ].
*
* @return Resource user registered classes.
*/
public Set<Class<?>> getRegisteredClasses();
/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by \{ @link org.glassfish.jersey.server.model.ModelProcessor \}.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered \{ @link org.glassfish.jersey.server.model.Resource programmatic resource \}.
 * @return Resource instances registered by user.
 */
public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers
 * are providers like \{ @link org.glassfish.jersey.server.model.MethodList.Filter filters \},
 * \{ @link javax.ws.rs.ext.ReaderInterceptor reader \} and \{ @link javax.ws.rs.ext.WriterInterceptor writer \}
 * interceptors which are explicitly registered by configuration, or annotated by
 * \{ @link javax.ws.rs.ext.Provider @Provider \} or registered in META-INF/services. The
 * set does not include providers that are by default built in Jersey.
 * @return Set of provider classes.
 */
public Set<Class<?>> getProviders();

/**
 * Get the resource model of the application. The method returns null for
 * \{ @link Type#INITIALIZATION_START \} event type as the resource model is not initialized yet.
 * The returned resource model is the final deployed model including resources enhanced by
 * \{ @link org.glassfish.jersey.server.model.ModelProcessor model processors \}.
 * @return Resource model of the deployed application.
 */
public ResourceModel getResourceModel();

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*/

package org.glassfish.jersey.server.monitoring;

import javax.ws.rs.ConstrainedTo;
import javax.ws.rs.RuntimeType;

import org.glassfish.jersey.spi.Contract;

/**
 * Jersey specific provider that listens to [ApplicationEvent application events].
 * The implementation of this interface will be called for two kind of events:
 * application events and [RequestEvent request events]. This interface will listen to
 * all [ApplicationEvent.Type application event types] but only to first request event which is the [REQUEST#START]. On this event the
 * application event listener can decide whether it will listen to the request and return [RequestEventListener request event listener] for listening to further request events.
 * }
 * <p/>
 * The implementation of this interface can be registered as a standard Jersey/JAX-RS provider
 * by annotating with [Provider] annotation in the case of
* class path scanning, by registering as a provider using [@link org.glassfish.jersey.server.ResourceConfig]
* or by returning from [@link javax.ws.rs.core.Application#getClasses()]
* or [@link javax.ws.rs.core.Application#getSingletons()]. The provider can be registered only on the server
* side.
* <p/>
* Application event listener can read data of events but must not modify them in any way. The implementation
* must be thread safe (the methods might be called from different threads).
* 
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
*/
@Contract
@ConstrainedTo(RuntimeType.SERVER)
public interface ApplicationEventListener {

/**
 * Process the application [@code event]. This method is called when new event occurs.
 * 
 * @param event Application event.
 */
public void onEvent(ApplicationEvent event);

/**
 * Process a new request and return a [@link RequestEventListener request event listener] if
 * listening to [@link RequestEvent request events] is required. The method is called once for
 * each new incoming request. If listening to the request is required then request event must be returned
 * from the method. Such a request event listener will receive all request events that one request. If listening
 * to request event for the request is not required then [@code null] must be returned
 * from the method (do not return empty mock listener in these
 * cases as it will have negative performance impact).
 * 
 * @param requestEvent Event of type [@link RequestEvent.Type#START].
 * @return Request event listener that will monitor the events of the request
 *         connected with [@code requestEvent]; null otherwise.
 */
public RequestEventListener onRequest(RequestEvent requestEvent);
}

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package org.glassfish.jersey.server.monitoring;

import java.util.Date;
import java.util.Set;
import org.glassfish.jersey.server.ResourceConfig;

/**
 * Monitoring statistics and configuration of an application.
 * <p>
 * Statistics retrieved from Jersey runtime might be mutable and thanks to it might provide inconsistent data
 * as not all statistics are updated in the same time. To retrieve the immutable and consistent
 * statistics data the method (@link #snapshot()) should be used.
 * 
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 * @see MonitoringStatistics See MonitoringStatistics class for general details about statistics.
 * 
 * public interface ApplicationStatistics {
 * 
 * Get the resource config.
 * 
 */
* @return Resource config.
*/
public ResourceConfig getResourceConfig();

/**
 * Get the start time of the application.
 *
 * @return Time when an application initialization has been finished.
 */
public Date getStartTime();

/**
 * Get the time when application destroy (stop) has been finished.
 *
 * @return Destroy time.
 *
 * @deprecated deprecated since 2.5 (destroy time will always be { @code null}). Use
 * { @link org.glassfish.jersey.server.spi.ContainerLifecycleListener#onShutdown(org.glassfish.jersey.server.spi.Container)}
 * to listen on the destroy.
 */
public Date getDestroyTime();

/**
 * Get resource classes registered by the user in the current application. The set contains only
 * user resource classes and not resource classes added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.  
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource user registered classes.
 */
public Set<Class<?>> getRegisteredClasses();

/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.  
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource instances registered by user.
 */
public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers
 * are providers like {@link org.glassfish.jersey.server.model.MethodList.Filter filters},
 * {@link javax.ws.rs.ext.ReaderInterceptor reader} and {@link javax.ws.rs.ext.WriterInterceptor writer}
 * interceptors which are explicitly registered by configuration, or annotated by
 * {@link javax.ws.rs.ext.Provider @Provider} or registered in META-INF/services. The
 * set does not include providers that are by default built in Jersey.
 * *
 * @return Set of provider classes.
 */
public Set<Class<?>> getProviders();

/**
 * Get the immutable consistent snapshot of the monitoring statistics. Working with snapshots might
 * have negative performance impact as snapshot must be created but ensures consistency of data over time.
 * However, the usage of snapshot is encouraged to avoid working with inconsistent data. Not all statistics
 * must be updated in the same time on mutable version of statistics.
 * *
 * @return Snapshot of application statistics.
 */
public ApplicationStatistics snapshot();

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Corporation name: Simula Labs, Inc.
Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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Date:

