



Open Source Used In Edge and Fog Processing Module 1.7.4

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- 1.686 artemis-stomp-protocol 2.6.3.jbossorg-001**
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 - 1.702.1 Available under license
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1.735 cxf-rt-transport-local 3.2.5-jbossorg-1
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1.737 ansi-regex 2.1.1

1.737.1 Available under license
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1.738.1 Available under license
1.739 json-net 11.0.2
1.739.1 Available under license
1.740 wildfly-jsr77 14.0.1.Final
1.741 http-dart 0.11.3+9
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1.742.1 Available under license
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1.744.1 Available under license
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1.746.1 Available under license
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1.748.1 Available under license
1.749 netty-transport 4.1.19.Final
1.750 maven-builder-support 3.3.9
1.750.1 Available under license
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1.751.1 Available under license
1.752 ironjacamar-core-api 1.4.11.Final
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1.754 debug 2.6.9
1.754.1 Available under license
1.755 old-jaxb-xjc 2.2.11
1.755.1 Available under license
1.756 aether-connector-basic 1.1.0
1.757 aether-spi 1.1.0
1.758 artemis-amqp-protocol 2.6.3.jbossorg-001
1.758.1 Available under license
1.759 charted-dart 0.4.8
1.759.1 Available under license
1.760 wildfly-jaxrs 14.0.1.Final

- 1.761 maven-core 3.3.9**
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 - 1.764.1 Available under license
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- 1.767 eclipse-jgit 5.0.2.201807311906-r**
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 - 1.769.1 Available under license
- 1.770 javax-annotation-api 1.2**
 - 1.770.1 Available under license
- 1.771 apache-commons-beanutils 1.9.2**
 - 1.771.1 Available under license
- 1.772 opensaml-xacml-saml-api 3.3.0**
- 1.773 lucene-queryparser 5.5.2**
 - 1.773.1 Available under license
- 1.774 commons-lang3 3.8**
 - 1.774.1 Available under license
- 1.775 xml-commons-resolver-component 1.2**
 - 1.775.1 Available under license
- 1.776 stich-dart 0.2.0+4**
 - 1.776.1 Available under license
- 1.777 wildfly-clustering-ee-infinispan 14.0.1.Final**
- 1.778 netty-resolver 4.1.22.Final**
- 1.779 undertow-server 1.2.3.Final**
- 1.780 cxf-tools-java2ws 3.2.5-jbossorg-1**
 - 1.780.1 Available under license
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- 1.799 spring-expression 4.3.7.RELEASE**
 - 1.799.1 Available under license
- 1.800 hornetq-core-client 2.4.7.Final**
- 1.801 javax-mail-api 1.5.6**
 - 1.801.1 Available under license
- 1.802 cxf-tools-wsdlto-frontend-jaxws 3.2.5-jbossorg-1**
 - 1.802.1 Available under license
- 1.803 jopt-simple 5.0.3**
 - 1.803.1 Available under license
- 1.804 math-expressions 0.2.0+1**
 - 1.804.1 Available under license
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1.814 istack-commons-runtime 3.0.5

1.815 keycloak-model-infinispan 4.8.3.Final

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1.817 infinispan-client-hotrod 9.3.1.Final

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 - 1.844.1 Available under license
- 1.845 wildfly-clustering-spi 14.0.1.Final**
- 1.846 mime-streaming-extension 1.7**
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1.870 wildfly-domain-management 6.0.2.Final
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1.2 jboss-ejb-api 1.0.2.Final

1.3 keycloak-services 4.8.3.Final

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```
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
package org.keycloak.authorization.protection.permission;

import org.keycloak.OAuthErrorException;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.PermissionTicket;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.store.PermissionTicketStore;
import org.keycloak.authorization.store.StoreFactory;
import org.keycloak.models.Constants;
import org.keycloak.models.RealmModel;
import org.keycloak.models.UserProvider;
import org.keycloak.models.utils.ModelToRepresentation;
import org.keycloak.models.utils.RepresentationToModel;
import org.keycloak.representations.idm.authorization.PermissionTicketRepresentation;
import org.keycloak.services.ErrorResponseException;
```

```

import javax.ws.rs.Consumes;
import javax.ws.rs.DELETE;
import javax.ws.rs.GET;
import javax.ws.rs.POST;
import javax.ws.rs.PUT;
import javax.ws.rs.Produces;
import javax.ws.rs.QueryParam;
import javax.ws.rs.core.Response;
import java.util.HashMap;
import java.util.Map;
import java.util.stream.Collectors;
import javax.ws.rs.Path;
import javax.ws.rs.PathParam;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.store.ResourceStore;
import org.keycloak.authorization.store.ScopeStore;
import org.keycloak.models.UserModel;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class PermissionTicketService {

    private final AuthorizationProvider authorization;
    private final KeycloakIdentity identity;
    private final ResourceServer resourceServer;

    public PermissionTicketService(KeycloakIdentity identity, ResourceServer resourceServer, AuthorizationProvider
authorization) {
        this.identity = identity;
        this.resourceServer = resourceServer;
        this.authorization = authorization;
    }

    @POST
    @Consumes("application/json")
    @Produces("application/json")
    public Response create(PermissionTicketRepresentation representation) {
        PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
        if (representation == null)
            throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_permission",
Response.Status.BAD_REQUEST);
        if (representation.getId() != null)
            throw new ErrorResponseException("invalid_permission", "created permissions should not have id",
Response.Status.BAD_REQUEST);
        if (representation.getResource() == null)

```

```

        throw new ErrorResponseException("invalid_permission", "created permissions should have resource",
Response.Status.BAD_REQUEST);
        if (representation.getScope() == null && representation.getScopeName() == null)
            throw new ErrorResponseException("invalid_permission", "created permissions should have scope or
scopeName", Response.Status.BAD_REQUEST);
        if (representation.getRequester() == null && representation.getRequesterName() == null)
            throw new ErrorResponseException("invalid_permission", "created permissions should have requester or
requesterName", Response.Status.BAD_REQUEST);

        ResourceStore rstore = this.authorization.getStoreFactory().getResourceStore();
        Resource resource = rstore.findById(representation.getResource(), resourceServer.getId());
        if (resource == null ) throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" +
representation.getResource() + "] does not exists in this server.", Response.Status.BAD_REQUEST);

        if (!resource.getOwner().equals(this.identity.getId()))
            throw new ErrorResponseException("not_authorized", "permissions for [" + representation.getResource() +
"] can be only created by the owner", Response.Status.FORBIDDEN);

        UserModel user = null;
        if(representation.getRequester() != null)
            user =
this.authorization.getKeycloakSession().userStorageManager().getUserById(representation.getRequester(),
this.authorization.getRealm());
        else
            user =
this.authorization.getKeycloakSession().userStorageManager().getUserByUsername(representation.getRequesterName(), this.authorization.getRealm());

        if (user == null)
            throw new ErrorResponseException("invalid_permission", "Requester does not exists in this server as user.",
Response.Status.BAD_REQUEST);

        Scope scope = null;
        ScopeStore sstore = this.authorization.getStoreFactory().getScopeStore();

        if(representation.getScopeName() != null)
            scope = sstore.findByName(representation.getScopeName(), resourceServer.getId());
        else
            scope = sstore.findById(representation.getScope(), resourceServer.getId());

        if (scope == null && representation.getScope() !=null )
            throw new ErrorResponseException("invalid_scope", "Scope [" + representation.getScope() + "] is invalid",
Response.Status.BAD_REQUEST);
        if (scope == null && representation.getScopeName() !=null )
            throw new ErrorResponseException("invalid_scope", "Scope [" + representation.getScopeName() + "] is
invalid", Response.Status.BAD_REQUEST);

        boolean match = resource.getScopes().contains(scope);

```



```

    if (!match)
        throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" +
representation.getResource() + "] does not have Scope [" + scope.getName() + "]",
Response.Status.BAD_REQUEST);

    Map<String, String> attributes = new HashMap<String, String>();
    attributes.put(PermissionTicket.RESOURCE, resource.getId());
    attributes.put(PermissionTicket.SCOPE, scope.getId());
    attributes.put(PermissionTicket.REQUESTER, user.getId());

    if (!ticketStore.find(attributes, resourceServer.getId(), -1, -1).isEmpty())
        throw new ErrorResponseException("invalid_permission", "Permission already exists",
Response.Status.BAD_REQUEST);

    PermissionTicket ticket = ticketStore.create(resource.getId(), scope.getId(), user.getId(), resourceServer);
    if(representation.isGranted())
        ticket.setGrantedTimestamp(java.lang.System.currentTimeMillis());
    representation = ModelToRepresentation.toRepresentation(ticket, authorization);
    return Response.ok(representation).build();
}

@PUT
@Consumes("application/json")
public Response update(PermissionTicketRepresentation representation) {
    if (representation == null || representation.getId() == null) {
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
    PermissionTicket ticket = ticketStore.findById(representation.getId(), resourceServer.getId());

    if (ticket == null) {
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    if (!ticket.getOwner().equals(this.identity.getId()) && !this.identity.isResourceServer())
        throw new ErrorResponseException("not_authorized", "permissions for [" + representation.getResource() +
"] can be updated only by the owner or by the resource server", Response.Status.FORBIDDEN);

    RepresentationToModel.toModel(representation, resourceServer.getId(), authorization);

    return Response.noContent().build();
}

```

```

@Path("/{id}")
@DELETE
@Consumes("application/json")
public Response delete(@PathParam("id") String id) {
    if (id == null) {
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
    PermissionTicket ticket = ticketStore.findById(id, resourceServer.getId());

    if (ticket == null) {
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    if (!ticket.getOwner().equals(this.identity.getId()) && !this.identity.isResourceServer() &&
!ticket.getRequester().equals(this.identity.getId()))
        throw new ErrorResponseException("not_authorized", "permissions for [" + ticket.getResource() + "] can be
deleted only by the owner, the requester, or the resource server", Response.Status.FORBIDDEN);

    ticketStore.delete(id);

    return Response.noContent().build();
}

@GET
@Produces("application/json")
public Response find(@QueryParam("scopeId") String scopeId,
    @QueryParam("resourceId") String resourceId,
    @QueryParam("owner") String owner,
    @QueryParam("requester") String requester,
    @QueryParam("granted") Boolean granted,
    @QueryParam("returnNames") Boolean returnNames,
    @QueryParam("first") Integer firstResult,
    @QueryParam("max") Integer maxResult) {
    StoreFactory storeFactory = authorization.getStoreFactory();
    PermissionTicketStore permissionTicketStore = storeFactory.getPermissionTicketStore();

    Map<String, String> filters = new HashMap<>();

    if (resourceId != null) {
        filters.put(PermissionTicket.RESOURCE, resourceId);
    }

    if (scopeId != null) {
        ScopeStore scopeStore = storeFactory.getScopeStore();

```

```

Scope scope = scopeStore.findById(scopeId, resourceServer.getId());

if (scope == null) {
    scope = scopeStore.findByName(scopeId, resourceServer.getId());
}

filters.put(PermissionTicket.SCOPE, scope != null ? scope.getId() : scopeId);
}

if (owner != null) {
    filters.put(PermissionTicket.OWNER, getUserId(owner));
}

if (requester != null) {
    filters.put(PermissionTicket.REQUESTER, getUserId(requester));
}

if (granted != null) {
    filters.put(PermissionTicket.GRANTED, granted.toString());
}

return Response.ok().entity(permissionTicketStore.find(filters, resourceServer.getId(), firstResult != null ?
firstResult : -1, maxResult != null ? maxResult : Constants.DEFAULT_MAX_RESULTS)
    .stream()
    .map(permissionTicket -> ModelToRepresentation.toRepresentation(permissionTicket, authorization,
returnNames == null ? false : returnNames))
    .collect(Collectors.toList()))
    .build();
}

private String getUserId(String userIdOrName) {
    UserProvider userProvider = authorization.getKeycloakSession().users();
    RealmModel realm = authorization.getRealm();
    UserModel userModel = userProvider.getUserById(userIdOrName, realm);

    if (userModel != null) {
        return userModel.getId();
    }

    userModel = userProvider.getUserByUsername(userIdOrName, realm);

    if (userModel != null) {
        return userModel.getId();
    }

    return userIdOrName;
}
}

```

```

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 */
package org.keycloak.authorization.protection.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.representations.idm.authorization.PermissionRequest;

import javax.ws.rs.Consumes;
import javax.ws.rs.POST;
import javax.ws.rs.Produces;
import javax.ws.rs.core.Response;
import java.util.List;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class PermissionService extends AbstractPermissionService {

    private final AuthorizationProvider authorization;
    private final ResourceServer resourceServer;

    public PermissionService(KeycloakIdentity identity, ResourceServer resourceServer, AuthorizationProvider
authorization) {
        super(identity, resourceServer, authorization);
        this.resourceServer = resourceServer;
        this.authorization = authorization;
    }

    @POST
    @Consumes("application/json")
    @Produces("application/json")

```

```

public Response create(List<PermissionRequest> request) {
    return super.create(request);
}

}

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package org.keycloak.authorization.protection.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.store.ResourceStore;
import org.keycloak.models.ClientModel;
import org.keycloak.models.TokenManager;
import org.keycloak.representations.idm.authorization.Permission;
import org.keycloak.representations.idm.authorization.PermissionRequest;
import org.keycloak.representations.idm.authorization.PermissionResponse;
import org.keycloak.representations.idm.authorization.PermissionTicketToken;
import org.keycloak.services.ErrorResponseException;
import org.keycloak.services.URLs;

import javax.ws.rs.core.Response;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

/**

```

```

* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class AbstractPermissionService {

    private final AuthorizationProvider authorization;
    private final KeycloakIdentity identity;
    private final ResourceServer resourceServer;

    public AbstractPermissionService(KeycloakIdentity identity, ResourceServer resourceServer,
AuthorizationProvider authorization) {
        this.identity = identity;
        this.resourceServer = resourceServer;
        this.authorization = authorization;
    }

    public Response create(List<PermissionRequest> request) {
        if (request == null || request.isEmpty()) {
            throw new ErrorResponseException("invalid_permission_request", "Invalid permission request.",
Response.Status.BAD_REQUEST);
        }

        return Response.status(Response.Status.CREATED).entity(new
PermissionResponse(createPermissionTicket(request))).build();
    }

    private List<Permission> verifyRequestedResource(List<PermissionRequest> request) {
        ResourceStore resourceStore = authorization.getStoreFactory().getResourceStore();
        List<Permission> requestedResources = new ArrayList<>();

        for (PermissionRequest permissionRequest : request) {
            String resourceSetId = permissionRequest.getResourceId();
            List<Resource> resources = new ArrayList<>();

            if (resourceSetId == null) {
                if (permissionRequest.getScopes() == null || permissionRequest.getScopes().isEmpty()) {
                    throw new ErrorResponseException("invalid_resource_id", "Resource id or name not provided.",
Response.Status.BAD_REQUEST);
                }
            } else {
                Resource resource = resourceStore.findById(resourceSetId, resourceServer.getId());

                if (resource != null) {
                    resources.add(resource);
                } else {
                    Resource userResource = resourceStore.findByName(resourceSetId, identity.getId(),
this.resourceServer.getId());

                    if (userResource != null) {

```

```

        resources.add(userResource);
    }

    if (!identity.isResourceServer()) {
        Resource serverResource = resourceStore.findByName(resourceSetId, this.resourceServer.getId());

        if (serverResource != null) {
            resources.add(serverResource);
        }
    }
}

if (resources.isEmpty()) {
    throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" + resourceSetId + "]
does not exists in this server.", Response.Status.BAD_REQUEST);
}

if (resources.isEmpty()) {
    requestedResources.add(new Permission(null, verifyRequestedScopes(permissionRequest, null)));
} else {
    for (Resource resource : resources) {
        requestedResources.add(new Permission(resource.getId(), verifyRequestedScopes(permissionRequest,
resource)));
    }
}

return requestedResources;
}

private Set<String> verifyRequestedScopes(PermissionRequest request, Resource resource) {
    Set<String> requestScopes = request.getScopes();

    if (requestScopes == null) {
        return Collections.emptySet();
    }

    ResourceStore resourceStore = authorization.getStoreFactory().getResourceStore();

    return requestScopes.stream().map(scopeName -> {
        Scope scope = null;

        if (resource != null) {
            scope = resource.getScopes().stream().filter(scope1 ->
scope1.getName().equals(scopeName)).findFirst().orElse(null);

            if (scope == null && resource.getType() != null) {

```

```

        scope = resourceStore.findByType(resource.getType(), resourceServer.getId()).stream()
            .filter(baseResource -> baseResource.getOwner().equals(resource.getResourceServer().getId()))
            .flatMap(resource1 -> resource1.getScopes().stream())
            .filter(baseScope -> baseScope.getName().equals(scopeName)).findFirst().orElse(null);
    }
} else {
    scope = authorization.getStoreFactory().getScopeStore().findByName(scopeName,
resourceServer.getId());
}

if (scope == null) {
    throw new ErrorResponseException("invalid_scope", "Scope [" + scopeName + "] is invalid",
Response.Status.BAD_REQUEST);
}

return scope.getName();
}).collect(Collectors.toSet());
}

private String createPermissionTicket(List<PermissionRequest> request) {
    List<Permission> permissions = verifyRequestedResource(request);

    String audience = Urls.realmIssuer(this.authorization.getKeycloakSession().getContext().getUri().getBaseUri(),
this.authorization.getRealm().getName());
    PermissionTicketToken token = new PermissionTicketToken(permissions, audience,
this.identity.getAccessToken());
    Map<String, List<String>> claims = new HashMap<>();

    for (PermissionRequest permissionRequest : request) {
        Map<String, List<String>> requestClaims = permissionRequest.getClaims();

        if (requestClaims != null) {
            claims.putAll(requestClaims);
        }
    }

    if (!claims.isEmpty()) {
        token.setClaims(claims);
    }

    return this.authorization.getKeycloakSession().tokens().encode(token);
}
}

```

1.4 opentracing-tracerresolver 0.1.5

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* /opt/ws_local/PERMITS_SQL/1085028453_1598867754.54/opentracing-tracerresolver-0-1-5-sources-1-jar/META-INF/maven/io.opentracing.contrib/opentracing-tracerresolver/pom.xml

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* /opt/ws_local/PERMITS_SQL/1085028453_1598867754.54/opentracing-tracerresolver-0-1-5-sources-1-jar/io/opentracing/contrib/tracerresolver/TracerResolver.java

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* /opt/ws_local/PERMITS_SQL/1085028453_1598867754.54/0/opentracing-tracerresolver-0-1-5-sources-1-jar/io/opentracing/contrib/tracerresolver/TracerConverter.java

1.5 jboss-logging 3.3.2.Final

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1.6 js-tokens 4.0.0

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1.7 commons-codec 1.11

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1.8 concat-map 0.0.1

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1.10 mod-cluster-container-spi 1.4.0.Final

1.11 cxf-rt-security-saml 3.2.5-jbossorg-1

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body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
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  margin-top: 0.5em;
```

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}
p.list {
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margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
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```

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<p> </p>

<address>webmaster
(last updated \$Date\$)</address>

</body>

</html>

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*/

package org.apache.cxf.io;

import java.io.IOException;

import java.io.InputStream;

/**

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;

}

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##
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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```

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```

```

#foreach ( $project in $projects )
#foreach ( $license in $project.licenses )
#if ( ! ( $apacheTxt == $license.name ) )

```

```

$project.name #if ( $project.url ) ( $project.url ) #end $project.artifact
License: $license.name #if ( $license.url ) ( $license.url ) #end

```

```

#end
#end
#end

```

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Version 1.1

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- */

package org.apache.cxf.rs.security.oauth.data;

/**

- * Base permission description which is visible to

- * authorization handlers

- * @see OAuthAuthorizationData

- */

public class Permission {


```

private String permission;
private String description;
private boolean isDefault;

public Permission() {

}

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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1.13 wildfly-jsf-injection 14.0.1.Final

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1.18 wildfly-servlet-feature-pack 14.0.1.Final

1.19 keycloak-Authz-policy-drools 4.8.3.Final

1.20 java-dataloader 2.1.1

1.21 camelcase 2.1.1

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1.22 old-jaxb-runtime 2.2.11

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1.23 velocity-engine-core 2.0

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1.24 apollo-utilities 1.0.26

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1.25 wss4j-ws-security-common 2.2.2

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1.29 picketlink-wildfly8 2.5.5.SP12

1.30 okhttp-ws 3.3.1

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*/

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
/**
```

```
 * Marker interface for OutputStreams that can directly support
```

```
 * copying from an input stream. OutputStreams that maintain their
```

```
 * own byte buffer or similar may be able to optimize the copy
```

```
 * instead of using the read/write into a temporary buffer that
```

```
 * the normal IOUtils.copy method requires.
```

```
*/
```

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

```
}
```

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```
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
```

```
##
```

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```

```
#foreach ( $project in $projects )
```

```
#foreach ( $license in $project.licenses)
```

```
#if ( !($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
```

```
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }
}
```

```

}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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1.32 mvel2 2.4.0.Final

1.33 wildfly-launcher 6.0.2.Final

1.34 wildfly-web-common 14.0.1.Final

1.35 code-point-at 2.15.9

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1.36 ironjacamar-common-spi 1.4.11.Final

1.37 wildflyopenssl 1.0.6.Final

1.37.1 Available under license :

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1.38 wildfly-logging 6.0.2.Final

1.39 txframework 5.9.0.Final

1.40 cxf-services-ws-discovery-api 3.2.5-jbossorg-1

1.40.1 Available under license :

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 */

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
```

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.

*/

```
public interface CopyingOutputStream {  
  
    int copyFrom(InputStream in) throws IOException;  
  
}
```

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## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##
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```

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#foreach ( $project in $projects )
#foreach ( $license in $project.licenses)
#if ( !($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
  License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
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```

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*/
package org.apache.cxf.rs.security.oauth.data;

```

```

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }
}

```

```

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}
}
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1.46 wss4j-ws-security-policy-stax 2.2.2

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1.47 http-parser-js 0.5.0

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Some files from the tests folder are from joyent/node and mscedex/io.js, a fork of nodejs/io.js:

- tests/iojs/test-http-parser-durability.js

This file is from <https://github.com/mscedex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js> with modifications by Jan Schr (jscissr).

"""

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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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1.48 slf4j-ext 1.8.0-beta4

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/instrumentation/JavassistHelper.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/cal10n/LocLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/NDC.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/TimeInstrument.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/ext/XLogger.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/ProfilerRegistry.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/Profiler.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/StopWatch.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/TimeInstrumentStatus.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
```


jar/org/slf4j/instrumentation/ToStringHelper.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/ext/XLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/SpacePadder.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/ext/LoggerWrapper.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/cal10n/LocLogger.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/DurationUnit.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/profiler/Util.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/instrumentation/LogTransformer.java
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jar/org/slf4j/agent/AgentOptions.java
* /opt/ws_local/PERMITS_SQL/1085033153_1598867699.38/0/slf4j-ext-1-8-0-beta4-sources-1-
jar/org/slf4j/agent/AgentPremain.java

1.49 ansi-wrap 0.1.0

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1.50 bcpkix-jdk15on 1.60

1.51 glob 1.0.5

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1.52 wildfly-clustering-ejb-spi 14.0.1.Final

1.53 cxf-services-sts-core 3.2.5-jbossorg-1

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
```

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p {
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  margin-bottom: 0.5em;
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p.list {
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 */

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
```

```
* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/
```

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

```
}
```

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  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
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```

```
#foreach ( $project in $projects )
```

```
#foreach ( $license in $project.licenses)
```

```
#if ( ! ($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
  License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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*/

package org.apache.cxf.rs.security.oauth.data;

/**

```

* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}

```

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1.54 lua-resty-openidc 1.6.1

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1.55 wildfly-connector 14.0.1.Final

1.56 wss4j-ws-security-stax 2.2.2

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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analysis/common/src/java/org/apache/lucene/analysis/fin/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
```

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```
=====
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
=====
```

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mecab-ipadic-2.7.0-20070801

which can be obtained from

<http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz>

or

<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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1.61 jipijapa-spi 14.0.1.Final

1.62 uglify-js 3.4.10

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1.63 commons-beanutils 1.9.3

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1.64 jax-rs-provider-for-json-content-type

1.9.13

1.64.1 Available under license :

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```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C<sup>&reg;</sup> SOFTWARE NOTICE AND LICENSE</h1>
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<h3>Copyright &copy; 1994-2002 <a href="http://www.w3.org/">World
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*/
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
```

```
* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
```

```
*/
```

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

```
}
```

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##

\$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) \$ \$Rev: 635446 \$

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```
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```

```
#foreach ( $project in $projects )
```

```
#foreach ( $license in $project.licenses)
```

```
#if ( ! ( $apacheTxt == $license.name ) )
```

```
$project.name #if ( $project.url ) ($project.url) #end $project.artifact
```

```
License: $license.name #if ( $license.url ) ($license.url) #end
```

```
#end
```

```
#end
```

```
#end
```

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Version 1.1

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*/

```

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/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {

```

```
    return isDefault;
}
}
```

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  margin-bottom: 0.5em;
}
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  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
}
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</head>

<body lang="EN-US">

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body text="#000000" bgcolor="#FFFFFF">
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<p> </p>

<address>webmaster
(last updated \$Date\$)</address>

</body>

</html>

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 */
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}
```

```
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## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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```

```

#foreach ( $project in $projects )
#foreach ( $license in $project.licenses)
#if ( ! ($apacheTxt == $license.name) )

```

```

$project.name #if ($project.url)($project.url)#end $project.artifact
  License: $license.name #if ($license.url) ($license.url)#end

```

```

#end

```

```

#end

```

```

#end

```

```

/**

```

```

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }
}
```

```
/**
```

```
* Indicates that this permission has been allocated by default.
* Authorization View handlers may use this property in order to restrict
* the list of scopes which may be refused to non-default scopes only
* @param isDefault
```

```
*/
```



```

public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
```

```

margin: 0.25in 0.5in 0.25in 0.5in;
tab-interval: 0.5in;
}
p {
margin-left: auto;
margin-top: 0.5em;
margin-bottom: 0.5em;
}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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1.74 artemis-service-extensions

2.6.3.jbossorg-001

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1.75 vertx3-eventbus-client 3.5.4

1.76 fs.realpath 1.0.0

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1.77 jboss-ejb-api-3-2-spec 1.0.1.Final

1.78 vue 2.5.17

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1.79 weld-spi 3.0.SP4

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1.81 microprofile-opentracing-api 1.1

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1.86 apollo-cache 1.1.21

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  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
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  margin-left: auto;
  margin-top: 0.5em;
```

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}
p.list {
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margin-top: 0.05em;
margin-bottom: 0.05em;
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*/

package org.apache.cxf.io;

import java.io.IOException;

import java.io.InputStream;

/**

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

*/

public interface CopyingOutputStream {

```
int copyFrom(InputStream in) throws IOException;

}
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C<sup>&reg;</sup> SOFTWARE NOTICE AND LICENSE</h1>
```

```
<h3>Copyright &copy; 1994-2002 <a href="http://www.w3.org/">World
```

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
```

```
* authorization handlers
```

```
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
```

```
    private String permission;
```

```
    private String description;
```

```
    private boolean isDefault;
```

```
    public Permission() {
```

```
    }
```

```
    public Permission(String permission, String description) {
```

```
        this.description = description;
```

```
        this.permission = permission;
```

```
    }
```

```
    public String getDescription() {
```

```
        return description;
```

```
    }
```

```
    public void setDescription(String description) {
```

```
        this.description = description;
```

```
    }
```

```
    public String getPermission() {
```

```
        return permission;
```

```
    }
```

```
    public void setPermission(String permission) {
```

```
        this.permission = permission;
```

```
    }
```

```
/**
```

```
* Indicates that this permission has been allocated by default.
```

```
* Authorization View handlers may use this property in order to restrict
```

```
* the list of scopes which may be refused to non-default scopes only
```

```

* @param isDefault
*/
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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Version 1.1

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  License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

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```

```
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```

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1.91 wildfly-jaxr 14.0.1.Final

1.92 xalan 2.7.1.jbossorg-4

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1.93 yajl 2.0.1

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1.94 yargs 3.32.0

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1.95 plexus-interpolation 1.21

1.96 aether-transport-wagon 1.1.0

1.97 netty-codec-http 4.1.19.Final

1.98 cxf-rt-features-logging 3.2.5-jbossorg-1

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 */

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import java.io.IOException;
import java.io.InputStream;

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 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}
```

}

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\$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) \$ \$Rev: 635446 \$

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```
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#foreach ( $license in $project.licenses)
#if ( ! ($apacheTxt == $license.name) )

$project.name #if ($project.url)($project.url)#end $project.artifact
  License: $license.name #if ($license.url) ($license.url)#end

#end
#end
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```

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*/

package org.apache.cxf.rs.security.oauth.data;

```

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}

```

}

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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
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  margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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```

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

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* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/senders/SenderResolver.java

* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/senders/NoopSenderFactory.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/spi/SenderFactory.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/PropagationRegistry.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/spi/package-info.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/JaegerObjectFactory.java
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* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/JaegerSpanContext.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/propagation/TextMapCodec.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/JaegerTracer.java
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* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/baggage/RemoteBaggageRestrictionManager.java

* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/baggage/DefaultBaggageRestrictionManager.java

* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/baggage/HttpBaggageRestrictionManagerProxy.java

* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/utils/Java6CompatibleThreadLocalRandom.java

* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/Reference.java

* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/exceptions/BaggageRestrictionManagerException.java

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jar/io/jaegertracing/internal/baggage/Restriction.java

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jar/io/jaegertracing/spi/BaggageRestrictionManagerProxy.java

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jar/io/jaegertracing/internal/propagation/HexCodec.java
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* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/spi/Codec.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/propagation/CompositeCodec.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/metrics/InMemoryMetricsFactory.java
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- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/propagation/PrefixedKeys.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/exceptions/UnsupportedFormatException.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/utils/RateLimiter.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/reporters/LoggingReporter.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/utils/Http.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/samplers/http/SamplingStrategyResponse.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/exceptions/SenderException.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/metrics/Counter.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/metrics/Metrics.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/spi/Sampler.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/samplers/http/OperationSamplingParameters.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/samplers/http/PerOperationSamplingParameters.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-jar/io/jaegertracing/internal/samplers/ConstSampler.java
- * /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-

jar/io/jaegertracing/spi/Sender.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/clock/Clock.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/metrics/Timer.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/http/RateLimitingSamplingStrategy.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/clock/SystemClock.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/metrics/Gauge.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/exceptions/EmptyTracerStateStringException.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/reporters/CompositeReporter.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/exceptions/MalformedTracerStateStringException.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/http/ProbabilisticSamplingStrategy.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/spi/Injector.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/reporters/InMemoryReporter.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/RateLimitingSampler.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/RemoteControlledSampler.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/PerOperationSampler.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/metrics/Tag.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/GuaranteedThroughputSampler.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/reporters/NoopReporter.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/spi/Extractor.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/utils/Utils.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/exceptions/SamplingStrategyErrorException.java
* /opt/ws_local/PERMITS_SQL/1085028497_1598867745.78/0/jaeger-core-0-30-6-sources-1-
jar/io/jaegertracing/internal/samplers/HttpSamplingManager.java

1.101 jansi 1.17

1.102 commons-lang3 2.4

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1.106 compiler 0.9.4

1.107 jaxb-jxc 2.3.0

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1.110 wildfly-clustering-marshalling-api

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1.111 jboss-marshalling-osgi 2.0.5.Final

1.112 zen-observable 0.8.11

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1.113 vue-progressbar 0.7.5

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1.114 lucene-core 5.5.2

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1.117 lua-resty-http 0.12

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1.121 simpleclient 0.5.0

1.122 wildfly-weld-spi 14.0.1.Final

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
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  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
  }
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  margin-top: 0.5em;
  margin-bottom: 0.5em;
  }
p.list {
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  margin-top: 0.05em;
  margin-bottom: 0.05em;
  }
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
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```

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</body>

</html>

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Version 1.1

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 */
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

}

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }
}
```

```

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $  
##
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```

```
#foreach ( $project in $projects )
```

```
#foreach ( $license in $project.licenses)
```

```
#if ( ! ($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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1.125 netty-common 4.1.22.Final

1.126 apollo-client 2.4.7

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1.127 watcher 0.9.7+3

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1.128 netty-buffer 4.1.22.Final

1.129 netty-handler 4.1.22.Final

1.130 wildfly-ejb3 14.0.1.Final

1.131 maven-compat 3.3.9

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1.132 serializer 2.7.1.jbossorg-4

1.133 netty-buffer 4.1.19.Final

1.134 micrometer-core 1.0.0

1.135 wildfly-protocol 6.0.2.Final

1.136 utf 0.9.0+3

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1.138 wildfly-mod-cluster-undertow

14.0.1.Final

1.139 wildfly-weld-jpa 14.0.1.Final

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1.140 lucene-analyzers-common 5.5.2

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`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
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`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`

analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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=====
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
=====

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Apache log4j

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1.156 httpcore 4.4.5

1.156.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Apache License, Version 2.0</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">

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CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions and limitations under the License. -->

</head>
```

```

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
            <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</nav>

```

```

    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
      <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
        
      </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-6">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
      <gcse:searchbox-only></gcse:searchbox-only>
    </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>

```

```

    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="http://community.apache.org/">Overview</a></li>
<li><a href="/foundation/conferences.html">Conferences</a></li>
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
<li><a href="/travel/">Travel Assistance</a></li>
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
<li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
```


</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

Overview

ASF News

Announcements

Twitter Feed

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy Policy

Export Information

License/Distribution FAQ

Contacts

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

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</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

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<script src="/js/bootstrap.js"></script>
</body>
</html>
```

1.157 brace-expansion 1.1.11

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1.158 wildfly-clustering-ee-spi 14.0.1.Final

1.159 jboss-transaction-spi 7.6.0.Final

1.160 xmlcommonsexternalcomponents

1.3.04

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1.161 opensaml-xmlsec-impl 3.3.0

1.162 jaxb-core 2.3.0

1.163 netty-transport-native-kqueue

4.1.24.Final

1.164 netty-handler 4.1.24.Final

1.165 cxf-rt-ws-rm 3.2.5-jbossorg-1

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;

}

<?xml version="1.0" encoding="ISO-8859-1" ?>

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margin-top: 0.5em;
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}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
<h2>Eclipse Public License - v 1.0</h2>
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 */
package org.apache.cxf.rs.security.oauth.data;

```

```

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {

```



```

    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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1.178 jboss-remoting 5.0.8.Final

1.179 wildfly-threads 6.0.2.Final

1.180 artemis-jdbc-store 2.6.3.jbossorg-001

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1.181 boost-process 0.5

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1.182 jackson-databind 2.10.3

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1.183 slf4j-ext 1.7.22.jbossorg-1

1.184 narayana-jts-idlj 5.9.0.Final

1.185 asm 6.2.1

1.186 jackson-annotations 2.9.5

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1.187 wildfly-clustering-marshalling-spi 14.0.1.Final

1.188 amdefine 3.10.3

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1.189 wildfly-mail 14.0.1.Final

1.190 asm-util 6.2.1

1.191 commons-digester 1.8.1

1.192 keycloak-wildfly-adduser 4.8.3.Final

1.193 geronimo-jms-2-0-spec 1.0-alpha-2

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1.194 rimraf 2.6.2

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1.195 bean-validation-api 2.0.1.Final

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1.196 cxf-rt-bindings-xml 3.2.5-jbossorg-1

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;

}

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(<http://www.w3.org/2005/08/addressing/ws-addr.xsd>)
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*/

package org.apache.cxf.rs.security.oauth.data;

/**

* Base permission description which is visible to

* authorization handlers

* @see OAuthAuthorizationData

*/

```
public class Permission {
```

```
    private String permission;
```

```
    private String description;
```

```
    private boolean isDefault;
```

```

public Permission() {

}

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
```

```
margin-bottom: 0.5em;
}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C^{®}®</sup> SOFTWARE NOTICE AND LICENSE</h1>
```

```
<h3>Copyright © 1994-2002 World
```

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\*/

package org.apache.cxf.io;

import java.io.IOException;  
import java.io.InputStream;

/\*\*

\* Marker interface for OutputStreams that can directly support  
\* copying from an input stream. OutputStreams that maintain their  
\* own byte buffer or similar may be able to optimize the copy  
\* instead of using the read/write into a temporary buffer that  
\* the normal IOUtils.copy method requires.  
\*/

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;

```

}
##
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##
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

```

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#set ($apacheTxt = "The Apache Software License, Version 2.0")
```

```
#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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 */
package org.apache.cxf.rs.security.oauth.data;

```

```

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {

```

```

 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
 }
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
 }
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
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## 1.202 graphql-tag 2.10.0

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## 1.203 wildfly-sar 14.0.1.Final



# 1.204 wildflyopensslsolaris 1.0.6.Final

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## 1.205 lua-resty-hmac 0.02

## 1.206 picketbox-identity-impl 5.0.3.Final

## 1.207 commons-lang3 3.9

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## 1.209 maven-artifact 3.3.9

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## 1.213 jboss-jaspi-api-1-1-spec 1.0.0.Alpha1

## 1.214 wildfly-webservices-server-integration 14.0.1.Final

## 1.215 aether-transport-http 1.1.0

## 1.216 jsonpatch 1.3

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## 1.219 wildfly-deployment-repository

### 6.0.2.Final

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## 1.222 plexus-utils 3.0.22

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```
package org.apache.cxf.io;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
/**
```

- \* Marker interface for OutputStreams that can directly support
- \* copying from an input stream. OutputStreams that maintain their
- \* own byte buffer or similar may be able to optimize the copy
- \* instead of using the read/write into a temporary buffer that
- \* the normal IOUtils.copy method requires.

```
*/
```

```
public interface CopyingOutputStream {
```

```
 int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
```

```
<title>Eclipse Public License - Version 1.0</title>
```

```
<style type="text/css">
```

```
body {
```

```
 size: 8.5in 11.0in;
```

```
 margin: 0.25in 0.5in 0.25in 0.5in;
```

```
 tab-interval: 0.5in;
```

```
}
```

```
p {
```

```
 margin-left: auto;
```

```
 margin-top: 0.5em;
```

```
 margin-bottom: 0.5em;
```

```
}
```

```
p.list {
```

```
 margin-left: 0.5in;
```

```
 margin-top: 0.05em;
```

```
 margin-bottom: 0.05em;
```

}  
</style>

</head>

<body lang="EN-US">

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```
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```

```
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*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
```

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }
}
```

```

public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
}

public String getDescription() {
 return description;
}

public void setDescription(String description) {
 this.description = description;
}

public String getPermission() {
 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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```
#set ($apacheTxt = "The Apache Software License, Version 2.0")
```

```
#foreach ($project in $projects)
```

```
#foreach ($license in $project.licenses)
```



```
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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# 1.224 ehcache 2.10.5

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22 %

& '()

\*,-.CopyingIterableInnerClassesCopyingIteratorelementsLjava/lang/Iterable;

Signature.Ljava/lang/Iterable<Lnet/sf/ehcache/Element;>;copyStrategyHandler\*Lnet/sf/ehcache/store/CopyStrategyHandler;<init>A(Ljava/lang/Iterable;Lnet/sf/ehcache/store/CopyStrategyHandler;)VCodeLineNumberTableLocalVariableTablethis>Lnet/sf/ehcache/store/CopyingBruteForceSource\$CopyingIterable;LocalVariableTypeTable[(Ljava/lang/Iterable<Lnet/sf/ehcache/Element;>;Lnet/sf/ehcache/store/CopyStrategyHandler;)Viterator()Ljava/util/Iterator;0()Ljava/util/Iterator<Lnet/sf/ehcache/Element;>;

access\$000j(Lnet/sf/ehcache/store/CopyingBruteForceSource\$CopyingIterable;)Lnet/sf/ehcache/store/CopyStrategyHandler;x0@Ljava/lang/Object;Ljava/lang/Iterable<Lnet/sf/ehcache/Element;>;

SourceFileCopyingBruteForceSource.java/

Lnet/sf/ehcache/store/CopyingBruteForceSource\$CopyingIterable\$CopyingIterator01<net/sf/ehcache/store/CopyingBruteForceSource\$CopyingIterablejava/lang/Objectjava/lang/Iterable()VU(Lnet/sf/ehcache/store/CopyingBruteForceSource\$CopyingIterable;Ljava/util/Iterator;)V,net/sf/ehcache/store/CopyingBruteForceSourcek\*\*+\*,CD EF

<Y\*\*J /\*?!"#\$+

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!"\$%&delegate-

Lnet/sf/ehcache/store/ElementValueComparator;copyStrategyHandler\*Lnet/sf/ehcache/store/CopyStrategyHandler;<init>Z(Lnet/sf/ehcache/store/ElementValueComparator;Lnet/sf/ehcache/store/CopyStrategyHandler;)VCodeLineNumberTableLocalVariableTablethisCopyingElementValueComparatorInnerClassesFLnet/sf/ehcache/store/CopyingCacheStore\$CopyingElementValueComparator;equals3(Lnet/sf/ehcache/Element;Lnet/sf/ehcache/Element;)/Ze1Lnet/sf/ehcache/Element;e2

SourceFileCopyingCacheStore.java

,

()\*+Dnet/sf/ehcache/store/CopyingCacheStore\$CopyingElementValueComparatorjava/lang/Object+net/sf/ehcache/store/ElementValueComparator()V(net/sf/ehcache/store/CopyStrategyHandlercopyElementForReadIfNeeded2(Lnet/sf/ehcache/Element;)Lnet/sf/ehcache/Element;&net/sf/ehcache/store/CopyingCacheStore

Y\*\*+\*,pq rs

X\*\*+\*,w

#

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```
CCopyingElementValueComparatorInnerClasses<init>m(Lnet/sf/ehcache/store/Store;ZZLnet/sf/ehcache/store/compound/ReadWriteCopyStrategy;Ljava/lang/ClassLoader;)VCodeLineNumberTableLocalVariableTablethis(Lnet/sf/ehcache/store/CopyingCacheStore;storeLnet/sf/ehcache/store/Store;copyOnReadZcopyOnWritecopyStrategyInstance5Lnet/sf/ehcache/store/compound/ReadWriteCopyStrategy;loader Ljava/lang/ClassLoader;LocalVariableTypeTable-Lnet/sf/ehcache/store/CopyingCacheStore<TT;>;TT;OLnet/sf/ehcache/store/compound/ReadWriteCopyStrategy<Lnet/sf/ehcache/Element;>;Signaturen(TT;ZZLnet/sf/ehcache/store/compound/ReadWriteCopyStrategy<Lnet/sf/ehcache/Element;>;Ljava/lang/ClassLoader;)VwrapIfCopyd(Lnet/sf/ehcache/store/Store;Lnet/sf/ehcache/config/CacheConfiguration;)Lnet/sf/ehcache/store/Store;cacheStorecacheConfiguration*Lnet/sf/ehcache/config/CacheConfiguration;StackMapTablewrapp(Lnet/sf/ehcache/store/Store;Lnet/sf/ehcache/config/CacheConfiguration;)Lnet/sf/ehcache/store/CopyingCacheStore;}<T::Lnet/sf/ehcache/store/Store;>(TT;Lnet/sf/ehcache/config/CacheConfiguration;)Lnet/sf/ehcache/store/CopyingCacheStore<TT;>;requiresCopy-(Lnet/sf/ehcache/config/CacheConfiguration;)ZisCopyOnReadAndCopyOnWrite(Lnet/sf/ehcache/store/ElementValueComparator;Lnet/sf/ehcache/config/CacheConfiguration;)Lnet/sf/ehcache/store/ElementValueComparator;copyStrategyHandler*Lnet/sf/ehcache/store/CopyStrategyHandler;comparator-Lnet/sf/ehcache/store/ElementValueComparator;getUnderlyingStore()Lnet/sf/ehcache/store/Store;recalculateSize(Ljava/lang/Object;)Vx0Ljava/lang/Object;getAll(Ljava/util/Collection;)Ljava/util/Map;Ljava/util/Collection;getAllQuietgetSearchAttributes(Ljava/util/Set;getSearchAttribute5(Ljava/lang/String;)Lnet/sf/ehcache/search/Attribute;Ljava/lang/String;executeQueryB(Lnet/sf/ehcache/store/StoreQuery;)Lnet/sf/ehcache/search/Results;!Lnet/sf/ehcache/store/StoreQuery;ExceptionssetAttributeExtractors(Ljava/util/Map;)VLjava/util/Map;getMBean(Ljava/lang/Object;waitUntilClusterCoherent()VsetNodeCoherent(Z)VisNodeCoherent()ZisClusterCoherentisCacheCoherentgetInternalContextsetInMemoryEvictionPolicy(Lnet/sf/ehcache/store/Policy;)VLnet/sf/ehcache/store/Policy;getInMemoryEvictionPolicy()Lnet/sf/ehcache/store/Policy;bufferFullflushexpireElementscontainsKeyInMemory(Ljava/lang/Object;)ZcontainsKeyOffHeapcontainsKeyOnDiskcontainsKeygetStatus()Lnet/sf/ehcache/Status;hasAbortedSizeOfgetOnDiskSizeInBytes(J)getOffHeapSizeInBytesgetInMemorySizeInBytesgetTerracottaClusteredSize()IgetOnDiskSizegetOffHeapSizegetInMemorySizegetSizedisposereplace2(Lnet/sf/ehcache/Element;)Lnet/sf/ehcache/Element;Lnet/sf/ehcache/Element;^(Lnet/sf/ehcache/Element;Lnet/sf/ehcache/Element;Lnet/sf/ehcache/store/ElementValueComparator;)Zx1x2removeElement_(Lnet/sf/ehcache/Element;Lnet/sf/ehcache/store/ElementValueComparator;)Lnet/sf/ehcache/Element;putIfAbsentremoveAllremoveWithWriterV(Ljava/lang/Object;Lnet/sf/ehcache/writer/CacheWriterManager;)Lnet/sf/ehcache/Element;*Lnet/sf/ehcache/writer/CacheWriterManager;(Ljava/util/Collection;)Vremove,(Ljava/lang/Object;)Lnet/sf/ehcache/Element;getKeys()Ljava/util/List;getQuietgetputWithWriterE(Lnet/sf/ehcache/Element;Lnet/sf/ehcache/writer/CacheWriterManager;)ZputAllput(Lnet/sf/ehcache/Element;)ZremoveStoreListener'(Lnet/sf/ehcache/store/StoreListener;)V$Lnet/sf/ehcache/store/StoreListener;addSt
```

oreListenerV<T::Lnet/sf/ehcache/store/Store;>Lnet/sf/ehcache/store/AbstractCopyingCacheStore<TT;>;  
SourceFileCopyingCacheStore.javaFGefbc  
!"#\$%&'net/sf/ehcache/store/CopyingCacheStore%&gf(net/sf/ehcache/store/CopyStrategyHandlerF'Dnet/sf/ehcache/st  
ore/CopyingCacheStore\$CopyingElementValueComparatorF(mnopstvtwxyz|})net/sf/ehcache/store/AbstractCopyin  
gCacheStore%net/sf/ehcache/search/SearchException'java/lang/UnsupportedOperationException7net/sf/ehcache/terr  
acotta/TerracottaNotRunningExceptionjava/lang/InterruptedExceptionjava/io/IOExceptionjava/lang/NullPointerExc  
eption"java/lang/IllegalArgumentExceptionnet/sf/ehcache/CacheException(net/sf/ehcache/config/CacheConfigurati  
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ClassLoader;/net/sf/ehcache/config/CopyStrategyConfigurationgetCopyStrategyInstanceN(Ljava/lang/ClassLoader;)  
Lnet/sf/ehcache/store/compound/ReadWriteCopyStrategy;isCopyOnRead  
isCopyOnWriteQ(ZZLnet/sf/ehcache/store/compound/ReadWriteCopyStrategy;Ljava/lang/ClassLoader;)VZ(Lnet/sf  
/ehcache/store/ElementValueComparator;Lnet/sf/ehcache/store/CopyStrategyHandler;)V1C9FGH\*+I  
)\*J>KLMNOPQRSTUVWXYZ[ \]HT+ \*+\*I45  
7J^N\_`a  
bcH"++MY\*++ ,+  
I  
BDJ "^N" \_`RSV"^XRYZdefHJ\*  
\* INJ\_`a@  
gfHI\*\* IRJ\_`a@ \hH4+.++MY++ ,+  
NY\*\_\*I]^^(c2eJ\*RS(  
ij4kl4\_`VRYa2AmnHA\*IJKLVKWAopHL\*+IJKLqrVKWAsHL\*+IJKLquVKWAvtHL\*+IJKLquVKWAwxHA\*I  
JKLVKWAyzHL\*+IJKLq{VKWA|}HL\*+IJKLq~VKWAHL\*+IJKLqVKWAHA\*IJKLVKWAHA\*IJKLVKWAH  
L\*IJKLqPVKWAHA\*IJKLVKWAHA\*IJKLVKWAHA\*IJKLVKWAHA\*IJKLVKWAHL\*+IJKLqVKWAHA\*  
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KLqVKWAHb\*+,-4IJ\*KLqIqVKWAHW\*+,5IJ KLqIqVKWAHL\*+6IJKLqVKWAHA\*7IJKLVKWAHW\*+,8IJ  
KLqrVKWAHL\*+9IJKLquVKWAHL\*+:IJKLqrVKWAHA\*;IJKLVKWAHL\*+<IJKLqrVKWAHL\*+|=IJKLqrVK  
WAHW\*+,>IJ  
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pyingBruteForceSource\$CopyingIterable\$CopyingIterator;LocalVariableTypeTable1(Ljava/util/Iterator<Lnet/sf/ehc  
ache/Element;>);VhasNext()Znext()Lnet/sf/ehcache/Element;remove()V(Ljava/lang/Object;@Ljava/lang/Object;Lj  
ava/util/Iterator<Lnet/sf/ehcache/Element;>);  
SourceFileCopyingBruteForceSource.java&!";<#net/sf/ehcache/Element=>?%&#\$Lnet/sf/ehcache/store/CopyingB  
ruteForceSource\$CopyingIterable\$CopyingIteratorjava/lang/Objectjava/util/Iterator@<net/sf/ehcache/store/Copying