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Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name                  Date added
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E-Mail: gregw@eclipse.com
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Version: GnuPG v1.4.1 (GNU/Linux)
iD8DBQFEaEaStXR9WPTAwnLARAjsNAJ4jBB6wCEEqcFlijGge7yrAMSrFv/gCgoMC+5hdry6ZjXRcUhQEyNz2F/T4=
=I4Co
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Full name: Jan Bartel
E-Mail: janb@eclipse.com
Mailing Address: 62 Church St Balmain NSW 2041 Australia

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iD8DBQFQiMI6J97Uv2IW248RAmGNAJ9/krpkiYJRrJTMXVkJ3cdnVvYU+QCiYFEh
pN0h9U/xdFTRMFsXYFHqeN4=
=24Hd
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Full name: Jesse C. McConnell
E-Mail: jmcconnell@apache.org
Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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Version: GnuPG v1.4.6 (GNU/Linux)

iD8DBQFHacMO+jg6q+ULyBMRaky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjIJACgrvJM C/W/GuQFfCJJykkL2jd9/Ag=
=ufUh
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Full name: Jeanfrancois Arcand
E-Mail: jfarand@apache.org
Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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iD8DBQFE85cgaq9Frj/ClrIRAmuJAKCFgi4W0UOH8IUn+SV6PBHRF3BnLgCcDqqCZokttkbTHwaa5TtxQbScw=
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iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTODyTdT1bxwCdGgWv
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.warp:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit:javax.servlet.jsp.jstl

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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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9.73 Logstash_jruby 1.4.2

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9.74 Logstash_LGPL 1.4.2

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9.79 osgi-resource-locator 1.0.1
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*/
package org.slf4j.helpers;
import java.io.IOException;
import java.io.Serializable;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Serves as base class for named logger implementation. More significantly, this class establishes deserialization behavior. See @see #readResolve.
 *
 * @author Ceki Gulcu
 * @since 1.5.3
 */
abstract class NamedLoggerBase implements Logger, Serializable {

    private static final long serialVersionUID = 7535258609338176893L;

    protected String name;

    public String getName() {
        return name;
    }

    /**
     * Replace this instance with a homonymous (same name) logger returned
     */
}
This approach will work well if the desired ILoggerFactory is the one references by LoggerFactory. However, if the user manages its logger hierarchy through a different (non-static) mechanism, e.g. dependency injection, then this approach would be mostly counterproductive.

@throws ObjectStreamException

protected Object readResolve() throws ObjectStreamException {
    return LoggerFactory.getLogger(getName());
}

9.84 slf4j-log4j12 1.6.1
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9.85 Snappy-java 1.0.4.1

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Version 2.0, January 2004

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webmaster
(last updated $Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) $)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:


To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \
   co -D2006-11-20 mozilla/js/rhino

The patch is available here:

https://bugzilla.mozilla.org/attachment.cgi?id=252418

which is attached to this bug:

https://bugzilla.mozilla.org/show_bug.cgi?id=367627

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java

Which come from:

http://java.sun.com/products/jfc/tsc/articles/treetable2

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<tbody>
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<td>zoom-in.png</td>
<td>viewmag+.png</td>
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<tr>
<td>zoom-out.png</td>
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</thead>
<tbody>
<tr>
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<td>viewmag+.png</td>
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HISTORY

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agle@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility.  (His dynamic type inference code hasn’t  
made it into the released version of the collector, yet.)  
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on  

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10.45 Bootbox 4.1.0

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10.46 bootstrap 3.0.3

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10.47 bootstrap-datarangepicker 1.3.2

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10.48 bootstrap-datepicker.js n/a

10.49 bootstrap-datetimepicker 0.0.11

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which 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
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.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 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.

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.

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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.

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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, the materials to be 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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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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which 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.

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### 10.55 cglib-nodep 2.2

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10.77 dwr 2.0.6

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AppleJavaExtensions
v 1.2


This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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On 13 Aug 2004, at 12:33 AM, mdrance@apple.com wrote:
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navbar_active: license
relative_path: ../
---

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{% capture stripe_ad_content %
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      <li>
        <i class="fa-li fa fa-info-circle fa-lg"></i> Attribution is no longer required as of Font Awesome 3.0 but is much appreciated:
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10.90 freefont-ttf 20100919

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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.)

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10.124 Hibernate 3.0 :31 March 2005

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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.

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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.

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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, the materials to be 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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The main difference can be found in the final paragraph: the restriction that the source code is not "licensed" in this particular situation has been removed.

FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created
to support formats handled by JAI but not included in Java SE
as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
and some other TIFF related code is derived from LIBTIFF:

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10.146 jackson-core-asl 1.8.5

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10.147 jackson-core-asl 1.9.13

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(1)

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(2)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

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:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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   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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which 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
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.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 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.

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:

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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.

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 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 materials to be 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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with the library, after making changes to the library and recompiling
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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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 all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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a) The modified work must itself be a software library.

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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which 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 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.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 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.

6. As an exception to the Sections above, you may also compile 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
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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) 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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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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(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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10.158 java-property-utils 1.9

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That's all there is to it!

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10.171 JCL 1.1.1 implemented over SLF4J

1.7.5

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/*--
$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp$

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package org.jdom;

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 *
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
 * @author  Brett McLaughlin
 * @author  Jason Hunter
 */
public class Comment extends Content {

    private static final String CVS_ID = 
"@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 "$;

    /** Text of the <code>Comment</code> */
    protected String text;

    /**
     * Default, no-args constructor for implementations to use if needed.
     */
    protected Comment() {} 

    /**
     * This creates the comment with the supplied text.
     *
     * @param text <code>String</code> content of comment.
     */
    public Comment(String text) {
        setText(text);
    }

    /**
     * Returns the XPath 1.0 string value of this element, which is the
     * text of this comment.
     *
     * @return the text of this comment
     */
    public String getValue() {
        return text;
    }

    /**
     * This returns the textual data within the <code>Comment</code>.
     */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *     <code>Comment</code>
 */
public Comment setText(String text) {
    String reason;
    if (((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }
    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * [{@link org.jdom.output.XMLOutputter#outputString(Comment)}]
 * should be used.
 * 
 * @return <code>String</code> - information about the
 *     <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
10.176 jdom 1.1.2

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10.177 JDOM 1.1

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10.178 jdt-compiler 3.1.1

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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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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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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.