```

BruteForceSource$CopyingIterable
access$000j(Lnet/sf/ehcache/store/CopyingBruteForceSource$CopyingIterable;)Lnet/sf/ehcache/store/CopyStrategy
Handler;(net/sf/ehcache/store/CopyStrategyHandlercopyElementForReadIfNeeded2(Lnet/sf/ehcache/Element;)Lnet/
sf/ehcache/Element;;net/sf/ehcache/store/CopyingBruteForceSource
]*+**,*S TU !"4
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*
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25

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che/store/CopyStrategyHandler;<init>T(Lnet/sf/ehcache/store/BruteForceSource;Lnet/sf/ehcache/store/CopyStrateg
yHandler;)VCodeLineNumberTableLocalVariableTablethis.Lnet/sf/ehcache/store/CopyingBruteForceSource;elem
ents(Ljava/lang/Iterable; Signature0(Ljava/lang/Iterable<Lnet/sf/ehcache/Element;>;
getSearchable$(Lnet/sf/ehcache/config/Searchable;transformForIndexing2(Lnet/sf/ehcache/Element;)Lnet/sf/ehcac
he/Element;elementLnet/sf/ehcache/Element;
SourceFileCopyingBruteForceSource.java1<net/sf/ehcache/store/CopyingBruteForceSource$CopyingIterable234
,net/sf/ehcache/store/CopyingBruteForceSourcejava/lang/Object%net/sf/ehcache/store/BruteForceSource()VA(Ljav
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ntForReadIfNeeded
Y**+*,() *+ ?Y**/4
*4
= *+9 !"#$

```

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## 1.230 jsr250 1.0

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```

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*/
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
```

```
* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
```

\* instead of using the read/write into a temporary buffer that  
\* the normal IOUtils.copy method requires.  
\*/

```
public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

}
```

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<html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
<meta name="generator" content="HTML Tidy, see www.w3.org" />  
<meta http-equiv="Content-Type"  
content="text/html; charset=iso-8859-1" />  
<link rel="stylesheet" type="text/css"  
href="/StyleSheets/base.css" />  
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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
```

```
* authorization handlers
```

```
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
```

```
 private String permission;
```

```
 private String description;
```

```
 private boolean isDefault;
```

```
 public Permission() {
```

```
 }
```

```
 public Permission(String permission, String description) {
```

```
 this.description = description;
```

```
 this.permission = permission;
```

```
 }
```

```
 public String getDescription() {
```

```
 return description;
```

```
 }
```

```
 public void setDescription(String description) {
```

```
 this.description = description;
```

```
 }
```

```
 public String getPermission() {
```

```
 return permission;
```

```
 }
```

```
 public void setPermission(String permission) {
```

```
 this.permission = permission;
```

```
 }
```

```

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}
}
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##
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

```

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#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))

$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end

```

#end

#end

#end

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
```

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<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
 }
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
 }
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
 }
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
<h2>Eclipse Public License - v 1.0</h2>
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</body>

</html>

## 1.232 bcprov-jdk15on 1.64

## 1.233 maven-plugin-api 3.3.9

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Maven Plugin API

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# 1.234 dslink 0.20.1

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package org.dsa.iot.dslink.node;

/\*\*

\* Handles various permission levels

```

* @author Samuel Grenier
*/
public enum Permission {
 NONE("none"),
 READ("read"),
 WRITE("write"),
 CONFIG("config"),
 NEVER("never");

 private final String jsonName;

 Permission(String jsonName) {
 this.jsonName = jsonName;
 }

 /**
 * @return JSON ready name of the permission
 */
 public String getJsonName() {
 return jsonName;
 }

 /**
 * Converts a string permission received from an endpoint back into a
 * permission enumeration.
 *
 * @param perm Permission string to convert.
 * @return Converted string into an enumeration.
 */
 public static Permission toEnum(String perm) {
 switch (perm) {
 case "none":
 return NONE;
 case "read":
 return READ;
 case "write":
 return WRITE;
 case "config":
 return CONFIG;
 case "never":
 return NEVER;
 default:
 throw new RuntimeException("Unhandled type");
 }
 }
}

```

# 1.235 path-dart 1.4.2

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# 1.236 cxf-rt-frontend-simple 3.2.5-jbossorg-1

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package org.apache.cxf.io;

import java.io.IOException;  
import java.io.InputStream;



```

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

}
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
```

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }
}
```

```

}

public String getDescription() {
 return description;
}

public void setDescription(String description) {
 this.description = description;
}

public String getPermission() {
 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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##
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```

```
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```

```
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 License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C^{®} SOFTWARE NOTICE AND LICENSE</h1>
```

```
<h3>Copyright © 1994-2002 World
```

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Wide Web Consortium, (<a
```

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href="http://www.lcs.mit.edu/">Massachusetts Institute of
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Technology, Institut National de
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## 1.240 javax-transaction 1.1.1



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## 1.242 typed-data 1.1.3

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# 1.243 wildfly-core-security 6.0.2.Final

## 1.244 json3 3.3.2

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## 1.245 ms 2.0.0

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/PoolChunkMetric.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/HeapByteBufUtil.java
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jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java  
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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
```

```
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
```



\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codecs/redis/InlineCommandRedisMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/ResourcesUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/ByteProcessorUtils.java

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\* Set the {@code TCP\_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/PooledHeapByteBuf.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2StreamFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/kqueue/KQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/kqueue/Native.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/RoundRobinInetAddressResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/bootstrap/BootstrapConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/concurrent/RejectedExecutionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/concurrent/OrderedEventExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/buffer/PooledSlicedByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/haproxy/HAProxyTLV.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/DefaultSelectStrategyFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/concurrent/PromiseCombiner.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/concurrent/UnaryPromiseNotifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java  
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jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2FrameStreamException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/DelegatingSslContext.java  
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jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java  
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jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/DateFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

jar/io/netty/handler/ssl/PemValue.java  
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jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/kqueue/KQueueChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/ChannelOutboundInvoker.java  
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jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
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jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java  
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jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java  
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jar/io/netty/handler/codec/http2/Http2Frame.java  
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jar/io/netty/handler/codec/http2/Http2DataFrame.java  
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jar/io/netty/channel/kqueue/KQueueEventArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/internal/tcnative/CertificateRequestedCallback.java  
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jar/io/netty/handler/codec/http2/Http2HeadersFrame.java  
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jar/io/netty/util/ResourceLeakDetectorFactory.java  
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jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/ssl/PemEncoded.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/util/concurrent/EventExecutorChooserFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/group/VoidChannelGroupFuture.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/kqueue/KQueueSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/CodecOutputList.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/redis/RedisClient.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

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jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/RedisEncoder.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/DefaultChannelPromise.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/FixedRecvByteBufAllocator.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBuf.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/marshalling/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/DefaultHttpRequest.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpConstants.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socks/SocksCommonUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/securechat/SecureChatClient.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/nio/NioEventLoopGroup.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpHeaders.java

- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/timeout/TimeoutException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/multipart/FileUpload.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpMethod.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/echo/EchoClient.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/upload/HttpUploadServerInitializer.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/securechat/SecureChatServerHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/timeout/IdleStateHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/socksproxy/RelayHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/compression/ZlibUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpContent.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/MessageAggregator.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/snoop/HttpSnoopServer.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/socksproxy/SocksServer.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/DefaultChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/ChannelException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/nio/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpRequestDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/stream/ChunkedNioStream.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/ByteBufOutputStream.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/logging/AbstractInternalLogger.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/SocketChannelConfig.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerOne.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitResponse.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/objectecho/ObjectEchoServer.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/embedded/package-info.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/stream/ChunkedStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/file/HttpStaticFileServer.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/snoop/HttpSnoopServerHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/discard/DiscardClient.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/compression/ZlibWrapper.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/UdtChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/DuplicatedByteBuf.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/DecoderResult.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/udt/echo/rendezvous/package-info.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/udt/echo/bytes/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/TooLongFrameException.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/SlicedByteBuf.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/worldclock/WorldClockServerHandler.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/local/LocalEventLoopGroup.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/LastHttpContent.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/oio/package-info.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/RecvByteBufAllocator.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/nio/AbstractNioByteChannel.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codecs/compression/Snappy.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/UnpooledDirectByteBuf.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/DatagramChannel.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/MessageToMessageCodec.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/factorial/FactorialClient.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/HashedWheelTimer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpObjectAggregator.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/discard/DiscardServer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/AbstractByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/ChannelPromiseNotifier.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/ChannelPromise.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/ServerSocketChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/AbstractByteBufAllocator.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/socksproxy/SocksServerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/rtp/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/AbstractChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/xml/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/localecho/LocalEchoClientHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/socksproxy/SocksServerInitializer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/socksproxy/SocksServerConnectHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerTwo.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/NetUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/CompleteChannelFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/echo/EchoServerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/DefaultHttpObject.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/securechat/SecureChatClientHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/EventLoopException.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpObjectDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/ChannelOutboundHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/sctp/SctpEchoClientHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/CodecException.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/cors/HttpCorsServerInitializer.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/rtsp/RtspVersions.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/websocketx/server/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/QueryStringDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/Signal.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/group/CombinedIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/FailedFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/SingleThreadEventLoop.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socks/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/DefaultHttpContent.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/logging/InternalLoggerFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdResponse.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

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\*/

/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
\* its { @link ChannelPipeline }.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its  
subtypes:

\* <ul>

\* <li>{ @link ChannelInboundHandler } to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>

```

*
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
*
* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,
* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and
* { @link ChannelDuplexHandler } to handle both inbound and outbound events
*
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
* // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } <Message > {
*
* private boolean loggedIn;
*
* { @code @Override }
* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) message);
* loggedIn = true;
* } else (message instanceof GetDataMessage) {
* if (loggedIn) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
* }
* }

```

```

* }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}<&{ @link Channel}> {
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
*
* </pre>
*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
* // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}<&Message> {
* private final { @link AttributeKey}<&{ @link Boolean}> auth =
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* { @code @Override}
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
* { @link Attribute}<&{ @link Boolean}> attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* }
* }

```

```
* }
* }
* ...
* }
```

```
* </pre>
```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```
* <pre>
```

```
* public class DataServerInitializer extends { @link ChannelInitializer}&It;{ @link Channel}> {
```

```
*
```

```
* private static final DataServerHandler SHARED = new DataServerHandler();
```

```
*
```

```
* { @code @Override}
```

```
* public void initChannel({ @link Channel} channel) {
```

```
* channel.pipeline().addLast("handler", SHARED);
```

```
* }
```

```
* }
```

```
* </pre>
```

```
*
```

```
*
```

\* <h4>The { @code @Sharable} annotation</h4>

```
* <p>
```

\* In the example above which used an { @link AttributeKey},

\* you might have noticed the { @code @Sharable} annotation.

```
* <p>
```

\* If a { @link ChannelHandler} is annotated with the { @code @Sharable}

\* annotation, it means you can create an instance of the handler just once and

\* add it to one or more { @link ChannelPipeline}s multiple times without

\* a race condition.

```
* <p>
```

\* If this annotation is not specified, you have to create a new handler

\* instance every time you add it to a pipeline because it has unshared state

\* such as member variables.

```
* <p>
```

\* This annotation is provided for documentation purpose, just like

\* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

```
*
```

\* <h3>Additional resources worth reading</h3>

```
* <p>
```

\* Please refer to the { @link ChannelHandler}, and

\* { @link ChannelPipeline} to find out more about inbound and outbound operations,

\* what fundamental differences they have, how they flow in a pipeline, and how to handle

\* the operation in your application.

```
* /
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
```

```
jar/io/netty/channel/ChannelHandler.java
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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/http/cors/OkResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/cors/CorsConfig.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
```



\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/socket/nio/NioChannelOption.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/SimpleUserEventChannelHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/NameServerComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/unix/Buffer.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/DirContextUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/Cache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/SuppressJava6Requirement.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/DnsCnameCache.java

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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/dns/NoopDnsCnameCache.java
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jar/io/netty/util/internal/Cleaner.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/util/internal/CleanerJava9.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
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jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/internal/tcnative/SSL.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/internal/tcnative/Buffer.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/internal/tcnative/Library.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/traffic/TrafficCounter.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtProvider.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/sctp/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/traffic/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/SctpChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/SctpServerChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/nio/NioSctpChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/SctpNotificationHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/SctpMessage.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/sctp/SctpChannel.java

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jar/io/netty/example/ocsp/OcspUtils.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/ocsp/Digester.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/ocsp/OcspRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/ocsp/OcspClientExample.java
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/stomp/StompFrame.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/PendingWriteQueue.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/DnsNameResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/HttpMessageUtil.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/dns/DnsResolveContext.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/resolver/NoopAddressResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2SecurityUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/xml/XMLAttribute.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/stomp/StompSubframe.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/xml/XMLContent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/ThreadDeathWatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/spdy/server/SpdyServer.java

- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/haproxy/HAProxyCommand.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/InternalThreadLocalMap.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/socksx/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/epoll/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/xml/XmlSpace.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/DomainNameMapping.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerInitializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/epoll/EpollSocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/proxy/ProxyConnectionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java  
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\*/opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/sctp/DefaultSctpServerChannelConfig.java

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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/logging/MessageFormatter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java  
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```
/*
 * Written by Robert Harder and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 */
/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * Robert Harder's Public Domain
 * Base64 Encoder/Decoder.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codecs/base64/Base64Dialect.java
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See TCP_QUICKACK
 * for more details.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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 */
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 */
```

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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/util/internal/ThreadLocalRandom.java
```

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 * License for the specific language governing permissions and limitations
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 */
// Try the OpenJDK's proprietary implementation.
```

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```
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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jar/io/netty/util/internal/PriorityQueue.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/resolver/HostsFileEntries.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-

```

jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/NettyRuntime.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/SuppressForbidden.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/buffer/ByteBufAllocatorMetric.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/mqtt/MqttMessageBuilders.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/ResolvedAddressTypes.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2StreamChannelId.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/unix/UnixChannelUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/bootstrap/FailedChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/internal/tcnative/SniHostNameMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/Java9SslUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-



jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/LongAdderCounter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/EmptyPriorityQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/SniCompletionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2StreamChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/example/uptime/UptimeServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/DnsCacheEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/ObjectCleaner.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/OptionalSslHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/internal/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2UnknownFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/TraceDnsQueryLifeCycleObserverFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/example/uptime/UptimeServerHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/internal/ChannelUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/ocsp/package-info.java

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jar/io/netty/channel/udt/UdtServerChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/rxtx/RxtxChannelOption.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/rxtx/RxtxDeviceAddress.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/rxtx/RxtxChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/oio/OioByteStreamChannel.java

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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/sctp/SctpChannelOption.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/channel/rxtx/package-info.java
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* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/FullHttpRequest.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/PromiseTask.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/CompleteFuture.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/buffer/ByteBufProcessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/AbstractFuture.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/internal/EmptyArrays.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroup.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

jar/io/netty/channel/ConnectTimeoutException.java  
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 jar/io/netty/util/internal/PlatformDependent0.java  
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 jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/ChannelProgressivePromise.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/util/concurrent/Future.java  
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 jar/io/netty/util/concurrent/DefaultPromise.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/util/ResourceLeakDetector.java  
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 jar/io/netty/handler/codec/socks/SocksResponseType.java  
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 jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java  
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 jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuffer.java  
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jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java  
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jar/io/netty/handler/codec/memcache/MemcacheObject.java  
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jar/io/netty/util/concurrent/GenericFutureListener.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
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jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java  
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jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

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jar/io/netty/handler/codec/mqtt/package-info.java

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- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/collection/ShortObjectHashMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/util/collection/CharObjectMap.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/compression/Lz4XXHash32.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/MaxCapacityQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/internal/tcnative/CertificateCallbackTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/ThreadExecutorMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/resolver/dns/macos/DnsResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBrokerHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/ExtendedClosedChannelException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/dns/DnsCodecUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/ObjectPool.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/channel/ChannelHandlerMask.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/util/internal/svm/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBroker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/resolver/dns/TcpDnsQueryContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/handler/codec/dns/DnsResponseDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
 jar/io/netty/internal/tcnative/CertificateVerifierTask.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

```
jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/internal/tcnative/SSLTask.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClientHandler.java
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
```

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```

```
*/
```

```
// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/http2/HttpConversionUtil.java
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\*/  
 /\*\*

\* A decoder that splits the received { @link ByteBuf}s dynamically by the  
 \* value of the length field in the message. It is particularly useful when you  
 \* decode a binary message which has an integer header field that represents the  
 \* length of the message body or the whole message.

\* <p>  
 \* { @link LengthFieldBasedFrameDecoder} has many configuration parameters so  
 \* that it can decode any message with a length field, which is often seen in  
 \* proprietary client-server protocols. Here are some example that will give  
 \* you the basic idea on which option does what.

\*  
 \* <h3>2 bytes length field at offset 0, do not strip header</h3>  
 \*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

\* <pre>  
 \* <b>lengthFieldOffset</b> = <b>0</b>  
 \* <b>lengthFieldLength</b> = <b>2</b>  
 \* lengthAdjustment = 0  
 \* initialBytesToStrip = 0 (= do not strip header)  
 \*  
 \* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)  
 \* +-----+-----+      +-----+-----+  
 \* | Length | Actual Content |---->| Length | Actual Content |  
 \* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |  
 \* +-----+-----+      +-----+-----+  
 \* </pre>  
 \*

\* <h3>2 bytes length field at offset 0, strip header</h3>  
 \*

\* Because we can get the length of the content by calling  
 \* { @link ByteBuf#readableBytes()}, you might want to strip the length  
 \* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
 \* specified <tt>2</tt>, that is same with the length of the length field, to  
 \* strip the first two bytes.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
*

```

```

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x0000C | "HELLO, WORLD" | | 0xCAFE | 0x0000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive <tt>lengthAdjustment</tt> so that the decoder counts the extra header into the frame length calculation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0

```

```

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>

\* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 + LEN)

```

```

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```



```

*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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*/
/*
* Written by Robert Harder and released to the public domain, as explained at

```

```
* http://creativecommons.org/licenses/publicdomain
*/
/**
 * Utility class for { @link ByteBuf} that encodes and decodes to and from
 * Base64 notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * Robert Harder's Public Domain
 * Base64 Encoder/Decoder.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084579560_1598535210.59/0/netty-all-4-1-47-final-sources-1-
jar/io/netty/handler/codecs/base64/Base64.java
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\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackHeaderField.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackDynamicTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackStaticTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/HpackDecoder.java

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-jar/io/netty/handler/codec/http2/StreamByteDistributor.java

\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-

jar/io/netty/util/ByteProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/util/internal/MathUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/channel/CoalescingBufferQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/Http2StreamVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084579560\_1598535210.59/0/netty-all-4-1-47-final-sources-1-  
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java

## 1.260 plexus-component-annotations 1.6

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## 1.261 jboss-logging-annotations 2.1.0.Final

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## 1.262 resteasy-crypto 3.6.1.Final

## 1.263 jboss-msc 1.4.3.Final

## 1.264 javassist 3.23.1-GA

## 1.265 types-async 2.0.50

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## 1.267 hibernate-search-serialization-avro

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## 1.268 drools-core 7.11.0.Final

## 1.269 jcommander 1.72

## 1.270 codemodel 2.3.0

## 1.271 wildfly-io 6.0.2.Final

## 1.272 commons-configuration2 2.1

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## 1.275 jul-to-slf4j-stub 1.0.1.Final

## 1.276 jboss-jacc-api-1-5-spec 1.0.0.Final

## 1.277 wildfly-core-management-client 6.0.2.Final

# 1.278 javaewah 1.1.6

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 */
package org.keycloak.authorization.policy.provider.permission;

import java.util.HashSet;
import java.util.Set;
import java.util.stream.Collectors;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
```

```

import org.keycloak.authorization.store.PolicyStore;
import org.keycloak.models.ClientModel;
import org.keycloak.models.GroupModel;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.models.RealmModel;
import org.keycloak.models.RoleModel;
import org.keycloak.models.utils.KeycloakModelUtils;
import org.keycloak.models.utils.ModelToRepresentation;
import org.keycloak.models.utils.RepresentationToModel;
import org.keycloak.representations.idm.authorization.AbstractPolicyRepresentation;
import org.keycloak.representations.idm.authorization.ClientPolicyRepresentation;
import org.keycloak.representations.idm.authorization.GroupPolicyRepresentation;
import org.keycloak.representations.idm.authorization.GroupPolicyRepresentation.GroupDefinition;
import org.keycloak.representations.idm.authorization.JSPolicyRepresentation;
import org.keycloak.representations.idm.authorization.PolicyRepresentation;
import org.keycloak.representations.idm.authorization.RolePolicyRepresentation;
import org.keycloak.representations.idm.authorization.RolePolicyRepresentation.RoleDefinition;
import org.keycloak.representations.idm.authorization.UmaPermissionRepresentation;
import org.keycloak.representations.idm.authorization.UserPolicyRepresentation;

/**
 * @author Pedro Igor
 */
public class UMAPolicyProviderFactory implements PolicyProviderFactory<UmaPermissionRepresentation> {

 private UMAPolicyProvider provider = new UMAPolicyProvider();

 @Override
 public String getName() {
 return "UMA";
 }

 @Override
 public String getGroup() {
 return "Others";
 }

 @Override
 public boolean isInternal() {
 return true;
 }

 @Override
 public PolicyProvider create(AuthorizationProvider authorization) {
 return provider;
 }
}

```

```

@Override
public PolicyProvider create(KeycloakSession session) {
 return provider;
}

@Override
public void onCreate(Policy policy, UmaPermissionRepresentation representation, AuthorizationProvider
authorization) {
 policy.setOwner(representation.getOwner());
 PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();
 Set<String> roles = representation.getRoles();

 if (roles != null) {
 for (String role : roles) {
 createRolePolicy(policy, policyStore, role, representation.getOwner());
 }
 }

 Set<String> groups = representation.getGroups();

 if (groups != null) {
 for (String group : groups) {
 createGroupPolicy(policy, policyStore, group, representation.getOwner());
 }
 }

 Set<String> clients = representation.getClients();

 if (clients != null) {
 for (String client : clients) {
 createClientPolicy(policy, policyStore, client, representation.getOwner());
 }
 }

 Set<String> users = representation.getUsers();

 if (users != null) {
 for (String user : users) {
 createUserPolicy(policy, policyStore, user, representation.getOwner());
 }
 }

 String condition = representation.getCondition();

 if (condition != null) {
 createJSPolicy(policy, policyStore, condition, representation.getOwner());
 }
}

```

```

@Override
public void onUpdate(Policy policy, UmaPermissionRepresentation representation, AuthorizationProvider
authorization) {
 PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();
 Set<Policy> associatedPolicies = policy.getAssociatedPolicies();

 for (Policy associatedPolicy : associatedPolicies) {
 AbstractPolicyRepresentation associatedRep = ModelToRepresentation.toRepresentation(associatedPolicy,
authorization, false, false);

 if ("role".equals(associatedRep.getType())) {
 RolePolicyRepresentation rep = RolePolicyRepresentation.class.cast(associatedRep);

 rep.setRoles(new HashSet<>());

 Set<String> updatedRoles = representation.getRoles();

 if (updatedRoles != null) {
 for (String role : updatedRoles) {
 rep.addRole(role);
 }
 }

 if (rep.getRoles().isEmpty()) {
 policyStore.delete(associatedPolicy.getId());
 } else {
 RepresentationToModel.toModel(rep, authorization, associatedPolicy);
 }
 } else if ("js".equals(associatedRep.getType())) {
 JSPolicyRepresentation rep = JSPolicyRepresentation.class.cast(associatedRep);

 if (representation.getCondition() != null) {
 rep.setCode(representation.getCondition());
 RepresentationToModel.toModel(rep, authorization, associatedPolicy);
 } else {
 policyStore.delete(associatedPolicy.getId());
 }
 } else if ("group".equals(associatedRep.getType())) {
 GroupPolicyRepresentation rep = GroupPolicyRepresentation.class.cast(associatedRep);

 rep.setGroups(new HashSet<>());

 Set<String> updatedGroups = representation.getGroups();

 if (updatedGroups != null) {
 for (String group : updatedGroups) {
 rep.addGroupPath(group);
 }
 }
 }
 }
}

```

```

 }
}

if (rep.getGroups().isEmpty()) {
 policyStore.delete(associatedPolicy.getId());
} else {
 RepresentationToModel.toModel(rep, authorization, associatedPolicy);
}
} else if ("client".equals(associatedRep.getType())) {
 ClientPolicyRepresentation rep = ClientPolicyRepresentation.class.cast(associatedRep);

 rep.setClients(new HashSet<>());

 Set<String> updatedClients = representation.getClients();

 if (updatedClients != null) {
 for (String client : updatedClients) {
 rep.addClient(client);
 }
 }

 if (rep.getClients().isEmpty()) {
 policyStore.delete(associatedPolicy.getId());
 } else {
 RepresentationToModel.toModel(rep, authorization, associatedPolicy);
 }
} else if ("user".equals(associatedRep.getType())) {
 UserPolicyRepresentation rep = UserPolicyRepresentation.class.cast(associatedRep);

 rep.setUsers(new HashSet<>());

 Set<String> updatedUsers = representation.getUsers();

 if (updatedUsers != null) {
 for (String user : updatedUsers) {
 rep.addUser(user);
 }
 }

 if (rep.getUsers().isEmpty()) {
 policyStore.delete(associatedPolicy.getId());
 } else {
 RepresentationToModel.toModel(rep, authorization, associatedPolicy);
 }
}
}

Set<String> updatedRoles = representation.getRoles();

```



```

if (updatedRoles != null) {
 boolean createPolicy = true;

 for (Policy associatedPolicy : associatedPolicies) {
 if ("role".equals(associatedPolicy.getType())) {
 createPolicy = false;
 }
 }

 if (createPolicy) {
 for (String role : updatedRoles) {
 createRolePolicy(policy, policyStore, role, policy.getOwner());
 }
 }
}

Set<String> updatedGroups = representation.getGroups();

if (updatedGroups != null) {
 boolean createPolicy = true;

 for (Policy associatedPolicy : associatedPolicies) {
 if ("group".equals(associatedPolicy.getType())) {
 createPolicy = false;
 }
 }

 if (createPolicy) {
 for (String group : updatedGroups) {
 createGroupPolicy(policy, policyStore, group, policy.getOwner());
 }
 }
}

Set<String> updatedClients = representation.getClients();

if (updatedClients != null) {
 boolean createPolicy = true;

 for (Policy associatedPolicy : associatedPolicies) {
 if ("client".equals(associatedPolicy.getType())) {
 createPolicy = false;
 }
 }

 if (createPolicy) {
 for (String client : updatedClients) {

```

```

 createClientPolicy(policy, policyStore, client, policy.getOwner());
 }
}

Set<String> updatedUsers = representation.getUsers();

if (updatedUsers != null) {
 boolean createPolicy = true;

 for (Policy associatedPolicy : associatedPolicies) {
 if ("user".equals(associatedPolicy.getType())) {
 createPolicy = false;
 }
 }

 if (createPolicy) {
 for (String user : updatedUsers) {
 createUserPolicy(policy, policyStore, user, policy.getOwner());
 }
 }
}

String condition = representation.getCondition();

if (condition != null) {
 boolean createPolicy = true;

 for (Policy associatedPolicy : associatedPolicies) {
 if ("js".equals(associatedPolicy.getType())) {
 createPolicy = false;
 }
 }

 if (createPolicy) {
 createJSPolicy(policy, policyStore, condition, policy.getOwner());
 }
}

@Override
public void onImport(Policy policy, PolicyRepresentation representation, AuthorizationProvider authorization) {
}

@Override
public UmaPermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
 UmaPermissionRepresentation representation = new UmaPermissionRepresentation();
}

```

```

representation.setScopes(policy.getScopes().stream().map(Scope::getName).collect(Collectors.toSet()));
representation.setOwner(policy.getOwner());

for (Policy associatedPolicy : policy.getAssociatedPolicies()) {
 AbstractPolicyRepresentation associatedRep = ModelToRepresentation.toRepresentation(associatedPolicy,
authorization, false, false);
 RealmModel realm = authorization.getRealm();

 if ("role".equals(associatedRep.getType())) {
 RolePolicyRepresentation rep = RolePolicyRepresentation.class.cast(associatedRep);

 for (RoleDefinition definition : rep.getRoles()) {
 RoleModel role = realm.getRoleById(definition.getId());

 if (role.isClientRole()) {
representation.addClientRole(ClientModel.class.cast(role.getContainer()).getClientId(),role.getName());
 } else {
 representation.addRole(role.getName());
 }
 }
 } else if ("js".equals(associatedRep.getType())) {
 JSPolicyRepresentation rep = JSPolicyRepresentation.class.cast(associatedRep);
 representation.setCondition(rep.getCode());
 } else if ("group".equals(associatedRep.getType())) {
 GroupPolicyRepresentation rep = GroupPolicyRepresentation.class.cast(associatedRep);

 for (GroupDefinition definition : rep.getGroups()) {
representation.addGroup(ModelToRepresentation.buildGroupPath(realm.getGroupById(definition.getId())));
 }
 } else if ("client".equals(associatedRep.getType())) {
 ClientPolicyRepresentation rep = ClientPolicyRepresentation.class.cast(associatedRep);

 for (String client : rep.getClients()) {
 representation.addClient(realm.getClientById(client).getClientId());
 }
 } else if ("user".equals(associatedPolicy.getType())) {
 UserPolicyRepresentation rep = UserPolicyRepresentation.class.cast(associatedRep);

 for (String user : rep.getUsers()) {
 representation.addUser(authorization.getKeycloakSession().users().getUserById(user,
realm).getUsername());
 }
 }

 return representation;
}

```

```

@Override
public Class<UmaPermissionRepresentation> getRepresentationType() {
 return UmaPermissionRepresentation.class;
}

@Override
public void onRemove(Policy policy, AuthorizationProvider authorization) {
 PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();

 for (Policy associatedPolicy : policy.getAssociatedPolicies()) {
 policyStore.delete(associatedPolicy.getId());
 }
}

@Override
public void init(Config.Scope config) {

}

@Override
public void postInit(KeycloakSessionFactory factory) {

}

@Override
public void close() {

}

@Override
public String getId() {
 return "uma";
}

private void createJSPolicy(Policy policy, PolicyStore policyStore, String condition, String owner) {
 JSPolicyRepresentation rep = new JSPolicyRepresentation();

 rep.setName(KeycloakModelUtils.generateId());
 rep.setCode(condition);

 Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

 associatedPolicy.setOwner(owner);

 policy.addAssociatedPolicy(associatedPolicy);
}

private void createClientPolicy(Policy policy, PolicyStore policyStore, String client, String owner) {

```

```

ClientPolicyRepresentation rep = new ClientPolicyRepresentation();

rep.setName(KeycloakModelUtils.generateId());
rep.addClient(client);

Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

associatedPolicy.setOwner(owner);

policy.addAssociatedPolicy(associatedPolicy);
}

private void createGroupPolicy(Policy policy, PolicyStore policyStore, String group, String owner) {
 GroupPolicyRepresentation rep = new GroupPolicyRepresentation();

 rep.setName(KeycloakModelUtils.generateId());
 rep.addGroupPath(group);

 Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

 associatedPolicy.setOwner(owner);

 policy.addAssociatedPolicy(associatedPolicy);
}

private void createRolePolicy(Policy policy, PolicyStore policyStore, String role, String owner) {
 RolePolicyRepresentation rep = new RolePolicyRepresentation();

 rep.setName(KeycloakModelUtils.generateId());
 rep.addRole(role, false);

 Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

 associatedPolicy.setOwner(owner);

 policy.addAssociatedPolicy(associatedPolicy);
}

private void createUserPolicy(Policy policy, PolicyStore policyStore, String user, String owner) {
 UserPolicyRepresentation rep = new UserPolicyRepresentation();

 rep.setName(KeycloakModelUtils.generateId());
 rep.addUser(user);

 Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

 associatedPolicy.setOwner(owner);
}

```

```

 policy.addAssociatedPolicy(associatedPolicy);
}
}
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 */
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;

import java.util.HashMap;
import java.util.Map;

/**
 * @author Pedro Igor
 */
public class ScopePolicyProvider extends AbstractPermissionProvider {

 @Override
 public void evaluate(Evaluation evaluation) {
 DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
 Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
 Policy policy = defaultEvaluation.getParentPolicy();
 Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(policy, p -> new HashMap<>());
 ResourcePermission permission = evaluation.getPermission();

 Decision.Effect effect = decisions.get(permission);

 if (effect != null) {
 defaultEvaluation.setEffect(effect);
 }
 }
}

```

```

 return;
 }

 Decision.Effect decision = defaultEvaluation.getEffect();

 if (decision == null) {
 super.evaluate(evaluation);

 decisions.put(permission, defaultEvaluation.getEffect());
 }
}
}
}
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 */
package org.keycloak.authorization.policy.provider.permission;

import java.util.HashMap;
import java.util.Map;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.representations.idm.authorization.ResourcePermissionRepresentation;

/**
 * @author Pedro Igor
 */
public class ResourcePolicyProviderFactory implements
PolicyProviderFactory<ResourcePermissionRepresentation> {

```

```

private ResourcePolicyProvider provider = new ResourcePolicyProvider();

@Override
public String getName() {
 return "Resource-Based";
}

@Override
public String getGroup() {
 return "Permission";
}

@Override
public PolicyProvider create(AuthorizationProvider authorization) {
 return provider;
}

@Override
public Class<ResourcePermissionRepresentation> getRepresentationType() {
 return ResourcePermissionRepresentation.class;
}

@Override
public ResourcePermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
 ResourcePermissionRepresentation representation = new ResourcePermissionRepresentation();
 representation.setResourceType(policy.getConfig().get("defaultResourceType"));
 return representation;
}

@Override
public PolicyProvider create(KeycloakSession session) {
 return null;
}

@Override
public void onCreate(Policy policy, ResourcePermissionRepresentation representation, AuthorizationProvider
authorization) {
 updateResourceType(policy, representation);
}

@Override
public void onUpdate(Policy policy, ResourcePermissionRepresentation representation, AuthorizationProvider
authorization) {
 updateResourceType(policy, representation);
}

private void updateResourceType(Policy policy, ResourcePermissionRepresentation representation) {
 if (representation != null) {

```



```

//TODO: remove this check once we migrate to new API
if (ResourcePermissionRepresentation.class.equals(representation.getClass())) {
 ResourcePermissionRepresentation resourcePermission =
ResourcePermissionRepresentation.class.cast(representation);
 Map<String, String> config = new HashMap(policy.getConfig());

 config.compute("defaultResourceType", (key, value) -> {
 String resourceType = resourcePermission.getResourceType();
 return resourceType != null ? resourcePermission.getResourceType() : null;
 });

 policy.setConfig(config);

}
}
}

@Override
public void onRemove(Policy policy, AuthorizationProvider authorization) {

}

@Override
public void init(Config.Scope config) {

}

@Override
public void postInit(KeycloakSessionFactory factory) {

}

@Override
public void close() {

}

@Override
public String getId() {
 return "resource";
}
}
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```

```
*/
```

```
package org.keycloak.authorization.policy.provider.permission;
```

```
import org.keycloak.authorization.identity.Identity;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.Evaluation;
```

```
/**
```

```
* @author Pedro Igor
```

```
*/
```

```
public class UMAPolicyProvider extends AbstractPermissionProvider {
```

```
 @Override
```

```
 public void evaluate(Evaluation evaluation) {
```

```
 ResourcePermission permission = evaluation.getPermission();
```

```
 Resource resource = permission.getResource();
```

```
 if (resource != null) {
```

```
 Identity identity = evaluation.getContext().getIdentity();
```

```
 // no need to evaluate UMA permissions to resource owner resources
```

```
 if (resource.getOwner().equals(identity.getId())) {
```

```
 return;
```

```
 }
```

```
 }
```

```
 super.evaluate(evaluation);
```

```
 }
```

```
}
```

```
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```

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*/
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.representations.idm.authorization.ScopePermissionRepresentation;

/**
 * @author Pedro Igor
 */
public class ScopePolicyProviderFactory implements PolicyProviderFactory<ScopePermissionRepresentation> {

 private ScopePolicyProvider provider = new ScopePolicyProvider();

 @Override
 public String getName() {
 return "Scope-Based";
 }

 @Override
 public String getGroup() {
 return "Permission";
 }

 @Override
 public PolicyProvider create(AuthorizationProvider authorization) {
 return provider;
 }

 @Override
 public PolicyProvider create(KeycloakSession session) {
 return null;
 }

 @Override
 public Class<ScopePermissionRepresentation> getRepresentationType() {
 return ScopePermissionRepresentation.class;
 }
}

```

```

}

@Override
public ScopePermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
 return new ScopePermissionRepresentation();
}

@Override
public void init(Config.Scope config) {

}

@Override
public void postInit(KeycloakSessionFactory factory) {

}

@Override
public void close() {

}

@Override
public String getId() {
 return "scope";
}
}
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 */
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;

```

```

import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;
import org.keycloak.authorization.policy.provider.PolicyProvider;

import java.util.HashMap;
import java.util.Map;

/**
 * @author Pedro Igor
 */
public abstract class AbstractPermissionProvider implements PolicyProvider {

 @Override
 public void evaluate(Evaluation evaluation) {
 AuthorizationProvider authorization = evaluation.getAuthorizationProvider();
 DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
 Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
 Policy policy = evaluation.getPolicy();
 ResourcePermission permission = evaluation.getPermission();

 policy.getAssociatedPolicies().forEach(associatedPolicy -> {
 Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(associatedPolicy, p -> new
HashMap<>());
 Decision.Effect effect = decisions.get(permission);

 defaultEvaluation.setPolicy(associatedPolicy);

 if (effect == null) {
 PolicyProvider policyProvider = authorization.getProvider(associatedPolicy.getType());
 policyProvider.evaluate(defaultEvaluation);
 evaluation.denyIfNoEffect();
 decisions.put(permission, defaultEvaluation.getEffect());
 } else {
 defaultEvaluation.setEffect(effect);
 }
 });
 }

 @Override
 public void close() {

 }
}

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 */

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\*/

```
package org.keycloak.authorization.policy.provider.permission;
```

```
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;
```

```
import java.util.HashMap;
import java.util.Map;
```

/\*\*

\* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>

\*/

```
public class ResourcePolicyProvider extends AbstractPermissionProvider {
```

```
 @Override
```

```
 public void evaluate(Evaluation evaluation) {
```

```
 DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
```

```
 Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
```

```
 Policy policy = defaultEvaluation.getParentPolicy();
```

```
 Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(policy, p -> new HashMap<>());
```

```
 ResourcePermission permission = evaluation.getPermission();
```

```
 Decision.Effect effect = decisions.get(permission.getResource());
```

```
 if (effect != null) {
```

```
 defaultEvaluation.setEffect(effect);
```

```
 return;
```

```
 }
```

```
 super.evaluate(evaluation);
```

```
 decisions.put(permission.getResource(), defaultEvaluation.getEffect());
```

```
 }
```

```
}
```

# 1.302 package-config 0.1.5

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# 1.303 gson 2.8.2

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## 1.305 hibernate-core 5.3.6.Final

## 1.306 commons-lang3 3.5

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## 1.307 mod-cluster-load-spi 1.4.0.Final

## 1.308 jipijapa-eclipselink 14.0.1.Final

## 1.309 antlr-runtime 4.7.1

## 1.310 vertx-rx-java2 3.5.4

## 1.311 wagon-provider-api 3.0.0

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## 1.314 bean-validation-api 1.1.0.Final

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## 1.315 resteasy-json-binding-provider

### 3.6.1.Final

# 1.316 picketlink-federation 2.5.5.SP12

# 1.317 wildfly-config-gen 2.0.0.Final

# 1.318 artemis-jms-server 2.6.3.jbossorg-001

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## 1.319 saaj-impl 1.3.16-jbossorg-1

## 1.320 kie-api 7.11.0.Final

## 1.321 micrometer-registry-prometheus 1.1.0

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusDistributionSummary.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusNamingConvention.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusRenameFilter.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/package-info.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusTimer.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusCounter.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusConfig.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/MicrometerCollector.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1085033338_1598867685.69/0/micrometer-registry-prometheus-1-1-0-sources-1-
jar/io/micrometer/prometheus/PrometheusDurationNamingConvention.java
```

## 1.322 cxf-rt-wsdl 3.2.5-jbossorg-1

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 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
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<body text="#000000" bgcolor="#FFFFFF">
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\*/

package org.apache.cxf.io;

import java.io.IOException;  
import java.io.InputStream;

/\*\*

\* Marker interface for OutputStreams that can directly support

```
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
```

```
*/
```

```
public interface CopyingOutputStream {
```

```
 int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
##
```

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```

```
##
```

```
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
```

```
##
```

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#set ($apacheTxt = "The Apache Software License, Version 2.0")
```

```
#foreach ($project in $projects)
```

```
#foreach ($license in $project.licenses)
```

```
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
 License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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Version 1.1

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\*/

package org.apache.cxf.rs.security.oauth.data;

/\*\*

\* Base permission description which is visible to  
\* authorization handlers  
\* @see OAuthAuthorizationData

\*/

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;
```

```
 public Permission() {
```

```
}
```



```

public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
}

public String getDescription() {
 return description;
}

public void setDescription(String description) {
 this.description = description;
}

public String getPermission() {
 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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- (<http://www.w3.org/XML/1998/namespace>)

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- (<http://schemas.xmlsoap.org/ws/2004/08/addressing/>)
- (<http://schemas.xmlsoap.org/wsd/http>)
- (<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd>)
- (<http://www.w3.org/2005/08/addressing/ws-addr.xsd>)
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```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
```

```
size: 8.5in 11.0in;
margin: 0.25in 0.5in 0.25in 0.5in;
tab-interval: 0.5in;
}
p {
margin-left: auto;
margin-top: 0.5em;
margin-bottom: 0.5em;
}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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## 1.331 wildfly-clustering-jgroups-spi

### 14.0.1.Final

## 1.332 keycloak-js-adapter 4.8.3.Final

## 1.333 jboss-jaxrs-api-2-1-spec 1.0.1.Final

### 1.333.1 Available under license :

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# 1.334 netty-codec 4.1.24.Final

## 1.335 httpmime 4.5.2

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
```

```
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
```

```
<meta name="theme-color" content="#303284">
```

```
<title>Apache License, Version 2.0</title>
```

```
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
```

```
<link href="/css/min.bootstrap.css" rel="stylesheet">
```

```
<link href="/css/styles.css" rel="stylesheet">
```

```
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licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file
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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. -->
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
Toggle navigation
```

```

```

```

```

```

```

```
</button>
```

```

```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
About
```

```
<ul class="dropdown-menu" role="menu">
```

```
Overview
```

```
Members
```

```
Process
```

```
Sponsorship
```

```
Glossary
```

```
FAQ
```

```

 Contact

Projects
<li class="dropdown">
 People
 <ul class="dropdown-menu" role="menu">
 Overview
 Committers
 Meritocracy
 Roles
 Planet Apache

<li class="dropdown">
 Get Involved
 <ul class="dropdown-menu" role="menu">
 Overview
 Community Development
 Help Wanted
 ApacheCon

Download
<li class="dropdown">
 Support Apache
 <ul class="dropdown-menu" role="menu">
 Sponsorship
 Donations
 Buy Stuff
 Thanks

</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
 <div class="col-md-6 col-sm-5 col-xs-12">

 </div>
 <div class="col-md-3 col-sm-3 col-xs-6">


```

```


</div>
<div class="col-md-3 col-sm-4 col-xs-6">
 <div class="input-group" style="margin-bottom: 5px;">
 <script>
(function() {
 var cx = '005703438322411770421:5mgshgrgx2u';
 var gcse = document.createElement('script');
 gcse.type = 'text/javascript';
 gcse.async = true;
 gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
 '//cse.google.com/cse.js?cx=' + cx;
 var s = document.getElementsByTagName('script')[0];
 s.parentNode.insertBefore(gcse, s);
})();
</script>
 <gcse:searchbox-only></gcse:searchbox-only>
</div>
 The Apache Way
 <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute
 ASF Sponsors
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

<li><a href="/memorials/">Memorials</a></li>

</ul>

</div>

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
 <ul class="list-unstyled white" role="menu">
Incubator
Labs
Licensing
Licensing FAQ
Trademark Policy
Contacts

</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
 <ul class="list-unstyled white" role="menu">
Developer Information
Infrastructure
Security
Status
Contacts

</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
 <ul class="list-unstyled white" role="menu">
Overview
ASF News
Announcements
Twitter Feed
Contacts

</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
 <ul class="list-unstyled white" role="menu">
Legal Affairs
Licenses
Trademark Policy
Public Records
 Privacy Policy
Export Information
License/Distribution FAQ
Contacts

</div>
```

```

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
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</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
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```

## 1.336 stax-api 3.1.4

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## 1.338 wildfly-naming 14.0.1.Final

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- \*/

```
package org.wildfly.naming.java.permission;
```

```
import java.io.Serializable;
```

```
final class SerializedJndiPermission implements Serializable {
 private static final long serialVersionUID = - 7602123815143424767L;
```

```
 private final String name;
 private final String actions;
```

```
 SerializedJndiPermission(final String name, final String actions) {
```

```

 this.name = name;
 this.actions = actions;
 }

 Object readResolve() {
 return new JndiPermission(name, actions);
 }
}
/*
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 */

package org.wildfly.naming.java.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.concurrent.atomic.AtomicReference;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;

final class JndiPermissionCollection extends PermissionCollection {

 private static final long serialVersionUID = - 769684900128311150L;
 private static final JndiPermission[] NO_PERMISSIONS = new JndiPermission[0];

 private final AtomicReference<JndiPermission[]> permissions;

```

```

JndiPermissionCollection() {
 permissions = new AtomicReference<>(NO_PERMISSIONS);
}

JndiPermissionCollection(JndiPermission[] permissions) {
 Assert.checkNotNullParam("permissions", permissions);
 this.permissions = new AtomicReference<>(permissions);
}

public void add(final Permission permission) {
 if (isReadOnly()) {
 throw NamingLogger.ROOT_LOGGER.cannotAddToReadOnlyPermissionCollection();
 }
 if (! (permission instanceof JndiPermission)) {
 throw NamingLogger.ROOT_LOGGER.invalidPermission(permission);
 }
 final AtomicReference<JndiPermission[]> permissions = this.permissions;
 JndiPermission jndiPermission = (JndiPermission) permission;
 if (jndiPermission.getActionBits() == 0) {
 // no operation
 return;
 }
 JndiPermission[] oldVal;
 ArrayList<JndiPermission> newVal;
 boolean added = false;
 do {
 oldVal = permissions.get();
 newVal = new ArrayList<>(oldVal.length + 1);
 // first, test if it's in the set, or combine with any other permission with the same actions
 for (final JndiPermission testPerm : oldVal) {
 if (testPerm.implies(jndiPermission)) {
 // already in the set
 return;
 } else if (jndiPermission.implies(testPerm)) {
 // otherwise skip all other matches
 } else if (jndiPermission.getName().equals(testPerm.getName())) {
 // the two .implies() would have caught this condition
 assert jndiPermission.getActionBits() != testPerm.getActionBits();
 jndiPermission = jndiPermission.withActions(testPerm.getActionBits());
 // and skip it
 }
 }
 }
 for (final JndiPermission testPerm : oldVal) {
 if (! jndiPermission.implies(testPerm)) {
 newVal.add(testPerm);
 }
 }
 newVal.add(jndiPermission);
}

```

```

 } while (! permissions.compareAndSet(oldVal, newVal.toArray(NO_PERMISSIONS)));
}

public boolean implies(final Permission permission) {
 final JndiPermission[] jndiPermissions = permissions.get();
 for (JndiPermission jndiPermission : jndiPermissions) {
 if (jndiPermission.implies(permission)) {
 return true;
 }
 }
 return false;
}

public Enumeration<Permission> elements() {
 final JndiPermission[] jndiPermissions = permissions.get();
 return new Enumeration<Permission>() {
 int i;
 public boolean hasMoreElements() {
 return i < jndiPermissions.length;
 }

 public Permission nextElement() {
 return jndiPermissions[i++];
 }
 };
}

Object writeReplace() {
 return new SerializedJndiPermissionCollection(isReadOnly(), permissions.get());
}
}
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*/
```

```
package org.wildfly.naming.java.permission;

import java.util.Iterator;
import java.util.NoSuchElementException;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.iteration.CodePointIterator;

final class JndiPermissionNameParser {
 private JndiPermissionNameParser() {
 }

 static Iterator<String> nameIterator(final String string) {
 return new ParsingIterator(string);
 }

 static Iterator<String> segmentsIterator(String[] segments) {
 return new SegmentsIterator(segments);
 }

 static String[] toArray(Iterator<String> iter) {
 return toArray(iter, 0);
 }

 private static String[] toArray(final Iterator<String> iter, final int size) {
 if (iter.hasNext()) {
 String next = iter.next();
 String[] array = toArray(iter, size + 1);
 array[size] = next;
 return array;
 } else {
 return new String[size];
 }
 }

 static class SegmentsIterator implements Iterator<String> {
 private final String[] segments;
 private int idx;

 SegmentsIterator(final String[] segments) {
 this.segments = segments;
 }
 }
}
```



```

public boolean hasNext() {
 return idx < segments.length;
}

public String next() {
 return segments[idx ++];
}

String[] getSegments() {
 return segments;
}
}

static class ParsingIterator implements Iterator<String> {
 private final CodePointIterator cpi;
 private final StringBuilder b;
 private final String string;
 private boolean hasNext = true;

 ParsingIterator(final String string) {
 this.string = string;
 cpi = CodePointIterator.ofString(string);
 b = new StringBuilder();
 }

 public boolean hasNext() {
 return hasNext;
 }

 public String next() {
 if (! hasNext()) throw new NoSuchElementException();
 final StringBuilder b = this.b;
 final CodePointIterator cpi = this.cpi;
 int cp;
 while (cpi.hasNext()) {
 cp = cpi.next();
 if (cp == '\\') {
 // skip the next code point always
 if (! cpi.hasNext()) {
 throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
 }
 b.appendCodePoint(cpi.next());
 } else if (cp == "" || cp == "\") {
 int q = cp;
 if (! cpi.hasNext()) {
 throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
 }
 for (;) {

```

```

 cp = cpi.next();
 if (cp == '\\') {
 // skip the next code point always
 if (! cpi.hasNext()) {
 throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
 }
 b.appendCodePoint(cpi.next());
 } else if (cp == 'q') {
 break;
 } else {
 b.appendCodePoint(cp);
 }
 if (! cpi.hasNext()) {
 throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
 }
 }
} else if (cp == '/') {
 final String s = b.toString();
 b.setLength(0);
 return s;
} else {
 b.appendCodePoint(cp);
}
}
final String s = b.toString();
b.setLength(0);
hasNext = false;
return s;
}
}
}
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\*/

```
package org.wildfly.naming.java.permission;
```

```
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Iterator;
```

```
import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;
```

```
/**
```

```
* Permission to access an object within the "java:" JNDI namespace.
```

```
* <p>
```

```
* This permission does not span into bound nested contexts; such contexts may be governed by their own
permission scheme.
```

```
* <p>
```

```
* The { @code name } segment of the permission is a JNDI path whose segments are separated by { @code / }
characters. The
```

```
* name may be preceded with the string { @code java: } for compatibility with previous schemes. A name of
```

```
* { @code <<ALL BINDINGS>> } is translated to { @code - } for compatibility reasons.
```

```
*/
```

```
public final class JndiPermission extends Permission {
 private static final long serialVersionUID = 1272655825146515997L;
```

```
 private final int actionBits;
```

```
 private String actionString;
```

```
/**
```

```
* The bitwise encoding of the { @code bind } action.
```

```
*/
```

```
public static final int ACTION_BIND = 0b000000001;
```

```
/**
```

```
* The bitwise encoding of the { @code rebind } action.
```

```
*/
```

```
public static final int ACTION_REBIND = 0b000000010;
```

```
/**
```

```
* The bitwise encoding of the { @code unbind } action.
```

```
*/
```

```
public static final int ACTION_UNBIND = 0b000000100;
```

```
/**
```

```
* The bitwise encoding of the { @code lookup } action.
```

```
*/
```

```
public static final int ACTION_LOOKUP = 0b000001000;
```

```
/**
```

```

* The bitwise encoding of the {@code list} action.
*/
public static final int ACTION_LIST = 0b000010000;
/**
* The bitwise encoding of the {@code listBindings} action.
*/
public static final int ACTION_LIST_BINDINGS = 0b000100000;
/**
* The bitwise encoding of the {@code createSubcontext} action.
*/
public static final int ACTION_CREATE_SUBCONTEXT = 0b001000000;
/**
* The bitwise encoding of the {@code destroySubcontext} action.
*/
public static final int ACTION_DESTROY_SUBCONTEXT = 0b010000000;
/**
* The bitwise encoding of the {@code addNamingListener} action.
*/
public static final int ACTION_ADD_NAMING_LISTENER = 0b100000000;
/**
* The bitwise encoding of the {@code *} action. This value is the bitwise-OR of all of the other action bits.
*/
public static final int ACTION_ALL = 0b111111111;

/**
* Construct a new instance.
*
* @param name the path name (must not be {@code null})
* @param actions the actions (must not be {@code null})
*/
public JndiPermission(final String name, final String actions) {
 this(name, parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
* Construct a new instance using an action bitmask. If a bit in the mask falls outside of {@link
#ACTION_ALL}, it
* is stripped.
*
* @param name the path name (must not be {@code null})
* @param actionBits the action bits
*/
public JndiPermission(final String name, final int actionBits) {
 super(canonicalize1(Assert.checkNotNullParam("name", name)));
 this.actionBits = actionBits & ACTION_ALL;
}

/**

```

```

* Determine if this permission implies the other permission.
*
* @param permission the other permission
* @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
*/
public boolean implies(final Permission permission) {
 return permission instanceof JndiPermission && implies((JndiPermission) permission);
}

/**
* Determine if this permission implies the other permission.
*
* @param permission the other permission
* @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
*/
public boolean implies(final JndiPermission permission) {
 return permission != null && ((actionBits & permission.actionBits) == permission.actionBits) &&
impliesPath(permission.getName());
}

/**
* Determine if this permission implies the given {@code actions} on the given {@code name}.
*
* @param name the name (must not be {@code null})
* @param actions the actions (must not be {@code null})
* @return {@code true} if this permission implies the {@code actions} on the {@code name}, {@code false}
otherwise
*/
public boolean implies(final String name, final String actions) {
 return implies(name, parseActions(actions));
}

/**
* Determine if this permission implies the given {@code actionsBits} on the given {@code name}.
*
* @param name the name (must not be {@code null})
* @param actionBits the action bits
* @return {@code true} if this permission implies the {@code actionBits} on the {@code name}, {@code false}
otherwise
*/
public boolean implies(final String name, final int actionBits) {
 Assert.checkNotNullParam("name", name);
 final int maskedBits = actionBits & ACTION_ALL;
 return (this.actionBits & maskedBits) == maskedBits && impliesPath(name);
}

```

```

/**
 * Determine whether this object is equal to another.
 *
 * @param other the other object
 * @return {@code true} if they are equal, {@code false} otherwise
 */
public boolean equals(Object other) {
 return other instanceof JndiPermission && equals((JndiPermission)other);
}

/**
 * Determine whether this object is equal to another.
 *
 * @param other the other object
 * @return {@code true} if they are equal, {@code false} otherwise
 */
public boolean equals(JndiPermission other) {
 return this == other || other != null && getName().equals(other.getName()) && actionBits == other.actionBits;
}

/**
 * Get the hash code of this permission.
 *
 * @return the hash code of this permission
 */
public int hashCode() {
 return actionBits * 23 + getName().hashCode();
}

/**
 * Get the actions string. The actions string will be a canonical version of the one passed in at construction.
 *
 * @return the actions string (not {@code null})
 */
public String getActions() {
 final String actionString = this.actionString;
 if (actionString != null) {
 return actionString;
 }
 int actionBits = this.actionBits;
 if (actionBits == ACTION_ALL) {
 return this.actionString = "*";
 }
 int m = Integer.lowestOneBit(actionBits);
 if (m != 0) {
 StringBuilder b = new StringBuilder();
 b.append(getAction(m));
 actionBits &= ~m;
 }
}

```

```

 while (actionBits != 0) {
 m = Integer.lowestOneBit(actionBits);
 b.append(',').append(getAction(m));
 actionBits &= ~m;
 }
 return this.actionString = b.toString();
 } else {
 return this.actionString = "";
 }
}

/**
 * Get the action bits.
 *
 * @return the action bits
 */
public int getActionBits() {
 return actionBits;
}

/**
 * Return a permission which is equal to this one except with its actions reset to {@code actionBits}. If the given
 * {@code actionBits} equals the current bits of this permission, then this permission instance is returned;
otherwise
 * a new permission is constructed. Any action bits which fall outside of {@link #ACTION_ALL} are silently
ignored.
 *
 * @param actionBits the action bits to use
 * @return a permission with only the given action bits (not {@code null})
 */
public JndiPermission withNewActions(int actionBits) {
 actionBits &= ACTION_ALL;
 if (actionBits == this.actionBits) {
 return this;
 } else {
 return new JndiPermission(getName(), actionBits);
 }
}

/**
 * Return a permission which is equal to this one except with its actions reset to {@code actions}. If the given
 * {@code actions} equals the current actions of this permission, then this permission instance is returned;
otherwise
 * a new permission is constructed.
 *
 * @param actions the actions to use (must not be {@code null})
 * @return a permission with only the given action bits (not {@code null})
 */

```

```

public IndiPermission withNewActions(String actions) {
 return withNewActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Return a permission which is equal to this one except with additional action bits. If the given {@code
actionBits}
 * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
 * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
 *
 * @param actionBits the action bits to add
 * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
 */
public IndiPermission withActions(int actionBits) {
 return withNewActions(actionBits & ACTION_ALL | this.actionBits);
}

/**
 * Return a permission which is equal to this one except with additional actions. If the given {@code actionBits}
 * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
 *
 * @param actions the actions to add (must not be {@code null})
 * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
 */
public IndiPermission withActions(String actions) {
 return withActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Return a permission which is equal to this one except without some action bits. If the given {@code
actionBits}
 * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
 * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
 *
 * @param actionBits the action bits to remove
 * @return a permission with the given bits subtracted from this instance (not {@code null})
 */
public IndiPermission withoutActions(int actionBits) {
 return withNewActions(this.actionBits & ~(actionBits & ACTION_ALL));
}

/**
 * Return a permission which is equal to this one except without some actions. If the given {@code actions}
 * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
 *
 * @param actions the actions to remove (must not be {@code null})

```



```

* @return a permission with the given bits subtracted from this instance (not {@code null})
*/
public JndiPermission withoutActions(String actions) {
 return withoutActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Construct a new type-specific permission collection.
 *
 * @return the new permission collection instance (not {@code null})
 */
public PermissionCollection newPermissionCollection() {
 return new JndiPermissionCollection();
}

// semi-private

Object writeReplace() {
 return new SerializedJndiPermission(getName(), getActions());
}

boolean impliesPath(final String yourName) {
 return yourName.startsWith("java:") ? impliesPath0(yourName.substring(5)) : impliesPath0(yourName);
}

// private

private boolean impliesPath0(final String yourName) {
 // segment-by-segment comparison
 final String myName = getName();
 final Iterator<String> myIter = JndiPermissionNameParser.nameIterator(myName);
 final Iterator<String> yourIter = JndiPermissionNameParser.nameIterator(yourName);
 // even if it's just "", there is always a first element
 assert myIter.hasNext() && yourIter.hasNext();
 String myNext;
 String yourNext;
 for (;;) {
 myNext = myIter.next();
 yourNext = yourIter.next();
 if (myNext.equals("-")) {
 // "-" implies everything including ""
 return true;
 }
 if (! myNext.equals("*") && ! myNext.equals(yourNext)) {
 // "foo/bar" does not imply "foo/baz"
 return false;
 }
 }
 if (myIter.hasNext()) {

```

```

 if (! yourIter.hasNext()) {
 // "foo/bar" does not imply "foo"
 return false;
 }
 } else {
 // if neither has next, "foo/bar" implies "foo/bar", else "foo" does not imply "foo/bar"
 return ! yourIter.hasNext();
 }
}
}
}

```

```

private static String canonicalize1(String name) {
 Assert.checkNotNullParam("name", name);
 return name.equalsIgnoreCase("<<ALL BINDINGS>>") ? "-" : canonicalize2(name);
}

```

```

private static String canonicalize2(String name) {
 return name.startsWith("java:") ? name.substring(5) : name;
}

```

```

private static int parseActions(final String actionsString) {
 // TODO: switch to Elytron utility methods to do this
 int actions = 0;
 int pos = 0;
 int idx = actionsString.indexOf(',');
 for (;;) {
 String str;
 if (idx == -1) {
 str = actionsString.substring(pos, actionsString.length()).trim();
 if (! str.isEmpty()) actions |= parseAction(str);
 return actions;
 } else {
 str = actionsString.substring(pos, idx).trim();
 pos = idx + 1;
 if (! str.isEmpty()) actions |= parseAction(str);
 idx = actionsString.indexOf(',', pos);
 }
 }
}

```

```

private static int parseAction(final String str) {
 switch (str) {
 case "*":
 case "all": return ACTION_ALL;
 case "bind": return ACTION_BIND;
 case "rebind": return ACTION_REBIND;
 case "unbind": return ACTION_UNBIND;
 case "lookup": return ACTION_LOOKUP;
 }
}

```

```

 case "list": return ACTION_LIST;
 case "listBindings": return ACTION_LIST_BINDINGS;
 case "createSubcontext": return ACTION_CREATE_SUBCONTEXT;
 case "destroySubcontext": return ACTION_DESTROY_SUBCONTEXT;
 case "addNamingListener": return ACTION_ADD_NAMING_LISTENER;
 default: {
 throw NamingLogger.ROOT_LOGGER.invalidPermissionAction(str);
 }
}
}

private String getAction(final int bit) {
 switch (bit) {
 case ACTION_BIND: return "bind";
 case ACTION_REBIND: return "rebind";
 case ACTION_UNBIND: return "unbind";
 case ACTION_LOOKUP: return "lookup";
 case ACTION_LIST: return "list";
 case ACTION_LIST_BINDINGS: return "listBindings";
 case ACTION_CREATE_SUBCONTEXT: return "createSubcontext";
 case ACTION_DESTROY_SUBCONTEXT: return "destroySubcontext";
 case ACTION_ADD_NAMING_LISTENER: return "addNamingListener";
 default: throw Assert.impossibleSwitchCase(bit);
 }
}
}
}
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 */

```

```

package org.wildfly.naming.java.permission;

import java.io.Serializable;

class SerializedJndiPermissionCollection implements Serializable {

 private static final long serialVersionUID = 315106751231586701L;

 private final boolean readOnly;
 private final JndiPermission[] permissions;

 SerializedJndiPermissionCollection(final boolean readOnly, final JndiPermission[] permissions) {
 this.readOnly = readOnly;
 this.permissions = permissions;
 }

 Object readResolve() {
 final JndiPermissionCollection collection = new JndiPermissionCollection(permissions);
 if (readOnly) collection.setReadOnly();
 return collection;
 }
}

```

## 1.339 wildfly-platform-mbean 6.0.2.Final

## 1.340 color-support 1.1.3

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# 1.342 restat-api 5.9.0.Final

# 1.343 jbossws-cxf-server 5.2.3.Final

# 1.344 picketlink-idm-simple-schema 2.5.5.SP12

# 1.345 go-crypto

# 9419663f5a44be8b34ca85f08abc5fe1be11f8a3

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## 1.346 comh2database 1.4.199

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```

```
<!--
```

```
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```

```
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```

```
-->
```

```
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
```

```
<head><meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```

<meta name="viewport" content="width=device-width, initial-scale=1" />
<title>
License
</title>
<link rel="stylesheet" type="text/css" href="stylesheet.css" />
<!-- [search] { -->
<script type="text/javascript" src="navigation.js"></script>
</head><body onload="frameMe();">
<table class="content"><tr class="content"><td class="content"><div class="contentDiv">
<!-- } -->

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## 1.348 bcprov-jdk15on 1.60

## 1.349 wildfly-system-jmx 14.0.1.Final

## 1.350 keycloak-wildfly-extensions 4.8.3.Final

## 1.351 wildfly-jacorb 14.0.1.Final

## 1.352 artemis-selector 2.6.3.jbossorg-001

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## 1.354 netty-all 4.1.25.Final

## 1.355 wildfly-cli 6.0.2.Final

## 1.356 wildfly-jmx 6.0.2.Final

## 1.357 http-multi-server 2.0.3

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1.359 archive 2.0.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.360 websocket-driver 0.7.0

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1.361 resteasy-client-microprofile 3.6.1.Final

1.362 vertx-auth-common 3.5.4

1.363 mime-type 0.1.8

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```
<!DOCTYPE html>
```

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<html>
```

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<head>
```

```
<title>MIT LICENSE</title>
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```
</head>
```

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<body>
```

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<h3>
```

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LICENSE
```

```
</h3>
```

```
<p id="text">
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```
<pre>
```

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</pre>  
</p>  
</body>  
</html>
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1.364 cxf-core 3.2.5-jbossorg-1

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

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```

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package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream.  OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}
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##
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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#foreach ( $project in $projects )
#foreach ( $license in $project.licenses)

```

```
#if ( ! ($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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*/
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }
}

```

```

}

public boolean isDefault() {
    return isDefault;
}
}

```

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- (<http://www.w3.org/XML/1998/namespace>)

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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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jar/javax/annotation/concurrent/Immutable.java  
* /opt/ws_local/PERMITS_SQL/1085033314_1598867737.41/0/jsr305-3-0-1-sources-1-  
jar/javax/annotation/concurrent/NotThreadSafe.java  
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1.375 commons-pool 2.7.0

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```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

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<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
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import java.io.IOException;
 import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
 public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

 }
 }

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##  
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $  
##
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#set ( $apacheTxt = "The Apache Software License, Version 2.0" )
```

```
#foreach ( $project in $projects )
```

```

foreach ( $license in $project.licenses)
  if ( ! ($apacheTxt == $license.name) )

$project.name #if ($project.url)($project.url)#end $project.artifact
  License: $license.name #if ($license.url) ($license.url)#end

#end
#end
#end
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```

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```

```

package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {

```

```
    return isDefault;
}
}
```

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- (<http://schemas.xmlsoap.org/wsd/http>)
- (<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd>)
- (<http://www.w3.org/2005/08/addressing/ws-addr.xsd>)
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body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
}
```

</style>

</head>

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1.404 jose-jwt 3.6.1.Final

1.405 iterall 1.2.2

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1.406 jaxb-core 2.3.0

1.407 system-info 0.0.16

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1.408 infinispn-cachestore-jdbc 9.3.1.Final

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1.409 msgpack-core 0.8.16

1.410 resteasy-validator-provider-11

3.6.1.Final

1.411 os-locale 1.4.0

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1.412 ironjacamar-common-impl 1.4.11.Final

1.413 eventsource 0.1.6

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1.414 wildfly-microprofile-opentracing-extension 14.0.1.Final

1.415 wildfly-controller 6.0.2.Final

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 */
```

```
package org.jboss.as.controller.access.permission;
```

```
import java.security.PermissionCollection;
```

```
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access Caller;
import org.jboss.as.controller.access.Environment;
import org.jboss.as.controller.access.JmxAction;
import org.jboss.as.controller.access.JmxTarget;
import org.jboss.as.controller.access.TargetAttribute;
import org.jboss.as.controller.access.TargetResource;
```

```
/**
 * Factory for a compatible set of permissions. Implementations must ensure that the permissions returned
 * by the { @code getUserPermissions } methods are compatible with the permissions returned by the
 * { @code getRequiredPermissions } methods. Compatible means the user permissions can correctly
 * evaluate whether they
 * { @link java.security.Permission#implies(java.security.Permission) } imply the required permissions }
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
```

```
public interface PermissionFactory {
```

```
    PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, Action action,
    TargetAttribute target);
```

```
PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, Action action, TargetResource target);
```

```
PermissionCollection getRequiredPermissions(Action action, TargetAttribute target);
```

```
PermissionCollection getRequiredPermissions(Action action, TargetResource target);
```

```
PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, JmxAction action, JmxTarget target);
```

```
PermissionCollection getRequiredPermissions(JmxAction action, JmxTarget target);
```

```
}
```

```
/*
```

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```
*/
```

```
package org.jboss.as.controller.access.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
import java.util.Collections;
```

```
import java.util.Enumeration;
```

```
import java.util.Set;
```

```
import org.jboss.as.controller.ControlledProcessState;
```

```
import org.jboss.as.controller.PathAddress;
```

```
import org.jboss.as.controller.access.Action;
```

```
import org.jboss.as.controller.access.AuthorizationResult;
```

```
import org.jboss.as.controller.access.Authorizer;
```



```

import org.jboss.as.controller.access.Caller;
import org.jboss.as.controller.access.Environment;
import org.jboss.as.controller.access.JmxAction;
import org.jboss.as.controller.access.JmxTarget;
import org.jboss.as.controller.access.TargetAttribute;
import org.jboss.as.controller.access.TargetResource;
import org.jboss.as.controller.descriptions.ModelDescriptionConstants;
import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.dmr.ModelNode;

/**
 * {@link Authorizer} based on {@link ManagementPermission}s configured by a {@link PermissionFactory}.
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public class ManagementPermissionAuthorizer implements Authorizer {
    private final PermissionFactory permissionFactory;

    public ManagementPermissionAuthorizer(PermissionFactory permissionFactory) {
        this.permissionFactory = permissionFactory;
    }

    @Override
    public AuthorizerDescription getDescription() {
        // We go ahead and create this each time because we expect this to be overridden anyway
        return new AuthorizerDescription() {
            @Override
            public boolean isRoleBased() {
                return true;
            }

            @Override
            public Set<String> getStandardRoles() {
                return Collections.emptySet();
            }
        };
    }

    @Override
    public AuthorizationResult authorize(Caller caller, Environment callEnvironment, Action action, TargetAttribute
target) {
        assert assertSameAddress(action, target.getTargetResource());
        if (isServerBooting(callEnvironment)) {
            return AuthorizationResult.PERMITTED;
        }
        PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
        PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);

```

```

    return authorize(userPerms, requiredPerms);
}

@Override
public AuthorizationResult authorize(Caller caller, Environment callEnvironment, Action action, TargetResource
target) {
    assert assertSameAddress(action, target);
    if (isServerBooting(callEnvironment)) {
        return AuthorizationResult.PERMITTED;
    }
    PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
    if (userPerms == AllPermissionsCollection.INSTANCE) {
        return AuthorizationResult.PERMITTED;
    }
    PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
    return authorize(userPerms, requiredPerms);
}

private static boolean assertSameAddress(Action action, TargetResource target) {
    ModelNode operation = action.getOperation();
    // operation can be null in some unit tests; to be lazy ignore those cases
    return operation == null ||
target.getResourceAddress().equals(PathAddress.pathAddress(operation.get(ModelDescriptionConstants.OP_ADD
R)));
}

private AuthorizationResult authorize(PermissionCollection userPermissions, PermissionCollection
requiredPermissions) {

    final Enumeration<Permission> enumeration = requiredPermissions.elements();
    while (enumeration.hasMoreElements()){
        Permission requiredPermission = enumeration.nextElement();
        if (!userPermissions.implies(requiredPermission)) {
            return new AuthorizationResult(AuthorizationResult.Decision.DENY,
                new ModelNode(ControllerLogger.ROOT_LOGGER.permissionDenied()));
        }
    }
    return AuthorizationResult.PERMITTED;
}

@Override
public AuthorizationResult authorizeJmxOperation(Caller caller, Environment callEnvironment, JmxAction
action, JmxTarget target) {
    if (isServerBooting(callEnvironment)) {
        return AuthorizationResult.PERMITTED;
    }
    PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,

```

```

target);
    PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
    return authorize(userPerms, requiredPerms);
}

@Override
public Set<String> getCallerRoles(Caller caller, Environment callEnvironment, Set<String> runAsRoles) {
    // Not supported in this base class; see StandardRBACAuthorizer
    return null;
}

private boolean isServerBooting(Environment callEnvironment) {
    return callEnvironment != null && callEnvironment.getProcessState() ==
ControlledProcessState.State.STARTING;
}
}
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*/

package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.security.PermissionCollection;

import org.jboss.as.controller.access.Action;

/**
* Base class for { @link Permission } implementations related to WildFly access control.
*

```

```

* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public abstract class ManagementPermission extends Permission {

    private final Action.ActionEffect actionEffect;

    /**
     * Constructs a permission with the specified name and action effect.
     */
    ManagementPermission(String name, Action.ActionEffect actionEffect) {
        super(name);
        this.actionEffect = actionEffect;
    }

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

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;

        ManagementPermission that = (ManagementPermission) o;

        return actionEffect == that.actionEffect;
    }

    @Override
    public int hashCode() {
        return actionEffect.hashCode();
    }

    @Override
    public String getActions() {
        return actionEffect.toString();
    }

    public Action.ActionEffect getActionEffect() {
        return actionEffect;
    }
}
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 */

```
package org.jboss.as.controller.access.permission;
```

```
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;
```

```
import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
```

```
/**
```

```
* { @link PermissionCollection } for use with { @link ManagementPermission }. It's homogeneous.
```

```
*
```

```
* @author Brian Stansberry (c) 2013 Red Hat Inc.
```

```
*/
```

```
public class ManagementPermissionCollection extends PermissionCollection {
```

```
    private final Class<? extends ManagementPermission> type;
```

```
    private final String name;
```

```
    private final Map<Action.ActionEffect, ManagementPermission> permissions = new  
    HashMap<Action.ActionEffect, ManagementPermission>();
```

```
    public ManagementPermissionCollection(Class<? extends ManagementPermission> type) {  
        this(null, type);  
    }
```

```
    public ManagementPermissionCollection(String name, Class<? extends ManagementPermission> type) {
```

```

    this.name = name;
    this.type = type;
}

@Override
public void add(Permission permission) {
    if (isReadOnly()) {
        throw ControllerLogger.ROOT_LOGGER.permissionCollectionIsReadOnly();
    }

    if (type.equals(permission.getClass())) {
        ManagementPermission mperm = (ManagementPermission) permission;
        synchronized (permissions) {
            permissions.put(mperm.getActionEffect(), mperm);
        }
    } else {
        throw ControllerLogger.ROOT_LOGGER.incompatiblePermissionType(permission.getClass());
    }
}

@Override
public boolean implies(Permission permission) {
    if (permission instanceof ManagementPermission) {
        ManagementPermission mperm = (ManagementPermission) permission;
        Action.ActionEffect actionEffect = mperm.getActionEffect();
        ManagementPermission provided;
        synchronized (permissions) {
            provided = permissions.get(actionEffect);
        }
        if (provided == null) {
            ControllerLogger.ACCESS_LOGGER.tracef("Permission collection '%s' does not provide a permission for
%s", name, actionEffect);
            return false;
        } else if (!provided.implies(mperm)) {
            ControllerLogger.ACCESS_LOGGER.tracef("Permission provided in collection '%s' for action %s does
not imply the requested permission", name, actionEffect);
            return false;
        }
        return true;
    }
    ControllerLogger.ACCESS_LOGGER.tracef("Permission collection %s does not imply %s as it is not a
ManagementPermission", name, permission);
    return false;
}

@Override
public Enumeration<Permission> elements() {
    final Iterator<ManagementPermission> iterator = iterator();

```

```

return new Enumeration<Permission>() {
    @Override
    public boolean hasMoreElements() {
        return iterator.hasNext();
    }

    @Override
    public Permission nextElement() {
        return iterator.next();
    }
};
}

public String getName() {
    return name;
}

private Iterator<ManagementPermission> iterator() {
    synchronized (permissions) {
        return permissions.values().iterator();
    }
}
}
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*/

package org.jboss.as.controller.access.permission;

import java.security.Permission;

```

```

import java.util.HashMap;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.CombinationPolicy;

/**
 * A {@link ManagementPermission} that combines multiple underlying permissions according
 * to a {@link org.jboss.as.controller.access.CombinationPolicy}.
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public class CombinationManagementPermission extends ManagementPermission {

    private final CombinationPolicy combinationPolicy;
    private final Map<String, ManagementPermission> underlyingPermissions = new HashMap<String,
ManagementPermission>();

    public CombinationManagementPermission(CombinationPolicy combinationPolicy, Action.ActionEffect
actionEffect) {
        super("CombinationManagementPermission", actionEffect);
        this.combinationPolicy = combinationPolicy;
    }

    /**
     * Adds a permission.
     * <p>
     * This method should not be called after the instance has been made visible to another thread
     * than the one that constructed it.
     * </p>
     * @param permissionName name of the permission to add. Cannot be {@code null}
     * @param underlyingPermission the permission. Cannot be {@code null}
     */
    public void addUnderlyingPermission(String permissionName, ManagementPermission underlyingPermission) {
        assert underlyingPermission.getActionEffect() == getActionEffect() : "incompatible ActionEffect";
        if (combinationPolicy == CombinationPolicy.REJECTING && underlyingPermissions.size() > 0) {
            throw ControllerLogger.ROOT_LOGGER.illegalMultipleRoles();
        }
        underlyingPermissions.put(permissionName, underlyingPermission);
    }

    @Override
    public String getActions() {
        Set<Action.ActionEffect> effects = new TreeSet<Action.ActionEffect>();
        for (ManagementPermission permission : underlyingPermissions.values()) {

```



```

        effects.add(permission.getActionEffect());
    }
    boolean first = true;
    StringBuilder sb = new StringBuilder();
    for (Action.ActionEffect effect : effects) {
        if (!first) {
            sb.append(',');
        } else {
            first = false;
        }
        sb.append(effect.toString());
    }
    return sb.toString();
}

@Override
public boolean implies(Permission permission) {
    if (combinationPolicy == CombinationPolicy.PERMISSIVE) {
        for (ManagementPermission underlying : underlyingPermissions.values()) {
            if (underlying.implies(permission)) {
                return true;
            }
        }
        if (ControllerLogger.ACCESS_LOGGER.isTraceEnabled()) {
            ControllerLogger.ACCESS_LOGGER.tracef("None of the underlying permissions %s imply %s",
underlyingPermissions.keySet(), permission);
        }
        return false;
    } else {
        for (Map.Entry<String, ManagementPermission> underlying : underlyingPermissions.entrySet()) {
            if (!underlying.getValue().implies(permission)) {
                ControllerLogger.ACCESS_LOGGER.tracef("Underlying permission %s does not imply %s",
underlying.getKey(), permission);
                return false;
            }
        }
        return true;
    }
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    CombinationManagementPermission that = (CombinationManagementPermission) o;

```

```

// TODO I believe that actionEffect should be taken into account here (and in hashCode)

return combinationPolicy == that.combinationPolicy &&
underlyingPermissions.equals(that.underlyingPermissions);

}

@Override
public int hashCode() {
    int result = combinationPolicy.hashCode();
    result = 31 * result + underlyingPermissions.hashCode();
    return result;
}
}
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package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.util.List;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.constraint.Constraint;

/**
 * Simple implementation of { @link ManagementPermission }.
 */

```

```

* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public class SimpleManagementPermission extends ManagementPermission {

    private final Constraint[] constraints;
    /**
     * Constructs a permission with the specified name.
     */
    public SimpleManagementPermission(Action.ActionEffect actionEffect, List<Constraint> constraints) {
        this(actionEffect, constraints.toArray(new Constraint[constraints.size()]));
    }

    public SimpleManagementPermission(Action.ActionEffect actionEffect, Constraint... constraints) {
        super("SimpleManagementPermission", actionEffect);
        this.constraints = constraints;
    }

    @Override
    public boolean implies(Permission permission) {
        if (equals(permission)) {
            SimpleManagementPermission other = (SimpleManagementPermission) permission;
            // Validate constraints
            assert constraints.length == other.constraints.length : String.format("incompatible ManagementPermission; "
+
                "differing constraint counts %d vs %d", constraints.length, other.constraints.length);
            Action.ActionEffect actionEffect = getActionEffect();
            for (int i = 0; i < constraints.length; i++) {
                Constraint ours = constraints[i];
                Constraint theirs = other.constraints[i];
                assert ours.getClass() == theirs.getClass() : "incompatible constraints: ours = " + ours.getClass() + " --
theirs = " + theirs.getClass();
                if (ours.violates(theirs, actionEffect)) {
                    ControllerLogger.ACCESS_LOGGER.tracef("Constraints are violated for %s", actionEffect);
                    return false;
                }
            }
            return true;
        }
        return false;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;

        ManagementPermission that = (ManagementPermission) o;

```

```

        return getActionEffect() == that.getActionEffect();

    }

    @Override
    public int hashCode() {
        return getActionEffect().hashCode();
    }

    @Override
    public String getActions() {
        return getActionEffect().toString();
    }

    public ManagementPermission createScopedPermission(Constraint constraint, int constraintIndex) {
        Constraint[] altered;
        if (constraintIndex == constraints.length) {
            altered = new Constraint[constraintIndex + 1];
            System.arraycopy(constraints, 0, altered, 0, constraints.length);
        } else {
            Constraint existing = constraints[constraintIndex];
            if (constraint.replaces(existing)) {
                altered = new Constraint[constraints.length];
                System.arraycopy(constraints, 0, altered, 0, constraints.length);
            } else {
                altered = new Constraint[constraintIndex + 1];
                if (constraintIndex == 0) {
                    System.arraycopy(constraints, 0, altered, 1, constraints.length);
                } else {
                    System.arraycopy(constraints, 0, altered, 0, constraintIndex);
                    System.arraycopy(constraints, constraintIndex, altered, constraintIndex + 1, constraints.length -
constraintIndex);
                }
            }
        }
        altered[constraintIndex] = constraint;
        return new SimpleManagementPermission(getActionEffect(), altered);
    }
}
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```

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*/

```

```
package org.jboss.as.controller.access.permission;
```

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

```
/**
```

```
* { @link PermissionCollection } that implies all permissions.
```

```
*
```

```
* @author Brian Stansberry (c) 2013 Red Hat Inc.
```

```
*/
```

```
public final class AllPermissionsCollection extends PermissionCollection {
```

```
    public static final AllPermissionsCollection INSTANCE = new AllPermissionsCollection();
```

```
    private AllPermissionsCollection() {
    }

```

```
    @Override
```

```
    public void add(Permission permission) {
        throw new UnsupportedOperationException();
    }

```

```
    @Override
```

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

```

```
    @Override
```

```
    public Enumeration<Permission> elements() {
        throw new UnsupportedOperationException();
    }
}

```

1.416 airline 0.7

1.417 msgpack-core 0.8.17

1.418 jackson-jaxrs-json-provider 2.9.5

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1.419 resteasy-atom-provider 3.6.1.Final

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1.421 dslink-alarm 1.12.0

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1.423 netty-resolver 4.1.24.Final

1.424 path-is-absolute 1.0.1

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1.428 annotations 13.0

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14.0.1.Final**

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1.435 identity-spi 5.0.3.Final

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
```

```
* authorization handlers
```

```
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
```

```
    private String permission;
```

```
    private String description;
```

```
    private boolean isDefault;
```

```
    public Permission() {
```

```
    }
```

```
    public Permission(String permission, String description) {
```

```
        this.description = description;
```

```
        this.permission = permission;
```

```
    }
```

```
    public String getDescription() {
```

```
        return description;
```

```
    }
```

```
    public void setDescription(String description) {
```

```
        this.description = description;
```

```
    }
```

```
    public String getPermission() {
```

```
        return permission;
```

```
    }
```

```
    public void setPermission(String permission) {
```

```
        this.permission = permission;
```

```
    }
```

```
/**
```

```
* Indicates that this permission has been allocated by default.
```

```
* Authorization View handlers may use this property in order to restrict
```

```
* the list of scopes which may be refused to non-default scopes only
```

```
* @param isDefault
```



```

*/
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}
}
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##
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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```

```
#foreach ( $project in $projects )
#foreach ( $license in $project.licenses)
#if ( ! ($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
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- */

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
```

```
<title>Eclipse Public License - Version 1.0</title>
```

```
<style type="text/css">
```

```
body {
```

```
    size: 8.5in 11.0in;
```

```
    margin: 0.25in 0.5in 0.25in 0.5in;
```

```
    tab-interval: 0.5in;
```

```
}
```

```
p {
```

```
    margin-left: auto;
```

```
    margin-top: 0.5em;
```

```
    margin-bottom: 0.5em;
```

```
}
```

```
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
<h2>Eclipse Public License - v 1.0</h2>
```

```
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```

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Version 1.1

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1.439 kie-soup-project-datamodel-api

7.11.0.Final

1.440 jboss-iiop-client 1.0.1.Final

1.441 artemis-server 2.6.3.jbossorg-001

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1.442 number-is-nan 1.0.1

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1.443 maven-settings-builder 3.3.9

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1.444 opensaml-saml-api 3.3.0

1.445 authorization-spi 5.0.3.Final

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package org.jboss.security.authorization;

/**
 * <p>
 * Marker interface for permission objects.
 * </p>
 *
 * @author <a href="mailto:sguilhen@redhat.com">Stefan Guilhen</a>
 */
public interface Permission
{

}

```

1.446 wildfly-security-manager 6.0.2.Final

1.447 jpipahibernate 14.0.1.Final

1.448 jcommander 1.78

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* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-jar/com/beust/jcommander/UnixStyleUsageFormatter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-jar/com/beust/jcommander/DefaultUsageFormatter.java

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* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-jar/com/beust/jcommander/validators/NoValidator.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-jar/com/beust/jcommander/IPParameterValidator2.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-jar/com/beust/jcommander/IPParameterValidator.java

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```
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/ParameterDescription.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/DoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/ParameterException.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/CharArrayConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/ResourceBundle.java
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jar/com/beust/jcommander/IDefaultProvider.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/NoConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/Parameters.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/InetAddressConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/Parameter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/internal/Lists.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/LongConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
```

jar/com/beust/jcommander/MissingCommandException.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/URLConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/BooleanConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/ParametersDelegate.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/IStringConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/FloatConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/internal/Maps.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/IntegerConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/StringConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/URICConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/internal/Sets.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/BaseConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/ISO8601DateConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/BigDecimalConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/PathConverter.java
* /opt/ws_local/PERMITS_SQL/1084579631_1598535177.74/0/jcommander-1-78-sources-1-
jar/com/beust/jcommander/converters/FileConverter.java

1.449 jboss-modules 1.7.0.Final

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1.450 boost 1.69.0

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```
<!DOCTYPE html>
```

```
<html>
```

```
<head></head>
```

```
<body>
```

```
<h3>
```

```
    Copyright Test
```

```
</h3>
```

```
<p class="copyright">
```

```
    1963, 1964, 1965 Jane Doe
```

```
</p>
```

```
<p class="copyright">
```

```
    2018 Joe Blow, John Coe
```

```
</p>
```

```
<p class="copyright">
```

```
    1977, 1985 Someone else
```

```
</p>
```

```
</body>
```

```
</html>
```

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```

```
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```

```
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```

```
#include <boost/mpl/fold.hpp>
```

```
#include <boost/mpl/push_back.hpp>
```

```
#include <boost/mpl/quote.hpp>
```

```
#include <boost/mpl/vector.hpp>
```

```
template <typename State, typename X>
```

```
struct f { using type = X; };
```

```
struct state { };
```

```
template <int i>
```

```
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;
```

```
int main() { }
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title><no title> &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
```

```

<link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    './',
    VERSION:    '0.6',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE:  true,
    SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="index" title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" ></a>
<a accesskey="u" href="doc/index.html"></a>
<a accesskey="h" href="doc/index.html"></a>
<a accesskey="n" ></a>
</div>

<div class="document">
<div class="chapter">
    <div class="body" role="main">

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```


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```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
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    <p>Distributed under the Boost Software License, Version 1.0.
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    <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
```

[=====]

Boost.Geometry (aka GGL, Generic Geometry Library)

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=====]

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`. This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

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 Dossier (dossier@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(agc@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.)

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```

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```

```
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```

```
#include <boost/mpl/push_back.hpp>
```

```
#include <boost/mpl/vector.hpp>
```

```
template <int i>
```

```
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
int main() { }
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
```

```
<link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
```

```
<link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    './..',
```

```
    VERSION:    '0.6',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true,
```

```
    SOURCELINK_SUFFIX: '.txt'
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="../../_static/jquery.js"></script>
```

```
<script type="text/javascript" src="../../_static/underscore.js"></script>
```

```
<script type="text/javascript" src="../../_static/doctools.js"></script>
```

```
<link rel="index" title="Index" href="../../genindex.html" />
```

```
<link rel="search" title="Search" href="../../search.html" />
```

```
<link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
```

```
</head>
```

```
<body role="document">
```

```
<table cellpadding="2" width="100%"><tr>
```

```
<td valign="top"></td>
```

```
</tr></table>
```

```
<div class="spirit-nav">
<a accesskey="p" href="acknowledgements.html"></a>
<a accesskey="u" href="../index.html"></a>
<a accesskey="h" href="../index.html"></a>
<a accesskey="n" ></a>
</div>
```

```
<div class="document">
<div class="chapter">
<div class="body" role="main">
```

```
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```

```
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```

```
    (http://www.boost.org/LICENSE\_1\_0.txt)
```

```
--><div class="section" id="license">
```

```
<h1>License<a class="headerlink" href="#license" title="Permalink to this headline"></a></h1>
```

```
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```

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```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="clearer"></div>
```

```
</div>
```

```
<div class="footer" role="contentinfo">
```

```
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
```

```
<td align="left"></td>
```

```
<td align="right"><div class="copyright-footer">
```

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`target="_top">http://www.boost.org/LICENSE_1_0.txt</code>`

</p>

</div></td>

</tr></table>

</div>

</body>

</html>

```
#!/usr/bin/env python
```

```
from subprocess import check_output as run
```

```
from datetime import datetime
```

```
from itertools import groupby
```

```
from operator import itemgetter
```

```
import re
```

```
import magic
```

```
def authors(filename):
```

```
    log = run(['git', 'log', '--follow',  
             '--date=short', '--format=%aN%x09%ad', filename],  
            universal_newlines=True)
```

```
    for line in log.splitlines():
```

```
        author, date = line.split('\t')
```

```
        if author != 'fix-copyright.py':
```

```
            yield author, datetime.strptime(date, '%Y-%m-%d')
```

```
def new_copyright(filename, previous):
```

```
    def f():
```

```
        au = list(authors(filename))
```

```
        alldates = map(itemgetter(1), au)
```

```
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
```

```
        for author, records in groupby(aup, itemgetter(0)):
```

```
            dates = filter(None, map(itemgetter(1), records))
```

```
            if not dates: dates = alldates
```

```
            start = min(dates)
```

```
            end = max(dates)
```

```
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
```

```
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
```

```
            key = (start, author)
```

```
            yield key, line
```

```
    return map(itemgetter(1), sorted(f()))
```

```
def fix_copyright(filename):
```

```
    # Find copyright block in original file
```

```

prefix = set()
names = []
lines = []
with open(filename, 'r') as f:
    content = list(f)
for i, line in enumerate(content[:15]):
    m = re.match(r'^(?P<prefix>\W*)(\((c\))?\s*?copyright\s*(\((c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
    if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[/
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Wed, 17 July 2002, 19:27:00 +0400.