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10.208 json 2.0

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10.209 jsoup 1.6.3

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10.217 Junit 4.8.

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librdkafka - Apache Kafka C driver library

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10.246 mime4j 0.6

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10.248 Mondrian 3.1.1.12687

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10.250 net-snmp 5.7.2

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 */

package net.oauth;

import java.io.IOException;
import java.net.URISyntaxException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;
import net.oauth.signature.OAuthSignatureMethod;

//TODO: move this class into oauth-provider

/**
 * A simple OAuthValidator, which checks the version, whether the timestamp is
 * close to now, the nonce hasn't been used before and the signature is valid.
 * Each check may be overridden.
 */
This implementation is less than industrial strength:

- Duplicate nonces won't be reliably detected by a service provider running in multiple processes, since the used nonces are stored in memory.
- The collection of used nonces is a synchronized choke point.
- The used nonces may occupy lots of memory, although you can minimize this by calling releaseGarbage periodically.
- The range of acceptable timestamps can't be changed, and there's no system for increasing the range smoothly.
- Correcting the clock backward may allow duplicate nonces.

For a big service provider, it might be better to store used nonces in a database.

@throws org.apache.commons.lang3.NotDueException
@throws org.apache.commons.lang3.IllegalArgumentException

public class SimpleOAuthValidator implements OAuthValidator {

/** The default maximum age of timestamps is 5 minutes. */
  
  public static final long DEFAULT_MAX_TIMESTAMP_AGE = 5 * 60 * 1000L;
  
  public static final long DEFAULT_TIMESTAMP_WINDOW = DEFAULT_MAX_TIMESTAMP_AGE;

  /**
   * Names of parameters that may not appear twice in a valid message.
   * This limitation is specified by OAuth Core <a href="http://oauth.net/core/1.0#anchor7">section 5</a>.
   */
  
  public static final Set<String> SINGLE_PARAMETERS = constructSingleParameters();

  private static Set<String> constructSingleParameters() {
    Set<String> s = new HashSet<String>();
    for (String p : new String[] { OAuth.OAUTH_CONSUMER_KEY, OAuth.OAUTH_TOKEN,
        OAuth.OAUTH_TOKEN_SECRET,
        OAuth.OAUTH_CALLBACK, OAuth.OAUTH_SIGNATURE_METHOD,
        OAuth.OAUTH_SIGNATURE, OAuth.OAUTH_TIMESTAMP,
        OAuth.OAUTH_NONCE, OAuth.OAUTH_VERSION }) {
      s.add(p);
    }
    return Collections.unmodifiableSet(s);
  }

  /**
   * Construct a validator that rejects messages more than five minutes old or with a OAuth version other than 1.0.
   */
  
  public SimpleOAuthValidator() {


public SimpleOAuthValidator(long maxTimestampAgeMsec, double maxVersion) {
    this(maxTimestampAgeMsec, Double.parseDouble(OAuth.VERSION_1_0));
}

/**
 * Public constructor.
 *
 * @param maxTimestampAgeMsec
 *            the range of valid timestamps, in milliseconds into the past
 *            or future. So the total range of valid timestamps is twice
 *            this value, rounded to the nearest second.
 * @param maxVersion
 *            the maximum valid oauth_version
 */
public SimpleOAuthValidator(long maxTimestampAgeMsec, double maxVersion) {
    this.maxTimestampAgeMsec = maxTimestampAgeMsec;
    this.maxVersion = maxVersion;
}

protected final double minVersion = 1.0;
protected final double maxVersion;
protected final long maxTimestampAgeMsec;
private final Set<UsedNonce> usedNonces = new TreeSet<UsedNonce>();

/**
 * Allow objects that are no longer useful to become garbage.
 *
 * @return the earliest point in time at which another call will release
 *         some garbage, or null to indicate there's nothing currently
 *         stored that will become garbage in future. This value may change,
 *         each time releaseGarbage or validateNonce is called.
 */
public Date releaseGarbage() {
    return removeOldNonces(currentTimeMsec());
}

/**
 * Remove usedNonces with timestamps that are too old to be valid.
 */
private Date removeOldNonces(long currentTimeMsec) {
    UsedNonce next = null;
    UsedNonce min = new UsedNonce((currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L);
    synchronized (usedNonces) {
        // Because usedNonces is a TreeSet, its iterator produces
        // elements from oldest to newest (their natural order).
        for (Iterator<UsedNonce> iter = usedNonces.iterator(); iter.hasNext();) {
            UsedNonce used = iter.next();
            if (min.compareTo(used) <= 0) {
                next = used;
            }
        }
    }
    return min;
}
break; // all the rest are also new enough
}  
iter.remove(); // too old
}
}
if (next == null)
    return null;
return new Date((next.getTimestamp() * 1000L) + maxTimestampAgeMsec + 500);
}
/** {*@inherit}* /
* @throws URISyntaxException */
public void validateMessage(OAuthMessage message, OAuthAccessor accessor)
throws OAuthException, IOException, URISyntaxException {
    checkSingleParameters(message);
    validateVersion(message);
    validateTimestampAndNonce(message);
    validateSignature(message, accessor);
}
/** Throw an exception if any SINGLE_PARAMETERS occur repeatedly. */
protected void checkSingleParameters(OAuthMessage message) throws IOException, OAuthException {
    // Check for repeated oauth_ parameters:
    boolean repeated = false;
    Map<String, Collection<String>> nameToValues = new HashMap<String, Collection<String>>();
    for (Map.Entry<String, String> parameter : message.getParameters()) {
        String name = parameter.getKey();
        if (SINGLE_PARAMETERS.contains(name)) {
            Collection<String> values = nameToValues.get(name);
            if (values == null) {
                values = new ArrayList<String>();
                nameToValues.put(name, values);
            } else {
                repeated = true;
            }
            values.add(parameter.getValue());
        }
    }
    if (repeated) {
        Collection<OAuth.Parameter> rejected = new ArrayList<OAuth.Parameter>();
        for (Map.Entry<String, Collection<String>> p : nameToValues.entrySet()) {
            String name = p.getKey();
            Collection<String> values = p.getValue();
            if (values.size() > 1) {
                for (String value : values) {
                    rejected.add(new OAuth.Parameter(name, value));
                }
            }
        }
    }
OAuthProblemException problem = new OAuthProblemException(OAuth.Problems.PARAMETER_REJECTED);
    problem.setParameter(OAuth.Problems.OAUTH_PARAMETERS_REJECTED, OAuth.formEncode(rejected));
    throw problem;
}
}