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```

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Andrew Lumsdaine ()

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Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

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Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

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Gottfried Ganaue (Gottfried.Ganssaue -at- HAUF.DE) (Alternative spelling of Gottfried Ganssaue)
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Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
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Jaakko Jrv (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
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John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
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Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)

Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
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Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
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Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
Trustees of Indiana University ()
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Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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```
#include <boost/mpl/push_back.hpp>
```

```
#include <boost/mpl/quote.hpp>
```

```
#include <boost/mpl/transform.hpp>
```

```
#include <boost/mpl/vector.hpp>
```

```
template <typename X>
```

```
struct f { using type = X; };
```

```
template <int i>
```

```
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;
```

```
int main() { }  
[article Invalid copyright  
[quickbook 1.5]  
[copyright No year]  
]
```

Maybe this should pass?

```
<html>  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">  
<title>MPL Interoperability</title>  
<link rel="stylesheet" href="../../doc/src/boostbook.css" type="text/css">  
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">  
<link rel="home" href="..index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">  
<link rel="up" href="..index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">  
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsic">  
<link rel="next" href="examples.html" title="Examples">  
</head>  
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">  
<table cellpadding="2" width="100%"><tr>  
<td valign="top"></td>  
<td align="center"><a href="..index.html">Home</a></td>  
<td align="center"><a href="..libs/libraries.htm">Libraries</a></td>  
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>  
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>  
<td align="center"><a href="..more/index.htm">More</a></td>  
</tr></table>  
<hr>  
<div class="spirit-nav">  
<a accesskey="p" href="intrinsic.html"></a><a  
accesskey="u" href="..index.html"></a><a accesskey="h"  
href="..index.html"></a><a accesskey="n"  
href="examples.html"></a>  
</div>  
<div class="section">  
<div class="titlepage"><div><div><h2 class="title" style="clear: both">  
<a name="boost_typedtraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL  
Interoperability</a>  
</h2></div></div></div>  
<p>  
All the value based traits in this library conform to MPL's requirements for  
an <a href="..libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral  
Constant type</a>.  
</p>
```

Please note that these types no longer inherit from `mpl` or `mpl_` or `mpl_` or `mpl_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

```

</p>
</div>
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright © 2000, 2011 Adobe Systems Inc, David
Abrahams,
    Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
    Watanabe<p>
    Distributed under the Boost Software License, Version 1.0. (See accompanying
    file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt"
    target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="index.html"></a><a accesskey="h"
href="index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>

```

<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
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Wed, 17 July 2002, 19:27:00 +0400.

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```
/+\
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\+/
```

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[article Copyright Test

[quickbook 1.5]

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-->

<!-- boost-no-inspect -->

<!-- HTML header for doxygen 1.8.9.1-->

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"<http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd>">

<html xmlns="<http://www.w3.org/1999/xhtml>">

<head>

<meta http-equiv="Content-Type" content="text/xhtml; charset=UTF-8"/>

<meta http-equiv="X-UA-Compatible" content="IE=9"/>

<meta name="generator" content="Doxygen 1.8.11"/>

<title>Boost.Hana: Boost.MPL adapters</title>

<link href="tabs.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="jquery.js"></script>

<script type="text/javascript" src="dynsections.js"></script>

<link href="navtree.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="resize.js"></script>

<script type="text/javascript" src="navtreedata.js"></script>

<script type="text/javascript" src="navtree.js"></script>

<script type="text/javascript">

\$(document).ready(initResizable);

\$(window).load(resizeHeight);

</script>

<link href="search/search.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="search/searchdata.js"></script>

<script type="text/javascript" src="search/search.js"></script>

```

<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX","output/HTML-CSS"],
});
// Copyright Louis Dionne 2013-2017
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// (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.5.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td>
<div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">

<input type="text" id="MSearchField" value="Search" accesskey="S"

```



```

        onfocus="searchBox.OnSearchFieldFocus(true)"
        onblur="searchBox.OnSearchFieldFocus(false)"
        onkeyup="searchBox.OnSearchFieldChange(event)"/>
    </span><span class="right">
        <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
    </span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
<div id="nav-tree-contents">
<div id="nav-sync" class="sync"></div>
</div>
</div>
<div id="splitbar" style="-moz-user-select:none;"
class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
onmouseover="return searchBox.OnSearchSelectShow()"
onmouseout="return searchBox.OnSearchSelectHide()"
onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">

```

```

<div class="summary">
<a href="#nested-classes">Classes</a> </div>
<div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a class="el" href="group__group-
ext.html">External adapters</a></div></div> </div>
</div><!-- header -->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::list< T
></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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Distributed under the Boost Software License, Version 1.0.
(See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>

```

```
[/  
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http://www.boost.org/LICENSE\_1\_0.txt).  
]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [[@../.../libs/mpl/doc/refmanual/integral-constant.html](http://www.boost.org/libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type].

Please note that these types no longer inherit from ``mpl::true_`` or ``mpl::false_`` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from ``integral_constant`` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

[endsect]

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

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(agc@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.)

```
/*  
*  
* Copyright (c) 2003 Dr John Maddock  
* Use, modification and distribution is subject to the  
* Boost Software License, Version 1.0. (See accompanying file  
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)  
*  
*/
```

```
#include "licence_info.hpp"  
#include "bcp_imp.hpp"  
#include "fileview.hpp"  
#include <fstream>  
#include <iomanip>  
#include <cstring>  
#include <stdexcept>  
#include <boost/lexical_cast.hpp>  
#include <boost/filesystem/operations.hpp>  
#include <boost/throw_exception.hpp>
```

```
//  
// split_path is a small helper for outputting a path name,
```

```

// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=\"\" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
}

```

```

os <<
  "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
  "<html>\n"
  "<head>\n"
  "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}
os <<
  "</title>\n"
  "</head>\n"
  "<body>\n"
  "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}
os <<
  "</H1>\n"
  "<H2>Contents</h2>\n"
  "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
  os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
  // title:
  os << " <a href=\"#\" << make_link_target(licenses.first[i->first].license_name)
    << "\">" << licenses.first[i->first].license_name << "</a>\n";
  ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
  "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
  os <<
    "Moving to the Boost Software License...\n"
    " <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
    " <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
    " <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
    " <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
    "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
  "<a href=\"#depend\">File Dependency Information</a>\n"

```

```

"</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[[:blank:]]*#[[:blank:]]*define[[[:blank:]]+BOOST_VERSION[[[:blank:]]+](\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {

```

```

// title:
os <<
    "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
    << " authors and " << i->second.files.size()
    << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
os << "</P></BLOCKQUOTE>\n";
++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
    // title:
    os <<
        "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
        << "\"></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
    }
}
}

```



```

while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P></BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n</BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost

```

```

// Software License, along with enough information for human
// verification.
//
os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
    << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            << "</tt><br>\n<table border=\"1\">\n <tr>\n <td><pre>"
            << i->second.first << "</pre></td>\n <td><pre>"
            << i->second.second << "</pre></td>\n </tr>\n</table>\n";
        ++i;
        ++file_num;
    }
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)

```

```

{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
    "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:

```

```

std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
}

```

```

    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

}

```

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```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />

```

```

<link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT:    './..',
  VERSION:    '0.6',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true,
  SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="../../_static/jquery.js"></script>
<script type="text/javascript" src="../../_static/underscore.js"></script>
<script type="text/javascript" src="../../_static/doctools.js"></script>
<link rel="index" title="Index" href="../../genindex.html" />
<link rel="search" title="Search" href="../../search.html" />
<link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" href="acknowledgements.html"></a>
<a accesskey="u" href="../../index.html"></a>
<a accesskey="h" href="../../index.html"></a>
<a accesskey="n" ></a>
</div>

<div class="document">
<div class="chapter">
  <div class="body" role="main">

<!-- Copyright 2018 Paul Fultz II
  Distributed under the Boost Software License, Version 1.0.
  (http://www.boost.org/LICENSE_1_0.txt)
--><div class="section" id="license">
<h1>License<a class="headerlink" href="#license" title="Permalink to this headline"></a></h1>
<p>Boost Software License - Version 1.0 - August 17th, 2003</p>
<p>Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the &#8220;Software&#8221;); to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:</p>

```

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</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
 © Copyright 2016, Paul Fultz II.

 Created using Sphinx 1.5.6.
 <p>Distributed under the Boost Software License, Version 1.0.
 (See accompanying file <code class="filename">LICENSE_1_0.txt</code> or copy at
 http://www.boost.org/LICENSE_1_0.txt
 </p>
</div></td>
</tr></table>
</div>
</body>
</html>
<?xml version="1.0" encoding="utf-8"?>

<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
 Subject to the Boost Software License, Version 1.0.
 (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--

```

<ulink url="../../index.htm">
  <imagedata align="left"
    format="GIF"
    fileref="../../boost.png"
    alt="C++ Boost" />
</ulink-->
<!--hr /-->
<para>
  The following is the overall license for the boost date_time
  library. This notice is found in all source files related to the
  library.
</para>
<para>
  Copyright ©; 2002 CrystalClear Software, Inc.
</para>
<para>
  Permission to use, copy, modify, distribute and sell this software
  and its documentation for any purpose is hereby granted without
  fee, provided that the above copyright notice appear in all copies
  and that both that copyright notice and this permission notice
  appear in supporting documentation. CrystalClear Software makes no
  representations about the suitability of this software for any
  purpose. It is provided "as is" without express or implied
  warranty.
</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
  ©; 2000-2002
</section>
////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga    2006-2014
// (C) Copyright Microsoft Corporation 2014
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

```



```

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

```

```

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<S>>1u)::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T> \
    struct boost_intrusive_has_type_ ## TNAME \
    { \
        template <typename X> \
        static char test(int, typename X::TNAME*); \
        \
        template <typename X> \
        static int test(...); \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
    }; \
    \
    template <typename T, typename DefaultType> \
    struct boost_intrusive_default_type_ ## TNAME \
    { \
        struct DefaultWrap { typedef DefaultType TNAME; }; \
        \
        typedef typename \
            ::boost::intrusive::detail::if_c \
            < boost_intrusive_has_type_ ## TNAME<T>::value \
            , T, DefaultWrap>::type::TNAME type; \
    }; \
    //

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, \
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX

```

```

    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
    INSTANTIATION_NS_PREFIX \
    boost_intrusive_has_type_ ## TNAME< T >::value \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
    template <typename T, typename DefaultType> \
    struct boost_intrusive_eval_default_type_ ## TNAME \
    { \
        template <typename X> \
        static char test(int, typename X::TNAME*); \
        \
        template <typename X> \
        static int test(...); \
        \
        struct DefaultWrap \
        { typedef typename DefaultType::type TNAME; }; \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
        \
        typedef typename \
        ::boost::intrusive::detail::eval_if_c \
        < value \
        , ::boost::intrusive::detail::identity<T> \
        , ::boost::intrusive::detail::identity<DefaultWrap> \
        >::type::TNAME type; \
    }; \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, \
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, \
TYPEDEF_TO_FIND) \
    template <class T>\
    struct TRAITS_PREFIX##_bool\
    {\
        template<bool Add>\
        struct two_or_three {yes_type _[2 + Add];};\
        template <class U> static yes_type test(...);\
        template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
        static const std::size_t value = sizeof(test<T>(0));\
    }

```

```

};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{ \
private: \
    template<Signature> struct helper;\
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
    template<typename T> static ::boost::intrusive::detail::no_type test(...); \
public: \
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
    struct BaseMixin \
    { \
        void FUNC_NAME(); \
    }; \
    struct Base : public Type, public BaseMixin { Base(); }; \
    template <typename T, T t> class Helper{}; \
    template <typename U> \
    static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
    static ::boost::intrusive::detail::yes_type test(...); \
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
\
template <typename Type, class> \
struct TRAITS_NAME \

```

```
: public TRAITS_NAME##_ignore_signature<Type> \
{};\
//
```

```
} //namespace detail
} //namespace intrusive
} //namespace boost
```

```
#include <boost/intrusive/detail/config_end.hpp>
```

```
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

```
////
```

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```
////
```

```
[#copyright]
```

```
# Copyright and License
```

```
:idprefix:
```

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[article Invalid copyright years

[quickbook 1.5]

[copyright 2010-2001 Timequake man]

]

```
var group__group_ext_mpl =
```

```
[
```

```
  [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
```

```
  [ "list", "structboost_1_1mpl_1_1list.html", null ],
```

```
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
```

```
];
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

<title><no title> — Boost.HigherOrderFunctions 0.6 documentation</title>

<link rel="stylesheet" href="_static/boostbook.css" type="text/css" />

<link rel="stylesheet" href="_static/pygments.css" type="text/css" />

<script type="text/javascript">

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '.',
```

```
    VERSION:    '0.6',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true,
```

```
    SOURCELINK_SUFFIX: '.txt'
```

```
};
```

</script>

<script type="text/javascript" src="_static/jquery.js"></script>

<script type="text/javascript" src="_static/underscore.js"></script>

<script type="text/javascript" src="_static/doctools.js"></script>

<link rel="index" title="Index" href="genindex.html" />

<link rel="search" title="Search" href="search.html" />

</head>

<body role="document">

<table cellpadding="2" width="100%"><tr>

<td valign="top"></td>

</tr></table>

<div class="spirit-nav">

</div>

<div class="document">

<div class="chapter">

<div class="body" role="main">

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```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
    &#169; Copyright 2016, Paul Fultz II.

    Created using <a href="http://sphinx-doc.org/">Sphinx</a> 1.5.6.
    <p>Distributed under the Boost Software License, Version 1.0.
    (See accompanying file <code class="filename">LICENSE_1_0.txt</code> or copy at
    <a href="http://www.boost.org/LICENSE_1_0.txt"
    target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
```

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```
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// (See accompanying file LICENSE_1_0.txt or copy at  
// http://www.boost.org/LICENSE\_1\_0.txt)  
//  
// See http://www.boost.org/libs/interprocess for documentation.  
//  
////////////////////////////////////
```

```
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP  
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP  
# include <boost/config.hpp>  
#endif  
#  
#if defined(BOOST_HAS_PRAGMA_ONCE)  
# pragma once  
#endif
```

```
#include <cstddef>
```

```
namespace boost {  
namespace interprocess {  
namespace ipcdetail {
```

```
template <class T, T val>  
struct integral_constant  
{  
    static const T value = val;  
    typedef integral_constant<T,val> type;  
};
```



```

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
    >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{

```

```

    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
    >
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>

```

```

<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript" src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX", "output/HTML-CSS"],
});
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MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->

```

```

<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.5.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td> <div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">

<input type="text" id="MSearchField" value="Search" accesskey="S"
onfocus="searchBox.OnSearchFieldFocus(true)"
onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
<a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
<div id="nav-tree-contents">
<div id="nav-sync" class="sync"></div>
</div>
</div>
<div id="splitbar" style="-moz-user-select:none;"
class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">

```

```

$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
  onmouseover="return searchBox.OnSearchSelectShow()"
  onmouseout="return searchBox.OnSearchSelectHide()"
  onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
  name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
  <div class="summary">
<a href="#nested-classes">Classes</a> </div>
  <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a class="el" href="group__group-ext.html">External adapters</a></div></div> </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list< T
></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>

```

```
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>
```

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=====
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// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////
```

```
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

```

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstdint>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool__;
using boost::move_detail::true__;
using boost::move_detail::false__;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

```



```

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first; }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first); }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
: boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

} //namespace dtl {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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    (http://www.boost.org/LICENSE_1_0.txt)
-->

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=====

```

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```

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<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
<link rel="home" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsic">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
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<td align="center"><a href="../../index.html">Home</a></td>
<td align="center"><a href="../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../more/index.htm">More</a></td>
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<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../../index.html"></a><a accesskey="h"
href="../../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an <a href="../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>.
</p>
<p>
Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl</span></code> or <code class="computeroutput"><span class="special">::</span><span class="identifier">true_</span></code> or
<code class="computeroutput"><span class="identifier">mpl</span></code> or <code class="computeroutput"><span class="special">::</span><span class="identifier">false_</span></code> etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
from <code class="computeroutput"><span class="identifier">integral_constant</span></code> to the
corresponding MPL types, therefore tag-dispatching that uses MPL types in function
overloads will still work as before.
</p>
</div>

```

```

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<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright © 2000, 2011 Adobe Systems Inc, David
Abrahams,
    Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
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target="_top">http://www.boost.org/LICENSE_1_0.txt</a>
    </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="index.html"></a><a accesskey="h"
href="index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>

```

1.451 pub-semver 1.3.2

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1.452 date-format 3.0.3

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1.454 cxf-rt-databinding-aegis 3.2.5-jbossorg-1

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
```

```

        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}

```

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<html xmlns="http://www.w3.org/1999/xhtml">

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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
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  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**

```

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}
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##
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

```

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```
#set ( $apacheTxt = "The Apache Software License, Version 2.0" )
```

```
#foreach ( $project in $projects )
#foreach ( $license in $project.licenses)
#if ( ! ($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
    License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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1.455 wildfly-clustering-common 14.0.1.Final

1.456 string-width 1.0.2

1.456.1 Available under license :

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1.457 undertow-server-servlet 1.2.3.Final

1.458 underscore 1.9.1

1.458.1 Available under license :

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1.459 resteasy-json-p-provider 3.6.1.Final

1.460 artemis-hqclient-protocol

2.6.3.jbossorg-001

1.460.1 Available under license :

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1.461 wildfly-weld-bean-validation 14.0.1.Final

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1.463 sortablejs 1.7.0

1.464 jline 2.12

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1.465 hornetjmsclient 2.4.7.Final

1.466 wildfly-mod-cluster-extension

14.0.1.Final

1.467 wildfly-clustering-ejb-infinispan

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1.468 null 0.9

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1.469 opensaml-xmlsec-api 3.3.0

1.470 dartdap 0.3.3

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1.471 jaxen 1.1.6

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1.472 netty-buffer 4.1.24.Final

1.473 eclipse-sisu-plexus 0.3.2

1.474 geronimo-json-1-0-spec 1.0-alpha-1

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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`

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`analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`

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1.484 wildfly-weld-ejb 14.0.1.Final

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 */
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }
}
```

```

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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```

```
#foreach ( $project in $projects )
```

```
#foreach ( $license in $project.licenses)
```

```
#if ( !($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
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```

```
import java.io.IOException;  
import java.io.InputStream;
```

/**

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
  }
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
  }
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
  }
</style>

</head>

<body lang="EN-US">

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Version 1.1

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1.490 glob 6.0.4

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1.491 xmlsec 2.1.2

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1.493 cliui 3.2.0

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1.494 kie-soup-maven-support 7.11.0.Final

1.495 picketlink-common 2.5.5.SP12

1.496 aether-util 1.1.0

1.497 pagedown 1.1.0

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1.498 jackson-coreutils 1.0

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell inexorabletaash@gmail.com

// <https://github.com/inexorabletaash/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

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1.503 http-server-dart 0.9.6

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1.504 wildfly-microprofile-opentracing-smallrye 14.0.1.Final

1.505 wildfly-clustering-service 14.0.1.Final

1.506 narayana-jts-integration 5.9.0.Final

1.507 wildfly-web 14.0.1.Final

1.508 metrics-core 3.1.2

1.509 wildfly-datasources-agroal 14.0.1.Final

1.510 vertx-ignite 3.5.4

1.511 restat-integration 5.9.0.Final

1.512 picketlink-api 2.5.5.SP12

1.513 openshift-restclient-java 6.1.3.Final

1.514 keycloak-server-spi-private 4.8.3.Final

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- */

```
package org.keycloak.authorization.permission.evaluator;
```

```
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.EvaluationContext;
```

```
import java.util.Collection;
```

```
/**
```

```
 * A factory for the different { @link PermissionEvaluator } implementations.
```

```
 *
```

```
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
```

```
 */
```

```
public final class Evaluators {
```

```
    private final AuthorizationProvider authorizationProvider;
```

```
    public Evaluators(AuthorizationProvider authorizationProvider) {
        this.authorizationProvider = authorizationProvider;
    }
```

```
    public PermissionEvaluator from(Collection<ResourcePermission> permissions, EvaluationContext
evaluationContext) {
        return new IterablePermissionEvaluator(permissions.iterator(), evaluationContext, authorizationProvider);
    }
}
```

```
/*
```

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*/

package org.keycloak.authorization.permission;

import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.model.Scope;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;

/**
 * Represents a permission for a given resource.
 *
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class ResourcePermission {

    private final Resource resource;
    private final List<Scope> scopes;
    private ResourceServer resourceServer;
    private Map<String, Set<String>> claims;

    public ResourcePermission(Resource resource, List<Scope> scopes, ResourceServer resourceServer) {
        this(resource, scopes, resourceServer, null);
    }

    public ResourcePermission(Resource resource, ResourceServer resourceServer, Map<String, ? extends
Collection<String>> claims) {
        this(resource, new ArrayList<>(resource.getScopes()), resourceServer, claims);
    }

    public ResourcePermission(Resource resource, List<Scope> scopes, ResourceServer resourceServer, Map<String,
? extends Collection<String>> claims) {

```

```

    this.resource = resource;
    this.scopes = scopes;
    this.resourceServer = resourceServer;
    if (claims != null) {
        this.claims = new HashMap<>();
        for (Entry<String, ? extends Collection<String>> entry : claims.entrySet()) {
            this.claims.computeIfAbsent(entry.getKey(), key -> new LinkedHashSet<>()).addAll(entry.getValue());
        }
    }
}

/**
 * Returns the resource to which this permission applies.
 *
 * @return the resource to which this permission applies
 */
public Resource getResource() {
    return this.resource;
}

/**
 * Returns a list of permitted scopes associated with the resource
 *
 * @return a list of permitted scopes
 */
public List<Scope> getScopes() {
    return this.scopes;
}

/**
 * Returns the resource server associated with this permission.
 *
 * @return the resource server
 */
public ResourceServer getResourceServer() {
    return this.resourceServer;
}

/**
 * Returns all permission claims.
 *
 * @return
 */
public Map<String, Set<String>> getClaims() {
    if (claims == null) {
        return Collections.emptyMap();
    }
    return Collections.unmodifiableMap(claims);
}

```

```

}

/**
 * <p>Adds a permission claim with the given name and a single value.
 *
 * <p>If a claim already exists, the value is added to list of values of the existing claim</p>
 *
 * @param name the name of the claim
 * @param value the value of the claim
 */
public boolean addClaim(String name, String value) {
    if (claims == null) {
        claims = new HashMap<>();
    }
    return claims.computeIfAbsent(name, key -> new HashSet<>()).add(value);
}

/**
 * <p>Removes a permission claim.
 *
 *
 * @param name the name of the claim
 */
public void removeClaim(String name) {
    if (claims != null) {
        claims.remove(name);
    }
}

public void addScope(Scope scope) {
    if (resource != null) {
        if (!resource.getScopes().contains(scope)) {
            return;
        }
    }

    if (!scopes.contains(scope)) {
        scopes.add(scope);
    }
}

public void addClaims(Map<String, Set<String>> claims) {
    if (this.claims == null) {
        this.claims = new HashMap<>();
    }
    this.claims.putAll(claims);
}
}

```

```

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 */
package org.keycloak.authorization.permission.evaluator;

import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DecisionPermissionCollector;
import org.keycloak.authorization.policy.evaluation.EvaluationContext;
import org.keycloak.authorization.policy.evaluation.PolicyEvaluator;
import org.keycloak.authorization.store.StoreFactory;
import org.keycloak.representations.idm.authorization.AuthorizationRequest;
import org.keycloak.representations.idm.authorization.Permission;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
class IterablePermissionEvaluator implements PermissionEvaluator {

    private final Iterator<ResourcePermission> permissions;
    private final EvaluationContext executionContext;
    private final PolicyEvaluator policyEvaluator;
    private final AuthorizationProvider authorizationProvider;

    IterablePermissionEvaluator(Iterator<ResourcePermission> permissions, EvaluationContext executionContext,
        AuthorizationProvider authorizationProvider) {

```



```

    this.permissions = permissions;
    this.executionContext = executionContext;
    this.authorizationProvider = authorizationProvider;
    this.policyEvaluator = authorizationProvider.getPolicyEvaluator();
}

@Override
public Decision evaluate(Decision decision) {
    StoreFactory storeFactory = authorizationProvider.getStoreFactory();

    try {
        Map<Policy, Map<Object, Decision.Effect>> decisionCache = new HashMap<>();

        storeFactory.setReadOnly(true);

        while (this.permissions.hasNext()) {
            this.policyEvaluator.evaluate(this.permissions.next(), authorizationProvider, executionContext, decision,
decisionCache);
        }

        decision.onComplete();
    } catch (Throwable cause) {
        decision.onError(cause);
    } finally {
        storeFactory.setReadOnly(false);
    }

    return decision;
}

@Override
public Collection<Permission> evaluate(ResourceServer resourceServer, AuthorizationRequest request) {
    DecisionPermissionCollector decision = new DecisionPermissionCollector(authorizationProvider,
resourceServer, request);

    evaluate(decision);

    return decision.results();
}
}
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*/
package org.keycloak.authorization.permission.evaluator;

import java.util.Collection;

import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.representations.idm.authorization.AuthorizationRequest;
import org.keycloak.representations.idm.authorization.Permission;

/**
 * An {@link PermissionEvaluator} represents a source of {@link
 * org.keycloak.authorization.permission.ResourcePermission}, responsible for emitting these permissions
 * to a consumer in order to evaluate the authorization policies based on a {@link
 * org.keycloak.authorization.policy.evaluation.EvaluationContext}.
 *
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public interface PermissionEvaluator {

    <D extends Decision> D evaluate(D decision);
    Collection<Permission> evaluate(ResourceServer resourceServer, AuthorizationRequest request);
}

```

1.515 apollo-link-dedup 1.0.11

1.516 wildfly-request-controller 6.0.2.Final

1.517 wildfly-jsf 14.0.1.Final

1.518 invert-kv 1.0.0

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1.519 wildfly-deployment-scanner 6.0.2.Final

1.520 source-map 0.1.43

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1.521 wildfly-weld 14.0.1.Final

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```

```
package org.picketlink.idm.permission.spi;
```

```
import java.io.Serializable;
import java.util.List;
```

```
import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.spi.PermissionVoter.VotingResult;
```

```
/**
 * Iterates through the configured PermissionVoter instances to determine whether a resource permission
 * is to be allowed or denied.
 *
 * @author Shane Bryzak
 */
```

```
public class PermissionResolver {
    private final List<PermissionVoter> voters;

    public PermissionResolver(List<PermissionVoter> voters) {
        this.voters = voters;
    }

    public boolean resolvePermission(IdentityType recipient, Object resource, String operation) {
        boolean permit = false;

        for (PermissionVoter voter : voters) {
            VotingResult result = voter.hasPermission(recipient, resource, operation);
            if (VotingResult.ALLOW.equals(result)) {
                permit = true;
            }
            else if (VotingResult.DENY.equals(result)) {
                return false;
            }
        }
    }
}

```

```

    return permit;
}

public boolean resolvePermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String
operation) {
    boolean permit = false;

    for (PermissionVoter voter : voters) {
        VotingResult result = voter.hasPermission(recipient, resourceClass, identifier, operation);
        if (VotingResult.ALLOW.equals(result)) {
            permit = true;
        }
        else if (VotingResult.DENY.equals(result)) {
            return false;
        }
    }

    return permit;
}
}
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 */

package org.picketlink.idm.permission.annotations;

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

```

```

import org.picketlink.idm.permission.acl.spi.PermissionHandler;

/**
 * Configures the permission handler to use for instance-based permissions. The specified class
 * should implement the PermissionHandler interface.
 *
 * @author Shane Bryzak
 */
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface PermissionsHandledBy {
    Class<? extends PermissionHandler> value() default PermissionHandler.class;

    String name() default "";
}
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 */

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.IdentityManagementException;
import org.picketlink.idm.permission.annotations.PermissionsHandledBy;

import java.io.Serializable;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;

/**
 * Manages a set of PermissionHandler instances that overall define a "policy" for

```

```

* how persistent resource permissions are mapped and managed.
*
* @author Shane Bryzak
*/
public class PermissionHandlerPolicy {
    private Map<Class<?>, PermissionHandler> classHandlers = new ConcurrentHashMap<Class<?>,
PermissionHandler>();

    private Set<PermissionHandler> registeredHandlers = new HashSet<PermissionHandler>();

    public PermissionHandlerPolicy(Set<PermissionHandler> handlers) {
        if (handlers == null || handlers.isEmpty()) {
            registeredHandlers.add(new EntityPermissionHandler());
            registeredHandlers.add(new ClassPermissionHandler());
            registeredHandlers.add(new StringPermissionHandler());
        }
    }

    public Serializable getIdentifier(Object resource) {
        if (resource instanceof String) {
            return (String) resource;
        }

        PermissionHandler handler = getHandlerForResource(resource);

        return handler != null ? handler.getIdentifier(resource) : null;
    }

    public Class<?> getResourceClass(Object resource) {
        if (resource instanceof String) {
            return String.class;
        }

        PermissionHandler handler = getHandlerForResource(resource);

        if (handler == null) {
            throw new IdentityManagementException(String.format(
                "No permission handler registered for resource [%s]", resource.toString()));
        }

        return handler.unwrapResourceClass(resource);
    }

    private PermissionHandler getHandlerForResource(Object resource) {
        PermissionHandler handler = null;

        if (resource.getClass().isAnnotationPresent(PermissionsHandledBy.class)) {
            Class<? extends PermissionHandler> handlerClass =

```

```

        resource.getClass().getAnnotation(PermissionsHandledBy.class).value());

    if (handlerClass != PermissionHandler.class) {
        try {
            handler = handlerClass.newInstance();
            classHandlers.put(resource.getClass(), handler);
        }
        catch (Exception ex) {
            throw new RuntimeException("Error instantiating IdentifierStrategy for object " + resource, ex);
        }
    }
}

for (PermissionHandler s : registeredHandlers) {
    if (s.canHandle(resource.getClass())) {
        handler = s;

        Class<?> resourceClassKey = resource.getClass();

        if (Class.class.isInstance(resource)) {
            resourceClassKey = (Class<?>) resource;
        }

        classHandlers.put(resourceClassKey, handler);
        break;
    }
}

return handler;
}

public Set<PermissionHandler> getRegisteredHandlers() {
    return registeredHandlers;
}

public void registerHandler(PermissionHandler handler) {
    this.registeredHandlers.add(handler);
}
}

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.spi.IdentityContext;

import java.io.Serializable;
import java.util.List;
import java.util.Set;

```

```

/**
 * Permission Store interface
 *
 * @author Shane Bryzak
 */
public interface PermissionStore {

    /**
     * Returns a List value containing all permissions for the specified resource.
     *
     * @param resource
     * @return
     */
    List<Permission> listPermissions(IdentityContext context, Object resource);

    /**
     * <p>Returns a list of all { @link org.picketlink.idm.permission.Permission } for the given { @link
    org.picketlink.idm.model.IdentityType }.</p>
     *
     * @param identityType
     * @return
     */
    List<Permission> listPermissions(IdentityContext context, IdentityType identityType);

    /**
     * Returns a List value containing all permissions for the specified resource, having the specified operation
     *
     * @param resource
     * @param permission
     * @return
     */
    List<Permission> listPermissions(IdentityContext context, Object resource, String operation);

    /**
     * Returns a List value containing all permissions for all of the specified resource,
     * having the specified operation
     *
     * @param resources
     * @param operation
     * @return
     */
    List<Permission> listPermissions(IdentityContext context, Set<Object> resources, String operation);

    /**
     * Returns a List containing all the permissions for a resource that has not yet been loaded,
     * using the specified resource class and resource identifier value.
     *

```

```

* @param resourceClass
* @param identifier
* @return
*/
List<Permission> listPermissions(IdentityContext context, Class<?> resourceClass, Serializable identifier);

/**
* Returns a List containing all the permissions for a resource that has not yet been loaded,
* using the specified resource class and resource identifier value, with the specified operation.
*
* @param resourceClass
* @param identifier
* @return
*/
List<Permission> listPermissions(IdentityContext context, Class<?> resourceClass, Serializable identifier, String
operation);

/**
* Grants the specified permission
*
* @param permission
* @return
*/
boolean grantPermission(IdentityContext context, IdentityType assignee, Object resource, String operation);

/**
* Revokes the specified permission
*
* @param permission
* @return
*/
boolean revokePermission(IdentityContext context, IdentityType assignee, Object resource, String operation);

/**
* Revokes all permissions for the specified resource
*
* @param resource
*/
void revokeAllPermissions(IdentityContext context, Object resource);
}
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*/
```

```
package org.picketlink.idm.permission.annotations;
```

```
import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;
```

```
import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;
```

```
/**
 * Specifies a list of permission actions for a class
 *
 * @author Shane Bryzak
 */
```

```
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface AllowedOperations {
    AllowedOperation[] value() default {};
}
```

```
package org.picketlink.idm.permission.acl.spi;
```

```
import org.picketlink.idm.PartitionManager;
import org.picketlink.idm.PermissionManager;
import org.picketlink.idm.RelationshipManager;
import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.IdentityPermission;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.permission.spi.PermissionVoter;
```

```
import java.io.Serializable;
import java.util.List;
```

```
/**
 *
 * @author Shane Bryzak
```



```

*/
public class PersistentPermissionVoter implements PermissionVoter {

    private final PartitionManager partitionManager;

    public PersistentPermissionVoter(PartitionManager partitionManager) {
        this.partitionManager = partitionManager;
    }

    public VotingResult hasPermission(IdentityType recipient, Object resource, String operation) {
        if (recipient == null) {
            throw new IllegalArgumentException("recipient must not be null");
        }

        List<Permission> permissions = getPermissionManager(recipient).listPermissions(resource, operation);

        return checkPermission(recipient, permissions);
    }

    public VotingResult hasPermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String
operation) {
        if (recipient == null) {
            throw new IllegalArgumentException("recipient must not be null");
        }

        List<Permission> permissions = getPermissionManager(recipient).listPermissions(resourceClass, identifier,
operation);

        return checkPermission(recipient, permissions);
    }

    private PermissionManager getPermissionManager(IdentityType recipient) {
        return partitionManager.createPermissionManager(recipient.getPartition());
    }

    private VotingResult checkPermission(IdentityType recipient, List<Permission> permissions) {
        RelationshipManager relationshipManager = partitionManager.createRelationshipManager();

        for (Permission permission : permissions) {
            if (permission instanceof IdentityPermission) {
                IdentityPermission idPermission = (IdentityPermission) permission;

                if (relationshipManager.inheritsPrivileges(recipient, idPermission.getAssignee())) {
                    return VotingResult.ALLOW;
                }
            }
        }
    }
}

```

```

        return VotingResult.NOT_APPLICABLE;
    }
}
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 */

package org.picketlink.idm.permission;

import java.io.Serializable;

/**
 * Abstract base class representing a specific permission granted for a domain resource. If the actual resource object
 * instance is known
 * then the getResource() method will return a reference to it, otherwise the getResourceClass() and
 * getResourceIdentifier()
 * methods may be used to determine the specific resource that the permission applies to.
 *
 * It is the responsibility of any subclasses to declare any logic relating to the assignee of the Permission.
 *
 * @author Shane Bryzak
 */
public abstract class Permission {
    private Object resource;

    private Class<?> resourceClass;

    private Serializable resourceIdentifier;

    private String operation;

    public Permission(Object resource, String operation) {
        this.resource = resource;
    }

```

```

        this.operation = operation;
    }

    public Permission(Class<?> resourceClass, Serializable resourceIdentifier, String operation) {
        this.resourceClass = resourceClass;
        this.resourceIdentifier = resourceIdentifier;
        this.operation = operation;
    }

    /**
     * Returns the resource object if known, otherwise returns null. If the resource object is not known, then the
     * getResourceClass() and getResourceIdentifier() methods represent the "coordinates" of the resource.
     *
     * @return Object The resource instance, or null
     */
    public Object getResource() {
        return resource;
    }

    /**
     * Returns the resource class if the actual resource instance is not known, otherwise returns null.
     *
     * @return
     */
    public Class<?> getResourceClass() {
        return resourceClass;
    }

    /**
     * Returns the resource identifier if the actual resource instance is not known, otherwise returns null.
     *
     * @return
     */
    public Serializable getResourceIdentifier() {
        return resourceIdentifier;
    }

    /**
     * Returns the permission operation
     *
     * @return
     */
    public String getOperation() {
        return operation;
    }
}

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```

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*/

```

```
package org.picketlink.idm.permission.acl.spi;
```

```
import java.io.Serializable;
import java.util.Set;
```

```

/**
 * Handles the generation of permission resource identifiers, and is responsible for the
 * marshaling / unmarshaling of permissions
 *
 * @author Shane Bryzak
 */
public interface PermissionHandler {
    /**
     * Returns true if the implementation can handle resources of the specified class
     *
     * @param resourceClass
     * @return
     */
    boolean canHandle(Class<?> resourceClass);

    /**
     * Returns a Serializable identifier value that can be used to uniquely identify the specified resource
     *
     * @param resource
     * @return
     */
    Serializable getIdentifier(Object resource);

    /**
     * Returns the formal class of the specified resource
     *

```

```

* @param resource
* @return
*/
Class<?> unwrapResourceClass(Object resource);

/**
* Returns a set containing the available permissions for a resource class. If there are no hard coded
* permissions defined (i.e. any permission is allowed) then this method must return an empty set.
*
* @param resourceClass
* @return
*/
Set<String> listClassOperations(Class<?> resourceClass);

/**
* Returns a set containing the available permissions for a particular resource instance. If there are no hard coded
* permissions defined (i.e. any permission is allowed) then this method must return an empty set.
*
* @param resourceClass
* @return
*/
Set<String> listInstanceOperations(Class<?> resourceClass);

}
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*/

package org.picketlink.idm.permission.annotations;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

```

```

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

/**
 * Specifies an allowable permission operation for the target class, and allows for an optional bit mask
 * value for mapping the permission operation to a persistent store
 *
 * @author Shane Bryzak
 */
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface AllowedOperation {
    /**
     * The operation value
     */
    String value();

    /**
     * The bit mask value representing this operation
     */
    long mask() default 0L;

    /**
     * If set to true, this represents a class operation, and not an operation on an instance of the class
     */
    boolean classOperation() default false;
}
package org.picketlink.idm.permission.acl.spi;

import java.io.Serializable;
import java.util.Collections;
import java.util.Set;

/**
 * An extremely trivial permission handler that allows permissions to be assigned to String resources
 *
 * @author Shane Bryzak
 */
public class StringPermissionHandler implements PermissionHandler {
    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return String.class.equals(resourceClass);
    }

    @Override

```

```

public Serializable getIdentifier(Object resource) {
    checkResourceValid(resource);
    return (String) resource;
}

@Override
public Class<?> unwrapResourceClass(Object resource) {
    checkResourceValid(resource);
    return String.class;
}

private void checkResourceValid(Object resource) {
    if (!(resource instanceof String)) {
        throw new IllegalArgumentException("Resource [" + resource + "] must be instance of String");
    }
}

@Override
public Set<String> listClassOperations(Class<?> resourceClass) {
    return Collections.emptySet();
}

@Override
public Set<String> listInstanceOperations(Class<?> resourceClass) {
    return Collections.emptySet();
}
}
package org.picketlink.idm.permission;

import java.io.Serializable;

import org.picketlink.idm.query.RelationshipCriteria;

/**
 * Represents a "fuzzy" resource permission that is assigned via a relationship criteria, i.e. it is granted to the
 * identities for which relationships exist that match the specified criteria. The assigneeProperty property is
 * the property name of the matching relationship that represents the identity for which the permission is assigned.
 * Standard privilege inheritance rules apply.
 *
 * @author Shane Bryzak
 */
public class FuzzyPermission extends Permission {
    private RelationshipCriteria criteria;
    private String assigneeProperty;

    public FuzzyPermission(Object resource, RelationshipCriteria criteria, String assigneeProperty, String operation) {
        super(resource, operation);
    }
}

```

```

        this.criteria = criteria;
        this.assigneeProperty = assigneeProperty;
    }

    public FuzzyPermission(Class<?> resourceClass, Serializable resourceIdentifier, RelationshipCriteria criteria,
        String assigneeProperty, String operation) {
        super(resourceClass, resourceIdentifier, operation);
        this.criteria = criteria;
        this.assigneeProperty = assigneeProperty;
    }

    public RelationshipCriteria getCriteria() {
        return criteria;
    }

    public String getAssigneeProperty() {
        return assigneeProperty;
    }
}
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 */

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.permission.annotations.PermissionsHandledBy;

import java.io.Serializable;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

/**
 * An Identifier strategy for class-based permission checks
 */

```



```

* @author Shane Bryzak
*/
public class ClassPermissionHandler extends BaseAbstractPermissionHandler implements PermissionHandler {
    private Map<Class<?>, String> identifierNames = new ConcurrentHashMap<Class<?>, String>();

    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return Class.class.equals(resourceClass);
    }

    @Override
    public Serializable getIdentifier(Object resource) {
        if (!(resource instanceof Class<?>)) {
            throw new IllegalArgumentException("Resource [" + resource + "] must be instance of Class");
        }

        return ((Class<?>) resource).getName();
    }

    private String getIdentifierName(Class<?> cls) {
        if (!identifierNames.containsKey(cls)) {
            String name = null;

            if (cls.isAnnotationPresent(PermissionsHandledBy.class)) {
                PermissionsHandledBy handledBy = (PermissionsHandledBy)
cls.getAnnotation(PermissionsHandledBy.class);
                if (handledBy.name() != null && !"".equals(handledBy.name().trim()))
                {
                    name = handledBy.name();
                }
            }

            if (name == null) {
                name = cls.getName().substring(cls.getName().lastIndexOf('.') + 1);
            }

            identifierNames.put(cls, name);
            return name;
        }

        return identifierNames.get(cls);
    }

    @Override
    public Class<?> unwrapResourceClass(Object resource) {
        return Class.class.isInstance(resource) ? (Class<?>) resource : resource.getClass();
    }
}

```

```

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 */

package org.picketlink.idm.permission.spi;

import java.io.Serializable;

import org.picketlink.idm.model.IdentityType;

/**
 * A PermissionVoter may be used to determine access restrictions for application resources. For every
 * permission check the application performs, the hasPermission() method of each known PermissionVoter
 * is invoked. For the permission check to succeed, at least one PermissionVoter must return a result of
 * VotingResult.ALLOW. If any PermissionVoter returns a result of VotingResult.DENY, the
 * permission check is unsuccessful and the user is not allowed to carry out the requested operation.
 * If a PermissionVoter does not explicitly allow or deny the permission, it should return a result of
 * PermissionVoter.NOT_APPLICABLE.
 *
 * @author Shane Bryzak
 */
public interface PermissionVoter {

    public enum VotingResult {
        ALLOW, DENY, NOT_APPLICABLE
    }

    VotingResult hasPermission(IdentityType recipient, Object resource, String operation);

    VotingResult hasPermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier,
        String operation);
}

```

```

package org.picketlink.idm.permission;

import java.io.Serializable;

import org.picketlink.idm.model.IdentityType;

/**
 * Represents a resource permission that is assigned to a specific IdentityType.
 *
 * @author Shane Bryzak
 */
public class IdentityPermission extends Permission {
    private IdentityType assignee;

    public IdentityPermission(Object resource, IdentityType assignee, String operation) {
        super(resource, operation);
        this.assignee = assignee;
    }

    public IdentityPermission(Class<?> resourceClass, Serializable resourceIdentifier, IdentityType assignee, String
operation) {
        super(resourceClass, resourceIdentifier, operation);
        this.assignee = assignee;
    }

    /**
     * Returns the identity to which the permission is assigned.
     *
     * @return
     */
    public IdentityType getAssignee() {
        return assignee;
    }
}

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*/

```
package org.picketlink.idm.permission.acl.spi;
```

```
import java.util.HashMap;  
import java.util.HashSet;  
import java.util.Map;  
import java.util.Set;  
import java.util.concurrent.ConcurrentHashMap;
```

```
import org.picketlink.idm.permission.annotations.AllowedOperation;  
import org.picketlink.idm.permission.annotations.AllowedOperations;
```

```
/**
```

```
* Stored resource permissions can either be persisted as a comma-separated list of values, or as a  
* bit-masked numerical value where each bit represents a specific permission for that class. This  
* is a helper class that handles the conversion automatically and presents a unified API for  
* dealing with these persistent actions.
```

```
*
```

```
* @author Shane Bryzak
```

```
*/
```

```
public abstract class BaseAbstractPermissionHandler implements PermissionHandler {  
    private Map<Class<?>, Boolean> usesMask = new HashMap<Class<?>, Boolean>();
```

```
    private Map<Class<?>, Map<String, Long>> instanceOperations = new ConcurrentHashMap<Class<?>,  
    Map<String, Long>>();
```

```
    private Map<Class<?>, Map<String, Long>> classOperations = new ConcurrentHashMap<Class<?>,  
    Map<String, Long>>();
```

```
    private synchronized void initOperations(Class<?> cls) {  
        if (!instanceOperations.containsKey(cls)) {
```

```
            Map<String, Long> instanceOps = new HashMap<String, Long>();
```

```
            Map<String, Long> classOps = new HashMap<String, Long>();
```

```
            boolean useMask = false;
```

```
            AllowedOperations p = (AllowedOperations) cls.getAnnotation(AllowedOperations.class);
```

```
            if (p != null) {  
                AllowedOperation[] operations = p.value();
```

```
                if (operations != null) {  
                    for (AllowedOperation operation : operations) {
```

```
                        if (operation.classOperation()) {
```

```

        classOps.put(operation.value(), operation.mask());
    } else {
        instanceOps.put(operation.value(), operation.mask());
    }

    if (operation.mask() != 0) {
        useMask = true;
    }
}
}

// Validate that all actions have a proper mask
if (useMask) {
    Set<Long> masks = new HashSet<Long>();

    Set<String> ops = new HashSet<String>();
    ops.addAll(instanceOps.keySet());
    ops.addAll(classOps.keySet());

    for (String op : ops) {

        Long mask = instanceOps.containsKey(op) ? instanceOps.get(op) : classOps.get(op);
        if (masks.contains(mask)) {
            throw new IllegalArgumentException("Class " + cls.getName() +
                " defines a duplicate mask for permission operation [" + op + "]");
        }

        if (mask == 0) {
            throw new IllegalArgumentException("Class " + cls.getName() +
                " must define a valid mask value for operation [" + op + "]");
        }

        if ((mask & (mask - 1)) != 0) {
            throw new IllegalArgumentException("Class " + cls.getName() +
                " must define a mask value that is a power of 2 for operation [" + op + "]");
        }

        masks.add(mask);
    }
}

usesMask.put(cls, useMask);
instanceOperations.put(cls, instanceOps);
}
}

```

```

protected class PermissionSet {

```

```

private Set<String> permissions = new HashSet<String>();

private Class<?> resourceClass;

public PermissionSet(Class<?> resourceClass, String members) {
    this.resourceClass = resourceClass;
    addMembers(members);
}

public void addMembers(String members) {
    if (members == null) {
        return;
    }

    if (usesMask.get(resourceClass)) {
        // bit mask-based actions
        long vals = Long.valueOf(members);

        Map<String, Long> permissions = instanceOperations.get(resourceClass);
        for (String permission : permissions.keySet()) {
            long mask = permissions.get(permission).longValue();
            if ((vals & mask) != 0) {
                this.permissions.add(permission);
            }
        }
    }
    else {
        // comma-separated string based actions
        String[] permissions = members.split(",");
        for (String permission : permissions) {
            this.permissions.add(permission);
        }
    }
}

public boolean contains(String action) {
    return permissions.contains(action);
}

public PermissionSet add(String action) {
    permissions.add(action);
    return this;
}

public PermissionSet remove(String action) {
    permissions.remove(action);
    return this;
}

```

```

public Set<String> getPermissions() {
    return permissions;
}

public boolean isEmpty() {
    return permissions.isEmpty();
}

@Override
public String toString() {
    if (usesMask.get(resourceClass)) {
        Map<String, Long> actions = instanceOperations.get(resourceClass);
        long mask = 0;

        for (String member : permissions) {
            mask |= actions.get(member).longValue();
        }

        return "" + mask;
    } else {
        StringBuilder sb = new StringBuilder();
        for (String member : permissions) {
            if (sb.length() > 0) {
                sb.append(',');
            }
            sb.append(member);
        }
        return sb.toString();
    }
}

public PermissionSet createPermissionSet(Class<?> resourceClass, String members) {
    if (!instanceOperations.containsKey(resourceClass)) {
        initOperations(resourceClass);
    }

    return new PermissionSet(resourceClass, members);
}

@Override
public Set<String> listClassOperations(Class<?> resourceClass) {
    if (!classOperations.containsKey(resourceClass)) {
        initOperations(resourceClass);
    }

    Set<String> permissions = new HashSet<String>();

```

```

        for (String permission : classOperations.get(resourceClass).keySet()) {
            permissions.add(permission);
        }

        return permissions;
    }

    @Override
    public Set<String> listInstanceOperations(Class<?> resourceClass) {
        if (!instanceOperations.containsKey(resourceClass)) {
            initOperations(resourceClass);
        }

        Set<String> permissions = new HashSet<String>();

        for (String permission : instanceOperations.get(resourceClass).keySet()) {
            permissions.add(permission);
        }

        return permissions;
    }
}
}
package org.picketlink.idm.permission.acl.spi;

import org.picketlink.common.properties.Property;
import org.picketlink.common.properties.query.AnnotatedPropertyCriteria;
import org.picketlink.common.properties.query.PropertyQueries;
import org.picketlink.idm.IdentityManagementException;

import java.io.Serializable;
import java.lang.annotation.Annotation;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import static org.picketlink.common.reflection.Reflections.className;

/**
 *
 * @author Shane Bryzak
 *
 */
public class EntityPermissionHandler extends BaseAbstractPermissionHandler {

    private static final String SEPARATOR = ":";

```



```

private Class<? extends Annotation> entityAnnotationClass = null;

private Class<? extends Annotation> idAnnotationClass = null;

private Map<Class<?>, List<Property<Serializable>>>> idProperties =
    new ConcurrentHashMap<Class<?>, List<Property<Serializable>>>>();

public EntityPermissionHandler() {
    try {
        entityAnnotationClass = classForName("javax.persistence.Entity");
        idAnnotationClass = classForName("javax.persistence.Id");
    } catch (ClassNotFoundException ex) {
        // Entity permissions not supported
    }
}

@Override
public boolean canHandle(Class<?> resourceClass) {
    return entityAnnotationClass != null && resourceClass.isAnnotationPresent(entityAnnotationClass);
}

private List<Property<Serializable>> getIdProperties(Object resource) {
    Class<?> resourceClass = unwrapResourceClass(resource);

    if (!idProperties.containsKey(resourceClass)) {
        queryIdProperties(resourceClass);
    }
    return idProperties.get(resourceClass);
}

private synchronized void queryIdProperties(Class<?> resourceClass) {
    if (!idProperties.containsKey(resourceClass)) {
        List<Property<Serializable>> props = PropertyQueries.<Serializable>createQuery(resourceClass)
            .addCriteria(new AnnotatedPropertyCriteria(idAnnotationClass))
            .getResultList();

        // If there is more than one property sort them in ascending alphabetical order
        if (props.size() > 1) {
            Collections.sort(props, new Comparator<Property<Serializable>>() {
                @Override
                public int compare(Property<Serializable> a, Property<Serializable> b) {
                    return a.getName().compareTo(b.getName());
                }
            });
        }

        idProperties.put(resourceClass, props);
    }
}

```

```

    }
}

/**
 * TODO we only support @Id identifiers at the moment, still need to add support for @EmbeddedId etc
 *
 * @param resource
 * @return
 */
@Override
public Serializable getIdentifier(Object resource) {
    List<Property<Serializable>> props = getIdProperties(resource);

    // If the entity has a single @Id property, return it
    if (props.size() == 1) {
        return props.get(0).getValue(resource);
    }
    // Otherwise return a colon-separated list
    } else if (props.size() > 1) {
        StringBuilder sb = new StringBuilder();
        for (Property<Serializable> p : props) {
            if (sb.length() > 0) {
                sb.append(SEPARATOR);
            }
            sb.append(p.getValue(resource).toString());
        }
        return sb.toString();
    } else {
        throw new IdentityManagementException(
            String.format("Could not locate @Id property for specified resource [%s]", resource));
    }
}

@Override
public Class<?> unwrapResourceClass(Object resource) {
    return resource.getClass();
}
}

```

1.532 dsa-commons 0.23.2

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...

```
package org.dsa.iot.dslink.node;
```

```
/**
```

```
 * Handles various permission levels
```

```
 * @author Samuel Grenier
```

```
 */
```

```
public enum Permission {
```

```
 NONE("none"),
```

```
 READ("read"),
```

```
 WRITE("write"),
```

```
 CONFIG("config"),
```

```
 NEVER("never");
```

```
 private final String jsonName;
```

```
 Permission(String jsonName) {
```

```
 this.jsonName = jsonName;
```

```
 }
```

```
/**
```

```
 * @return JSON ready name of the permission
```

```
 */
```

```
public String getJsonName() {
```

```
 return jsonName;
```

```
}
```

```
/**
```

```
 * Converts a string permission received from an endpoint back into a
```

```
 * permission enumeration.
```

```
 *
```

```
 * @param perm Permission string to convert.
```

```
 * @return Converted string into an enumeration.
```

```
 */
```

```
public static Permission toEnum(String perm) {
```

```
 switch (perm) {
```

```
 case "none":
```

```
 return NONE;
```

```

 case "read":
 return READ;
 case "write":
 return WRITE;
 case "config":
 return CONFIG;
 case "never":
 return NEVER;
 default:
 throw new RuntimeException("Unhandled type");
 }
}
}
}

```

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The snowball stemmers in

[analysis/common/src/java/net/sf/snowball](#)

were developed by Martin Porter and Richard Boulton.

The snowball stopword lists in

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The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

[analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt](#),

[analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt](#),

[analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt](#),

[analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt](#),

[analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt](#)

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

[analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java](#)

[analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java](#)

[analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java](#)

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[analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java](#)

analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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## 1.534 jboss-annotations-api-1-3-spec

### 1.0.1.Final

## 1.535 netty-transport 4.1.22.Final

## 1.536 fast-json-stable-stringify 2.0.0

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## 1.537 xnio-nio 3.6.5.Final

## 1.538 picketlink-idm-impl 2.5.5.SP12

## 1.539 wildfly-xts 14.0.1.Final

## 1.540 lz4 r131 ="1"

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## 1.541 taglibs-standard-compat 1.2.6-RC1

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```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C^{®} SOFTWARE NOTICE AND LICENSE</h1>
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<h3>Copyright © 1994-2002 World
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Wide Web Consortium, (<a
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href="http://www.lcs.mit.edu/">Massachusetts Institute of
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package org.apache.cxf.io;

import java.io.IOException;  
import java.io.InputStream;

/\*\*

\* Marker interface for OutputStreams that can directly support  
\* copying from an input stream. OutputStreams that maintain their  
\* own byte buffer or similar may be able to optimize the copy  
\* instead of using the read/write into a temporary buffer that  
\* the normal IOUtils.copy method requires.  
\*/

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;



}

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```

```
#foreach ($project in $projects)
```

```
#foreach ($license in $project.licenses)
```

```
#if (!($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
```

```
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

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#end
```

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\*/

package org.apache.cxf.rs.security.oauth.data;

```

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
 public void setDefault(boolean value) {
 this.isDefault = value;
 }

 public boolean isDefault() {
 return isDefault;
 }

```

```

 }
 }
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
}
</style>

</head>

<body lang="EN-US">

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## 1.577 resteasy-jsapi 3.6.1.Final

## 1.578 protobuf-java 2.6.1

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## 1.579 legit-dart 0.1.1

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*/
```

```
/**
```

```
* Permissions which pertain to authentication and authorization.
```

```
*/
```

```
package org.wildfly.security.auth.permission;
```

```
/*
```

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```
*/
```

```
package org.wildfly.security.permission;
```

```
/**
```

```
* A permission which implies nothing, not even itself.
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public final class NoPermission extends AbstractPermission<NoPermission> {
```

```
 private static final long serialVersionUID = 2339781690941885693L;
```

```
 private static final NoPermission INSTANCE = new NoPermission();
```

```
/**
```

```
 * Construct a new instance.
```



```

*/
public NoPermission() {
 super("<no permissions>");
}

/**
 * Construct a new instance. The name parameter is ignored.
 *
 * @param ignored ignored
 */
public NoPermission(final String ignored) {
 this();
}

/**
 * Construct a new instance. The name and actions parameters are ignored.
 *
 * @param ignored1 ignored
 * @param ignored2 ignored
 */
public NoPermission(final String ignored1, final String ignored2) {
 this();
}

/**
 * Get the no-permission instance.
 *
 * @return the no-permission instance (not { @code null})
 */
public static NoPermission getInstance() {
 return INSTANCE;
}

/**
 * Always returns { @code false}.
 *
 * @param permission ignored
 * @return { @code false}
 */
public boolean implies(final NoPermission permission) {
 return false;
}

/**
 * Always returns { @code true} if the argument is not { @code null}.
 *
 * @param other the permission to compare to
 * @return { @code true} if { @code other} is not { @code null}; { @code false} otherwise

```

```

*/
public boolean equals(final NoPermission other) {
 return other != null;
}

/**
 * Get the constant hash code.
 *
 * @return the constant hash code
 */
public int hashCode() {
 return getClass().hashCode();
}

public AbstractPermissionCollection newPermissionCollection() {
 return NoPermissionCollection.getInstance();
}
}
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package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security.util.ArrayIterator;

/**
 * A trivially simple permission collection, suitable as a default for most permission types (though probably not as
 * efficient

```

```

* as a specialized type in many cases).
*
* @author David M. Lloyd
*/
public final class SimplePermissionCollection extends AbstractPermissionCollection {

 private static final long serialVersionUID = - 9157630531211570679L;

 private final AtomicReference<Permission[]> permissionsRef = new
AtomicReference<>(PermissionUtil.NO_PERMISSIONS);

 /**
 * Construct a new instance.
 *
 * @param sourcePermission the source permission for this collection (must not be { @code null})
 */
 public SimplePermissionCollection(final AbstractPermission<?> sourcePermission) {
 super(sourcePermission);
 }

 public int size() {
 return permissionsRef.get().length;
 }

 protected void doAdd(final AbstractPermission<?> permission) {
 Permission[] oldVal, readVal, newVal;
 int count;
 final AtomicReference<Permission[]> permissionsRef = this.permissionsRef;
 do {
 readVal = permissionsRef.get();
 do {
 count = 0;
 oldVal = readVal;
 for (Permission test : oldVal) {
 if (test.implies(permission)) {
 return;
 }
 }
 if (! permission.implies(test)) {
 // prepare to skip any permissions that are obviated by this one
 count ++;
 }
 }
 // see if it's still what we expect before we commit to the possibly expensive update...
 readVal = permissionsRef.get();
 } while (readVal != oldVal);
 newVal = new Permission[count + 1];
 int i = 0;
 for (Permission test : oldVal) {

```

```

 if (! permission.implies(test)) {
 newVal[i++] = test;
 }
 }
 newVal[i] = permission;
} while (! permissionsRef.compareAndSet(oldVal, newVal));
}

public boolean implies(final Permission permission) {
 for (Permission test : permissionsRef.get()) {
 if (test.implies(permission)) {
 return true;
 }
 }
 return false;
}

public Iterator<Permission> iterator() {
 return new ArrayIterator<Permission>(permissionsRef.get());
}

public Enumeration<Permission> elements() {
 return new ArrayIterator<Permission>(permissionsRef.get());
}
}
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 */

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;

```

```

import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringMapping;

/**
 * Stub class for the unlikely event that a serialized instance is lying around somewhere.
 *
 * @author David M. Lloyd
 */
@Deprecated
final class ElytronPermissionCollection extends PermissionCollection implements Serializable {

 private static final long serialVersionUID = 1L;

 private final int p1;

 ElytronPermissionCollection(final int p1) {
 this.p1 = p1;
 }

 public void add(final Permission permission) {
 throw Assert.unsupported();
 }

 public boolean implies(final Permission permission) {
 throw Assert.unsupported();
 }

 public Enumeration<Permission> elements() {
 throw Assert.unsupported();
 }

 Object readResolve() {
 final AbstractPermissionCollection collection = new ElytronPermission("").newPermissionCollection();
 final StringMapping<ElytronPermission> mapping = ElytronPermission.mapping;
 int bits = p1;
 int test;
 while (bits != 0) {
 collection.add(mapping.getItemById(Integer.numberOfTrailingZeros(test = Integer.lowestOneBit(bits))));
 bits &= ~test;
 }
 if (isReadOnly()) {
 collection.setReadOnly();
 }
 return collection;
 }
}

```

```

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 */

```

```

package org.wildfly.security.permission;

```

```

/**
 * A base class for nameless and actionless permissions that are either granted or not granted.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractBooleanPermission<This extends AbstractBooleanPermission<This>> extends
AbstractPermission<This> {
 /**
 * Construct a new instance.
 */
 protected AbstractBooleanPermission() {
 super("");
 }

 public boolean implies(final This permission) {
 return permission != null;
 }

 public boolean equals(final This other) {
 return other != null;
 }

 public int hashCode() {
 return getClass().hashCode();
 }

 public AbstractPermissionCollection newPermissionCollection() {
 return new BooleanPermissionCollection(this);
 }
}

```

```

 }
}
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 */

package org.wildfly.security.permission;

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

/**
 * The permission collection type for {@link NoPermission}.
 *
 * @author David M. Lloyd
 */
final class NoPermissionCollection extends AbstractPermissionCollection {
 private static final long serialVersionUID = - 8826282614161412469L;

 private static NoPermissionCollection INSTANCE = new NoPermissionCollection();

 NoPermissionCollection() {
 super(NoPermission.getInstance());
 }

 static NoPermissionCollection getInstance() {
 return INSTANCE;
 }

 protected void doAdd(final AbstractPermission<?> permission) {
 // no action
 }
}

```

```

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

public Enumeration<Permission> elements() {
 return Collections.emptyEnumeration();
}

public Iterator<Permission> iterator() {
 return Collections.emptyIterator();
}

public int size() {
 return 0;
}

Object readResolve() {
 return INSTANCE;
}

public boolean equals(final Object obj) {
 return obj instanceof NoPermissionCollection;
}

public int hashCode() {
 return getClass().hashCode();
}
}

```

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\*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import org.wildfly.security.util.StringEnumeration;

import org.wildfly.security.util.StringMapping;

/\*\*

\* A general Elytron permission. The permission { @code name } must be one of the following:

\* <ul>

\* <li>{ @code authenticate }</li>

\* <li>{ @code createAuthenticator }</li>

\* <li>{ @code createAuthenticationContextConfigurationClient }</li>

\* <li>{ @code createSecurityDomain }</li>

\* <li>{ @code createSecurityRealm }</li>

\* <li>{ @code registerSecurityDomain }</li>

\* <li>{ @code getSecurityDomain }</li>

\* <li>{ @code unregisterSecurityDomain }</li>

- \* <li>{ @code setRunAsPrincipal }</li>
- \* <li>{ @code createServerAuthenticationContext }</li>
- \* <li>{ @code getPrivateCredentials }</li>
- \* <li>{ @code getIdentity }</li>
- \* <li>{ @code getIdentityForUpdate }</li>
- \* <li>{ @code createAdHocIdentity }</li>

\* </ul>

\* The { @code actions } are not used and should be empty or { @code null }.

\*

\* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>

\*/

```
public final class ElytronPermission extends AbstractNameSetOnlyPermission<ElytronPermission> {
```

```
 private static final long serialVersionUID = 6124294238228442419L;
```

```
 private static final StringEnumeration strings = StringEnumeration.of(
 "authenticate",
 "createAuthenticator",
 "createAuthenticationContextConfigurationClient",
 "createSecurityDomain",
 "createSecurityRealm",
 "registerSecurityDomain",
 "getSecurityDomain",
 "unregisterSecurityDomain",
 "setRunAsPrincipal",
 "createServerAuthenticationContext",
 "getPrivateCredentials",
 "getIdentity",
 "getIdentityForUpdate",
 "createAdHocIdentity"
);
```

```
 static final StringMapping<ElytronPermission> mapping = new StringMapping<>(strings,
ElytronPermission::new);
```

```
 private static final ElytronPermission allPermission = new ElytronPermission("*");
```

```
 /**
 * Construct a new instance.
 *
 * @param name the name of the permission
 */
 public ElytronPermission(final String name) {
 this(name, null);
 }

 /**
 * Construct a new instance.
```

```

*
* @param name the name of the permission
* @param actions the actions (should be empty)
*/
public ElytronPermission(final String name, final String actions) {
 super(name, strings);
 requireEmptyActions(actions);
}

public ElytronPermission withName(final String name) {
 return forName(name);
}

/**
 * Get the permission with the given name.
 *
 * @param name the name (must not be {@code null})
 * @return the permission (not {@code null})
 * @throws IllegalArgumentException if the name is not valid
 */
public static ElytronPermission forName(final String name) {
 Assert.checkNotNullParam("name", name);
 return name.equals("*") ? allPermission : mapping.getItemByString(name);
}
}
/*
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import static org.wildfly.security.manager._private.SecurityMessages.permission;

```

```

import java.util.Arrays;
import java.util.EnumSet;
import java.util.Iterator;

/**
 * A helper class for defining permissions which use a finite list of actions. Define custom permissions using
 * an {@code enum} of actions, where the string representation (via {@code toString()}) of each enum is one
 * possible
 * action name. Typically the {@code enum} should be non-public, and the constant names should be lowercase. If
 * an action name contains a character which is not a valid Java identifier, then the {@code toString()} method of
 * such constants should be overridden to report the correct string. The actions may be stored on the permission as
 * an {@code EnumSet}, an {@code int}, or a {@code long}. The field should be marked {@code transient}, and
 * the actions represented by a (possibly synthetic) field of type {@code String} which uses the canonical
 * representation
 * of the actions.
 *
 * @author David M. Lloyd
 *
 * @deprecated Use one of the abstract permission classes like {@link AbstractActionSetPermission} instead.
 */
@Deprecated
public final class PermissionActions {

 private PermissionActions() {
 }

 static final class TrieNode<E> {
 private static final char[] C_EMPTY = new char[0];
 private static final TrieNode[] T_EMPTY = new TrieNode[0];

 private E result;
 private char[] matches = C_EMPTY;
 @SuppressWarnings("unchecked")
 private TrieNode<E>[] children = T_EMPTY;

 void put(String s, int idx, E value) {
 if (idx == s.length()) {
 result = value;
 return;
 }
 char c = s.charAt(idx);
 final int i = Arrays.binarySearch(matches, c);
 if (i < 0) {
 // copy and add
 final int oldLength = matches.length;
 final char[] newMatches = Arrays.copyOf(matches, oldLength + 1);
 final TrieNode<E>[] newChildren = Arrays.copyOf(children, oldLength + 1);

```

```

 // i is the negated insertion index
 final int insertIndex = -i - 1;
 System.arraycopy(newMatches, insertIndex, newMatches, insertIndex + 1, oldLength - insertIndex);
 System.arraycopy(newChildren, insertIndex, newChildren, insertIndex + 1, oldLength - insertIndex);
 newMatches[insertIndex] = c;
 final TrieNode<E> newNode = new TrieNode<>();
 newChildren[insertIndex] = newNode;
 matches = newMatches;
 children = newChildren;
 newNode.put(s, idx + 1, value);
 } else {
 children[i].put(s, idx + 1, value);
 }
}

E get(String s, int idx, int end) {
 if (idx == end) {
 return result;
 }
 final char c = s.charAt(idx);
 final int i = Arrays.binarySearch(matches, c);
 if (i < 0) {
 return null;
 }
 return children[i].get(s, idx + 1, end);
}
}

static final class Info<E> {
 final TrieNode<E> root;
 final E[] constants;

 Info(final TrieNode<E> root, final E[] constants) {
 this.root = root;
 this.constants = constants;
 }
}

private static final ClassValue<Info<?>> storedInfo = new ClassValue<Info<?>>() {
 protected Info<?> computeValue(final Class<?> type) {
 return computeReal(type);
 }
}

private <E> Info<E> computeReal(final Class<E> type) {
 final TrieNode<E> root = new TrieNode<>();
 final E[] enumConstants = type.getEnumConstants();
 for (E e : enumConstants) {
 root.put(e.toString(), 0, e);
 }
}

```



```

 }
 return new Info<>(root, type.getEnumConstants());
}
};

interface MatchAction<E extends Enum<E>> {
 void matched(E item);

 void matchedAll(Class<E> type);
}

static class SetMatchAction<E extends Enum<E>> implements MatchAction<E> {
 private EnumSet<E> set;

 SetMatchAction(final EnumSet<E> set) {
 this.set = set;
 }

 public void matched(final E item) {
 set.add(item);
 }

 public void matchedAll(final Class<E> type) {
 set = EnumSet.allOf(type);
 }

 public EnumSet<E> getSet() {
 return set;
 }
}

static class IntMatchAction<E extends Enum<E>> implements MatchAction<E> {
 private int result;

 IntMatchAction() {
 }

 public void matched(final E item) {
 result |= 1 << item.ordinal();
 }

 public void matchedAll(final Class<E> type) {
 result |= (1 << storedInfo.get(type).constants.length) - 1;
 }

 public int getResult() {
 return result;
 }
}

```

```

}

static class LongMatchAction<E extends Enum<E>> implements MatchAction<E> {
 private long result;

 LongMatchAction() {
 }

 public void matched(final E item) {
 result |= 1L << item.ordinal();
 }

 public void matchedAll(final Class<E> type) {
 result |= (1L << storedInfo.get(type).constants.length) - 1;
 }

 public long getResult() {
 return result;
 }
}

/**
 * Parse an action string using the given action type to an {@code EnumSet}.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> EnumSet<E> parseActionStringToSet(Class<E> actionType, String
actionString) throws IllegalArgumentException {
 Assert.checkNotNullParam("actionType", actionType);
 Assert.checkNotNullParam("actionString", actionString);
 final SetMatchAction<E> matchAction = new SetMatchAction<>(EnumSet.noneOf(actionType));
 doParse(actionType, actionString, matchAction);
 return matchAction.getSet();
}

/**
 * Parse an action string using the given action type to an {@code int}. The given {@code enum} type must have
 * 32 or fewer constant values.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type

```

```

*
* @return the set of actions from the string
*
* @throws IllegalArgumentException if the string contained an invalid action
*/
public static <E extends Enum<E>> int parseActionStringToInt(Class<E> actionType, String actionString) throws
IllegalArgumentException {
 Assert.checkNotNullParam("actionType", actionType);
 Assert.checkNotNullParam("actionString", actionString);
 final IntMatchAction<E> matchAction = new IntMatchAction<>();
 doParse(actionType, actionString, matchAction);
 return matchAction.getResult();
}

/**
* Parse an action string using the given action type to a {@code long}. The given {@code enum} type must have
* 64 or fewer constant values.
*
* @param actionType the action {@code enum} type class
* @param actionString the string to parse
* @param <E> the action {@code enum} type
*
* @return the set of actions from the string
*
* @throws IllegalArgumentException if the string contained an invalid action
*/
public static <E extends Enum<E>> long parseActionStringToLong(Class<E> actionType, String actionString)
throws IllegalArgumentException {
 Assert.checkNotNullParam("actionType", actionType);
 Assert.checkNotNullParam("actionString", actionString);
 final LongMatchAction<E> matchAction = new LongMatchAction<>();
 doParse(actionType, actionString, matchAction);
 return matchAction.getResult();
}

private static <E extends Enum<E>> void doParse(final Class<E> actionType, final String actionString, final
MatchAction<E> matchAction) {
 @SuppressWarnings("unchecked")
 final Info<E> info = (Info<E>) storedInfo.get(actionType);
 final TrieNode<E> rootNode = info.root;
 // begin parse
 char c;
 final int length = actionString.length();
 int i = 0;
 L0: for (;;) {
 if (i == length) {
 // OK
 break L0;

```

```

}
c = actionString.charAt(i);
if (Character.isWhitespace(c)) {
 i++;
 continue L0;
}
if (c == ',') {
 // hmm, empty segment; ignore it
 i++;
 continue L0;
}
if (c == '*') {
 // potential star
 matchAction.matchedAll(actionType);
 for (;;) {
 i++;
 if (i == length) {
 // done
 break L0;
 }
 c = actionString.charAt(i);
 if (c == ',') {
 // pointless, but go on
 i++;
 continue L0;
 }
 if (! Character.isWhitespace(c)) {
 throw permission.unexpectedActionCharacter(c, i, actionString);
 }
 }
 // not reachable
}
// else it's a potentially valid character
int start = i;
for (;;) {
 i++;
 c = i < length ? actionString.charAt(i) : 0;
 if (i == length || Character.isWhitespace(c) || c == ',') {
 // action string ends here
 final E action = rootNode.get(actionString, start, i);
 if (action == null) {
 throw permission.invalidAction(actionString.substring(start, i), start, actionString);
 }
 matchAction.matched(action);
 if (i == length) {
 // done
 break L0;
 }
 }
}

```

```

 while (Character.isWhitespace(c)) {
 i++;
 if (i == length) {
 // done
 break L0;
 }
 c = actionString.charAt(i);
 }
 if (c != ',') {
 throw permission.unexpectedActionCharacter(c, i, actionString);
 }
 i++;
 continue L0;
 }
}
// not reachable
}
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(EnumSet<E> set) {
 if (set == null || set.isEmpty()) return "";
 final StringBuilder b = new StringBuilder();
 getCanonicalActionString(set, b);
 return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(EnumSet<E> set, StringBuilder b) {
 if (set == null || set.isEmpty()) return;
 final Iterator<E> iterator = set.iterator();
 if (iterator.hasNext()) {
 E e = iterator.next();
 b.append(e.toString());
 while (iterator.hasNext()) {
 e = iterator.next();

```

```

 b.append(',');
 b.append(e.toString());
 }
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param type the action { @code enum } type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, int set) {
 if (set == 0) return "";
 final StringBuilder b = new StringBuilder();
 getCanonicalActionString(type, set, b);
 return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param type the action { @code enum } type class
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, int set, StringBuilder b) {
 if (set == 0) return;
 @SuppressWarnings("unchecked")
 final E[] constants = (E[]) storedInfo.get(type).constants;
 int bit = Integer.lowestOneBit(set);
 E e = constants[Integer.numberOfTrailingZeros(bit)];
 b.append(e.toString());
 set &= ~bit;
 while (set != 0) {
 bit = Integer.lowestOneBit(set);
 e = constants[Integer.numberOfTrailingZeros(bit)];
 b.append(',').append(e.toString());
 set &= ~bit;
 }
}

/**
 * Get the canonical action string representation for the given action set.
 *

```

```

* @param type the action { @code enum } type class
* @param set the action set
* @param <E> the action type
* @return the canonical representation
*/
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, long set) {
 if (set == 0) return "";
 final StringBuilder b = new StringBuilder();
 getCanonicalActionString(type, set, b);
 return b.toString();
}

/**
* Get the canonical action string representation for the given action set, appending it to the given string builder.
*
* @param type the action { @code enum } type class
* @param set the action set
* @param b the string builder
* @param <E> the action type
*/
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, long set, StringBuilder b) {
 if (set == 0) return;
 @SuppressWarnings("unchecked")
 final E[] constants = (E[]) storedInfo.get(type).constants;
 long bit = Long.lowestOneBit(set);
 E e = constants[Long.numberOfTrailingZeros(bit)];
 b.append(e.toString());
 set &= ~bit;
 while (set != 0) {
 bit = Long.lowestOneBit(set);
 e = constants[Long.numberOfTrailingZeros(bit)];
 b.append(',').append(e.toString());
 set &= ~bit;
 }
}
}
}
/**
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```

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\*/

```
package org.wildfly.security.permission;
```

```
import java.io.IOException;
import java.io.ObjectInputStream;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
```

```
import org.wildfly.security._private.ElytronMessages;
```

```
final class UnionPermissionCollection extends PermissionCollection implements PermissionVerifier {
 private static final long serialVersionUID = 6731525842957764833L;
```

```
 private final PermissionCollection pc1;
 private final PermissionCollection pc2;
```

```
 UnionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
 this.pc1 = pc1;
 this.pc2 = pc2;
 setReadOnly();
 }
```

```
 public void add(final Permission permission) {
 throw ElytronMessages.log.readOnlyPermissionCollection();
 }
```

```
 public boolean implies(final Permission permission) {
 return pc1.implies(permission) || pc2.implies(permission);
 }
```

```
 public Enumeration<Permission> elements() {
 final Enumeration<Permission> e1 = pc1.elements();
 final Enumeration<Permission> e2 = pc2.elements();
 return new Enumeration<Permission>() {
 public boolean hasMoreElements() {
 return e1.hasMoreElements() || e2.hasMoreElements();
 }

 public Permission nextElement() {
 return e1.hasMoreElements() ? e1.nextElement() : e2.nextElement();
 }
 };
 }
```



```

}

private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
 ois.defaultReadObject();
 if (pc1 == null) {
 throw ElytronMessages.log.invalidObjectNull("pc1");
 }
 if (pc2 == null) {
 throw ElytronMessages.log.invalidObjectNull("pc2");
 }
}
}
}
/*
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;

final class SerializedPermission implements Serializable {
 private static final long serialVersionUID = 897239118282921196L;

 private final Class<? extends Permission> c;
 private final String n;
 private final String a;

 SerializedPermission(final Class<? extends Permission> permissionClass, final String name, final String action) {
 this.c = permissionClass;
 this.n = name;
 this.a = action;
 }
}

```

```
Object readResolve() {
 return PermissionUtil.createPermission(c, n, a);
}
}
```

<html>

<head>

<title>Specification License</title>

</head>

<body>

Specification: JSR-343 Java Message Service ("Specification")

<br/>

Version: 2.0

<br/>

Status: Final Release

<br/>

Specification Lead: Oracle America, Inc. ("Specification Lead")

<br/>

Release: 20 March 2013

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Rev. April, 2006

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\*/

package org.wildfly.security.permission;

```

import org.wildfly.security.util.StringEnumeration;

/**
 * An abstract base class for permissions which use a bit set to represent actions.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractActionSetPermission<This extends AbstractActionSetPermission<This>> extends
AbstractActionPermission<This> {
 private static final long serialVersionUID = 897239118282921196L;

 private final StringEnumeration actionEnumeration;
 private final int actionBits;
 private String actions;

 /**
 * Construct a new instance. The given bits are masked by {@link #actionsMask()} before being stored in the
 object
 * instance.
 *
 * @param name the permission name
 * @param actionBits the permission action bits
 * @param actionEnumeration the permission actions enumeration
 */
 protected AbstractActionSetPermission(final String name, final int actionBits, final StringEnumeration
actionEnumeration) {
 super(name);
 this.actionEnumeration = actionEnumeration;
 this.actionBits = actionBits & actionsMask();
 if (actionBits == actionsMask()) actions = "*";
 }

 /**
 * Construct a new instance.
 *
 * @param name the permission name
 * @param actions the permission actions string
 * @param actionEnumeration the permission actions enumeration
 */
 protected AbstractActionSetPermission(final String name, final String actions, final StringEnumeration
actionEnumeration) {
 super(name);
 this.actionEnumeration = actionEnumeration;
 final int actionBits = parseActions(actions);
 this.actionBits = actionBits & actionsMask();
 if (actionBits == actionsMask()) this.actions = "*";
 }
}

```

```

/**
 * Get the action bits of this permission.
 *
 * @return the action bits
 */
public final int getActionBits() {
 return actionBits;
}

public final boolean actionsEquals(final This permission) {
 return permission != null && actionBits == permission.getActionBits();
}

public final boolean impliesActions(final This permission) {
 return permission != null && isSet(actionBits, permission.getActionBits());
}

public final boolean impliesActions(final String actions) {
 return impliesActionBits(parseActions(actions));
}

/**
 * Determine whether this permission's actions value implies the given action bits.
 *
 * @param actionBits the actions bits to test
 * @return { @code true } if this permission implies the given action bits; { @code false } otherwise
 */
public final boolean impliesActionBits(final int actionBits) {
 return isSet(this.actionBits, actionBits & actionsMask());
}

private int actionsMask() {
 return (1 << actionEnumeration.size()) - 1;
}

private int getActionBit(final String actionName) throws IllegalArgumentException {
 return 1 << actionEnumeration.indexOf(actionName);
}

private String getActionName(final int bit) throws IllegalArgumentException {
 return actionEnumeration.nameOf(Integer.numberOfTrailingZeros(bit));
}

protected final int actionsHashCode() {
 return actionBits;
}

```



```

/**
 * Get the actions string. The string is computed the first time this method is called, and cached thereafter.
 *
 * @return the actions string (not { @code null})
 */
public final String getActions() {
 final String actions = this.actions;
 if (actions != null) {
 return actions;
 }
 return this.actions = PermissionUtil.toActionsString(actionBits, this::getActionName);
}

/**
 * Parse the actions string into a bit set.
 *
 * @param actionsString the actions string
 * @return the bit set
 * @throws IllegalArgumentException if the actions string contained an invalid name or invalid syntax
 */
public final int parseActions(final String actionsString) throws IllegalArgumentException {
 return PermissionUtil.parseActions(actionsString, this::getActionBit);
}

public final This withActions(final String actionsString) {
 return withActionBits(parseActions(actionsString));
}

public final This withActionsFrom(final This permission) {
 return withActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the action bits from the given value. The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not { @code null})
 */
public final This withActionBits(int actionBits) {
 return withNewActionBits(this.actionBits | actionBits & actionsMask());
}

public final This withoutActions(String actionsString) {
 return withoutActionBits(parseActions(actionsString));
}

```

```

public final This withoutActionsFrom(final This permission) {
 return withoutActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the action bits from the given value. The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not { @code null})
 */
public final This withoutActionBits(int actionBits) {
 return withNewActionBits(this.actionBits & ~actionBits);
}

public final This withNewActions(String actionsString) {
 return withNewActionBits(parseActions(actionsString));
}

public final This withNewActionsFrom(final This permission) {
 return withNewActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new action bits as given by { @code actionBits}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not { @code null})
 */
@SuppressWarnings("unchecked")
public final This withNewActionBits(int actionBits) {
 final int masked = actionBits & actionsMask();
 if (masked == this.actionBits) {
 return (This) this;
 } else {
 return constructWithActionBits(masked);
 }
}

/**
 * Construct or return a permission of this type with the same name as this one but with the given action bits.
 *
 * @param actionBits the action bits
 * @return the permission

```

```

*/
protected abstract This constructWithActionBits(int actionBits);

// private

private static boolean isSet(final int bits, final int test) {
 return (bits & test) == test;
}
}
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*/

package org.wildfly.security.permission;

/**
 * An exception which is thrown when an invalid permission class is instantiated.
 *
 * @author David M. Lloyd
 */
public class InvalidPermissionClassException extends IllegalArgumentException {
 private static final long serialVersionUID = 7910334218992625018L;

 /**
 * Constructs a new {@code InvalidPermissionClassException} instance. The message is left blank ({@code null}), and
 * no
 * cause is specified.
 */
 public InvalidPermissionClassException() {
 }

 /**
 * Constructs a new {@code InvalidPermissionClassException} instance with an initial message. No

```

```

* cause is specified.
*
* @param msg the message
*/
public InvalidPermissionClassException(final String msg) {
 super(msg);
}

/**
 * Constructs a new {@code InvalidPermissionClassException} instance with an initial cause. If
 * a non-{@code null} cause is specified, its message is used to initialize the message of this
 * {@code InvalidPermissionClassException}; otherwise the message is left blank ({@code null}).
 *
 * @param cause the cause
 */
public InvalidPermissionClassException(final Throwable cause) {
 super(cause);
}

/**
 * Constructs a new {@code InvalidPermissionClassException} instance with an initial message and cause.
 *
 * @param msg the message
 * @param cause the cause
 */
public InvalidPermissionClassException(final String msg, final Throwable cause) {
 super(msg, cause);
}
}
}
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*/

package org.wildfly.security.auth.permission;

```

```

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
 * The permission to run as another principal within some security domain. Note that this permission is checked
 * relative
 * to the security domain that the user is authenticated to. The principal name is the effective name after all rewrite
 * operations have taken place.
 */
public final class RunAsPrincipalPermission extends AbstractNameOnlyPermission<RunAsPrincipalPermission> {

 private static final long serialVersionUID = -3361334389433669815L;

 /**
 * Construct a new instance.
 *
 * @param name the principal name, or { @code * } for global run-as permissions
 */
 public RunAsPrincipalPermission(final String name) {
 super(name);
 }

 /**
 * Construct a new instance.
 *
 * @param name the principal name, or { @code * } for global run-as permissions
 * @param ignored the permission actions (ignored)
 */
 public RunAsPrincipalPermission(final String name, @SuppressWarnings("unused") final String ignored) {
 this(name);
 }

 public RunAsPrincipalPermission withName(final String name) {
 return new RunAsPrincipalPermission(name);
 }
}

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*/
```

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.Set;
```

```
/**
```

```
 * A permission collection type which either does or does not hold its instance.
 *
```

```
 * @author David M. Lloyd
```

```
 */
```

```
public final class BooleanPermissionCollection extends AbstractPermissionCollection {
 private volatile boolean added;
```

```
 /**
```

```
 * Construct a new instance.
```

```
 *
```

```
 * @param sourcePermission the source permission for this collection (must not be { @code null })
```

```
 */
```

```
 public BooleanPermissionCollection(final AbstractPermission<?> sourcePermission) {
 super(sourcePermission);
 }
```

```
 public int size() {
 return added ? 1 : 0;
 }
```

```
 public Iterator<Permission> iterator() {
 return added ? getSingletonCollection().iterator() : Collections.emptyIterator();
 }
```

```
 public Enumeration<Permission> elements() {
 return added ? Collections.enumeration(getSingletonCollection()) : Collections.emptyEnumeration();
 }
```

```
 private Set<Permission> getSingletonCollection() {
 return Collections.singleton(getSourcePermission());
 }
```

```
 protected void doAdd(final AbstractPermission<?> permission) {
```

```

 added = true;
 }

 public boolean implies(final Permission permission) {
 return added && permission.getClass() == getSourcePermission().getClass();
 }
}

```

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\*/

```

package org.wildfly.security.permission;

```

```

import java.security.Permission;

```

```

import java.util.NoSuchElementException;

```

```

import java.util.concurrent.atomic.AtomicLong;

```

```

import org.wildfly.security.util.EnumerationIterator;

```

```

import org.wildfly.security.util.StringEnumeration;

```

```

final class LongNameSetPermissionCollection extends NameSetPermissionCollection {

```

```

 private final AtomicLong bitSet = new AtomicLong();

```

```

 LongNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {

```

```

 super(sourcePermission, nameEnumeration);

```

```

 }

```

```

private Permission permissionFor(int id) {
 return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
}

```

```

protected void doAdd(final AbstractPermission<?> permission) {
 long setBits = getBitsForName(permission);
 final AtomicLong bitSet = this.bitSet;
 long oldVal;
 do {
 oldVal = bitSet.get();
 if ((oldVal & setBits) == setBits) {
 return;
 }
 } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
}

```

```

public boolean implies(final Permission permission) {
 if (permission.getClass() != getSourcePermission().getClass()) {
 return false;
 }
 long testBits = getBitsForName(permission);
 return (bitSet.get() & testBits) == testBits;
}

```

```

public int size() {
 final int size = Long.bitCount(bitSet.get());
 return size == getNameEnumeration().size() ? 1 : size;
}

```

```

public EnumerationIterator<Permission> iterator() {
 return new Iter(bitSet.get());
}

```

```

public EnumerationIterator<Permission> elements() {
 return iterator();
}

```

```

private long getBitsForName(final Permission permission) {
 final long bits;
 final String name = permission.getName();
 final StringEnumeration nameEnumeration = getNameEnumeration();
 if ("*".equals(name)) {
 // add all names
 bits = (1L << nameEnumeration.size()) - 1;
 } else {
 bits = 1L << nameEnumeration.indexOf(name);
 }
}

```



```

 return bits;
}

private class Iter implements EnumerationIterator<Permission> {
 private long bits;

 Iter(final long bits) {
 this.bits = bits;
 }

 public boolean hasMoreElements() {
 return bits != 0;
 }

 public Permission nextElement() {
 final long bits = this.bits;
 if (bits == 0) throw new NoSuchElementException();
 if (Long.bitCount(bits) == getNameEnumeration().size()) {
 this.bits = 0;
 return ((AbstractNamedPermission<?>) getSourcePermission()).withName("");
 }
 long bit = Long.lowestOneBit(bits);
 this.bits = bits & ~bit;
 return permissionFor(Long.numberOfTrailingZeros(bit));
 }

 public boolean hasNext() {
 return hasMoreElements();
 }

 public Permission next() {
 return nextElement();
 }
}

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```

```
package org.wildfly.security.permission;
```

```
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.AllPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Permissions;
import java.util.Arrays;
import java.util.Collection;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.function.BiConsumer;
import java.util.function.BiPredicate;
import java.util.function.Consumer;
import java.util.function.ToIntFunction;
import java.util.function.LongFunction;
import java.util.function.Predicate;
import java.util.function.ToIntFunction;
import java.util.function.ToLongFunction;
```

```
import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;
```

```
/**
```

```
 * General permission utility methods and constants.
```

```
 *
```

```
 * @author David M. Lloyd
```

```
 */
```

```
public final class PermissionUtil {
```

```
 private PermissionUtil() {
 }
```

```
 /**
```

```
 * A shared {@link AllPermission} instance.
```

```
 */
```

```
 public static final Permission ALL_PERMISSION = new AllPermission();
```

```
 /**
```

```
 * A read-only permission collection which implies {@link AllPermission}.
```

```

*/
public static final PermissionCollection ALL_PERMISSIONS;

/**
 * A permission collection which is empty.
 */
public static final PermissionCollection EMPTY_PERMISSION_COLLECTION;

/**
 * An array with no permissions in it.
 */
public static final Permission[] NO_PERMISSIONS = new Permission[0];

static {
 Permissions permissions = new Permissions();
 permissions.add(ALL_PERMISSION);
 permissions.setReadOnly();
 ALL_PERMISSIONS = permissions;
 permissions = new Permissions();
 permissions.setReadOnly();
 EMPTY_PERMISSION_COLLECTION = permissions;
}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static int parseActions(String actionsString, ToIntFunction<String> function) throws
IllegalArgumentException {
 Assert.checkNotNullParam("actionsString", actionsString);
 Assert.checkNotNullParam("function", function);
 int actions = 0;
 int pos = 0;
 int idx = actionsString.indexOf(',');
 for (;;) {
 String str;
 if (idx == -1) {
 str = actionsString.substring(pos, actionsString.length()).trim();
 if (! str.isEmpty()) actions |= function.applyAsInt(str);
 return actions;
 } else {
 str = actionsString.substring(pos, idx).trim();
 pos = idx + 1;

```

```

 if (! str.isEmpty()) actions |= function.applyAsInt(str);
 idx = actionsString.indexOf(',', pos);
 }
}
}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be { @code null })
 * @param function the mapping function (must not be { @code null })
 * @return the union of all the action bits
 * @throws IllegalArgumentException if { @code function } throws this exception (indicating an invalid action
string)
 */
public static long parseActions(String actionsString, ToLongFunction<String> function) throws
IllegalArgumentException {
 Assert.checkNotNullParam("actionsString", actionsString);
 Assert.checkNotNullParam("function", function);
 long actions = 0;
 int pos = 0;
 int idx = actionsString.indexOf(',');
 for (;;) {
 String str;
 if (idx == -1) {
 str = actionsString.substring(pos, actionsString.length()).trim();
 if (! str.isEmpty()) actions |= function.applyAsLong(str);
 return actions;
 } else {
 str = actionsString.substring(pos, idx).trim();
 pos = idx + 1;
 if (! str.isEmpty()) actions |= function.applyAsLong(str);
 idx = actionsString.indexOf(',', pos);
 }
 }
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings. If the bits are all clear,
 * the empty string { @code "" } is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be { @code null })
 * @return the actions string (not { @code null })
 */
public static String toActionsString(int actionBits, IntFunction<String> mappingFunction) {
 Assert.checkNotNullParam("mappingFunction", mappingFunction);
 final StringBuilder sb = new StringBuilder();

```

```

 if (actionBits == 0) return "";
 int lb = Integer.highestOneBit(actionBits);
 sb.append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 while (actionBits != 0) {
 lb = Integer.highestOneBit(actionBits);
 sb.append(',').append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 }
 return sb.toString();
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings. If the bits are all clear,
 * the empty string { @code "" } is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be { @code null })
 * @return the actions string (not { @code null })
 */
public static String toActionsString(long actionBits, LongFunction<String> mappingFunction) {
 Assert.checkNotNullParam("mappingFunction", mappingFunction);
 final StringBuilder sb = new StringBuilder();
 if (actionBits == 0) return "";
 long lb = Long.highestOneBit(actionBits);
 sb.append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 while (actionBits != 0) {
 lb = Long.highestOneBit(actionBits);
 sb.append(',').append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 }
 return sb.toString();
}

/**
 * Create an iterable view over a permission collection.
 *
 * @param pc the permission collection (must not be { @code null })
 * @return the iterable view (not { @code null })
 */
public static Iterable<Permission> iterable(PermissionCollection pc) {
 return () -> {
 final Enumeration<Permission> elements = pc.elements();
 return new Iterator<Permission>() {
 public boolean hasNext() {
 return elements.hasMoreElements();
 }
 }
 }
}

```