protected void validateVersion(OAuthMessage message)
throws OAuthException, IOException {
    String versionString = message.getParameter(OAuth.OAUTH_VERSION);
    if (versionString != null) {
        double version = Double.parseDouble(versionString);
        if (version < minVersion || maxVersion < version) {
            OAuthProblemException problem = new OAuthProblemException(OAuth.Problems.VERSION_REJECTED);
            problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_VERSIONS, minVersion + "-" + maxVersion);
            throw problem;
        }
    }
}

/**
 * Throw an exception if the timestamp is out of range or the nonce has been
 * validated previously.
 */
protected void validateTimestampAndNonce(OAuthMessage message)
throws IOException, OAuthProblemException {
    message.requireParameters(OAuth.OAUTH_TIMESTAMP, OAuth.OAUTH_NONCE);
    long timestamp = Long.parseLong(message.getParameter(OAuth.OAUTH_TIMESTAMP));
    long now = currentTimeMsec();
    validateTimestamp(message, timestamp, now);
    validateNonce(message, timestamp, now);
}

/** Throw an exception if the timestamp [sec] is out of range. */
protected void validateTimestamp(OAuthMessage message, long timestamp, long currentTimeMsec)
throws IOException,
OAuthProblemException {
    OAuthProblemException problem = new OAuthProblemException(OAuth.Problems.TIMESTAMP_REFUSED);
    problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_TIMESTAMPS, minVersion + "-" + maxVersion);
    throw problem;
}
/**
 * Throw an exception if the nonce has been validated previously.
 *
 * @return the earliest point in time at which a call to releaseGarbage
 * will actually release some garbage, or null to indicate there's
 * nothing currently stored that will become garbage in future.
 */

protected Date validateNonce(OAuthMessage message, long timestamp, long currentTimeMsec) throws
    IOException, OAuthProblemException {
    UsedNonce nonce = new UsedNonce(timestamp,
        message.getParameter(OAuth.OAUTH_NONCE), message.getConsumerKey(), message.getToken());

    if (!valid) {
        throw new OAuthProblemException(OAuth.Problems.NONCE_USED);
    }

    return removeOldNonces(currentTimeMsec);
}

protected void validateSignature(OAuthMessage message, OAuthAccessor accessor)
    throws OAuthException, IOException, URISyntaxException {
        message.requireParameters(OAuth.OAUTH_CONSUMER_KEY,
                OAuth.OAUTH_SIGNATURE_METHOD, OAuth.OAUTH_SIGNATURE);
        OAuthSignatureMethod.newSigner(message, accessor).validate(message);
    }

/** Get the number of milliseconds since midnight, January 1, 1970 UTC. */
protected long currentTimeMsec() {
    return System.currentTimeMillis();
}

/**
 * Selected parameters from an OAuth request, in a form suitable for
 * detecting duplicate requests. The implementation is optimized for the
 * comparison operations (compareTo, equals and hashCode).
 *
 * @author John Kristian
private static class UsedNonce implements Comparable<UsedNonce> {
    /**
     * Construct an object containing the given timestamp, nonce and other
     * parameters. The order of parameters is significant.
     */
    UsedNonce(long timestamp, String... nonceEtc) {
        StringBuilder key = new StringBuilder(String.format("%20d", Long.valueOf(timestamp)));
        // The blank padding ensures that timestamps are compared as numbers.
        for (String etc : nonceEtc) {
            key.append("&").append(etc == null ? " " : OAuth.percentEncode(etc));
            // A null value is different from "" or any other String.
        }
        sortKey = key.toString();
    }

    private final String sortKey;

    long getTimestamp() {
        int end = sortKey.indexOf("&");
        if (end < 0)
            end = sortKey.length();
        return Long.parseLong(sortKey.substring(0, end).trim());
    }

    /**
     * Determine the relative order of <code>this</code> and
     * <code>that</code>, as specified by Comparable. The timestamp is most
     * significant; that is, if the timestamps are different, return 1 or
     * -1. If <code>this</code> contains only a timestamp (with no nonce
     * etc.), return -1 or 0. The treatment of the nonce etc. is murky,
     * although 0 is returned only if they're all equal.
     */
    public int compareTo(UsedNonce that) {
        return (that == null) ? 1 : sortKey.compareTo(that.sortKey);
    }

    @Override
    public int hashCode() {
        return sortKey.hashCode();
    }

    @Override
    public boolean equals(Object that) {
        return (that == null) ? 1 : sortKey.compareTo(that.sortKey);
    }

    /**
     * Return true iff <code>this</code> and <code>that</code> contain equal
     * timestamps, nonce etc., in the same order.
     */
    @Override
    public boolean equals(Object that) {
        return this == that;
    }
}
if (that == null)
    return false;
if (that == this)
    return true;
if (that.getClass() != getClass())
    return false;
return sortKey.equals(((UsedNonce) that).sortKey);
}

@Override
public String toString() {
    return sortKey;
}
}

10.253 openid4java 0.9.4

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10.254 openssl 1.0.1i

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10.255 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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10.257 org.restlet.example 2.0.9

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10.258 org.restlet.ext.atom 2.0.9

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10.259 org.restlet.ext.atom 2.1.0

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10.275 org.restlet.ext.jackson 2.1.0

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10.276 org.restlet.ext.javamail 2.0.9

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10.278 org.restlet.ext.jaxb 2.1.0
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10.287 org.restlet.ext.json 2.1.0

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10.288 org.restlet.ext.json 2.0.9

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10.289 org.restlet.ext.lucene 2.0.9

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10.296 org.restlet.ext.openid 2.1.0
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10.297 org.restlet.ext.rdf 2.0.9

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10.308 org.restlet.ext.spring 2.0.9

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10.311 org.restlet.ext.velocity 2.0.9

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10.314 org.restlet.ext.wadl 2.0.9
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10.315 org.restlet.ext.xdb 2.0.9

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10.316 org.restlet.ext.xml 2.1.0

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10.320 org.restlet.test 2.1.0

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
March 29, 2012
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THE BASIC LIBRARY FUNCTIONS

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Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by
persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

10. GENERAL PROVISIONS

10.1 No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld.

10.2 Termination

Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

10.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, and 10.8 of this Agreement.

10.4 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 9. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

10.5 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software.

10.6 Governing Law and Legal Venue

This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defense or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 9.6 is intended
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entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.

"Term" shall mean the period of time six (6) months from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Digia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

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authorizations, including without limitation, all necessary licenses,
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10.6 Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the
laws of Finland, excluding its choice of law provisions. Any disputes
arising out of or relating to this Agreement shall be resolved in
arbitration under the Rules of Arbitration of the Chamber of Commerce of
Helsinki, Finland. The arbitration tribunal shall consist of one (1), or
if either Party so requires, of three (3), arbitrators. The award shall
be final and binding and enforceable in any court of competent
jurisdiction. The arbitration shall be held in Helsinki, Finland and the
process shall be conducted in the English language.

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Version 2.1, February 1999

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Preamble

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
Library” means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
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
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.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
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.

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.

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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.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 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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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.

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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, the materials to be 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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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
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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 all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   a) The modified work must itself be a software library.

   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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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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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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 * From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
 * Date: Fri, Jun 24, 2011 at 3:20 AM
 * Subject: Re: sqrt routine
 * To: Kevin Ma <kma@google.com>
 * Hi Kevin,
 * Thanks for asking. Those routines are public domain (originally posted to
 * comp.sys.arm a long time ago), so you can use them freely for any purpose.
 * Cheers,
 * Wilco
 *
 * ----- Original Message -----*
 * From: "Kevin Ma" <kma@google.com>
 * To: <Wilco.Dijkstra@ntlworld.com>
 * Sent: Thursday, June 23, 2011 11:44 PM
 * Subject: Fwd: sqrt routine
 * Hi Wilco,
 * I saw your sqrt routine from several web sites, including
 * http://www.finesse.demon.co.uk/steven/sqrt.html.
 * Just wonder if there's any copyright information with your Successive
 * approximation routines, or if I can freely use it for any purpose.
 * Thanks.
 * Kevin
 */

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/
/*
 * SpanDSP - a series of DSP components for telephony
 *
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/*
$Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
*
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system_wrappers/source/set_thread_name_win.h

Source:

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## -*-makefile-*-
## 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
SHAREDLIBCAPPFLAGS = -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 library options
LD_SOOPTIONS = -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(_DEPEN).c $@ $(GEN_DEPS.c) $<" |
| sed "s/@([^/]*)\(.*\)@/\1.o $@ : /g" > $@; |
| -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(_DEPEN).cc $@ $(GEN_DEPS.cc) $<" |
| sed "s/@([^/]*)\(.*\)@/\1.o $@ : /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

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Unix SMB/CIFS implementation.
Samba temporary memory allocation functions

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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Dr. Memory: the memory debugger

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BSD Protection License
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* Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

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; abstraction between different calling conventions (x86_32, win64, linux64).
; It also has various other useful features to simplify writing the kind of
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- libpostproc
- libmpcodecs
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  libavcodec/x86/idct_mmx.c
- libutvideo encoding/decoding wrappers in
  libavcodec/libutvideo*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
  libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f_ebur128.c
  - vf_blackframe.c
  - vf_boxblur.c
  - vf_colormatrix.c
  - vf_cropdetect.c
  - vf_decimate.c
  - vf_delego.c
  - vf_geq.c
  - vf_histeq.c
  - vf_hqdn3d.c
  - vf_kerndeint.c
  - vf_medeint.c
  - vf_mp.c
  - vf_owdenoise.c
  - vf_perspective.c
  - vf_phase.c
  - vf_pp.c
  - vf_pullup.c
  - vf_sab.c
  - vf_smartblur.c
  - vf_spp.c
  - vf_stereo3d.c
  - vf_super2xsaic.c
  - vf_tinterlace.c
  - vsrsrc_mptestsrc.c

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**external libraries**

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**compatible libraries**

The following libraries are under GPL:
- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

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The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing --enable-version3 to configure.

**incompatible libraries**

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That's all there is to it!

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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# This file contains a list of people who've made non-trivial
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47251__nthompson__rocket.wav
3378__patchen__Rhino_03.wav
3258__Jovica__Dronetail_02.wav
30351__Matt_G__Space_Fighter_Pass.wav
32954__HardPCM__Chip054.wav
32985__HardPCM__Alarm001.wav
33245__ljudman__grenade.wav
78678__joe93barlow__swing0.wav
80401__steveygos93__Explosion2.wav
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3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
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5. Under what terms are derivative works allowed?

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2006-Jan-27

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10.335 resteasy-atom-provider 2.3.4 Final

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**10.342 resteasy-jackson-provider 2.3.6.Final**

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(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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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.

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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.

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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, the materials to be 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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*******************************************************************************
package org.sonatype.guice.bean.locators;

import org.sonatype.guice.bean.reflect.DeferredProvider;
import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * {@link BindingTargetVisitor} that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor extends DefaultBindingTargetVisitor<Object, Class<?>> {
  
  // Constants
  // ----------------------------------------------------------------------
  static final ImplementationVisitor THIS = new ImplementationVisitor();

  // Public methods
  // ----------------------------------------------------------------------

  @Override
  public Class<?> visit(final UntargettedBinding<?> binding) {
    return binding.getKey().getTypeLiteral().getRawType();
  }
}
@Override
class<?> visit(final LinkedKeyBinding<?> binding)
{
  // this assumes only one level of indirection: api-->impl
  return binding.getLinkedKey().getTypeLiteral().getRawType();
}

@Override
class<?> visit(final ConstructorBinding<?> binding)
{
  return binding.getConstructor().getDeclaringType().getRawType();
}