```

 public Permission next() {
 return elements.nextElement();
 }
 };
}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 */
public static void forEachIn(PermissionCollection collection, Consumer<Permission> consumer) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("consumer", consumer);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 consumer.accept(elements.nextElement());
 }
}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 * @param <P> the type of the parameter
 * @return the {@code parameter} that was passed in
 */
public static <P> P forEachIn(PermissionCollection collection, BiConsumer<P, Permission> consumer, P
parameter) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("consumer", consumer);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 consumer.accept(parameter, elements.nextElement());
 }
 return parameter;
}

/**
 * Run a test for each permission in the given collection. If the predicate returns {@code false} for any element,
 * {@code false} is returned; otherwise, {@code true} is returned.
 *
 * @param collection the collection (must not be {@code null})

```

```

* @param predicate the predicate to apply to each element (must not be {@code null})
* @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
*/
public static boolean forEachIn(PermissionCollection collection, Predicate<Permission> predicate) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("predicate", predicate);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 if (! predicate.test(elements.nextElement())) {
 return false;
 }
 }
 return true;
}

/**
* Run a test for each permission in the given collection. If the predicate returns {@code false} for any element,
* {@code false} is returned; otherwise, {@code true} is returned.
*
* @param collection the collection (must not be {@code null})
* @param parameter the parameter to pass to the consumer
* @param predicate the predicate to apply to each element (must not be {@code null})
* @param <P> the type of the parameter
* @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
*/
public static <P> boolean forEachIn(PermissionCollection collection, BiPredicate<P, Permission> predicate, P
parameter) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("predicate", predicate);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 if (! predicate.test(parameter, elements.nextElement())) {
 return false;
 }
 }
 return true;
}

/**
* Create a permission collection that is the union of two permission collections. The permission
* collections must be read-only.
*
* @param pc1 the first permission collection (must not be {@code null})
* @param pc2 the second permission collection (must not be {@code null})
* @return a new permission collection that is the union of the two collections (not {@code null})
*/
public static PermissionCollection union(PermissionCollection pc1, PermissionCollection pc2) {
 Assert.checkNotNullParam("pc1", pc1);

```

```

 Assert.checkNotNullParam("pc2", pc2);
 if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
 throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
 }
 if (pc1.implies(ALL_PERMISSION) || pc2.implies(ALL_PERMISSION)) {
 return ALL_PERMISSIONS;
 } else {
 return new UnionPermissionCollection(pc1, pc2);
 }
}

/**
 * Create a permission collection that is the intersection of two permission collections. The permission
 * collections must be read-only.
 *
 * @param pc1 the first permission collection (must not be {@code null})
 * @param pc2 the second permission collection (must not be {@code null})
 * @return a new permission collection that is the intersection of the two collections (not {@code null})
 */
public static PermissionCollection intersection(PermissionCollection pc1, PermissionCollection pc2) {
 Assert.checkNotNullParam("pc1", pc1);
 Assert.checkNotNullParam("pc2", pc2);
 if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
 throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
 }
 if (pc1.implies(ALL_PERMISSION)) {
 return pc2;
 } else if (pc2.implies(ALL_PERMISSION)) {
 return pc1;
 } else {
 return new IntersectionPermissionCollection(pc1, pc2);
 }
}

/**
 * Determine if one collection implies all the permissions in the other collection.
 *
 * @param collection the collection to check against (must not be {@code null})
 * @param testCollection the collection whose permissions are to be tested (must not be {@code null})
 * @return {@code true} if {@code collection} implies all of the permissions in {@code testCollection}, {@code
false} otherwise
 */
public static boolean impliesAll(PermissionCollection collection, PermissionCollection testCollection) {
 return forEachIn(collection, PermissionCollection::implies, testCollection);
}

/**
 * Determine if two permission collections are equal, that is, each collection implies all of the permissions in the

```



```

* other collection.
*
* @param pc1 the first collection (must not be {@code null})
* @param pc2 the second collection (must not be {@code null})
* @return {@code true} if the collections imply one another, {@code false} otherwise
*/
public static boolean equals(PermissionCollection pc1, PermissionCollection pc2) {
 return impliesAll(pc1, pc2) && impliesAll(pc2, pc1);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
public static PermissionCollection addAll(PermissionCollection target, PermissionCollection source) {
 return forEachIn(source, PermissionCollection::add, target);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
public static PermissionCollection addAll(PermissionCollection target, Collection<Permission> source) {
 source.forEach(target::add);
 return target;
}

/**
 * Add a permission to a collection, returning the target collection. If the permission is {@code null}, it is
 * not added.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the permission to add
 * @return the target collection (not {@code null})
 */
public static PermissionCollection add(PermissionCollection target, Permission source) {
 Assert.checkNotNullParam("target", target);
 if (source != null) target.add(source);
 return target;
}

/**

```

```

* Instantiate a permission with the given class name, permission name, and actions.
*
* @param classLoader the class loader to search in ({ @code null } indicates the system class loader)
* @param className the name of the permission class to instantiate (must not be { @code null })
* @param name the permission name (may be { @code null } if allowed by the permission class)
* @param actions the permission actions (may be { @code null } if allowed by the permission class)
* @return the permission object (not { @code null })
* @throws InvalidPermissionClassException if the permission class does not exist or is not valid
* @throws ClassCastException if the class name does not refer to a subclass of { @link Permission}
*/
public static Permission createPermission(final ClassLoader classLoader, final String className, final String
name, final String actions) {
 Assert.checkNotNullParam("className", className);
 final Class<? extends Permission> permissionClass;
 try {
 permissionClass = Class.forName(className, true, classLoader).asSubclass(Permission.class);
 } catch (ClassNotFoundException e) {
 throw ElytronMessages.log.permissionClassMissing(className, e);
 }
 return createPermission(permissionClass, name, actions);
}

/**
* Instantiate a permission with the given class, permission name, and actions.
*
* @param permissionClass the permission class to instantiate (must not be { @code null })
* @param name the permission name (may be { @code null } if allowed by the permission class)
* @param actions the permission actions (may be { @code null } if allowed by the permission class)
* @return the permission object (not { @code null })
* @throws InvalidPermissionClassException if the permission class does not exist or is not valid
*/
public static Permission createPermission(final Class<? extends Permission> permissionClass, final String name,
final String actions) {
 Assert.checkNotNullParam("permissionClass", permissionClass);
 Constructor<? extends Permission> noArgs = null;
 Constructor<? extends Permission> oneArg = null;
 Constructor<? extends Permission> twoArg = null;
 for (Constructor<?> raw : permissionClass.getConstructors()) {
 @SuppressWarnings("unchecked")
 Constructor<? extends Permission> ctor = (Constructor<? extends Permission>) raw;
 final Class<?>[] parameterTypes = ctor.getParameterTypes();
 if (parameterTypes.length == 2 && parameterTypes[0] == String.class && parameterTypes[1] ==
String.class) {
 twoArg = ctor;
 } else if (parameterTypes.length == 1 && parameterTypes[0] == String.class) {
 oneArg = ctor;
 } else if (parameterTypes.length == 0) {
 noArgs = ctor;
 }
 }
}

```

```

 }
}
try {
 if (twoArg != null) {
 return twoArg.newInstance(name, actions);
 } else if (oneArg != null) {
 return oneArg.newInstance(name);
 } else if (noArgs != null) {
 return noArgs.newInstance();
 } else {
 throw ElytronMessages.log.noPermissionConstructor(permissionClass.getName());
 }
} catch (IllegalAccessException e) {
 throw new IllegalAccessException(e.getMessage());
} catch (InstantiationException e) {
 throw ElytronMessages.log.permissionInstantiation(permissionClass.getName(), e);
} catch (InvocationTargetException e) {
 try {
 throw e.getCause();
 } catch (Error | RuntimeException cause) {
 throw cause;
 } catch (Throwable cause) {
 throw new UndeclaredThrowableException(cause);
 }
}
}
}

/**
 * Get a read-only collection of the given permissions.
 *
 * @param permissions the permissions to assign
 * @return the read-only collection
 */
public static PermissionCollection readOnlyCollectionOf(Permission... permissions) {
 final int length = permissions.length;
 if (length == 0) {
 return EMPTY_PERMISSION_COLLECTION;
 } else {
 Permissions collection = new Permissions();
 addAll(collection, Arrays.asList(permissions));
 collection.setReadOnly();
 return collection;
 }
}
}
}
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```

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 \*/

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicInteger;
```

```
import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;
```

```
final class IntNameSetPermissionCollection extends NameSetPermissionCollection {
```

```
 private final AtomicInteger bitSet = new AtomicInteger();
```

```
 IntNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
 super(sourcePermission, nameEnumeration);
 }
```

```
 private Permission permissionFor(int id) {
 return
 ((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
 }
```

```
 protected void doAdd(final AbstractPermission<?> permission) {
 int setBits= getBitsForName(permission);
 final AtomicInteger bitSet = this.bitSet;
 int oldVal;
 do {
 oldVal = bitSet.get();
 if ((oldVal & setBits) == setBits) {
 return;
 }
 } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
 }
```

```

}

public boolean implies(final Permission permission) {
 if (permission.getClass() != getSourcePermission().getClass()) {
 return false;
 }
 long testBits = getBitsForName(permission);
 return (bitSet.get() & testBits) == testBits;
}

public int size() {
 final int size = Integer.bitCount(bitSet.get());
 return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
 return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
 return iterator();
}

private int getBitsForName(final Permission permission) {
 final int bits;
 final String name = permission.getName();
 final StringEnumeration nameEnumeration = getNameEnumeration();
 if ("*".equals(name)) {
 // add all names
 bits = (1 << nameEnumeration.size()) - 1;
 } else {
 bits = 1 << nameEnumeration.indexOf(name);
 }
 return bits;
}

private class Iter implements EnumerationIterator<Permission> {
 private int bits;

 Iter(final int bits) {
 this.bits = bits;
 }

 public boolean hasMoreElements() {
 return bits != 0;
 }

 public Permission nextElement() {

```

```

 final int bits = this.bits;
 if (bits == 0) throw new NoSuchElementException();
 if (Integer.bitCount(bits) == getNameEnumeration().size()) {
 this.bits = 0;
 return ((AbstractNamedPermission<?>) getSourcePermission()).withName("");
 }
 int bit = Integer.lowestOneBit(bits);
 this.bits = bits & ~bit;
 return permissionFor(Integer.numberOfTrailingZeros(bit));
}

public boolean hasNext() {
 return hasMoreElements();
}

public Permission next() {
 return nextElement();
}
}
}
}

```

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```
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*/

```

```
package org.wildfly.security.permission;
```

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

```
import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;
```

```
final class PermissionVerifierPermissionCollection extends PermissionCollection {
 private static final long serialVersionUID = 5119756048547471645L;
```

```
 private final PermissionVerifier verifier;
```

```
 PermissionVerifierPermissionCollection(final PermissionVerifier verifier) {
 this.verifier = verifier;
 setReadOnly();
 }
```

```
 public void add(final Permission permission) {
 throw ElytronMessages.log.readOnlyPermissionCollection();
 }
```

```
 public boolean implies(final Permission permission) {
 return verifier.implies(permission);
 }
```

```
 public Enumeration<Permission> elements() {
 throw Assert.unsupported();
 }
```

```
 }
/*
```

```

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*/

```

```
package org.wildfly.security.permission;
```

```
import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
```

```
final class SerializedPermissionCollection implements Serializable {
 private static final long serialVersionUID = - 8745428905589938281L;

 private final Permission s;
 private final Permission[] p;
 private final boolean r;

 SerializedPermissionCollection(final AbstractPermissionCollection collection) {
 s = collection.getSourcePermission();
 final ArrayList<Permission> list = new ArrayList<>(collection.size());
 collection.forEach(list::add);
 p = list.toArray(PermissionUtil.NO_PERMISSIONS);
 r = collection.isReadOnly();
 }

 Object readResolve() {
 final PermissionCollection collection = s.newPermissionCollection();
 for (Permission permission : p) {
 collection.add(permission);
 }
 if (r) collection.setReadOnly();
 return collection;
 }
}
/*

```

```

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*/

```

```
package org.wildfly.security.auth.permission;
```

```
import org.wildfly.security.permission.AbstractBooleanPermission;
```

```
/**
```

```
* Establish whether the current identity has permission to complete an authentication ("log in").
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public final class LoginPermission extends AbstractBooleanPermission<LoginPermission> {
```

```
 private static final long serialVersionUID = - 5776174571770792690L;
```

```
/**
```

```
* Construct a new instance.
```

```
*/
```

```
public LoginPermission() {
}
```

```
/**
```

```
* Construct a new instance.
```

```
*
```

```
* @param name ignored
```

```
*/
```

```
public LoginPermission(@SuppressWarnings("unused") final String name) {
}
```

```
/**
```

```
* Construct a new instance.
```

```
*
```

```
* @param name ignored
```

```
* @param actions ignored
```

```
*/
```

```
public LoginPermission(@SuppressWarnings("unused") final String name, @SuppressWarnings("unused") final
String actions) {
}
```

```

private static final LoginPermission INSTANCE = new LoginPermission();

/**
 * Get the instance of this class.
 *
 * @return the instance of this class
 */
public static LoginPermission getInstance() {
 return INSTANCE;
}
}
/*
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 */

package org.wildfly.security.permission;

/**
 * A permission which has a name only, and no actions.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractNameOnlyPermission<This extends AbstractNameOnlyPermission<This>> extends
AbstractNamedPermission<This> {
 /**
 * Construct a new instance.
 *
 * @param name the permission name (must not be {@code null})
 */
 protected AbstractNameOnlyPermission(final String name) {
 super(name);
 }

 public AbstractPermissionCollection newPermissionCollection() {

```

```
 return new ByNamePermissionCollection(this);
 }
}
```

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\*/

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
import java.security.Policy;
```

```
import java.security.ProtectionDomain;
```

```
import org.wildfly.common.Assert;
```

```
import org.wildfly.security._private.ElytronMessages;
```

```
/**
```

```
* An interface for objects that can verify permissions.
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
@FunctionalInterface
```

```
public interface PermissionVerifier {
```

```
 /**
```

```
 * Determine if the permission is verified by this object.
```

```
 *
```

```
 * @param permission the permission to verify (must not be { @code null })
```

```

* @return {@code true} if the permission is implied by this verifier, {@code false} otherwise
*/
boolean implies(Permission permission);

/**
 * Return a new verifier which implies permissions which are implied both by this verifier and by the given
 verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier and(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) && other.implies(permission);
}

/**
 * Return a new verifier which implies permissions which are implied either by this verifier or by the given
 verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier or(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) || other.implies(permission);
}

/**
 * Return a new verifier which implies permissions which are implied by only one of this verifier or the given
 verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier xor(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) ^ other.implies(permission);
}

/**
 * Return a new verifier which implies the opposite of this verifier.
 *
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier not() {
 return permission -> !implies(permission);
}

```



```

/**
 * Return a new verifier which implies permissions which are implied by this verifier but not the given verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier unless(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) && ! other.implies(permission);
}

/**
 * Check a permission, throwing an exception if the permission is not implied.
 *
 * @param permission the permission to check (must not be {@code null})
 * @throws SecurityException if the permission is not implied
 */
default void checkPermission(Permission permission) throws SecurityException {
 Assert.checkNotNullParam("permission", permission);
 if (! implies(permission)) {
 throw ElytronMessages.log.permissionCheckFailed(permission, this);
 }
}

/**
 * Get a permission verifier for a single permission.
 *
 * @param permission the permission (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(Permission permission) {
 Assert.checkNotNullParam("permission", permission);
 return permission instanceof PermissionVerifier ? (PermissionVerifier) permission : permission::implies;
}

/**
 * Get a permission verifier for a permission collection.
 *
 * @param permissionCollection the permission collection (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(PermissionCollection permissionCollection) {
 Assert.checkNotNullParam("permissionCollection", permissionCollection);
 return permissionCollection instanceof PermissionVerifier ? (PermissionVerifier) permissionCollection :
permissionCollection::implies;
}

```

```

/**
 * Get a permission verifier for a protection domain.
 *
 * @param protectionDomain the protection domain (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(ProtectionDomain protectionDomain) {
 Assert.checkNotNullParam("protectionDomain", protectionDomain);
 return protectionDomain instanceof PermissionVerifier ? (PermissionVerifier) protectionDomain :
protectionDomain::implies;
}

/**
 * Get a permission verifier for a policy's view of a protection domain.
 *
 * @param policy the policy (must not be {@code null})
 * @param protectionDomain the protection domain (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(Policy policy, ProtectionDomain protectionDomain) {
 Assert.checkNotNullParam("policy", policy);
 Assert.checkNotNullParam("protectionDomain", protectionDomain);
 return permission -> policy.implies(protectionDomain, permission);
}

/**
 * Convert this verifier a permission collection which implies everything this verifier implies. If this instance
 * is already a {@code PermissionCollection} instance, then this instance may be cast and returned. Otherwise,
 * this method may return a new, read-only collection, which cannot be iterated.
 *
 * @return the permission collection (not {@code null})
 */
default PermissionCollection toPermissionCollection() {
 if (this instanceof PermissionCollection) {
 return (PermissionCollection) this;
 } else {
 return new PermissionVerifierPermissionCollection(this);
 }
}

/**
 * A verifier which implies no permissions.
 */
PermissionVerifier NONE = permission -> false;

/**
 * A verifier which implies all permissions.
 */

```

```

 PermissionVerifier ALL = permission -> true;
}
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import java.security.Permission;

/**
 * An abstract base class for named permissions with useful API and implementation methods.
 * <p>
 * Subclasses of this class are always serialized as a special serialized permission object, which captures the type
 * class,
 * the permission name (if any), and the permission action (if any) as a string. Therefore, none of the fields of any
 * subclass of this class are serialized unless they are included in the name or actions properties.
 * <p>
 * Concrete subclasses are expected to be immutable and final.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractNamedPermission<This extends AbstractNamedPermission<This>> extends
AbstractPermission<This> {
 private static final long serialVersionUID = 5774685776540853292L;

 /**
 * Construct a new instance.
 *
 * @param name the permission name (must not be {@code null})
 */
 protected AbstractNamedPermission(final String name) {

```

```

 super(Assert.checkNotNullParam("name", name));
}

/**
 * Create a new permission which is identical to this one, except with a new {@code name}.
 *
 * @param name the name to use (must not be {@code null})
 * @return the new permission
 */
public abstract This withName(String name);

/**
 * Determine whether this permission has a name equal to the given name.
 *
 * @param name the name to check
 * @return {@code true} if this permission's name is equal to the given name, {@code false} otherwise
 */
public boolean nameEquals(final String name) {
 return getName().equals(name);
}

/**
 * Determine whether this permission has a name equal to the name of the given permission. If the given
permission
 * is of a different type than this permission, {@code false} is returned.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
 */
@SuppressWarnings("unchecked")
public final boolean nameEquals(final Permission permission) {
 return permission != null && permission.getClass() == getClass() && nameEquals((This) permission);
}

/**
 * Determine whether this permission has a name equal to the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
 */
public final boolean nameEquals(final This permission) {
 return permission != null && nameEquals(permission.getName());
}

/**
 * Get the hash code of the name. The default implementation returns {@code getName().hashCode()}.

```

```

*
* @return the hash code of the name
*/
protected int nameHashCode() {
 return getName().hashCode();
}

/**
 * Determine whether this permission implies the given name.
 *
 * @param name the name to check
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final String name) {
 return nameEquals("") || nameEquals(name);
}

/**
 * Determine whether this permission implies the name of the given permission. If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesName(final Permission permission) {
 return permission != null && permission.getClass() == getClass() && impliesName((This) permission);
}

/**
 * Determine whether this permission implies the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final This permission) {
 return permission != null && impliesName(permission.getName());
}

public boolean implies(final This permission) {
 return permission != null && impliesName(permission);
}

public boolean equals(final This other) {
 return other != null && nameEquals(other);
}

public int hashCode() {

```

```

 return getClass().hashCode() * 71 + nameHashCode();
 }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security._private.ElytronMessages;
import org.wildfly.security.util.ArrayIterator;

/**
 * A trivially simple permission collection, suitable as a default for most permission types (though probably not as
 * efficient
 * as a specialized type in many cases).
 *
 * @author David M. Lloyd
 */
public final class SimpleActionBitsPermissionCollection extends AbstractPermissionCollection {

 private static final AbstractActionSetPermission<?>[] NO_PERMS = new AbstractActionSetPermission<?>[0];

 private final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = new
AtomicReference<>(NO_PERMS);

 /**
 * Construct a new instance.
 */

```

```

* @param sourcePermission the source permission for this collection (must not be { @code null})
*/
public SimpleActionBitsPermissionCollection(final AbstractActionSetPermission<?> sourcePermission) {
 super(sourcePermission);
}

public int size() {
 return permissionsRef.get().length;
}

@Override
protected void doAdd(final AbstractPermission<?> permission) {
 if (permission instanceof AbstractActionSetPermission<?>) {
 doAdd((AbstractActionSetPermission<?>) permission);
 }
 throw ElytronMessages.log.invalidPermissionType(AbstractActionSetPermission.class, permission);
}

/**
 * Adds a permission.
 *
 * @param permission the non-{@code null} permission
 */
protected void doAdd(final AbstractActionSetPermission<?> permission) {
 AbstractActionSetPermission<?>[] oldVal, readVal, newVal;
 int count;
 final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = this.permissionsRef;
 do {
 readVal = permissionsRef.get();
 count = 0;
 do {
 oldVal = readVal;
 AbstractActionSetPermission<?> merged = permission;
 retry: for (;;) {
 for (AbstractActionSetPermission<?> test : oldVal) {
 if (test.implies(merged)) {
 // fail fast
 return;
 }
 if (test.nameEquals(merged)) {
 // combine
 merged = merged.withActionBits(permission.getActionBits());
 // test again with merged permission
 count = 0;
 continue retry;
 }
 }
 if (!merged.implies(test)) {
 // prepare to skip any permissions that are obviated by this one

```

```

 count ++;
 }
}
break;
}
// see if it's still what we expect before we commit to the possibly expensive update...
readVal = permissionsRef.get();
} while (readVal != oldVal);
newVal = new AbstractActionSetPermission<?>[count + 1];
int i = 0;
for (AbstractActionSetPermission<?> test : oldVal) {
 if (! permission.implies(test)) {
 newVal[i++] = test;
 }
}
newVal[i] = permission;
} while (! permissionsRef.compareAndSet(oldVal, newVal));
}

```

```

public boolean implies(final Permission permission) {
 for (Permission test : permissionsRef.get()) {
 if (test.implies(permission)) {
 return true;
 }
 }
 return false;
}

```

```

public Iterator<Permission> iterator() {
 return new ArrayIterator<Permission>(permissionsRef.get());
}

```

```

public Enumeration<Permission> elements() {
 return new ArrayIterator<Permission>(permissionsRef.get());
}
}

```

/\*

```

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```



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\*/

```
package org.wildfly.security.permission;
```

```
import org.wildfly.security.util.StringEnumeration;
```

```
/**
```

```
 * An actionless permission with a finite, fixed set of possible names.
```

```
 *
```

```
 * @author David M. Lloyd
```

```
 */
```

```
public abstract class AbstractNameSetOnlyPermission<This extends AbstractNameSetOnlyPermission<This>>
extends AbstractNameOnlyPermission<This> {
```

```
 private final StringEnumeration nameEnumeration;
```

```
 /**
```

```
 * Construct a new instance.
```

```
 *
```

```
 * @param name the name of this permission
```

```
 * @param nameEnumeration the set of valid names for this permission type
```

```
 */
```

```
 protected AbstractNameSetOnlyPermission(final String name, final StringEnumeration nameEnumeration) {
 super("'" + name + "' : " + nameEnumeration.canonicalName(name));
 this.nameEnumeration = nameEnumeration;
 }
}
```

```
 StringEnumeration getNameEnumeration() {
```

```
 return nameEnumeration;
```

```
 }
```

```
 public AbstractPermissionCollection newPermissionCollection() {
```

```
 return NameSetPermissionCollection.newInstance(this, nameEnumeration);
```

```
 }
```

```
 public final boolean nameEquals(final String name) {
```

```
 return super.nameEquals(name);
```

```
 }
```

```
 public final boolean impliesName(final String name) {
```

```
 return super.impliesName(name);
```

```
 }
```

```
 protected final int nameHashCode() {
```

```

 return nameEnumeration.indexOf(getName());
 }
}
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 */

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
 * The permission to change a role mapper category on a security identity.
 */
public final class ChangeRoleMapperPermission extends
AbstractNameOnlyPermission<ChangeRoleMapperPermission> {

 private static final long serialVersionUID = - 6742662884954321082L;

 /**
 * Construct a new instance.
 *
 * @param name the category name, or { @code * } for all categories
 */
 public ChangeRoleMapperPermission(final String name) {
 super(name);
 }

 /**
 * Construct a new instance.
 *
 * @param name the category name, or { @code * } for all categories
 * @param ignored the permission actions (ignored)
 */

```

```

public ChangeRoleMapperPermission(final String name, @SuppressWarnings("unused") final String ignored) {
 this(name);
}

public ChangeRoleMapperPermission withName(final String name) {
 return new ChangeRoleMapperPermission(name);
}
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.security._private.ElytronMessages;

/**
 * An abstract base class for any permission.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractPermission<This extends AbstractPermission<This>> extends Permission implements
PermissionVerifier {
 /**
 * Construct a new instance.
 *
 * @param name the permission name
 */
 protected AbstractPermission(final String name) {
 super(name);
 }
}

```

```

/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean implies(Permission permission) {
 return permission != null && getClass() == permission.getClass() && implies((This) permission);
}

/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean implies(This permission);

/**
 * Determine whether this permission object is equal to another object.
 *
 * @param obj the object to compare to
 * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean equals(final Object obj) {
 return obj != null && obj.getClass() == getClass() && equals((This) obj);
}

/**
 * Determine whether this permission object is equal to another object of this permission type.
 *
 * @param other the permission to compare to
 * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
 */
public abstract boolean equals(This other);

/**
 * Get the hash code of this permission. The result must be consistent with the defined {@code #equals(
AbstractPermission)}
 * result.
 *
 * @return the hash code of this permission
 */
public abstract int hashCode();

/**

```

```

* Get the actions string. The default implementation always returns an empty string.
*
* @return the actions string (not { @code null })
*/
public String getActions() {
 return "";
}

/**
* Get an empty permission collection which is capable of holding instances of this permission type.
* <p>
* The default implementation returns a { @link SimplePermissionCollection}.
*
* @return the permission collection to use
*/
public AbstractPermissionCollection newPermissionCollection() {
 return new SimplePermissionCollection(this);
}

/**
* Check to ensure that the given action string is empty or { @code null}; otherwise, throw an exception.
*
* @param actions the actions string
* @throws IllegalArgumentException if the actions string is not empty
*/
protected static void requireEmptyActions(final String actions) throws IllegalArgumentException {
 if (actions != null && ! actions.isEmpty()) {
 throw ElytronMessages.log.expectedEmptyActions(actions);
 }
}

final Object writeReplace() {
 return new SerializedPermission(getClass(), getName(), getActions());
}
}

```

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```

```
package org.wildfly.security.permission;
```

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

```
import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;
```

```
/**
```

```
 * Base class for useful permission collections.
```

```
 *
```

```
 * @author David M. Lloyd
```

```
 */
```

```
public abstract class AbstractPermissionCollection extends PermissionCollection implements Iterable<Permission>,
PermissionVerifier {
```

```
 private static final long serialVersionUID = - 7532778883140764647L;
```

```
 private final AbstractPermission<?> sourcePermission;
```

```
 /**
```

```
 * Construct a new instance.
```

```
 *
```

```
 * @param sourcePermission the source permission for this collection (must not be { @code null})
```

```
 */
```

```
 protected AbstractPermissionCollection(final AbstractPermission<?> sourcePermission) {
```

```
 Assert.checkNotNullParam("sourcePermission", sourcePermission);
```

```
 this.sourcePermission = sourcePermission;
```

```
 }
```

```
 /**
```

```
 * Get the size of this permission collection.
```

```

*
* @return the size of this permission collection
*/
public abstract int size();

/**
* Iterate over this permission collection.
*
* @return the iterator (not { @code null})
*/
public abstract Iterator<Permission> iterator();

/**
* Iterate over this permission collection.
*
* @return the iterator (not { @code null})
*/
public abstract Enumeration<Permission> elements();

/**
* Add an item to this collection. The permission class must be the same as the source permission's class.
*
* @param permission the permission to add (must not be { @code null})
*/
public final void add(final Permission permission) {
 Assert.checkNotNullParam("permission", permission);
 if (isReadOnly()) throw ElytronMessages.log.readOnlyPermissionCollection();
 @SuppressWarnings("rawtypes")
 Class<? extends AbstractPermission> expected =
sourcePermission.getClass().asSubclass(AbstractPermission.class);
 if (expected != permission.getClass()) {
 throw ElytronMessages.log.invalidPermissionType(expected, permission);
 }
 doAdd(expected.cast(permission));
}

/**
* Perform the work of adding a permission. The permission is guaranteed to be of the correct type and the
collection
* is guaranteed to have been writable at the time the { @link #add(Permission)} method was called.
*
* @param permission the non-{@code null} permission
*/
protected abstract void doAdd(final AbstractPermission<?> permission);

final AbstractPermission<?> getSourcePermission() {
 return sourcePermission;
}

```

```

 final Object writeReplace() {
 return new SerializedPermissionCollection(this);
 }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.ConcurrentHashMap;

/**
 * A permission collection for actionless permissions which are organized by name.
 *
 * @author David M. Lloyd
 */
public final class ByNamePermissionCollection extends AbstractPermissionCollection {
 private final ConcurrentHashMap<String, Permission> byName = new ConcurrentHashMap<>();
 private volatile Permission all;

 /**
 * The source permission used to construct this collection.
 *
 * @param sourcePermission the source permission (must not be { @code null })
 */
 public ByNamePermissionCollection(final AbstractPermission<?> sourcePermission) {

```

```

 super(sourcePermission);
}

public int size() {
 return all != null ? 1 : byName.size();
}

public Iterator<Permission> iterator() {
 return getIterablePermissions().iterator();
}

public Enumeration<Permission> elements() {
 return Collections.enumeration(getIterablePermissions());
}

private Collection<Permission> getIterablePermissions() {
 return all != null ? Collections.singleton(all) :
Arrays.asList(byName.values().toArray(PermissionUtil.NO_PERMISSIONS));
}

protected void doAdd(final AbstractPermission<?> permission) {
 if (permission.getName().equals("")) {
 all = permission;
 byName.clear();
 } else {
 byName.putIfAbsent(permission.getName(), permission);
 }
}

public boolean implies(final Permission permission) {
 if (permission == null || getSourcePermission().getClass() != permission.getClass()) {
 return false;
 }
 final Permission all = this.all;
 if (all != null) {
 return all.implies(permission);
 }
 final Permission ourPermission = byName.get(permission.getName());
 return ourPermission != null && ourPermission.implies(permission);
}
}
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- \*/

```
package org.wildfly.security.permission;
```

```
import org.wildfly.common.Assert;
```

```
import org.wildfly.security.util.StringEnumeration;
```

```
/**
```

- \* A permission collection for permissions with a finite set of names, which is based on a simple bit set.
- \* In this type of collection, each bit represents a unique permission of a given name. This type is not suitable for
- \* permissions with actions.

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public abstract class NameSetPermissionCollection extends AbstractPermissionCollection {
```

```
 private static final long serialVersionUID = - 9191397492173027470L;
```

```
 private final StringEnumeration nameEnumeration;
```

```
/**
```

- \* Construct a new instance. The name enumeration is pulled from the source permission object.

```
*
```

```
* @param sourcePermission the source permission object (must not be { @code null })
```

```
* @return the permission collection
```

```
*/
```

```
 public static AbstractPermissionCollection newInstance(final AbstractNameSetOnlyPermission<?>
sourcePermission) {
```

```
 return newInstance(sourcePermission, sourcePermission.getNameEnumeration());
```

```
 }
```

```
/**
```

- \* Construct a new instance.

```
*
```

```
* @param sourcePermission the source permission object (must not be { @code null })
```

```
* @param nameEnumeration the name enumeration for this permission type (must not be { @code null })
```

```
* @return the permission collection
```

```
*/
```

```
 public static AbstractPermissionCollection newInstance(final AbstractPermission<?> sourcePermission, final
StringEnumeration nameEnumeration) {
```

```
 Assert.checkNotNullParam("sourcePermission", sourcePermission);
```

```

 Assert.checkNotNullParam("nameEnumeration", nameEnumeration);
 final int size = nameEnumeration.size();
 if (size <= 32) {
 return new IntNameSetPermissionCollection(sourcePermission, nameEnumeration);
 } else if (size <= 64) {
 return new LongNameSetPermissionCollection(sourcePermission, nameEnumeration);
 } else {
 // TODO: add GiantNameSetPermissionCollection which uses AtomicIntegerArray
 throw Assert.unsupported();
 }
}

NameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
 super(sourcePermission);
 this.nameEnumeration = nameEnumeration;
}

StringEnumeration getNameEnumeration() {
 return nameEnumeration;
}
}
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 */

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

```

```

final class IntersectionPermissionCollection extends PermissionCollection implements PermissionVerifier {
 private static final long serialVersionUID = 8045087406778847303L;

 private final PermissionCollection pc1;
 private final PermissionCollection pc2;

 IntersectionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
 this.pc1 = pc1;
 this.pc2 = pc2;
 setReadOnly();
 }

 public void add(final Permission permission) {
 throw ElytronMessages.log.readOnlyPermissionCollection();
 }

 public boolean implies(final Permission permission) {
 return pc1.implies(permission) && pc2.implies(permission);
 }

 public Enumeration<Permission> elements() {
 // TODO: this is theoretically possible to implement using an IntersectionCollectionPermission;
 // however the primary use case is going to be in protection domains and verification scenarios so we may
 // not ever actually need this
 throw Assert.unsupported();
 }
}
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package org.wildfly.security.permission;

```



```

import java.security.Permission;

import org.wildfly.common.Assert;

/**
 * An abstract base class for named permissions that have actions, with useful API and implementation methods. All
 * the constraints described in { @link AbstractNamedPermission } apply.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractActionPermission<This extends AbstractActionPermission<This>> extends
AbstractNamedPermission<This> {
 private static final long serialVersionUID = - 1366777243917643233L;

 /**
 * Construct a new instance.
 *
 * @param name the permission name
 */
 protected AbstractActionPermission(final String name) {
 super(name);
 }

 /**
 * Determine whether this permission implies another permission. Returns { @code true } if
 * both { @link #impliesActions(AbstractActionPermission) } and { @link
 #impliesName(AbstractNamedPermission) }
 * return { @code true }.
 *
 * @param permission the other permission
 * @return { @code true } if this permission implies the other; { @code false } otherwise
 */
 public final boolean implies(final This permission) {
 return permission != null && impliesActions(permission) && impliesName(permission);
 }

 /**
 * Determine whether this permission is equal to another permission. Returns { @code true } if
 * both { @link #actionsEquals(AbstractActionPermission) } and { @link
 #nameEquals(AbstractNamedPermission) }
 * return { @code true }.
 *
 * @param permission the other permission
 * @return { @code true } if this permission implies the other; { @code false } otherwise
 */
 public final boolean equals(final This permission) {
 return super.equals(permission) && actionsEquals(permission);
 }
}

```

```

public final int hashCode() {
 return super.hashCode() * 53 + actionsHashCode();
}

/**
 * Determine whether the actions of this permission are equal to the given {@code actions}.
 *
 * @param actions the actions string (must not be {@code null})
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(String actions);

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}. If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean actionsEquals(Permission permission) {
 return permission != null && permission.getClass() == getClass() && actionsEquals((This) permission);
}

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(This permission);

/**
 * Get the actions hash code.
 *
 * @return the actions hash code
 */
protected abstract int actionsHashCode();

/**
 * Determine whether this permission's actions value implies the given actions value.
 *
 * @param actions the actions to test (must not be {@code null})
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean impliesActions(String actions);

```

```

/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}. If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesActions(Permission permission) {
 return permission != null && permission.getClass() == getClass() && impliesActions((This) permission);
}

/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean impliesActions(This permission);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the actions from the given string. The returned permission may or may not be a new
 * instance, and may be equal to this instance.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @return the permission (not {@code null})
 */
public abstract This withActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the actions from the given permission. The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
public This withActionsFrom(This permission) {
 Assert.checkNotNullParam("permission", permission);
 return withActions(permission.getActions());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the actions from the given string. The returned permission may or may not be a
new

```

```

* instance, and may be equal to this instance.
*
* @param actionsString the actions string (must not be {@code null})
* @return the permission (not {@code null})
*/
public abstract This withoutActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the actions from the given permission. The returned permission may or may not
be a new
 * instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
public This withoutActionsFrom(This permission) {
 Assert.checkNotNullParam("permission", permission);
 return withActions(permission.getActions());
}

/**
 * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @return the permission (not {@code null})
 */
public abstract This withNewActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
public This withNewActionsFrom(This permission) {
 Assert.checkNotNullParam("permission", permission);
 return withNewActions(permission.getActions());
}
}

```

## 1.581 wrench 1.5.9

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## 1.582 cxf-tools-common 3.2.5-jbossorg-1

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C^{®} SOFTWARE NOTICE AND LICENSE</h1>
```

```
<h3>Copyright © 1994-2002 World
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Wide Web Consortium, (<a
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href="http://www.lcs.mit.edu/">Massachusetts Institute of
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##
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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```

```
#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
 License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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 */

```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */

```

```

public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

}

```

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\*/

package org.apache.cxf.rs.security.oauth.data;

/\*\*

\* Base permission description which is visible to

\* authorization handlers

\* @see OAuthAuthorizationData

\*/

public class Permission {

private String permission;

private String description;

private boolean isDefault;

public Permission() {

```

}

public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
}

public String getDescription() {
 return description;
}

public void setDescription(String description) {
 this.description = description;
}

public String getPermission() {
 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
```



```
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
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```

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### 1.585 loose-envify 1.4.0

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## 1.593 oauth-dart 1.2.1

## 1.594 microprofile-config-api 1.3

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# 1.595 jboss-modules 1.8.6.Final

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## 1.596 okhttp 3.3.1

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## 1.597 antlr 2.7.7

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parr@antlr.org

## 1.598 netty-resolver-dns 4.1.19.Final

## 1.599 keycloak-core 4.8.3.Final

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 */
package org.keycloak.representations.idm.authorization;

import java.util.HashSet;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
```

```

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
import com.fasterxml.jackson.annotation.JsonInclude;
import com.fasterxml.jackson.annotation.JsonProperty;

/**
 * @author Pedro Igor
 */
@JsonIgnoreProperties(ignoreUnknown = true)
public class Permission {

 @JsonProperty("rsid")
 private String resourceId;

 @JsonProperty("rsname")
 private String resourceName;

 @JsonInclude(JsonInclude.Include.NON_EMPTY)
 private Set<String> scopes;

 @JsonInclude(JsonInclude.Include.NON_EMPTY)
 private final Map<String, Set<String>> claims;

 public Permission() {
 this(null, null, null, null);
 }

 public Permission(final String resourceId, final Set<String> scopes) {
 this(resourceId, null, scopes, null);
 }

 public Permission(final String resourceId, String resourceName, final Set<String> scopes, Map<String,
Set<String>> claims) {
 this.resourceId = resourceId;
 this.resourceName = resourceName;
 this.scopes = scopes;
 this.claims = claims;
 }

 public void setResourceId(String resourceId) {
 this.resourceId = resourceId;
 }

 public String getResourceId() {
 if (resourceId == null || "".equals(resourceId.trim())) {
 return null;
 }
 return this.resourceId;
 }
}

```

```

public void setResourceName(String resourceName) {
 this.resourceName = resourceName;
}

public String getResourceName() {
 return this.resourceName;
}

public Set<String> getScopes() {
 if (this.scopes == null) {
 this.scopes = new HashSet<>();
 }

 return this.scopes;
}

public Map<String, Set<String>> getClaims() {
 return claims;
}

@Override
public boolean equals(Object o) {
 if (this == o) return true;
 if (o == null || !getClass().isAssignableFrom(o.getClass())) return false;

 Permission that = (Permission) o;

 if (getResourceId() != null || getResourceName() != null) {
 if (!getResourceId().equals(that.getResourceId())) {
 return false;
 }

 if (getScopes().isEmpty() && that.getScopes().isEmpty()) {
 return true;
 }
 } else if (that.getResourceId() != null) {
 return false;
 }

 for (String scope : that.getScopes()) {
 if (getScopes().contains(scope)) {
 return true;
 }
 }

 return false;
}

```

```

@Override
public int hashCode() {
 return Objects.hash(resourceId);
}

@Override
public String toString() {
 StringBuilder builder = new StringBuilder();

 builder.append("Permission {").append("id=").append(resourceId).append(", name=").append(resourceName)
 .append(", scopes=").append(scopes).append("}");

 return builder.toString();
}

public void setScopes(Set<String> scopes) {
 this.scopes = scopes;
}
}

```

## 1.600 compensations 5.9.0.Final

## 1.601 graphql 14.0.2

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# 1.602 wildfly-clustering-singleton-api

## 14.0.1.Final

# 1.603 maven-model 3.3.9

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```
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package org.apache.maven.model;

/**
 * Describes the licenses for this project. This is used to
 * generate the license
 * page of the project's web site, as well as being taken
 * into consideration in other reporting
 * and validation. The licenses listed for the project are
 * that of the project itself, and not
 * of dependencies.
 *
 * @version $Revision$ $Date$
 */
@SuppressWarnings("all")
public class License
 implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

 //-----/
 //- Class/Member Variables -/
 //-----/

 /**
 * The full legal name of the license.
 */
 private String name;

 /**
 * The official url for the license text.
 */
}
```

```

*/
private String url;

/**
 *
 *
 * The primary method by which this project may be
 * distributed.
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 */
private String distribution;

/**
 * Addendum information pertaining to this license.
 */
private String comments;

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;

//-----/
// - Methods -/
//-----/

/**
 * Method clone.
 *
 * @return License
 */
public License clone()
{
 try
 {
 License copy = (License) super.clone();

 if (copy.locations != null)

```

```

 {
 copy.locations = new java.util.LinkedHashMap(copy.locations);
 }

 return copy;
 }
 catch (java.lang.Exception ex)
 {
 throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException(getClass().getName()
 + " does not support clone()").initCause(ex);
 }
} //-- License clone()

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
 return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.
 *
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 * @return String
 */
public String getDistribution()
{
 return this.distribution;
} //-- String getDistribution()

/**
 *
 *
 * @param key
 * @return InputLocation
 */

```

```

public InputLocation getLocation(Object key)
{
 return (locations != null) ? locations.get(key) : null;
} //-- InputLocation getLocation(Object)

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
 return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl()
{
 return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments(String comments)
{
 this.comments = comments;
} //-- void setComments(String)

/**
 * Set the primary method by which this project may be
 * distributed.
 *
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 * @param distribution

```



```

*/
public void setDistribution(String distribution)
{
 this.distribution = distribution;
} //-- void setDistribution(String)

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation(Object key, InputLocation location)
{
 if (location != null)
 {
 if (this.locations == null)
 {
 this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
 }
 this.locations.put(key, location);
 }
} //-- void setLocation(Object, InputLocation)

/**
 * Set the full legal name of the license.
 *
 * @param name
 */
public void setName(String name)
{
 this.name = name;
} //-- void setName(String)

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl(String url)
{
 this.url = url;
} //-- void setUrl(String)

}

```

Maven Model

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```
// ===== DO NOT EDIT THIS FILE =====
// Generated by Modello 1.8.3,
// any modifications will be overwritten.
// =====
```

```
package org.apache.maven.model;
```

```
/**
```

```
 * Description of a person who has contributed to the project, but
 * who does not have
 * commit privileges. Usually, these contributions come in
 * the form of patches submitted.
```

```
 *
```

```
 * @version $Revision$ $Date$
```

```
 */
```

```
@SuppressWarnings("all")
```

```
public class Contributor
```

```
 implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{
```

```
 //-----/
```

```
 //- Class/Member Variables -/
```

```
 //-----/
```

```
/**
```

```
 * The full name of the contributor.
```

```
 */
```

```
private String name;
```

```
/**
```

```
 * The email address of the contributor.
```

```
 */
```

```
private String email;
```

```
/**
```

```
 * The URL for the homepage of the contributor.
```

```
 */
```

```
private String url;
```

```
/**
```

```
 * The organization to which the contributor belongs.
```

```
 */
```

```
private String organization;
```

```
/**
```

```

* The URL of the organization.
*/
private String organizationUrl;

/**
* Field roles.
*/
private java.util.List<String> roles;

/**
*
*
* The timezone the contributor is in. Typically,
* this is a number in the range
* <a
* href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12
* to <a
* href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14
* or a valid time zone id like
* "America/Montreal" (UTC-05:00) or "Europe/Paris"
* (UTC+01:00).
*
*
*/
private String timezone;

/**
* Field properties.
*/
private java.util.Properties properties;

/**
* Field locations.
*/
private java.util.Map<Object, InputLocation> locations;

//-----/
// Methods -/
//-----/

/**
* Method addProperty.
*
* @param key
* @param value
*/
public void addProperty(String key, String value)

```

```

{
 getProperties().put(key, value);
} //-- void addProperty(String, String)

/**
 * Method addRole.
 *
 * @param string
 */
public void addRole(String string)
{
 getRoles().add(string);
} //-- void addRole(String)

/**
 * Method clone.
 *
 * @return Contributor
 */
public Contributor clone()
{
 try
 {
 Contributor copy = (Contributor) super.clone();

 if (this.roles != null)
 {
 copy.roles = new java.util.ArrayList<String>();
 copy.roles.addAll(this.roles);
 }

 if (this.properties != null)
 {
 copy.properties = (java.util.Properties) this.properties.clone();
 }

 if (copy.locations != null)
 {
 copy.locations = new java.util.LinkedHashMap(copy.locations);
 }

 return copy;
 }
 catch (java.lang.Exception ex)
 {
 throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException(getClass().getName()
 + " does not support clone()").initCause(ex);
 }
}

```

```

} //-- Contributor clone()

/**
 * Get the email address of the contributor.
 *
 * @return String
 */
public String getEmail()
{
 return this.email;
} //-- String getEmail()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation(Object key)
{
 return (locations != null) ? locations.get(key) : null;
} //-- InputLocation getLocation(Object)

/**
 * Get the full name of the contributor.
 *
 * @return String
 */
public String getName()
{
 return this.name;
} //-- String getName()

/**
 * Get the organization to which the contributor belongs.
 *
 * @return String
 */
public String getOrganization()
{
 return this.organization;
} //-- String getOrganization()