@Override
class<?> visit(final InstanceBinding<?> binding)
{
  return binding.getInstance().getClass();
}

@Override
class<?> visit(final ProviderInstanceBinding<?> binding)
{
  final Provider<?> provider = binding.getProviderInstance();
  if (provider instanceof DeferredProvider<?>)
  {
    try
    {
      // deferred providers let us peek at the underlying implementation type
      return ((DeferredProvider<?>)provider).getImplementationClass().load();
    }
    catch (final TypeNotPresentException e) // NOPMD
    {
      // fall-through
    }
  }
  return null;
}

@Override
class<?> visit(final ExposedBinding<?> binding)
{
  return binding.getPrivateElements().getInjector().getBinding(binding.getKey()).acceptTargetVisitor(this);
}
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.inject.Qualifier;

/**
 * @Qualifier
 * @Retention( RetentionPolicy.RUNTIME )
 * @Target( value = {} )
 * public @interface Implicit
 * {
 * }
 */

import java.lang.annotation.Annotation;
import org.sonatype.guice.bean.reflect.Logs;
import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

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*******************************************************************************
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.inject.Qualifier;

/**
 * { @link Qualifier } used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = {} )
public @interface Implicit
{
}

/*******************************************************************************/
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;
import org.sonatype.guice.bean.reflect.Logs;
import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

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*******************************************************************************/
/**
 * Source of “implicit” bindings; includes @{@link ImplementedBy}, @{@link ProvidedBy}, and concrete types.
 */
final class ImplicitBindings
{
    // ----------------------------------------------------------------------
    // Implementation fields
    // ----------------------------------------------------------------------
    private final Iterable<Injector> injectors;

    // ----------------------------------------------------------------------
    // Constructors
    // ----------------------------------------------------------------------

    ImplicitBindings( final BeanLocator locator )
    {
        injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
    }

    // ----------------------------------------------------------------------
    // Public methods
    // ----------------------------------------------------------------------

    @SuppressWarnings( { "unchecked", "rawtypes" } )
    public <T> Binding<T> get( final TypeLiteral<T> type )
    {
        final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
        for ( final Injector i : injectors )
        {
            try
            {
                // first round: check for any re-written implicit bindings
                final Binding binding = i.getBindings().get( implicitKey );
                if ( null != binding )
                {
                    Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                    return binding;
                }
            }
            catch ( final Throwable e )
            {
                continue; // no luck, move onto next injector
            }
        }

        final Key justInTimeKey = Key.get( type );
        for ( final Injector i : injectors )
        {
            try
            {
                // first round: check for any re-written implicit bindings
                final Binding binding = i.getBindings().get( implicitKey );
                if ( null != binding )
                {
                    Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                    return binding;
                }
            }
            catch ( final Throwable e )
            {
                continue; // no luck, move onto next injector
            }
        }
    }
}
try {
    // second round: fall back to just-in-time lookup
    final Binding binding = i.getBinding( justInTimeKey );
    if ( InjectorPublisher.isVisible( binding ) ) {
        Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
        return binding;
    }
} catch ( final Throwable e ) {
    continue; // no luck, move onto next injector
}
return null;

10.369 sjsxp 1.0.1
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   * $Id: license.txt,v 1.2 2006/04/01 06:01:50 jeffsutter Exp $
   * %W% %E%
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contrib/clustering

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Linda Shonk (lshonk)

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Sent: Friday, August 06, 2010 7:14 AM
To: Yathiraj Udupi (yudupi); Linda Shonk (lshonk)
Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

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To: Yathiraj Udupi (yudupi)
Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.

Linda

From: SpringSource Support [mailto:support@springsource.com]
Sent: Thursday, August 05, 2010 8:03 AM
To: Yathiraj Udupi (yudupi)
Cc: Linda Shonk (Ishonk); Andrew Ballantyne (aballant)
Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

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Reference # 9815

Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

----------------------------------------------------------------------------------------------------------------------------------
Yathiraj Udupi on 2010-08-05 15:03:27:
Thanks Lou-ann for your response.

Hi Yathiraj,
Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses
on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get
the license for Spring 3.0.x
Let me know if you have further questions.
Regards,
Lou-ann

on 2010-08-05 05:36:54:
Hi Yathiraj,

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http://www.apache.org/licenses/
Let me know if you have further questions.
Regards,
Lou-ann

on 2010-08-04 12:00:17:
Hi Yathiraj,

I will look into this and will get back to you.
Regards,
Lou-ann

Yathiraj Udupi on 2010-08-03 21:19:19:
Hi,

We need to update the license information in our company License portal, for the Spring bundles that are
shipped in Springsource dm Server 2.0, in the repository/ext folder.
This is required URGENTLY, so that we can ship our release.
When we look for the license file link from the Springsource enterprise repository, we get an error.
For example,
In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

```xml
<Error>
  <Code>NoSuchKey</Code>
  <Message>The specified key does not exist.</Message>
  
  <Key>ivy/bundles/release/org.springframework/org.springframework.asm/3.0.0.RELEASE/license-3.0.0.RELEASE.txt</Key>
  <RequestId>C36AA496B452C999</RequestId>
  
  <HostId>fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EucZ5p1ySr5w6Gcp0FgutiZxERJSp</HostId>
</Error>
```

Can you please provide the license files for all of the Springframework modules in the repository/ext?

Thanks,
Yathi.