/**
 * Get the URL of the organization.
 *
 * @return String
 */

```

```

public String getOrganizationUrl()
{
 return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties.
 *
 * @return Properties
 */
public java.util.Properties getProperties()
{
 if (this.properties == null)
 {
 this.properties = new java.util.Properties();
 }

 return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles.
 *
 * @return List
 */
public java.util.List<String> getRoles()
{
 if (this.roles == null)
 {
 this.roles = new java.util.ArrayList<String>();
 }

 return this.roles;
} //-- java.util.List<String> getRoles()

/**
 * Get the timezone the contributor is in. Typically, this is a
 * number in the range
 * <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14
 * or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 * @return String
 */

```

```

public String getTimezone()
{
 return this.timezone;
} //-- String getTimezone()

/**
 * Get the URL for the homepage of the contributor.
 *
 * @return String
 */
public String getUrl()
{
 return this.url;
} //-- String getUrl()

/**
 * Method removeRole.
 *
 * @param string
 */
public void removeRole(String string)
{
 getRoles().remove(string);
} //-- void removeRole(String)

/**
 * Set the email address of the contributor.
 *
 * @param email
 */
public void setEmail(String email)
{
 this.email = email;
} //-- void setEmail(String)

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation(Object key, InputLocation location)
{
 if (location != null)
 {
 if (this.locations == null)
 {
 this.locations = new java.util.LinkedHashMap<Object, InputLocation>();

```

```

 }
 this.locations.put(key, location);
}
} //-- void setLocation(Object, InputLocation)

/**
 * Set the full name of the contributor.
 *
 * @param name
 */
public void setName(String name)
{
 this.name = name;
} //-- void setName(String)

/**
 * Set the organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization(String organization)
{
 this.organization = organization;
} //-- void setOrganization(String)

/**
 * Set the URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl(String organizationUrl)
{
 this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl(String)

/**
 * Set properties about the contributor, such as an instant
 * messenger handle.
 *
 * @param properties
 */
public void setProperties(java.util.Properties properties)
{
 this.properties = properties;
} //-- void setProperties(java.util.Properties)

/**
 * Set the roles the contributor plays in the project. Each

```



```

* role is described by a
* <code>role</code> element, the body of which is
* a role name. This can also be used to
* describe the contribution.
*
* @param roles
*/
public void setRoles(java.util.List<String> roles)
{
 this.roles = roles;
} //-- void setRoles(java.util.List)

/**
* Set the timezone the contributor is in. Typically, this is a
* number in the range
* <a
* href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12
* to <a
* href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14
* or a valid time zone id like
* "America/Montreal" (UTC-05:00) or "Europe/Paris"
* (UTC+01:00).
*
* @param timezone
*/
public void setTimezone(String timezone)
{
 this.timezone = timezone;
} //-- void setTimezone(String)

/**
* Set the URL for the homepage of the contributor.
*
* @param url
*/
public void setUrl(String url)
{
 this.url = url;
} //-- void setUrl(String)
}

```

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## 1.604 opensaml-xacml-impl 3.3.0

## 1.605 infinispn-core 9.3.1.Final

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## 1.607 jsch 0.1.54

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## 1.608 balloon-css 0.5.0

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## 1.609 cxf-rt-features-clustering 3.2.5-

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*/
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
```

```
* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
```

```
*/
```

```
public interface CopyingOutputStream {
```

```
 int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
```

```
<title>Eclipse Public License - Version 1.0</title>
```

```
<style type="text/css">
```

```
body {
```

```
 size: 8.5in 11.0in;
```

```
 margin: 0.25in 0.5in 0.25in 0.5in;
```

```
 tab-interval: 0.5in;
```

```
}
```

```
p {
```

```
 margin-left: auto;
```

```
 margin-top: 0.5em;
```

```
 margin-bottom: 0.5em;
```

```
}
```

```
p.list {
```

```
 margin-left: 0.5in;
```

```
 margin-top: 0.05em;
```

```
 margin-bottom: 0.05em;
```

```
}
```

</style>

</head>

<body lang="EN-US">

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }
}
```

```
/**
```

```
* Indicates that this permission has been allocated by default.
* Authorization View handlers may use this property in order to restrict
* the list of scopes which may be refused to non-default scopes only
* @param isDefault
```

```
*/
```

```

public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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##
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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```

```

#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))

```

```

$project.name #if ($project.url) ($project.url) #end $project.artifact
 License: $license.name #if ($license.url) ($license.url) #end

```

```

#end
#end
#end

```

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
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# 1.615 tcmmalloc-includign-perftools-and-libunwind 2.4.91

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### 4

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## 1.619 wildfly-core-model-test-framework

### 6.0.2.Final

## 1.620 jackson-core 2.10.3

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# 1.621 snake-yaml 1.17

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## 1.622 json-schema-validator 0.1.13

## 1.623 javax-enterprise-concurrent 1.0

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Specification: JSR-236 Concurrency Utilities for Java EE ("Specification")

Version: 1.0

Status: Final Release

Specification Lead: Oracle America, Inc. ("Specification Lead")

Release: May 2013

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## 1.624 common-spi 5.0.3.Final

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body text="#000000" bgcolor="#FFFFFF">
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\*/

package org.apache.cxf.io;

import java.io.IOException;  
import java.io.InputStream;

/\*\*

\* Marker interface for OutputStreams that can directly support  
\* copying from an input stream. OutputStreams that maintain their  
\* own byte buffer or similar may be able to optimize the copy  
\* instead of using the read/write into a temporary buffer that  
\* the normal IOUtils.copy method requires.  
\*/

public interface CopyingOutputStream {

```

int copyFrom(InputStream in) throws IOException;

}
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }
}
```

```

 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }

 /**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
 public void setDefault(boolean value) {
 this.isDefault = value;
 }

 public boolean isDefault() {
 return isDefault;
 }
}

```

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```

```
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#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url) ($project.url) #end $project.artifact
License: $license.name #if ($license.url) ($license.url) #end
```

```
#end
#end
#end
```

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- \*/

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
```

```
* authorization handlers
```

```
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
```

```
 private String permission;
```

```
 private String description;
```

```
 private boolean isDefault;
```

```

public Permission() {

}

public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
}

public String getDescription() {
 return description;
}

public void setDescription(String description) {
 this.description = description;
}

public String getPermission() {
 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml">

```
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
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 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
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 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>

</head>

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C^{®} SOFTWARE NOTICE AND LICENSE</h1>
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<h3>Copyright © 1994-2002 World
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href="http://www.lcs.mit.edu/">Massachusetts Institute of
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</body>

</html>

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$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
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```

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#set ($apacheTxt = "The Apache Software License, Version 2.0")

#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))

$project.name #if ($project.url) ($project.url) #end $project.artifact
License: $license.name #if ($license.url) ($license.url) #end
```

#end

#end

#end

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 */
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {
```

```
 int copyFrom(InputStream in) throws IOException;
```



}

# 1.629 kie-soup-project-datamodel-commons

## 7.11.0.Final

## 1.630 rxjava 2.1.16

## 1.631 inherits 2.0.3

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## 1.632 querystringify 2.1.0

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## 1.633 javax-el-impl 3.0.1-b08-jbossorg-1

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## 1.635 jackson-dataformat-msgpack 0.8.16

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 <copyright>
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 <option name="myName" value="msgpack" />
 <option name="keyword" value="MessagePack for Java" />
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 </copyright>
</component>
```

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```
<component name="CopyrightManager">
```

```
<settings default="msgpack">
```

```
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```

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## 1.638 inflight 1.0.6

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## 1.639 wildfly-ormtransformer 14.0.1.Final

## 1.640 runtime-shared 0.20.1

## 1.641 xsom 2.3.0

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## 1.643 xnio-api 3.6.5.Final

## 1.644 async-dart 1.12.0

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## 1.646 jgrapht-core 1.1.0

# 1.647 wildfly-weld-common 14.0.1.Final

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## 1.649 CiscoSSL 1.0.2t.6.2.364

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\* iv\_gen.h - generic IV generator to be used with protocols  
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* /opt/ws_local/PERMITS_SQL/1019985709_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-
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1.0.2t.6.2.364/include/openssl/pem.h
* /opt/ws_local/PERMITS_SQL/1019985709_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-
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- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/md4.h
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- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/asn1\_mac.h
- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/sha.h
- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/rand.h
- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/blowfish.h
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- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/asn1.h
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- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/buffer.h
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- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/ripemd.h
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- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/lhash.h
- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/dh.h
- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/x509\_vfy.h
- \* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-1.0.2t.6.2.364/include/openssl/hmac.h
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\* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-  
1.0.2t.6.2.364/include/openssl/dsa.h  
\* /opt/ws\_local/PERMITS\_SQL/1019985709\_1598539050.3/0/ciscossl-1-0-2t-6-2-364-tar-gz/ciscossl/ciscossl-  
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## 1.651 wildfly-domain-http-error-context

### 6.0.2.Final

# 1.652 bootstrap 4.3.1

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# 1.653 hdrhistogram 2.1.10

# 1.654 guava 25.0

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## 1.655 keycloak-client-cli-dist 4.8.3.Final

## 1.656 plexus-security-dispatcher-component 1.3

## 1.657 sqlite-amalgamation 3.26.0

## 1.658 jbossxts 5.9.0.Final

## 1.659 vue-router 3.0.2

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# 1.660 keycloak-saml-core-public 4.8.3.Final

## 1.661 picketbox 5.0.3.Final

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 */
package org.jboss.security.authorization;

/**
 * <p>
 * Marker interface for permission objects.
 * </p>
 *
 * @author Stefan Guilhen
 */
public interface Permission
{
}
```

# 1.662 picketbox-spi-bare 5.0.3.Final

# 1.663 netty-handler 4.1.19.Final

# 1.664 jboss-jaxb-api-2-3-spec 1.0.1.Final

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## 1.666 url-parse 1.4.7

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml">

```
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body text="#000000" bgcolor="#FFFFFF">
<h1>W3C^{®} SOFTWARE NOTICE AND LICENSE</h1>
```

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<address><a href=" ../Help/Webmaster.html">webmaster</a><br />(last updated \$Date\$)</address>  
</body>  
</html>

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```

\*/

```
package org.apache.cxf.rs.security.oauth.data;
```

/\*\*

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
```

\*/

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 }
}
```

```

 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }

 /**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
 public void setDefault(boolean value) {
 this.isDefault = value;
 }

 public boolean isDefault() {
 return isDefault;
 }
}
###
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```

```
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##
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##
```

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#set ($apacheTxt = "The Apache Software License, Version 2.0")
```

```
#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
 License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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- \*/

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

/\*\*

- \* Marker interface for OutputStreams that can directly support
- \* copying from an input stream. OutputStreams that maintain their
- \* own byte buffer or similar may be able to optimize the copy
- \* instead of using the read/write into a temporary buffer that
- \* the normal IOUtils.copy method requires.
- \*/

```
public interface CopyingOutputStream {
```

```
 int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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## 1.668 msgpack-core 0.8.14

## 1.669 wordwrap 0.0.3

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# 1.670 commons-csv 1.5

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## 1.672 hibernate-envers 5.3.6.Final

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## 1.673 commons 2.4.7.Final

## 1.674 opensaml-xacml-saml-impl 3.3.0

## 1.675 duosecurity-dart 0.0.1

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## 1.677 vue-js-modal 1.3.27

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## 1.679 neethi 3.1.1

## 1.680 rapidjson 1.1.0

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## 1.681 wildfly-clustering-web-api 14.0.1.Final

## 1.682 jackson-dataformat-msgpack 0.8.20

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## 1.684 jbossws-cxf-client 5.2.3.Final

## 1.685 wildfly-domain-http-interface 6.0.2.Final

# 1.686 artemis-stomp-protocol 2.6.3.jbossorg-001

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## 1.689 istack-commons-tools 3.0.5

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## 1.694 requires-port 1.0.0

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```
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```

```
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```

```
<title>Jing Copying Conditions</title>
```

```
</head>
```

```
<body>
```

```
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</dd>

</dl>

</body>

</html>

# 1.699 artemis-core-client 2.6.3.jbossorg-001

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# 1.700 wildfly-process-controller 6.0.2.Final



# 1.701 commons-codec 1.6

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```
package org.wildfly.security.permission;
```

```
/**
```

```
* A permission which implies nothing, not even itself.
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public final class NoPermission extends AbstractPermission<NoPermission> {
 private static final long serialVersionUID = 2339781690941885693L;
```

```
 private static final NoPermission INSTANCE = new NoPermission();
```

```
/**
```

```
* Construct a new instance.
```

```
*/
```

```
public NoPermission() {
 super("<no permissions>");
}
```

```
/**
```

```
* Construct a new instance. The name parameter is ignored.
```

```
*
```

```
* @param ignored ignored
```

```
*/
```

```
public NoPermission(final String ignored) {
 this();
}
```

```
/**
```

```
* Construct a new instance. The name and actions parameters are ignored.
```

```
*
```

```
* @param ignored1 ignored
```

```
* @param ignored2 ignored
```

```
*/
```

```
public NoPermission(final String ignored1, final String ignored2) {
 this();
}
```

```
/**
```

```
* Get the no-permission instance.
```

```
*
```

```
* @return the no-permission instance (not { @code null})
```

```
*/
```

```

public static NoPermission getInstance() {
 return INSTANCE;
}

/**
 * Always returns {@code false}.
 *
 * @param permission ignored
 * @return {@code false}
 */
public boolean implies(final NoPermission permission) {
 return false;
}

/**
 * Always returns {@code true} if the argument is not {@code null}.
 *
 * @param other the permission to compare to
 * @return {@code true} if {@code other} is not {@code null}; {@code false} otherwise
 */
public boolean equals(final NoPermission other) {
 return other != null;
}

/**
 * Get the constant hash code.
 *
 * @return the constant hash code
 */
public int hashCode() {
 return getClass().hashCode();
}

public AbstractPermissionCollection newPermissionCollection() {
 return NoPermissionCollection.getInstance();
}
}

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 */

```

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- \*/

```
package org.wildfly.security.permission;
```

```
import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;
import org.wildfly.security.util.StringMapping;
```

```
/**
```

```
* A general Elytron permission. The permission { @code name } must be one of the following:
```

```
*
```

- \* <li>{ @code authenticate }</li>
- \* <li>{ @code createAuthenticator }</li>
- \* <li>{ @code createAuthenticationContextConfigurationClient }</li>
- \* <li>{ @code createSecurityDomain }</li>
- \* <li>{ @code createSecurityRealm }</li>
- \* <li>{ @code registerSecurityDomain }</li>
- \* <li>{ @code getSecurityDomain }</li>
- \* <li>{ @code unregisterSecurityDomain }</li>
- \* <li>{ @code setRunAsPrincipal }</li>
- \* <li>{ @code createServerAuthenticationContext }</li>
- \* <li>{ @code getPrivateCredentials }</li>
- \* <li>{ @code getIdentity }</li>
- \* <li>{ @code getIdentityForUpdate }</li>
- \* <li>{ @code createAdHocIdentity }</li>

```
*
```

```
* The { @code actions } are not used and should be empty or { @code null }.
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public final class ElytronPermission extends AbstractNameSetOnlyPermission<ElytronPermission> {
```

```
 private static final long serialVersionUID = 6124294238228442419L;
```

```
 private static final StringEnumeration strings = StringEnumeration.of(
```

```
 "authenticate",
 "createAuthenticator",
 "createAuthenticationContextConfigurationClient",
 "createSecurityDomain",
 "createSecurityRealm",
 "registerSecurityDomain",
 "getSecurityDomain",
 "unregisterSecurityDomain",
```



```

 "setRunAsPrincipal",
 "createServerAuthenticationContext",
 "getPrivateCredentials",
 "getIdentity",
 "getIdentityForUpdate",
 "createAdHocIdentity"
);

 static final StringMapping<ElytronPermission> mapping = new StringMapping<>(strings,
ElytronPermission::new);

 private static final ElytronPermission allPermission = new ElytronPermission("*");

 /**
 * Construct a new instance.
 *
 * @param name the name of the permission
 */
 public ElytronPermission(final String name) {
 this(name, null);
 }

 /**
 * Construct a new instance.
 *
 * @param name the name of the permission
 * @param actions the actions (should be empty)
 */
 public ElytronPermission(final String name, final String actions) {
 super(name, strings);
 requireEmptyActions(actions);
 }

 public ElytronPermission withName(final String name) {
 return forName(name);
 }

 /**
 * Get the permission with the given name.
 *
 * @param name the name (must not be {@code null})
 * @return the permission (not {@code null})
 * @throws IllegalArgumentException if the name is not valid
 */
 public static ElytronPermission forName(final String name) {
 Assert.checkNotNullParam("name", name);
 return name.equals("*") ? allPermission : mapping.getItemByString(name);
 }
}

```

}

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\*/

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.Set;
```

```
/**
```

```
* A permission collection type which either does or does not hold its instance.
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public final class BooleanPermissionCollection extends AbstractPermissionCollection {
 private volatile boolean added;
```

```
/**
```

```
* Construct a new instance.
```

```
*
```

```

* @param sourcePermission the source permission for this collection (must not be {@code null})
*/
public BooleanPermissionCollection(final AbstractPermission<?> sourcePermission) {
 super(sourcePermission);
}

public int size() {
 return added ? 1 : 0;
}

public Iterator<Permission> iterator() {
 return added ? getSingletonCollection().iterator() : Collections.emptyIterator();
}

public Enumeration<Permission> elements() {
 return added ? Collections.enumeration(getSingletonCollection()) : Collections.emptyEnumeration();
}

private Set<Permission> getSingletonCollection() {
 return Collections.singleton(getSourcePermission());
}

protected void doAdd(final AbstractPermission<?> permission) {
 added = true;
}

public boolean implies(final Permission permission) {
 return added && permission.getClass() == getSourcePermission().getClass();
}
}
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```

```

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import static org.wildfly.security.manager._private.SecurityMessages.permission;

import java.util.Arrays;
import java.util.EnumSet;
import java.util.Iterator;

/**
 * A helper class for defining permissions which use a finite list of actions. Define custom permissions using
 * an {@code enum} of actions, where the string representation (via {@code toString()}) of each enum is one
 * possible
 * action name. Typically the {@code enum} should be non-public, and the constant names should be lowercase. If
 * an action name contains a character which is not a valid Java identifier, then the {@code toString()} method of
 * such constants should be overridden to report the correct string. The actions may be stored on the permission as
 * an {@code EnumSet}, an {@code int}, or a {@code long}. The field should be marked {@code transient}, and
 * the actions represented by a (possibly synthetic) field of type {@code String} which uses the canonical
 * representation
 * of the actions.
 *
 * @author David M. Lloyd
 *
 * @deprecated Use one of the abstract permission classes like {@link AbstractActionSetPermission} instead.
 */
@Deprecated
public final class PermissionActions {

 private PermissionActions() {
 }

 static final class TrieNode<E> {
 private static final char[] C_EMPTY = new char[0];
 private static final TrieNode[] T_EMPTY = new TrieNode[0];

 private E result;
 private char[] matches = C_EMPTY;
 @SuppressWarnings("unchecked")
 private TrieNode<E>[] children = T_EMPTY;

 void put(String s, int idx, E value) {
 if (idx == s.length()) {
 result = value;
 return;
 }
 char c = s.charAt(idx);
 final int i = Arrays.binarySearch(matches, c);

```



```

if (i < 0) {
 // copy and add
 final int oldLength = matches.length;
 final char[] newMatches = Arrays.copyOf(matches, oldLength + 1);
 final TrieNode<E>[] newChildren = Arrays.copyOf(children, oldLength + 1);
 // i is the negated insertion index
 final int insertIndex = -i - 1;
 System.arraycopy(newMatches, insertIndex, newMatches, insertIndex + 1, oldLength - insertIndex);
 System.arraycopy(newChildren, insertIndex, newChildren, insertIndex + 1, oldLength - insertIndex);
 newMatches[insertIndex] = c;
 final TrieNode<E> newNode = new TrieNode<>();
 newChildren[insertIndex] = newNode;
 matches = newMatches;
 children = newChildren;
 newNode.put(s, idx + 1, value);
} else {
 children[i].put(s, idx + 1, value);
}
}

E get(String s, int idx, int end) {
 if (idx == end) {
 return result;
 }
 final char c = s.charAt(idx);
 final int i = Arrays.binarySearch(matches, c);
 if (i < 0) {
 return null;
 }
 return children[i].get(s, idx + 1, end);
}
}

static final class Info<E> {
 final TrieNode<E> root;
 final E[] constants;

 Info(final TrieNode<E> root, final E[] constants) {
 this.root = root;
 this.constants = constants;
 }
}

private static final ClassValue<Info<?>> storedInfo = new ClassValue<Info<?>>() {
 protected Info<?> computeValue(final Class<?> type) {
 return computeReal(type);
 }
}

```

```

private <E> Info<E> computeReal(final Class<E> type) {
 final TrieNode<E> root = new TrieNode<>();
 final E[] enumConstants = type.getEnumConstants();
 for (E e : enumConstants) {
 root.put(e.toString(), 0, e);
 }
 return new Info<>(root, type.getEnumConstants());
}
};

interface MatchAction<E extends Enum<E>> {
 void matched(E item);

 void matchedAll(Class<E> type);
}

static class SetMatchAction<E extends Enum<E>> implements MatchAction<E> {
 private EnumSet<E> set;

 SetMatchAction(final EnumSet<E> set) {
 this.set = set;
 }

 public void matched(final E item) {
 set.add(item);
 }

 public void matchedAll(final Class<E> type) {
 set = EnumSet.allOf(type);
 }

 public EnumSet<E> getSet() {
 return set;
 }
}

static class IntMatchAction<E extends Enum<E>> implements MatchAction<E> {
 private int result;

 IntMatchAction() {
 }

 public void matched(final E item) {
 result |= 1 << item.ordinal();
 }

 public void matchedAll(final Class<E> type) {
 result |= (1 << storedInfo.get(type).constants.length) - 1;
 }
}

```

```

 }

 public int getResult() {
 return result;
 }
}

static class LongMatchAction<E extends Enum<E>> implements MatchAction<E> {
 private long result;

 LongMatchAction() {
 }

 public void matched(final E item) {
 result |= 1L << item.ordinal();
 }

 public void matchedAll(final Class<E> type) {
 result |= (1L << storedInfo.get(type).constants.length) - 1;
 }

 public long getResult() {
 return result;
 }
}

/**
 * Parse an action string using the given action type to an {@code EnumSet}.
 *
 * @param actionTypes the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> EnumSet<E> parseActionStringToSet(Class<E> actionTypes, String
actionString) throws IllegalArgumentException {
 Assert.checkNotNullParam("actionTypes", actionTypes);
 Assert.checkNotNullParam("actionString", actionString);
 final SetMatchAction<E> matchAction = new SetMatchAction<>(EnumSet.noneOf(actionTypes));
 doParse(actionTypes, actionString, matchAction);
 return matchAction.getSet();
}

/**
 * Parse an action string using the given action type to an {@code int}. The given {@code enum} type must have

```

```

* 32 or fewer constant values.
*
* @param actionTypes the action { @code enum } type class
* @param actionString the string to parse
* @param <E> the action { @code enum } type
*
* @return the set of actions from the string
*
* @throws IllegalArgumentException if the string contained an invalid action
*/
public static <E extends Enum<E>> int parseActionStringToInt(Class<E> actionTypes, String actionString) throws
IllegalArgumentException {
 Assert.checkNotNullParam("actionTypes", actionTypes);
 Assert.checkNotNullParam("actionString", actionString);
 final IntMatchAction<E> matchAction = new IntMatchAction<>();
 doParse(actionTypes, actionString, matchAction);
 return matchAction.getResult();
}

/**
* Parse an action string using the given action type to a { @code long }. The given { @code enum } type must have
* 64 or fewer constant values.
*
* @param actionTypes the action { @code enum } type class
* @param actionString the string to parse
* @param <E> the action { @code enum } type
*
* @return the set of actions from the string
*
* @throws IllegalArgumentException if the string contained an invalid action
*/
public static <E extends Enum<E>> long parseActionStringToLong(Class<E> actionTypes, String actionString)
throws IllegalArgumentException {
 Assert.checkNotNullParam("actionTypes", actionTypes);
 Assert.checkNotNullParam("actionString", actionString);
 final LongMatchAction<E> matchAction = new LongMatchAction<>();
 doParse(actionTypes, actionString, matchAction);
 return matchAction.getResult();
}

private static <E extends Enum<E>> void doParse(final Class<E> actionTypes, final String actionString, final
MatchAction<E> matchAction) {
 @SuppressWarnings("unchecked")
 final Info<E> info = (Info<E>) storedInfo.get(actionTypes);
 final TrieNode<E> rootNode = info.root;
 // begin parse
 char c;
 final int length = actionString.length();

```

```

int i = 0;
L0: for (;;) {
 if (i == length) {
 // OK
 break L0;
 }
 c = actionString.charAt(i);
 if (Character.isWhitespace(c)) {
 i++;
 continue L0;
 }
 if (c == ',') {
 // hmm, empty segment; ignore it
 i++;
 continue L0;
 }
 if (c == '*') {
 // potential star
 matchAction.matchedAll(actionType);
 for (;;) {
 i++;
 if (i == length) {
 // done
 break L0;
 }
 c = actionString.charAt(i);
 if (c == ',') {
 // pointless, but go on
 i++;
 continue L0;
 }
 if (!Character.isWhitespace(c)) {
 throw permission.unexpectedActionCharacter(c, i, actionString);
 }
 }
 // not reachable
 }
 // else it's a potentially valid character
 int start = i;
 for (;;) {
 i++;
 c = i < length ? actionString.charAt(i) : 0;
 if (i == length || Character.isWhitespace(c) || c == ',') {
 // action string ends here
 final E action = rootNode.get(actionString, start, i);
 if (action == null) {
 throw permission.invalidAction(actionString.substring(start, i), start, actionString);
 }
 }
 }
}

```

```

 matchAction.matched(action);
 if (i == length) {
 // done
 break L0;
 }
 while (Character.isWhitespace(c)) {
 i++;
 if (i == length) {
 // done
 break L0;
 }
 c = actionString.charAt(i);
 }
 if (c != ',') {
 throw permission.unexpectedActionCharacter(c, i, actionString);
 }
 i++;
 continue L0;
 }
}
// not reachable
}
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(EnumSet<E> set) {
 if (set == null || set.isEmpty()) return "";
 final StringBuilder b = new StringBuilder();
 getCanonicalActionString(set, b);
 return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(EnumSet<E> set, StringBuilder b) {
 if (set == null || set.isEmpty()) return;
 final Iterator<E> iterator = set.iterator();

```

```

 if (iterator.hasNext()) {
 E e = iterator.next();
 b.append(e.toString());
 while (iterator.hasNext()) {
 e = iterator.next();
 b.append(',');
 b.append(e.toString());
 }
 }
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param type the action { @code enum } type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, int set) {
 if (set == 0) return "";
 final StringBuilder b = new StringBuilder();
 getCanonicalActionString(type, set, b);
 return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param type the action { @code enum } type class
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, int set, StringBuilder b) {
 if (set == 0) return;
 @SuppressWarnings("unchecked")
 final E[] constants = (E[]) storedInfo.get(type).constants;
 int bit = Integer.lowestOneBit(set);
 E e = constants[Integer.numberOfTrailingZeros(bit)];
 b.append(e.toString());
 set &= ~bit;
 while (set != 0) {
 bit = Integer.lowestOneBit(set);
 e = constants[Integer.numberOfTrailingZeros(bit)];
 b.append(',').append(e.toString());
 set &= ~bit;
 }
}

```

```

}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param type the action { @code enum } type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, long set) {
 if (set == 0) return "";
 final StringBuilder b = new StringBuilder();
 getCanonicalActionString(type, set, b);
 return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param type the action { @code enum } type class
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, long set, StringBuilder b) {
 if (set == 0) return;
 @SuppressWarnings("unchecked")
 final E[] constants = (E[]) storedInfo.get(type).constants;
 long bit = Long.lowestOneBit(set);
 E e = constants[Long.numberOfTrailingZeros(bit)];
 b.append(e.toString());
 set &= ~bit;
 while (set != 0) {
 bit = Long.lowestOneBit(set);
 e = constants[Long.numberOfTrailingZeros(bit)];
 b.append(',').append(e.toString());
 set &= ~bit;
 }
}
}
}
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```



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- \*/

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;
```

```
import org.wildfly.security.util.ArrayIterator;
```

```
/**
```

```
* A trivially simple permission collection, suitable as a default for most permission types (though probably not as efficient
```

```
* as a specialized type in many cases).
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public final class SimplePermissionCollection extends AbstractPermissionCollection {
```

```
 private static final long serialVersionUID = - 9157630531211570679L;
```

```
 private final AtomicReference<Permission[]> permissionsRef = new AtomicReference<>(PermissionUtil.NO_PERMISSIONS);
```

```
/**
```

```
* Construct a new instance.
```

```
*
```

```
* @param sourcePermission the source permission for this collection (must not be { @code null })
```

```
*/
```

```
public SimplePermissionCollection(final AbstractPermission<?> sourcePermission) {
 super(sourcePermission);
}
```

```
public int size() {
 return permissionsRef.get().length;
}
```

```
protected void doAdd(final AbstractPermission<?> permission) {
```

```

Permission[] oldVal, readVal, newVal;
int count;
final AtomicReference<Permission[]> permissionsRef = this.permissionsRef;
do {
 readVal = permissionsRef.get();
 do {
 count = 0;
 oldVal = readVal;
 for (Permission test : oldVal) {
 if (test.implies(permission)) {
 return;
 }
 if (! permission.implies(test)) {
 // prepare to skip any permissions that are obviated by this one
 count ++;
 }
 }
 // see if it's still what we expect before we commit to the possibly expensive update...
 readVal = permissionsRef.get();
 } while (readVal != oldVal);
 newVal = new Permission[count + 1];
 int i = 0;
 for (Permission test : oldVal) {
 if (! permission.implies(test)) {
 newVal[i++] = test;
 }
 }
 newVal[i] = permission;
} while (! permissionsRef.compareAndSet(oldVal, newVal));
}

public boolean implies(final Permission permission) {
 for (Permission test : permissionsRef.get()) {
 if (test.implies(permission)) {
 return true;
 }
 }
 return false;
}

public Iterator<Permission> iterator() {
 return new ArrayIterator<Permission>(permissionsRef.get());
}

public Enumeration<Permission> elements() {
 return new ArrayIterator<Permission>(permissionsRef.get());
}
}

```

```

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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import java.security.Permission;

/**
 * An abstract base class for named permissions with useful API and implementation methods.
 * <p>
 * Subclasses of this class are always serialized as a special serialized permission object, which captures the type
 * class,
 * the permission name (if any), and the permission action (if any) as a string. Therefore, none of the fields of any
 * subclass of this class are serialized unless they are included in the name or actions properties.
 * <p>
 * Concrete subclasses are expected to be immutable and final.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractNamedPermission<This extends AbstractNamedPermission<This>> extends
AbstractPermission<This> {
 private static final long serialVersionUID = 5774685776540853292L;

 /**
 * Construct a new instance.
 *
 * @param name the permission name (must not be { @code null })
 */
 protected AbstractNamedPermission(final String name) {
 super(Assert.checkNotNullParam("name", name));
 }
}

```

```

/**
 * Create a new permission which is identical to this one, except with a new {@code name}.
 *
 * @param name the name to use (must not be {@code null})
 * @return the new permission
 */
public abstract This withName(String name);

/**
 * Determine whether this permission has a name equal to the given name.
 *
 * @param name the name to check
 * @return {@code true} if this permission's name is equal to the given name, {@code false} otherwise
 */
public boolean nameEquals(final String name) {
 return getName().equals(name);
}

/**
 * Determine whether this permission has a name equal to the name of the given permission. If the given
permission
 * is of a different type than this permission, {@code false} is returned.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
 */
@SuppressWarnings("unchecked")
public final boolean nameEquals(final Permission permission) {
 return permission != null && permission.getClass() == getClass() && nameEquals((This) permission);
}

/**
 * Determine whether this permission has a name equal to the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
 */
public final boolean nameEquals(final This permission) {
 return permission != null && nameEquals(permission.getName());
}

/**
 * Get the hash code of the name. The default implementation returns {@code getName().hashCode()}.
 *
 * @return the hash code of the name

```

```

*/
protected int nameHashCode() {
 return getName().hashCode();
}

/**
 * Determine whether this permission implies the given name.
 *
 * @param name the name to check
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final String name) {
 return nameEquals("*") || nameEquals(name);
}

/**
 * Determine whether this permission implies the name of the given permission. If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesName(final Permission permission) {
 return permission != null && permission.getClass() == getClass() && impliesName((This) permission);
}

/**
 * Determine whether this permission implies the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final This permission) {
 return permission != null && impliesName(permission.getName());
}

public boolean implies(final This permission) {
 return permission != null && impliesName(permission);
}

public boolean equals(final This other) {
 return other != null && nameEquals(other);
}

public int hashCode() {
 return getClass().hashCode() * 71 + nameHashCode();
}

```

```

}
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 */

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.security._private.ElytronMessages;

/**
 * An abstract base class for any permission.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractPermission<This extends AbstractPermission<This>> extends Permission implements
PermissionVerifier {
 /**
 * Construct a new instance.
 *
 * @param name the permission name
 */
 protected AbstractPermission(final String name) {
 super(name);
 }

 /**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return { @code true } if this permission implies the other; { @code false } otherwise
 */
 @SuppressWarnings("unchecked")

```

```

public final boolean implies(Permission permission) {
 return permission != null && getClass() == permission.getClass() && implies((This) permission);
}

/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return { @code true } if this permission implies the other; { @code false } otherwise
 */
public abstract boolean implies(This permission);

/**
 * Determine whether this permission object is equal to another object.
 *
 * @param obj the object to compare to
 * @return { @code true } if the object is a permission equal to this one; { @code false } otherwise
 */
@SuppressWarnings("unchecked")
public final boolean equals(final Object obj) {
 return obj != null && obj.getClass() == getClass() && equals((This) obj);
}

/**
 * Determine whether this permission object is equal to another object of this permission type.
 *
 * @param other the permission to compare to
 * @return { @code true } if the object is a permission equal to this one; { @code false } otherwise
 */
public abstract boolean equals(This other);

/**
 * Get the hash code of this permission. The result must be consistent with the defined { @link
 #equals(AbstractPermission)
 * result.
 *
 * @return the hash code of this permission
 */
public abstract int hashCode();

/**
 * Get the actions string. The default implementation always returns an empty string.
 *
 * @return the actions string (not { @code null })
 */
public String getActions() {
 return "";
}

```

```

/**
 * Get an empty permission collection which is capable of holding instances of this permission type.
 * <p>
 * The default implementation returns a { @link SimplePermissionCollection}.
 *
 * @return the permission collection to use
 */
public AbstractPermissionCollection newPermissionCollection() {
 return new SimplePermissionCollection(this);
}

/**
 * Check to ensure that the given action string is empty or { @code null}; otherwise, throw an exception.
 *
 * @param actions the actions string
 * @throws IllegalArgumentException if the actions string is not empty
 */
protected static void requireEmptyActions(final String actions) throws IllegalArgumentException {
 if (actions != null && ! actions.isEmpty()) {
 throw ElytronMessages.log.expectedEmptyActions(actions);
 }
}

final Object writeReplace() {
 return new SerializedPermission(getClass(), getName(), getActions());
}
}
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 */

package org.wildfly.security.permission;

```



```

import java.security.Permission;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.ConcurrentHashMap;

/**
 * A permission collection for actionless permissions which are organized by name.
 *
 * @author David M. Lloyd
 */
public final class ByNamePermissionCollection extends AbstractPermissionCollection {
 private final ConcurrentHashMap<String, Permission> byName = new ConcurrentHashMap<>();
 private volatile Permission all;

 /**
 * The source permission used to construct this collection.
 *
 * @param sourcePermission the source permission (must not be { @code null })
 */
 public ByNamePermissionCollection(final AbstractPermission<?> sourcePermission) {
 super(sourcePermission);
 }

 public int size() {
 return all != null ? 1 : byName.size();
 }

 public Iterator<Permission> iterator() {
 return getIterablePermissions().iterator();
 }

 public Enumeration<Permission> elements() {
 return Collections.enumeration(getIterablePermissions());
 }

 private Collection<Permission> getIterablePermissions() {
 return all != null ? Collections.singleton(all) :
Arrays.asList(byName.values().toArray(PermissionUtil.NO_PERMISSIONS));
 }

 protected void doAdd(final AbstractPermission<?> permission) {
 if (permission.getName().equals("")) {
 all = permission;
 byName.clear();
 } else {

```

```

 byName.putIfAbsent(permission.getName(), permission);
 }
}

public boolean implies(final Permission permission) {
 if (permission == null || getSourcePermission().getClass() != permission.getClass()) {
 return false;
 }
 final Permission all = this.all;
 if (all != null) {
 return all.implies(permission);
 }
 final Permission ourPermission = byName.get(permission.getName());
 return ourPermission != null && ourPermission.implies(permission);
}
}
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 */

/**
 * Permissions which pertain to authentication and authorization.
 */
package org.wildfly.security.auth.permission;
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\*/

```
package org.wildfly.security.permission;
```

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

```
import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;
```

```
final class PermissionVerifierPermissionCollection extends PermissionCollection {
 private static final long serialVersionUID = 5119756048547471645L;
```

```
 private final PermissionVerifier verifier;
```

```
 PermissionVerifierPermissionCollection(final PermissionVerifier verifier) {
 this.verifier = verifier;
 setReadOnly();
 }
```

```
 public void add(final Permission permission) {
 throw ElytronMessages.log.readOnlyPermissionCollection();
 }
```

```
 public boolean implies(final Permission permission) {
 return verifier.implies(permission);
 }
```

```
 public Enumeration<Permission> elements() {
 throw Assert.unsupported();
 }
```

```
 }
 /*
```

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* limitations under the License.
*/

package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
 * An actionless permission with a finite, fixed set of possible names.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractNameSetOnlyPermission<This extends AbstractNameSetOnlyPermission<This>>
 extends AbstractNameOnlyPermission<This> {

 private final StringEnumeration nameEnumeration;

 /**
 * Construct a new instance.
 *
 * @param name the name of this permission
 * @param nameEnumeration the set of valid names for this permission type
 */
 protected AbstractNameSetOnlyPermission(final String name, final StringEnumeration nameEnumeration) {
 super("'" + name + "' : " + nameEnumeration.canonicalName(name));
 this.nameEnumeration = nameEnumeration;
 }

 StringEnumeration getNameEnumeration() {
 return nameEnumeration;
 }

 public AbstractPermissionCollection newPermissionCollection() {
 return NameSetPermissionCollection.newInstance(this, nameEnumeration);
 }

 public final boolean nameEquals(final String name) {
 return super.nameEquals(name);
 }

 public final boolean impliesName(final String name) {
 return super.impliesName(name);
 }
}

```

```

 }

 protected final int nameHashCode() {
 return nameEnumeration.indexOf(getName());
 }
}
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;

/**
 * A permission collection for permissions with a finite set of names, which is based on a simple bit set.
 * In this type of collection, each bit represents a unique permission of a given name. This type is not suitable for
 * permissions with actions.
 *
 * @author David M. Lloyd
 */
public abstract class NameSetPermissionCollection extends AbstractPermissionCollection {
 private static final long serialVersionUID = - 9191397492173027470L;
 private final StringEnumeration nameEnumeration;

 /**
 * Construct a new instance. The name enumeration is pulled from the source permission object.
 *
 * @param sourcePermission the source permission object (must not be { @code null})
 * @return the permission collection
 */
 public static AbstractPermissionCollection newInstance(final AbstractNameSetOnlyPermission<?>
sourcePermission) {

```

```

 return newInstance(sourcePermission, sourcePermission.getNameEnumeration());
 }

 /**
 * Construct a new instance.
 *
 * @param sourcePermission the source permission object (must not be {@code null})
 * @param nameEnumeration the name enumeration for this permission type (must not be {@code null})
 * @return the permission collection
 */
 public static AbstractPermissionCollection newInstance(final AbstractPermission<?> sourcePermission, final
StringEnumeration nameEnumeration) {
 Assert.checkNotNullParam("sourcePermission", sourcePermission);
 Assert.checkNotNullParam("nameEnumeration", nameEnumeration);
 final int size = nameEnumeration.size();
 if (size <= 32) {
 return new IntNameSetPermissionCollection(sourcePermission, nameEnumeration);
 } else if (size <= 64) {
 return new LongNameSetPermissionCollection(sourcePermission, nameEnumeration);
 } else {
 // TODO: add GiantNameSetPermissionCollection which uses AtomicIntegerArray
 throw Assert.unsupported();
 }
 }

 NameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
 super(sourcePermission);
 this.nameEnumeration = nameEnumeration;
 }

 StringEnumeration getNameEnumeration() {
 return nameEnumeration;
 }
}

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```

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\*/

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
```

```
import org.wildfly.common.Assert;
```

```
/**
```

\* An abstract base class for named permissions that have actions, with useful API and implementation methods. All  
\* the constraints described in { @link AbstractNamedPermission } apply.

\*

\* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>

```
*/
```

```
public abstract class AbstractActionPermission<This extends AbstractActionPermission<This>> extends
AbstractNamedPermission<This> {
```

```
 private static final long serialVersionUID = - 1366777243917643233L;
```

```
 /**
```

\* Construct a new instance.

\*

\* @param name the permission name

```
*/
```

```
 protected AbstractActionPermission(final String name) {
 super(name);
 }
```

```
 /**
```

\* Determine whether this permission implies another permission. Returns { @code true } if

\* both { @link #impliesActions(AbstractActionPermission) } and { @link  
#impliesName(AbstractNamedPermission) }

\* return { @code true }.