Incident update link:
login to http://support.springsource.com/spring_account and update your incident at http://support.springsource.com/spring_support_client_getIncidentById/9815

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10.384 spring-asm 3.0.3.RELEASE

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package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;
import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;
import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPrecedenceInformation;

10.402 spring-expression 3.0.0.RELEASE

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 */
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

/**
 * Internal implementation of AspectJPointcutAdvisor.
 * Note that there will be one instance of this advisor for each target method.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 */
class InstantiationModelAwarePointcutAdvisorImpl
implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

    private final AspectJExpressionPointcut declaredPointcut;
    private Pointcut pointcut;
    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;
    private final Method method;
    private final boolean lazy;
    private final AspectJAdvisorFactory atAspectJAdvisorFactory;
    private Advice instantiatedAdvice;
    private int declarationOrder;
    private String aspectName;
    private Boolean isBeforeAdvice = null;
    private Boolean isAfterAdvice = null;

    public InstantiationModelAwarePointcutAdvisorImpl(
            AspectJAdvisorFactory af,
            AspectJExpressionPointcut ajexp,
            MetadataAwareAspectInstanceFactory aif,
            Method method,
            int declarationOrderInAspect,
            String aspectName) {
            this.declaredPointcut = ajexp;
            this.method = method;
            this.atAspectJAdvisorFactory = af;
    }
}
this.aspectInstanceFactory = aif;
this.declarationOrder = declarationOrderInAspect;
this.aspectName = aspectName;

if (aif.getAspectMetadata().isLazilyInstantiated()) {
    // Static part of the pointcut is a lazy type.
    Pointcut preInstantiationPointcut =
    Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);

    // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
    // If it's not a dynamic pointcut, it may be optimized out
    // by the Spring AOP infrastructure after the first evaluation.
    this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
    this.lazy = true;
} else {
    // A singleton aspect.
    this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    this.pointcut = declaredPointcut;
    this.lazy = false;
}

/**
 * The pointcut for Spring AOP to use. Actual behaviour of the pointcut will change
 * depending on the state of the advice.
 */
public Pointcut getPointcut() {
    return this.pointcut;
}

/**
 * This is only of interest for Spring AOP: AspectJ instantiation semantics
 * are much richer. In AspectJ terminology, all a return of <code>true</code>
 * means here is that the aspect is not a SINGLETON.
 */
public boolean isPerInstance() {
    return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

/**
 * Return the AspectJ AspectMetadata for this advisor.
 */
public AspectMetadata getAspectMetadata() {
    return this.aspectInstanceFactory.getAspectMetadata();
}
/**
 * Lazily instantiate advice if necessary.
 */

public synchronized Advice getAdvice() {
    if (this.instantiatedAdvice == null) {
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    }
    return this.instantiatedAdvice;
}

public boolean isLazy() {
    return this.lazy;
}

public synchronized boolean isAdviceInstantiated() {
    return (this.instantiatedAdvice != null);
}

private Advice instantiateAdvice(AspectJExpressionPointcut pcut) {
    return this.atAspectJAdvisorFactory.getAdvice(
        this.method, pcut, this.aspectInstanceFactory, this.declarationOrder, this.aspectName);
}

public MetadataAwareAspectInstanceFactory getAspectInstanceFactory() {
    return this.aspectInstanceFactory;
}

public AspectJExpressionPointcut getDeclaredPointcut() {
    return this.declaredPointcut;
}

public int getOrder() {
    return this.aspectInstanceFactory.getOrder();
}

public String getAspectName() {
    return this.aspectName;
}

public int getDeclarationOrder() {
    return this.declarationOrder;
}

public boolean isBeforeAdvice() {
    if (this.isBeforeAdvice == null) {
        determineAdviceType();
    }
}
return this.isBeforeAdvice;
}

public boolean isAfterAdvice() {
if (this.isAfterAdvice == null) {
determineAdviceType();
}
return this.isAfterAdvice;
}

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
AspectJAnnotation<? extends Annotation> aspectJAnnotation =
AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
if (aspectJAnnotation == null) {
this.isBeforeAdvice = false;
this.isAfterAdvice = false;
}
else {
switch (aspectJAnnotation.getAnnotationType()) {
case AtAfter:
case AtAfterReturning:
case AtAfterThrowing:
this.isAfterAdvice = true;
this.isBeforeAdvice = false;
break;
case AtAround:
case AtPointcut:
this.isAfterAdvice = false;
this.isBeforeAdvice = false;
break;
case AtBefore:
this.isAfterAdvice = false;
this.isBeforeAdvice = true;
}
}
@

@Override
public String toString() {
return "InstantiationModelAwarePointcutAdvisor: expression "+
getDeclaredPointcut().getExpression() +
"]; advice method [" + this.method + "]]; perClauseKind=" +
this.aspectInstanceFactory.getAspectMetadata().getAjType().getPerClause().getKind();
private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

private final AspectJExpressionPointcut declaredPointcut;

private final Pointcut preInstantiationPointcut;

private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

private PerTargetInstantiationModelPointcut(AspectJExpressionPointcut declaredPointcut,
Pointcut preInstantiationPointcut, MetadataAwareAspectInstanceFactory aspectInstanceFactory) {
this.declaredPointcut = declaredPointcut;
this.preInstantiationPointcut = preInstantiationPointcut;
if (aspectInstanceFactory instanceof LazySingletonAspectInstanceFactoryDecorator) {
this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
}
}

@Override
public boolean matches(Method method, Class targetClass) {
// We're either instantiated and matching on declared pointcut, or uninstantiated matching on either pointcut
return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass)) ||
this.preInstantiationPointcut.getMethodMatcher().matches(method, targetClass);
}

public boolean matches(Method method, Class targetClass, Object[] args) {
// This can match only on declared pointcut.
return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass));
}

private boolean isAspectMaterialized() {
return (this.aspectInstanceFactory == null || this.aspectInstanceFactory.isMaterialized());
}

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*/

package org.springframework.aop.aspectj.annotation;

import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.Order;

/**
 * Implementation of {@link MetadataAwareAspectInstanceFactory} that
 * creates a new instance of the specified aspect class for every
 * {@link #getAspectInstance()} call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {

  private final AspectMetadata metadata;

  /**
   * Create a new SimpleMetadataAwareAspectInstanceFactory for the given aspect class.
   * @param aspectClass the aspect class
   * @param aspectName the aspect name
   */
  public SimpleMetadataAwareAspectInstanceFactory(Class aspectClass, String aspectName) {
    super(aspectClass);
    this.metadata = new AspectMetadata(aspectClass, aspectName);
  }

  public final AspectMetadata getAspectMetadata() {
    return this.metadata;
  }

  /**
   * Determine a fallback order for the case that the aspect instance
   */

* does not express an instance-specific order through implementing
* the [@link org.springframework.core.Ordered] interface.
* <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
* @param aspectClass the aspect class
*/
@Override
protected int getOrderForAspectClass(Class<?> aspectClass) {
Order order = aspectClass.getAnnotation(Order.class);
if (order != null) {
    return order.value();
}
return Ordered.LOWEST_PRECEDENCE;
}
*/

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 */

package org.springframework.aop.aspectj;

import org.springframework.aop.framework.AopConfigException;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;

/**
 * Implementation of [@link AspectInstanceFactory] that creates a new instance
 * of the specified aspect class for every [@link #getAspectInstance()] call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */

public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

private final Class aspectClass;

/**
 * Create a new SimpleAspectInstanceFactory for the given aspect class.
 * @param aspectClass the aspect class
 */
public SimpleAspectInstanceFactory(Class aspectClass) {
    Assert.notNull(aspectClass, "Aspect class must not be null");
    this.aspectClass = aspectClass;
}

/**
 * Return the specified aspect class (never <code>null</code>.
 */
public final Class getAspectClass() {
    return this.aspectClass;
}

public final Object getAspectInstance() {
    try {
        return this.aspectClass.newInstance();
    }
    catch (InstantiationException ex) {
        throw new AopConfigException("Unable to instantiate aspect class ", this.aspectClass.getName() + "]", ex);
    }
    catch (IllegalAccessException ex) {
        throw new AopConfigException("Cannot access element class ", this.aspectClass.getName() + "]", ex);
    }
}

public ClassLoader getAspectClassLoader() {
    return this.aspectClass.getClassLoader();
}

/**
 * Determine the order for this factory's aspect instance,
 * either an instance-specific order expressed through implementing
 * the {@link org.springframework.core.Ordered} interface,
 * or a fallback order.
 * @see org.springframework.core.Ordered
 * @see #getOrderForAspectClass
 */
public int getOrder() {
    return getOrderForAspectClass(this.aspectClass);
}

/**
 * Determine a fallback order for the case that the aspect instance
* does not express an instance-specific order through implementing
* the {@link org.springframework.core.Ordered} interface.
* <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
* @param aspectClass the aspect class
*/
protected int getOrderForAspectClass(Class<? extends Object> aspectClass) {
return Ordered.LOWEST_PRECEDENCE;
}

package org.springframework.aop.config;

import org.springframework.aop.aspectj.AspectInstanceFactory;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.core.Ordered;
import org.springframework.util.ClassUtils;
import org.springframework.util.StringUtils;

/**
 * Implementation of {@link AspectInstanceFactory} that locates the aspect from the
 * {@link org.springframework.beans.factory.BeanFactory} using a configured bean name.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
BeanFactoryAware {

private String aspectBeanName;
private BeanFactory beanFactory;

/**
* Set the name of the aspect bean. This is the bean that is returned when calling
* {@link #getAspectInstance()}.
*/
public void setAspectBeanName(String aspectBeanName) {
this.aspectBeanName = aspectBeanName;
}
public void setBeanFactory(BeanFactory beanFactory) {
this.beanFactory = beanFactory;
if (!StringUtils.hasText(this.aspectBeanName)) {
throw new IllegalArgumentException("'aspectBeanName' is required");
}
}

/**
* Look up the aspect bean from the {@link BeanFactory} and returns it.
* @see #setAspectBeanName
*/
public Object getAspectInstance() {
return this.beanFactory.getBean(this.aspectBeanName);
}
public ClassLoader getAspectClassLoader() {
if (this.beanFactory instanceof ConfigurableBeanFactory) {
return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
}
else {
return ClassUtils.getDefaultClassLoader();
}
}
public int getOrder() {
if (this.beanFactory.isSingleton(this.aspectBeanName) &&
this.beanFactory.isTypeMatch(this.aspectBeanName, Ordered.class)) {
return ((Ordered) this.beanFactory.getBean(this.aspectBeanName)).getOrder();
}
return Ordered.LOWEST_PRECEDENCE;
}
}
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package org.springframework.aop.interceptor;

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;

/**<p>Simple AOP Alliance &lt;code&gt;MethodInterceptor&lt;/code&gt; that can be introduced
 * in a chain to display verbose trace information about intercepted method
 * invocations, with method entry and method exit info.
 * <p>Consider using &lt;code&gt;CustomizableTraceInterceptor&lt;/code&gt; for more
 * advanced needs.</p><p>@author Dmitriy Kopylenko
 @author Juergen Hoeller</p><p>@since 1.2</p><p>@see CustomizableTraceInterceptor</p>*/
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

/**
 * Create a new SimpleTraceInterceptor with a static logger.
 */
public SimpleTraceInterceptor() {
}

/**
 * Create a new SimpleTraceInterceptor with dynamic or static logger,
 * according to the given flag.
 * @param useDynamicLogger whether to use a dynamic logger or a static logger
 * @see #setUseDynamicLogger
 */
public SimpleTraceInterceptor(boolean useDynamicLogger) {
    setUseDynamicLogger(useDynamicLogger);
}
```java
@Override
protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
String invocationDescription = getInvocationDescription(invocation);
logger.trace("Entering " + invocationDescription);
try {
    Object rval = invocation.proceed();
    logger.trace("Exiting " + invocationDescription);
    return rval;
} catch (Throwable ex) {
    logger.trace("Exception thrown in " + invocationDescription, ex);
    throw ex;
}

/**
 * Return a description for the given method invocation.
 * @param invocation the invocation to describe
 * @return the description
 */
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method '" + invocation.getMethod().getName() + "' of class [" + invocation.getThis().getClass().getName() + "]";
}

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 */
package org.springframework.aop.target;

/**
*/
Simple \{\texttt{org.springframework.aop.TargetSource}\} implementation, freshly obtaining the specified target bean from its containing Spring \{\texttt{org.springframework.beans.factory.BeanFactory}\}.

Can obtain any kind of target bean: singleton, scoped, or prototype. Typically used for scoped beans.

@ author Juergen Hoeller
@ since 2.0.3

*/

public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

public Object getTarget() throws Exception {
    return getBeanFactory().getBean(getTargetBeanName());
}
}

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10.421 stdint_msvc 1.0 :2006

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