\*

\* @param permission the other permission

\* @return { @code true } if this permission implies the other; { @code false } otherwise

```
*/
```

```
 public final boolean implies(final This permission) {
 return permission != null && impliesActions(permission) && impliesName(permission);
 }
```

```
 /**
```

\* Determine whether this permission is equal to another permission. Returns { @code true } if

\* both { @link #actionsEquals(AbstractActionPermission) } and { @link  
#nameEquals(AbstractNamedPermission) }

\* return { @code true }.

```

*
* @param permission the other permission
* @return {@code true} if this permission implies the other; {@code false} otherwise
*/
public final boolean equals(final This permission) {
 return super.equals(permission) && actionsEquals(permission);
}

public final int hashCode() {
 return super.hashCode() * 53 + actionsHashCode();
}

/**
 * Determine whether the actions of this permission are equal to the given {@code actions}.
 *
 * @param actions the actions string (must not be {@code null})
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(String actions);

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}. If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean actionsEquals(Permission permission) {
 return permission != null && permission.getClass() == getClass() && actionsEquals((This) permission);
}

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(This permission);

/**
 * Get the actions hash code.
 *
 * @return the actions hash code
 */
protected abstract int actionsHashCode();

/**

```



```

* Determine whether this permission's actions value implies the given actions value.
*
* @param actions the actions to test (must not be {@code null})
* @return {@code true} if this permission implies the other; {@code false} otherwise
*/
public abstract boolean impliesActions(String actions);

/**
* Determine whether this permission's actions value implies the actions of the given {@code permission}. If
* the permission is not of the same type as this permission, {@code false} is returned.
*
* @param permission the permission whose actions are to be compared
* @return {@code true} if this permission implies the other; {@code false} otherwise
*/
@SuppressWarnings("unchecked")
public final boolean impliesActions(Permission permission) {
 return permission != null && permission.getClass() == getClass() && impliesActions((This) permission);
}

/**
* Determine whether this permission's actions value implies the actions of the given {@code permission}.
*
* @param permission the permission whose actions are to be compared
* @return {@code true} if this permission implies the other; {@code false} otherwise
*/
public abstract boolean impliesActions(This permission);

/**
* Get a permission which is identical to this one, but with new actions which consist of the union of the actions
* from this permission and the actions from the given string. The returned permission may or may not be a new
* instance, and may be equal to this instance.
*
* @param actionsString the actions string (must not be {@code null})
* @return the permission (not {@code null})
*/
public abstract This withActions(String actionsString);

/**
* Get a permission which is identical to this one, but with new actions which consist of the union of the actions
* from this permission and the actions from the given permission. The returned permission may or may not be a
new
* instance, and may be equal to this instance.
*
* @param permission the other permission (must not be {@code null})
* @return the permission (not {@code null})
*/
public This withActionsFrom(This permission) {
 Assert.checkNotNullParam("permission", permission);
}

```

```

 return withActions(permission.getActions());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the actions from the given string. The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @return the permission (not {@code null})
 */
public abstract This withoutActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the actions from the given permission. The returned permission may or may not
be a new
 * instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
public This withoutActionsFrom(This permission) {
 Assert.checkNotNullParam("permission", permission);
 return withActions(permission.getActions());
}

/**
 * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @return the permission (not {@code null})
 */
public abstract This withNewActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
public This withNewActionsFrom(This permission) {
 Assert.checkNotNullParam("permission", permission);
 return withNewActions(permission.getActions());
}

```

```

}
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 */

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class IntersectionPermissionCollection extends PermissionCollection implements PermissionVerifier {
 private static final long serialVersionUID = 8045087406778847303L;

 private final PermissionCollection pc1;
 private final PermissionCollection pc2;

 IntersectionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
 this.pc1 = pc1;
 this.pc2 = pc2;
 setReadOnly();
 }

 public void add(final Permission permission) {
 throw ElytronMessages.log.readOnlyPermissionCollection();
 }

 public boolean implies(final Permission permission) {
 return pc1.implies(permission) && pc2.implies(permission);
 }
}

```

```

public Enumeration<Permission> elements() {
 // TODO: this is theoretically possible to implement using an IntersectionCollectionPermission;
 // however the primary use case is going to be in protection domains and verification scenarios so we may
 // not ever actually need this
 throw Assert.unsupported();
}
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicLong;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class LongNameSetPermissionCollection extends NameSetPermissionCollection {

 private final AtomicLong bitSet = new AtomicLong();

 LongNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
 super(sourcePermission, nameEnumeration);
 }

 private Permission permissionFor(int id) {
 return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
 }
}

```

```

protected void doAdd(final AbstractPermission<?> permission) {
 long setBits = getBitsForName(permission);
 final AtomicLong bitSet = this.bitSet;
 long oldVal;
 do {
 oldVal = bitSet.get();
 if ((oldVal & setBits) == setBits) {
 return;
 }
 } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
}

public boolean implies(final Permission permission) {
 if (permission.getClass() != getSourcePermission().getClass()) {
 return false;
 }
 long testBits = getBitsForName(permission);
 return (bitSet.get() & testBits) == testBits;
}

public int size() {
 final int size = Long.bitCount(bitSet.get());
 return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
 return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
 return iterator();
}

private long getBitsForName(final Permission permission) {
 final long bits;
 final String name = permission.getName();
 final StringEnumeration nameEnumeration = getNameEnumeration();
 if ("*".equals(name)) {
 // add all names
 bits = (1L << nameEnumeration.size()) - 1;
 } else {
 bits = 1L << nameEnumeration.indexOf(name);
 }
 return bits;
}

private class Iter implements EnumerationIterator<Permission> {
 private long bits;

```

```

Iter(final long bits) {
 this.bits = bits;
}

public boolean hasMoreElements() {
 return bits != 0;
}

public Permission nextElement() {
 final long bits = this.bits;
 if (bits == 0) throw new NoSuchElementException();
 if (Long.bitCount(bits) == getNameEnumeration().size()) {
 this.bits = 0;
 return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
 }
 long bit = Long.lowestOneBit(bits);
 this.bits = bits & ~bit;
 return permissionFor(Long.numberOfTrailingZeros(bit));
}

public boolean hasNext() {
 return hasMoreElements();
}

public Permission next() {
 return nextElement();
}
}

}
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 */

```

```

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
 * The permission to change a role mapper category on a security identity.
 */
public final class ChangeRoleMapperPermission extends
AbstractNameOnlyPermission<ChangeRoleMapperPermission> {

 private static final long serialVersionUID = - 6742662884954321082L;

 /**
 * Construct a new instance.
 *
 * @param name the category name, or { @code * } for all categories
 */
 public ChangeRoleMapperPermission(final String name) {
 super(name);
 }

 /**
 * Construct a new instance.
 *
 * @param name the category name, or { @code * } for all categories
 * @param ignored the permission actions (ignored)
 */
 public ChangeRoleMapperPermission(final String name, @SuppressWarnings("unused") final String ignored) {
 this(name);
 }

 public ChangeRoleMapperPermission withName(final String name) {
 return new ChangeRoleMapperPermission(name);
 }
}

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*/
```

```
package org.wildfly.security.permission;
```

```
import org.wildfly.security.util.StringEnumeration;
```

```
/**
```

```
 * An abstract base class for permissions which use a bit set to represent actions.
```

```
 *
```

```
 * @author David M. Lloyd
```

```
 */
```

```
public abstract class AbstractActionSetPermission<This extends AbstractActionSetPermission<This>> extends
AbstractActionPermission<This> {
```

```
 private static final long serialVersionUID = 897239118282921196L;
```

```
 private final StringEnumeration actionEnumeration;
```

```
 private final int actionBits;
```

```
 private String actions;
```

```
 /**
```

```
 * Construct a new instance. The given bits are masked by { @link #actionsMask()} before being stored in the
object
```

```
 * instance.
```

```
 *
```

```
 * @param name the permission name
```

```
 * @param actionBits the permission action bits
```

```
 * @param actionEnumeration the permission actions enumeration
```

```
 */
```

```
 protected AbstractActionSetPermission(final String name, final int actionBits, final StringEnumeration
actionEnumeration) {
```

```
 super(name);
```

```
 this.actionEnumeration = actionEnumeration;
```

```
 this.actionBits = actionBits & actionsMask();
```

```
 if (actionBits == actionsMask()) actions = "*";
```

```
 }
```

```
 /**
```

```
 * Construct a new instance.
```

```
 *
```

```
 * @param name the permission name
```

```
 * @param actions the permission actions string
```

```
 * @param actionEnumeration the permission actions enumeration
```

```
 */
```

```
 protected AbstractActionSetPermission(final String name, final String actions, final StringEnumeration
```



```

actionEnumeration) {
 super(name);
 this.actionEnumeration = actionEnumeration;
 final int actionBits = parseActions(actions);
 this.actionBits = actionBits & actionsMask();
 if (actionBits == actionsMask()) this.actions = "*";
}

/**
 * Get the action bits of this permission.
 *
 * @return the action bits
 */
public final int getActionBits() {
 return actionBits;
}

public final boolean actionsEquals(final This permission) {
 return permission != null && actionBits == permission.getActionBits();
}

public final boolean impliesActions(final This permission) {
 return permission != null && isSet(actionBits, permission.getActionBits());
}

public final boolean impliesActions(final String actions) {
 return impliesActionBits(parseActions(actions));
}

/**
 * Determine whether this permission's actions value implies the given action bits.
 *
 * @param actionBits the actions bits to test
 * @return {@code true} if this permission implies the given action bits; {@code false} otherwise
 */
public final boolean impliesActionBits(final int actionBits) {
 return isSet(this.actionBits, actionBits & actionsMask());
}

private int actionsMask() {
 return (1 << actionEnumeration.size()) - 1;
}

private int getActionBit(final String actionName) throws IllegalArgumentException {
 return 1 << actionEnumeration.indexOf(actionName);
}

private String getActionName(final int bit) throws IllegalArgumentException {

```

```

 return actionEnumeration.nameOf(Integer.numberOfTrailingZeros(bit));
}

protected final int actionsHashCode() {
 return actionBits;
}

/**
 * Get the actions string. The string is computed the first time this method is called, and cached thereafter.
 *
 * @return the actions string (not { @code null})
 */
public final String getActions() {
 final String actions = this.actions;
 if (actions != null) {
 return actions;
 }
 return this.actions = PermissionUtil.toActionsString(actionBits, this::getActionName);
}

/**
 * Parse the actions string into a bit set.
 *
 * @param actionsString the actions string
 * @return the bit set
 * @throws IllegalArgumentException if the actions string contained an invalid name or invalid syntax
 */
public final int parseActions(final String actionsString) throws IllegalArgumentException {
 return PermissionUtil.parseActions(actionsString, this::getActionBit);
}

public final This withActions(final String actionsString) {
 return withActionBits(parseActions(actionsString));
}

public final This withActionsFrom(final This permission) {
 return withActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the action bits from the given value. The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not { @code null})
 */

```

```

public final This withActionBits(int actionBits) {
 return withNewActionBits(this.actionBits | actionBits & actionsMask());
}

public final This withoutActions(String actionsString) {
 return withoutActionBits(parseActions(actionsString));
}

public final This withoutActionsFrom(final This permission) {
 return withoutActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the action bits from the given value. The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not { @code null})
 */
public final This withoutActionBits(int actionBits) {
 return withNewActionBits(this.actionBits & ~actionBits);
}

public final This withNewActions(String actionsString) {
 return withNewActionBits(parseActions(actionsString));
}

public final This withNewActionsFrom(final This permission) {
 return withNewActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new action bits as given by { @code actionBits}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not { @code null})
 */
@SuppressWarnings("unchecked")
public final This withNewActionBits(int actionBits) {
 final int masked = actionBits & actionsMask();
 if (masked == this.actionBits) {
 return (This) this;
 } else {
 return constructWithActionBits(masked);
 }
}

```

```

}

/**
 * Construct or return a permission of this type with the same name as this one but with the given action bits.
 *
 * @param actionBits the action bits
 * @return the permission
 */
protected abstract This constructWithActionBits(int actionBits);

// private

private static boolean isSet(final int bits, final int test) {
 return (bits & test) == test;
}
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Policy;
import java.security.ProtectionDomain;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * An interface for objects that can verify permissions.
 *
 * @author David M. Lloyd

```

```

*/
@FunctionalInterface
public interface PermissionVerifier {
 /**
 * Determine if the permission is verified by this object.
 *
 * @param permission the permission to verify (must not be {@code null})
 * @return {@code true} if the permission is implied by this verifier, {@code false} otherwise
 */
 boolean implies(Permission permission);

 /**
 * Return a new verifier which implies permissions which are implied both by this verifier and by the given
 verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
 default PermissionVerifier and(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) && other.implies(permission);
 }

 /**
 * Return a new verifier which implies permissions which are implied either by this verifier or by the given
 verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
 default PermissionVerifier or(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) || other.implies(permission);
 }

 /**
 * Return a new verifier which implies permissions which are implied by only one of this verifier or the given
 verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
 default PermissionVerifier xor(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) ^ other.implies(permission);
 }

 /**

```

```

* Return a new verifier which implies the opposite of this verifier.
*
* @return the new permission verifier (not {@code null})
*/
default PermissionVerifier not() {
 return permission -> !implies(permission);
}

/**
* Return a new verifier which implies permissions which are implied by this verifier but not the given verifier.
*
* @param other the other verifier (must not be {@code null})
* @return the new permission verifier (not {@code null})
*/
default PermissionVerifier unless(PermissionVerifier other) {
 Assert.checkNotNullParam("other", other);
 return permission -> implies(permission) && ! other.implies(permission);
}

/**
* Check a permission, throwing an exception if the permission is not implied.
*
* @param permission the permission to check (must not be {@code null})
* @throws SecurityException if the permission is not implied
*/
default void checkPermission(Permission permission) throws SecurityException {
 Assert.checkNotNullParam("permission", permission);
 if (! implies(permission)) {
 throw ElytronMessages.log.permissionCheckFailed(permission, this);
 }
}

/**
* Get a permission verifier for a single permission.
*
* @param permission the permission (must not be {@code null})
* @return the verifier (not {@code null})
*/
static PermissionVerifier from(Permission permission) {
 Assert.checkNotNullParam("permission", permission);
 return permission instanceof PermissionVerifier ? (PermissionVerifier) permission : permission::implies;
}

/**
* Get a permission verifier for a permission collection.
*
* @param permissionCollection the permission collection (must not be {@code null})
* @return the verifier (not {@code null})

```

```

*/
static PermissionVerifier from(PermissionCollection permissionCollection) {
 Assert.checkNotNullParam("permissionCollection", permissionCollection);
 return permissionCollection instanceof PermissionVerifier ? (PermissionVerifier) permissionCollection :
permissionCollection::implies;
}

/**
 * Get a permission verifier for a protection domain.
 *
 * @param protectionDomain the protection domain (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(ProtectionDomain protectionDomain) {
 Assert.checkNotNullParam("protectionDomain", protectionDomain);
 return protectionDomain instanceof PermissionVerifier ? (PermissionVerifier) protectionDomain :
protectionDomain::implies;
}

/**
 * Get a permission verifier for a policy's view of a protection domain.
 *
 * @param policy the policy (must not be {@code null})
 * @param protectionDomain the protection domain (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(Policy policy, ProtectionDomain protectionDomain) {
 Assert.checkNotNullParam("policy", policy);
 Assert.checkNotNullParam("protectionDomain", protectionDomain);
 return permission -> policy.implies(protectionDomain, permission);
}

/**
 * Convert this verifier a permission collection which implies everything this verifier implies. If this instance
 * is already a {@code PermissionCollection} instance, then this instance may be cast and returned. Otherwise,
 * this method may return a new, read-only collection, which cannot be iterated.
 *
 * @return the permission collection (not {@code null})
 */
default PermissionCollection toPermissionCollection() {
 if (this instanceof PermissionCollection) {
 return (PermissionCollection) this;
 } else {
 return new PermissionVerifierPermissionCollection(this);
 }
}

/**

```

```

 * A verifier which implies no permissions.
 */
PermissionVerifier NONE = permission -> false;

/**
 * A verifier which implies all permissions.
 */
PermissionVerifier ALL = permission -> true;
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicInteger;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class IntNameSetPermissionCollection extends NameSetPermissionCollection {

 private final AtomicInteger bitSet = new AtomicInteger();

 IntNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
 super(sourcePermission, nameEnumeration);
 }

 private Permission permissionFor(int id) {
 return
 ((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
 }
}

```



```

}

protected void doAdd(final AbstractPermission<?> permission) {
 int setBits= getBitsForName(permission);
 final AtomicInteger bitSet = this.bitSet;
 int oldVal;
 do {
 oldVal = bitSet.get();
 if ((oldVal & setBits) == setBits) {
 return;
 }
 } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
}

public boolean implies(final Permission permission) {
 if (permission.getClass() != getSourcePermission().getClass()) {
 return false;
 }
 long testBits = getBitsForName(permission);
 return (bitSet.get() & testBits) == testBits;
}

public int size() {
 final int size = Integer.bitCount(bitSet.get());
 return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
 return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
 return iterator();
}

private int getBitsForName(final Permission permission) {
 final int bits;
 final String name = permission.getName();
 final StringEnumeration nameEnumeration = getNameEnumeration();
 if ("*".equals(name)) {
 // add all names
 bits = (1 << nameEnumeration.size()) - 1;
 } else {
 bits = 1 << nameEnumeration.indexOf(name);
 }
 return bits;
}

```

```

private class Iter implements EnumerationIterator<Permission> {
 private int bits;

 Iter(final int bits) {
 this.bits = bits;
 }

 public boolean hasMoreElements() {
 return bits != 0;
 }

 public Permission nextElement() {
 final int bits = this.bits;
 if (bits == 0) throw new NoSuchElementException();
 if (Integer.bitCount(bits) == getNameEnumeration().size()) {
 this.bits = 0;
 return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
 }
 int bit = Integer.lowestOneBit(bits);
 this.bits = bits & ~bit;
 return permissionFor(Integer.numberOfTrailingZeros(bit));
 }

 public boolean hasNext() {
 return hasMoreElements();
 }

 public Permission next() {
 return nextElement();
 }
}

}
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```

```

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*/

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;

final class SerializedPermission implements Serializable {
 private static final long serialVersionUID = 897239118282921196L;

 private final Class<? extends Permission> c;
 private final String n;
 private final String a;

 SerializedPermission(final Class<? extends Permission> permissionClass, final String name, final String action) {
 this.c = permissionClass;
 this.n = name;
 this.a = action;
 }

 Object readResolve() {
 return PermissionUtil.createPermission(c, n, a);
 }
}
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*/

package org.wildfly.security.permission;

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

```

```

import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security._private.ElytronMessages;
import org.wildfly.security.util.ArrayIterator;

/**
 * A trivially simple permission collection, suitable as a default for most permission types (though probably not as
 * efficient
 * as a specialized type in many cases).
 *
 * @author David M. Lloyd
 */
public final class SimpleActionBitsPermissionCollection extends AbstractPermissionCollection {

 private static final AbstractActionSetPermission<?>[] NO_PERMS = new AbstractActionSetPermission<?>[0];

 private final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = new
AtomicReference<>(NO_PERMS);

 /**
 * Construct a new instance.
 *
 * @param sourcePermission the source permission for this collection (must not be { @code null})
 */
 public SimpleActionBitsPermissionCollection(final AbstractActionSetPermission<?> sourcePermission) {
 super(sourcePermission);
 }

 public int size() {
 return permissionsRef.get().length;
 }

 @Override
 protected void doAdd(final AbstractPermission<?> permission) {
 if (permission instanceof AbstractActionSetPermission<?>) {
 doAdd((AbstractActionSetPermission<?>) permission);
 }
 throw ElytronMessages.log.invalidPermissionType(AbstractActionSetPermission.class, permission);
 }

 /**
 * Adds a permission.
 *
 * @param permission the non-{@code null} permission
 */
 protected void doAdd(final AbstractActionSetPermission<?> permission) {
 AbstractActionSetPermission<?>[] oldVal, readVal, newVal;
 int count;

```

```

final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = this.permissionsRef;
do {
 readVal = permissionsRef.get();
 count = 0;
 do {
 oldVal = readVal;
 AbstractActionSetPermission<?> merged = permission;
 retry: for (;;) {
 for (AbstractActionSetPermission<?> test : oldVal) {
 if (test.implies(merged)) {
 // fail fast
 return;
 }
 if (test.nameEquals(merged)) {
 // combine
 merged = merged.withActionBits(permission.getActionBits());
 // test again with merged permission
 count = 0;
 continue retry;
 }
 if (!merged.implies(test)) {
 // prepare to skip any permissions that are obviated by this one
 count ++;
 }
 }
 break;
 }
 // see if it's still what we expect before we commit to the possibly expensive update...
 readVal = permissionsRef.get();
 } while (readVal != oldVal);
 newVal = new AbstractActionSetPermission<?>[count + 1];
 int i = 0;
 for (AbstractActionSetPermission<?> test : oldVal) {
 if (!permission.implies(test)) {
 newVal[i++] = test;
 }
 }
 newVal[i] = permission;
} while (!permissionsRef.compareAndSet(oldVal, newVal));
}

```

```

public boolean implies(final Permission permission) {
 for (Permission test : permissionsRef.get()) {
 if (test.implies(permission)) {
 return true;
 }
 }
 return false;
}

```

```

 }

 public Iterator<Permission> iterator() {
 return new ArrayIterator<Permission>(permissionsRef.get());
 }

 public Enumeration<Permission> elements() {
 return new ArrayIterator<Permission>(permissionsRef.get());
 }
}
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 */

package org.wildfly.security.permission;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.security._private.ElytronMessages;

final class UnionPermissionCollection extends PermissionCollection implements PermissionVerifier {
 private static final long serialVersionUID = 6731525842957764833L;

 private final PermissionCollection pc1;
 private final PermissionCollection pc2;

 UnionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
 this.pc1 = pc1;
 this.pc2 = pc2;
 setReadOnly();
 }

```

```

}

public void add(final Permission permission) {
 throw ElytronMessages.log.readOnlyPermissionCollection();
}

public boolean implies(final Permission permission) {
 return pc1.implies(permission) || pc2.implies(permission);
}

public Enumeration<Permission> elements() {
 final Enumeration<Permission> e1 = pc1.elements();
 final Enumeration<Permission> e2 = pc2.elements();
 return new Enumeration<Permission>() {
 public boolean hasMoreElements() {
 return e1.hasMoreElements() || e2.hasMoreElements();
 }

 public Permission nextElement() {
 return e1.hasMoreElements() ? e1.nextElement() : e2.nextElement();
 }
 };
}

private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
 ois.defaultReadObject();
 if (pc1 == null) {
 throw ElytronMessages.log.invalidObjectNull("pc1");
 }
 if (pc2 == null) {
 throw ElytronMessages.log.invalidObjectNull("pc2");
 }
}

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```

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\*/

```
package org.wildfly.security.permission;
```

```
/**
```

```
* A base class for nameless and actionless permissions that are either granted or not granted.
```

```
*
```

```
* @author David M. Lloyd
```

```
*/
```

```
public abstract class AbstractBooleanPermission<This extends AbstractBooleanPermission<This>> extends
AbstractPermission<This> {
```

```
/**
```

```
* Construct a new instance.
```

```
*/
```

```
protected AbstractBooleanPermission() {
 super("");
}
```

```
public boolean implies(final This permission) {
 return permission != null;
}
```

```
public boolean equals(final This other) {
 return other != null;
}
```

```
public int hashCode() {
 return getClass().hashCode();
}
```

```
public AbstractPermissionCollection newPermissionCollection() {
 return new BooleanPermissionCollection(this);
}
```

```
}
```

```
/*
```

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\*/

```
package org.wildfly.security.auth.permission;
```

```
import org.wildfly.security.permission.AbstractNameOnlyPermission;
```

```
/**
```

```
* The permission to run as another principal within some security domain. Note that this permission is checked
relative
* to the security domain that the user is authenticated to. The principal name is the effective name after all rewrite
* operations have taken place.
```

```
*/
```

```
public final class RunAsPrincipalPermission extends AbstractNameOnlyPermission<RunAsPrincipalPermission> {
```

```
 private static final long serialVersionUID = -3361334389433669815L;
```

```
 /**
```

```
 * Construct a new instance.
```

```
 *
```

```
 * @param name the principal name, or { @code * } for global run-as permissions
```

```
 */
```

```
 public RunAsPrincipalPermission(final String name) {
 super(name);
 }
```

```
 /**
```

```
 * Construct a new instance.
```

```
 *
```

```
 * @param name the principal name, or { @code * } for global run-as permissions
```

```
 * @param ignored the permission actions (ignored)
```

```
 */
```

```
 public RunAsPrincipalPermission(final String name, @SuppressWarnings("unused") final String ignored) {
 this(name);
 }
```

```
 public RunAsPrincipalPermission withName(final String name) {
 return new RunAsPrincipalPermission(name);
 }
```

```
}
```

```
/*
```

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```
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```

```
*/
```

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* limitations under the License.
*/

```

```

package org.wildfly.security.permission;

```

```

/**

```

```

* An exception which is thrown when an invalid permission class is instantiated.

```

```

*

```

```

* @author David M. Lloyd

```

```

*/

```

```

public class InvalidPermissionClassException extends IllegalArgumentException {
 private static final long serialVersionUID = 7910334218992625018L;

```

```

/**

```

```

* Constructs a new {@code InvalidPermissionClassException} instance. The message is left blank ({@code null}), and

```

```

* no

```

```

* cause is specified.

```

```

*/

```

```

public InvalidPermissionClassException() {
}

```

```

/**

```

```

* Constructs a new {@code InvalidPermissionClassException} instance with an initial message. No

```

```

* cause is specified.

```

```

*

```

```

* @param msg the message

```

```

*/

```

```

public InvalidPermissionClassException(final String msg) {
 super(msg);
}

```

```

/**

```

```

* Constructs a new {@code InvalidPermissionClassException} instance with an initial cause. If

```

```

* a non-{@code null} cause is specified, its message is used to initialize the message of this

```

```

* {@code InvalidPermissionClassException}; otherwise the message is left blank ({@code null}).

```

```

*

```

```

* @param cause the cause

```

```

*/
public InvalidPermissionClassException(final Throwable cause) {
 super(cause);
}

/**
 * Constructs a new {@code InvalidPermissionClassException} instance with an initial message and cause.
 *
 * @param msg the message
 * @param cause the cause
 */
public InvalidPermissionClassException(final String msg, final Throwable cause) {
 super(msg, cause);
}
}
}
/*
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*/

package org.wildfly.security.permission;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.AllPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Permissions;
import java.util.Arrays;
import java.util.Collection;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.function.BiConsumer;
import java.util.function.BiPredicate;

```

```

import java.util.function.Consumer;
import java.util.function.IntFunction;
import java.util.function.LongFunction;
import java.util.function.Predicate;
import java.util.function.ToIntFunction;
import java.util.function.ToLongFunction;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * General permission utility methods and constants.
 *
 * @author David M. Lloyd
 */
public final class PermissionUtil {

 private PermissionUtil() {
 }

 /**
 * A shared {@link AllPermission} instance.
 */
 public static final Permission ALL_PERMISSION = new AllPermission();

 /**
 * A read-only permission collection which implies {@link AllPermission}.
 */
 public static final PermissionCollection ALL_PERMISSIONS;

 /**
 * A permission collection which is empty.
 */
 public static final PermissionCollection EMPTY_PERMISSION_COLLECTION;

 /**
 * An array with no permissions in it.
 */
 public static final Permission[] NO_PERMISSIONS = new Permission[0];

 static {
 Permissions permissions = new Permissions();
 permissions.add(ALL_PERMISSION);
 permissions.setReadOnly();
 ALL_PERMISSIONS = permissions;
 permissions = new Permissions();
 permissions.setReadOnly();
 EMPTY_PERMISSION_COLLECTION = permissions;
 }
}

```

```

}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static int parseActions(String actionsString, ToIntFunction<String> function) throws
IllegalArgumentException {
 Assert.checkNotNullParam("actionsString", actionsString);
 Assert.checkNotNullParam("function", function);
 int actions = 0;
 int pos = 0;
 int idx = actionsString.indexOf(',');
 for (;;) {
 String str;
 if (idx == -1) {
 str = actionsString.substring(pos, actionsString.length()).trim();
 if (! str.isEmpty()) actions |= function.applyAsInt(str);
 return actions;
 } else {
 str = actionsString.substring(pos, idx).trim();
 pos = idx + 1;
 if (! str.isEmpty()) actions |= function.applyAsInt(str);
 idx = actionsString.indexOf(',', pos);
 }
 }
}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static long parseActions(String actionsString, ToLongFunction<String> function) throws
IllegalArgumentException {
 Assert.checkNotNullParam("actionsString", actionsString);
 Assert.checkNotNullParam("function", function);
 long actions = 0;
 int pos = 0;

```

```

int idx = actionsString.indexOf(',');
for (;;) {
 String str;
 if (idx == -1) {
 str = actionsString.substring(pos, actionsString.length()).trim();
 if (! str.isEmpty()) actions |= function.applyAsLong(str);
 return actions;
 } else {
 str = actionsString.substring(pos, idx).trim();
 pos = idx + 1;
 if (! str.isEmpty()) actions |= function.applyAsLong(str);
 idx = actionsString.indexOf(',', pos);
 }
}
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings. If the bits are all clear,
 * the empty string { @code "" } is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be { @code null })
 * @return the actions string (not { @code null })
 */
public static String toActionsString(int actionBits, IntFunction<String> mappingFunction) {
 Assert.checkNotNullParam("mappingFunction", mappingFunction);
 final StringBuilder sb = new StringBuilder();
 if (actionBits == 0) return "";
 int lb = Integer.highestOneBit(actionBits);
 sb.append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 while (actionBits != 0) {
 lb = Integer.highestOneBit(actionBits);
 sb.append(',').append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 }
 return sb.toString();
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings. If the bits are all clear,
 * the empty string { @code "" } is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be { @code null })
 * @return the actions string (not { @code null })
 */
public static String toActionsString(long actionBits, LongFunction<String> mappingFunction) {

```

```

 Assert.checkNotNullParam("mappingFunction", mappingFunction);
 final StringBuilder sb = new StringBuilder();
 if (actionBits == 0) return "";
 long lb = Long.highestOneBit(actionBits);
 sb.append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 while (actionBits != 0) {
 lb = Long.highestOneBit(actionBits);
 sb.append(',').append(mappingFunction.apply(lb));
 actionBits &= ~lb;
 }
 return sb.toString();
}

/**
 * Create an iterable view over a permission collection.
 *
 * @param pc the permission collection (must not be {@code null})
 * @return the iterable view (not {@code null})
 */
public static Iterable<Permission> iterable(PermissionCollection pc) {
 return () -> {
 final Enumeration<Permission> elements = pc.elements();
 return new Iterator<Permission>() {
 public boolean hasNext() {
 return elements.hasMoreElements();
 }

 public Permission next() {
 return elements.nextElement();
 }
 };
 };
}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 */
public static void forEachIn(PermissionCollection collection, Consumer<Permission> consumer) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("consumer", consumer);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 consumer.accept(elements.nextElement());
 }
}

```

```

}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 * @param <P> the type of the parameter
 * @return the {@code parameter} that was passed in
 */
public static <P> P forEachIn(PermissionCollection collection, BiConsumer<P, Permission> consumer, P
parameter) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("consumer", consumer);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 consumer.accept(parameter, elements.nextElement());
 }
 return parameter;
}

/**
 * Run a test for each permission in the given collection. If the predicate returns {@code false} for any element,
 * {@code false} is returned; otherwise, {@code true} is returned.
 *
 * @param collection the collection (must not be {@code null})
 * @param predicate the predicate to apply to each element (must not be {@code null})
 * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
 */
public static boolean forEachIn(PermissionCollection collection, Predicate<Permission> predicate) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("predicate", predicate);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 if (! predicate.test(elements.nextElement())) {
 return false;
 }
 }
 return true;
}

/**
 * Run a test for each permission in the given collection. If the predicate returns {@code false} for any element,
 * {@code false} is returned; otherwise, {@code true} is returned.
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer

```



```

* @param predicate the predicate to apply to each element (must not be {@code null})
* @param <P> the type of the parameter
* @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
*/
public static <P> boolean forEachIn(PermissionCollection collection, BiPredicate<P, Permission> predicate, P
parameter) {
 Assert.checkNotNullParam("collection", collection);
 Assert.checkNotNullParam("predicate", predicate);
 final Enumeration<Permission> elements = collection.elements();
 while (elements.hasMoreElements()) {
 if (! predicate.test(parameter, elements.nextElement())) {
 return false;
 }
 }
 return true;
}

/**
* Create a permission collection that is the union of two permission collections. The permission
* collections must be read-only.
*
* @param pc1 the first permission collection (must not be {@code null})
* @param pc2 the second permission collection (must not be {@code null})
* @return a new permission collection that is the union of the two collections (not {@code null})
*/
public static PermissionCollection union(PermissionCollection pc1, PermissionCollection pc2) {
 Assert.checkNotNullParam("pc1", pc1);
 Assert.checkNotNullParam("pc2", pc2);
 if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
 throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
 }
 if (pc1.implies(ALL_PERMISSION) || pc2.implies(ALL_PERMISSION)) {
 return ALL_PERMISSIONS;
 } else {
 return new UnionPermissionCollection(pc1, pc2);
 }
}

/**
* Create a permission collection that is the intersection of two permission collections. The permission
* collections must be read-only.
*
* @param pc1 the first permission collection (must not be {@code null})
* @param pc2 the second permission collection (must not be {@code null})
* @return a new permission collection that is the intersection of the two collections (not {@code null})
*/
public static PermissionCollection intersection(PermissionCollection pc1, PermissionCollection pc2) {
 Assert.checkNotNullParam("pc1", pc1);

```

```

Assert.checkNotNullParam("pc2", pc2);
if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
 throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
}
if (pc1.implies(ALL_PERMISSION)) {
 return pc2;
} else if (pc2.implies(ALL_PERMISSION)) {
 return pc1;
} else {
 return new IntersectionPermissionCollection(pc1, pc2);
}
}

/**
 * Determine if one collection implies all the permissions in the other collection.
 *
 * @param collection the collection to check against (must not be {@code null})
 * @param testCollection the collection whose permissions are to be tested (must not be {@code null})
 * @return {@code true} if {@code collection} implies all of the permissions in {@code testCollection}, {@code
false} otherwise
 */
public static boolean impliesAll(PermissionCollection collection, PermissionCollection testCollection) {
 return forEachIn(collection, PermissionCollection::implies, testCollection);
}

/**
 * Determine if two permission collections are equal, that is, each collection implies all of the permissions in the
 * other collection.
 *
 * @param pc1 the first collection (must not be {@code null})
 * @param pc2 the second collection (must not be {@code null})
 * @return {@code true} if the collections imply one another, {@code false} otherwise
 */
public static boolean equals(PermissionCollection pc1, PermissionCollection pc2) {
 return impliesAll(pc1, pc2) && impliesAll(pc2, pc1);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
public static PermissionCollection addAll(PermissionCollection target, PermissionCollection source) {
 return forEachIn(source, PermissionCollection::add, target);
}

```

```

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be { @code null})
 * @param source the source collection (must not be { @code null})
 * @return the target collection (not { @code null})
 */
public static PermissionCollection addAll(PermissionCollection target, Collection<Permission> source) {
 source.forEach(target::add);
 return target;
}

/**
 * Add a permission to a collection, returning the target collection. If the permission is { @code null}, it is
 * not added.
 *
 * @param target the target collection (must not be { @code null})
 * @param source the permission to add
 * @return the target collection (not { @code null})
 */
public static PermissionCollection add(PermissionCollection target, Permission source) {
 Assert.checkNotNullParam("target", target);
 if (source != null) target.add(source);
 return target;
}

/**
 * Instantiate a permission with the given class name, permission name, and actions.
 *
 * @param classLoader the class loader to search in ({ @code null} indicates the system class loader)
 * @param className the name of the permission class to instantiate (must not be { @code null})
 * @param name the permission name (may be { @code null} if allowed by the permission class)
 * @param actions the permission actions (may be { @code null} if allowed by the permission class)
 * @return the permission object (not { @code null})
 * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
 * @throws ClassCastException if the class name does not refer to a subclass of { @link Permission}
 */
public static Permission createPermission(final ClassLoader classLoader, final String className, final String
name, final String actions) {
 Assert.checkNotNullParam("className", className);
 final Class<? extends Permission> permissionClass;
 try {
 permissionClass = Class.forName(className, true, classLoader).asSubclass(Permission.class);
 } catch (ClassNotFoundException e) {
 throw ElytronMessages.log.permissionClassMissing(className, e);
 }
 return createPermission(permissionClass, name, actions);
}

```

```

/**
 * Instantiate a permission with the given class, permission name, and actions.
 *
 * @param permissionClass the permission class to instantiate (must not be {@code null})
 * @param name the permission name (may be {@code null} if allowed by the permission class)
 * @param actions the permission actions (may be {@code null} if allowed by the permission class)
 * @return the permission object (not {@code null})
 * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
 */
public static Permission createPermission(final Class<? extends Permission> permissionClass, final String name,
final String actions) {
 Assert.checkNotNullParam("permissionClass", permissionClass);
 Constructor<? extends Permission> noArgs = null;
 Constructor<? extends Permission> oneArg = null;
 Constructor<? extends Permission> twoArg = null;
 for (Constructor<?> raw : permissionClass.getConstructors()) {
 @SuppressWarnings("unchecked")
 Constructor<? extends Permission> ctor = (Constructor<? extends Permission>) raw;
 final Class<?>[] parameterTypes = ctor.getParameterTypes();
 if (parameterTypes.length == 2 && parameterTypes[0] == String.class && parameterTypes[1] ==
String.class) {
 twoArg = ctor;
 } else if (parameterTypes.length == 1 && parameterTypes[0] == String.class) {
 oneArg = ctor;
 } else if (parameterTypes.length == 0) {
 noArgs = ctor;
 }
 }
 try {
 if (twoArg != null) {
 return twoArg.newInstance(name, actions);
 } else if (oneArg != null) {
 return oneArg.newInstance(name);
 } else if (noArgs != null) {
 return noArgs.newInstance();
 } else {
 throw ElytronMessages.log.noPermissionConstructor(permissionClass.getName());
 }
 } catch (IllegalAccessException e) {
 throw new IllegalAccessException(e.getMessage());
 } catch (InstantiationException e) {
 throw ElytronMessages.log.permissionInstantiation(permissionClass.getName(), e);
 } catch (InvocationTargetException e) {
 try {
 throw e.getCause();
 } catch (Error | RuntimeException cause) {
 throw cause;
 }
 }
}

```

```

 } catch (Throwable cause) {
 throw new UndeclaredThrowableException(cause);
 }
 }
}

/**
 * Get a read-only collection of the given permissions.
 *
 * @param permissions the permissions to assign
 * @return the read-only collection
 */
public static PermissionCollection readOnlyCollectionOf(Permission... permissions) {
 final int length = permissions.length;
 if (length == 0) {
 return EMPTY_PERMISSION_COLLECTION;
 } else {
 Permissions collection = new Permissions();
 addAll(collection, Arrays.asList(permissions));
 collection.setReadOnly();
 return collection;
 }
}

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.wildfly.security.permission;

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

```

```

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * Base class for useful permission collections.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractPermissionCollection extends PermissionCollection implements Iterable<Permission>,
PermissionVerifier {
 private static final long serialVersionUID = - 7532778883140764647L;

 private final AbstractPermission<?> sourcePermission;

 /**
 * Construct a new instance.
 *
 * @param sourcePermission the source permission for this collection (must not be { @code null})
 */
 protected AbstractPermissionCollection(final AbstractPermission<?> sourcePermission) {
 Assert.checkNotNullParam("sourcePermission", sourcePermission);
 this.sourcePermission = sourcePermission;
 }

 /**
 * Get the size of this permission collection.
 *
 * @return the size of this permission collection
 */
 public abstract int size();

 /**
 * Iterate over this permission collection.
 *
 * @return the iterator (not { @code null})
 */
 public abstract Iterator<Permission> iterator();

 /**
 * Iterate over this permission collection.
 *
 * @return the iterator (not { @code null})
 */
 public abstract Enumeration<Permission> elements();

 /**
 * Add an item to this collection. The permission class must be the same as the source permission's class.

```

```

*
* @param permission the permission to add (must not be {@code null})
*/
public final void add(final Permission permission) {
 Assert.checkNotNullParam("permission", permission);
 if (isReadOnly()) throw ElytronMessages.log.readOnlyPermissionCollection();
 @SuppressWarnings("rawtypes")
 Class<? extends AbstractPermission> expected =
sourcePermission.getClass().asSubclass(AbstractPermission.class);
 if (expected != permission.getClass()) {
 throw ElytronMessages.log.invalidPermissionType(expected, permission);
 }
 doAdd(expected.cast(permission));
}

/**
 * Perform the work of adding a permission. The permission is guaranteed to be of the correct type and the
collection
 * is guaranteed to have been writable at the time the {@link #add(Permission)} method was called.
 *
 * @param permission the non-{@code null} permission
 */
protected abstract void doAdd(final AbstractPermission<?> permission);

final AbstractPermission<?> getSourcePermission() {
 return sourcePermission;
}

final Object writeReplace() {
 return new SerializedPermissionCollection(this);
}
}
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```

```

*/

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;

final class SerializedPermissionCollection implements Serializable {
 private static final long serialVersionUID = - 8745428905589938281L;

 private final Permission s;
 private final Permission[] p;
 private final boolean r;

 SerializedPermissionCollection(final AbstractPermissionCollection collection) {
 s = collection.getSourcePermission();
 final ArrayList<Permission> list = new ArrayList<>(collection.size());
 collection.forEach(list::add);
 p = list.toArray(PermissionUtil.NO_PERMISSIONS);
 r = collection.isReadOnly();
 }

 Object readResolve() {
 final PermissionCollection collection = s.newPermissionCollection();
 for (Permission permission : p) {
 collection.add(permission);
 }
 if (r) collection.setReadOnly();
 return collection;
 }
}
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```



```

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*/

package org.wildfly.security.permission;

/**
 * A permission which has a name only, and no actions.
 *
 * @author David M. Lloyd
 */
public abstract class AbstractNameOnlyPermission<This extends AbstractNameOnlyPermission<This>> extends
AbstractNamedPermission<This> {
 /**
 * Construct a new instance.
 *
 * @param name the permission name (must not be { @code null })
 */
 protected AbstractNameOnlyPermission(final String name) {
 super(name);
 }

 public AbstractPermissionCollection newPermissionCollection() {
 return new ByNamePermissionCollection(this);
 }
}

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 */

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;

```

```

import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringMapping;

/**
 * Stub class for the unlikely event that a serialized instance is lying around somewhere.
 *
 * @author David M. Lloyd
 */
@Deprecated
final class ElytronPermissionCollection extends PermissionCollection implements Serializable {

 private static final long serialVersionUID = 1L;

 private final int p1;

 ElytronPermissionCollection(final int p1) {
 this.p1 = p1;
 }

 public void add(final Permission permission) {
 throw Assert.unsupported();
 }

 public boolean implies(final Permission permission) {
 throw Assert.unsupported();
 }

 public Enumeration<Permission> elements() {
 throw Assert.unsupported();
 }

 Object readResolve() {
 final AbstractPermissionCollection collection = new ElytronPermission("").newPermissionCollection();
 final StringMapping<ElytronPermission> mapping = ElytronPermission.mapping;
 int bits = p1;
 int test;
 while (bits != 0) {
 collection.add(mapping.getItemById(Integer.numberOfTrailingZeros(test = Integer.lowestOneBit(bits))));
 bits &= ~test;
 }
 if (isReadOnly()) {
 collection.setReadOnly();
 }
 return collection;
 }
}

```

```

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 */

```

```
package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
```

```
/**
 * The permission collection type for { @link NoPermission}.
 *
 * @author David M. Lloyd
 */

```

```
final class NoPermissionCollection extends AbstractPermissionCollection {
 private static final long serialVersionUID = - 8826282614161412469L;

 private static NoPermissionCollection INSTANCE = new NoPermissionCollection();

 NoPermissionCollection() {
 super(NoPermission.getInstance());
 }

 static NoPermissionCollection getInstance() {
 return INSTANCE;
 }

 protected void doAdd(final AbstractPermission<?> permission) {
 // no action
 }

 public boolean implies(final Permission permission) {

```

```

 return false;
}

public Enumeration<Permission> elements() {
 return Collections.emptyEnumeration();
}

public Iterator<Permission> iterator() {
 return Collections.emptyIterator();
}

public int size() {
 return 0;
}

Object readResolve() {
 return INSTANCE;
}

public boolean equals(final Object obj) {
 return obj instanceof NoPermissionCollection;
}

public int hashCode() {
 return getClass().hashCode();
}
}
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 */

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractBooleanPermission;

```

```

/**
 * Establish whether the current identity has permission to complete an authentication ("log in").
 *
 * @author David M. Lloyd
 */
public final class LoginPermission extends AbstractBooleanPermission<LoginPermission> {

 private static final long serialVersionUID = - 5776174571770792690L;

 /**
 * Construct a new instance.
 */
 public LoginPermission() {
 }

 /**
 * Construct a new instance.
 *
 * @param name ignored
 */
 public LoginPermission(@SuppressWarnings("unused") final String name) {
 }

 /**
 * Construct a new instance.
 *
 * @param name ignored
 * @param actions ignored
 */
 public LoginPermission(@SuppressWarnings("unused") final String name, @SuppressWarnings("unused") final
String actions) {
 }

 private static final LoginPermission INSTANCE = new LoginPermission();

 /**
 * Get the instance of this class.
 *
 * @return the instance of this class
 */
 public static LoginPermission getInstance() {
 return INSTANCE;
 }
}

```

# 1.703 netty-codec-dns 4.1.19.Final

## 1.704 osgi-annotation-versioning 1.0.0

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## 1.705 wildfly-clustering-web-infinispan

### 14.0.1.Final

## 1.706 keycloak-themes 4.8.3.Final

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```
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">
```

```
 <ol class="breadcrumb">
 {{:: 'clients' | translate }}
 {{ client.clientId }}
 {{:: 'authz-authorization' |
translate }}
 {{:: 'authz-
permissions' | translate }}
 <li data-ng-show="create">{{:: 'authz-add-resource-permission' | translate }}
 <li data-ng-hide="create">{{ originalPolicy.name }}

```

```
 <h1 data-ng-show="create">{{:: 'authz-add-resource-permission' | translate }}</h1>
 <h1 data-ng-hide="create">{{ originalPolicy.name|capitalize }}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>
```

```
 <form class="form-horizontal" name="clientForm" novalidate>
 <fieldset class="border-top">
 <div class="form-group">
 <label class="col-md-2 control-label" for="name">{{:: 'name' | translate }} *</label>
 <div class="col-sm-6">
 <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
 </div>
 <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate }}</kc-tooltip>
 </div>
 <div class="form-group">
 <label class="col-md-2 control-label" for="description">{{:: 'description' | translate }} </label>
 <div class="col-sm-6">
 <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
 </div>
 <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate }}</kc-tooltip>
 </div>
 </div class="form-group">
```

```

<label class="col-md-2 control-label" for="applyToResourceTypeFlag">{{:: 'authz-permission-resource-apply-to-resource-type' | translate }}</label>
<div class="col-md-6">
 <input ng-model="applyToResourceTypeFlag" id="applyToResourceTypeFlag" onoffswitch data-ng-click="applyToResourceType()"/>
</div>
<kc-tooltip>{{:: 'authz-permission-resource-apply-to-resource-type.tooltip' | translate }}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-hide="applyToResourceTypeFlag">
 <label class="col-md-2 control-label" for="resources">{{:: 'authz-resources' | translate }} *</label>

 <div class="col-md-6">
 <input type="hidden" ui-select2="resourcesUiSelect" id="resources" data-ng-model="selectedResource" data-placeholder="{{:: 'authz-select-resource' | translate }}..." data-ng-required="!applyToResourceTypeFlag"/>
 </div>
 <kc-tooltip>{{:: 'authz-permission-resource-resource.tooltip' | translate }}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="applyToResourceTypeFlag">
 <label class="col-md-2 control-label" for="resourceType">{{:: 'authz-resource-type' | translate }} *</label>

 <div class="col-md-6">
 <input class="form-control" type="text" id="resourceType" name="policy.resourceType" data-ng-model="policy.resourceType" data-ng-required="applyToResourceTypeFlag">
 </div>

 <kc-tooltip>{{:: 'authz-permission-resource-type.tooltip' | translate }}</kc-tooltip>
</div>
<div class="form-group clearfix">
 <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate }}</label>
 <div class="col-sm-6">
 <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
 <thead>
 <tr>
 <th class="kc-table-actions" colspan="2">
 <div class="form-inline col-md-12" style="width: 107%">
 <div class="form-group" style="width: 100%">
 <div class="input-group" style="width: 100%">
 <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-policy' | translate }}..." />
 </div>
 </div>
 </div>
 </th>
 <th class="kc-table-actions">
 <div class="pull-right" style="width: 100%">

```

```

 <select id="create-policy" class="form-control" ng-model="policyType"
 ng-options="p.name for p in policyProviders track by p.type"
 data-ng-change="addPolicy(policyType);"
 data-ng-hide="historyBackOnSaveOrCancel">
 <option value="" disabled selected>{{:: 'authz-create-policy' | translate }}...</option>
 </select>
 </div>
</th>
</tr>
<tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
 <th>{{:: 'name' | translate }}</th>
 <th>{{:: 'description' | translate }}</th>
 <th width="20%">{{:: 'actions' | translate }}</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="policy in selectedPolicies">
 <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{ policy.name }}</td>
 <td data-ng-show="historyBackOnSaveOrCancel">{{ policy.name }}</td>
 <td>{{ policy.description }}</td>
 <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
 {{:: 'remove' | translate }}
 </td>
</tr>
<tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
 <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate }}</td>
</tr>
</tbody>
</table>
</div>
<kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate }}</kc-tooltip>
</div>
<div class="form-group clearfix">
 <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate }}</label>

 <div class="col-sm-2">
 <select class="form-control" id="decisionStrategy"
 data-ng-model="policy.decisionStrategy"
 ng-change="selectDecisionStrategy()">
 <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate }}</option>
 <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate }}</option>
 <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate }}</option>
 </select>
 </div>

```

```
</div>

<kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate }}</kc-tooltip>
</div>
<input type="hidden" data-ng-model="policy.type"/>
</fieldset>

<div class="form-group" data-ng-show="access.manageAuthorization">
 <div class="col-md-10 col-md-offset-2">
 <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate }}</button>
 <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate }}</button>
 </div>
</div>
</form>
</div>
```

```
<kc-menu></kc-menu>
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```

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```

 <input type="text" placeholder="{:: 'authz-scope' | translate}" data-ng-model="query.scope"
class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
 <div class="input-group-addon">
 <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
 </div>
 </div>
 <div class="input-group">
 <select class="form-control search" data-ng-model="query.type"
 ng-options="p.type as p.name group by p.group for p in policyProviders track by p.type"
data-ng-change="firstPage()">
 <option value="" selected ng-click="query.type = "">{:: 'authz-all-types' |
translate}</option>
 </select>
 </div>
 <div class="pull-right">
 <select class="form-control" ng-model="policyType"
 ng-options="p.name for p in policyProviders track by p.type"
 id="create-permission"
 data-ng-change="addPolicy(policyType);">
 <option value="" disabled selected>{:: 'authz-create-permission' | translate}</option>
 </select>
 </div>
</div>
</th>
</tr>
<tr data-ng-hide="policies.length == 0">
 <th width="1%"></th>
 <th>{:: 'name' | translate}</th>
 <th>{:: 'description' | translate}</th>
 <th width="7%">{:: 'type' | translate}</th>
 <th width="6%" style="text-align: center;">{:: 'actions' | translate}</th>
</tr>
</thead>
<tfoot data-ng-show="policies && (policies.length >= query.max || query.first > 0)">
<tr>
 <td colspan="5">
 <div class="table-nav">
 <button data-ng-click="firstPage()" class="first" ng-disabled="query.first == 0">{:: 'first-page' |
translate}</button>
 <button data-ng-click="previousPage()" class="prev" ng-disabled="query.first == 0">{:: 'previous-
page' | translate}</button>
 <button data-ng-click="nextPage()" class="next" ng-disabled="policies.length < query.max">{:: 'next-
page' | translate}</button>
 </div>
 </td>
</tr>

```

```

</tfoot>
<tbody>
 <tr ng-repeat-start="policy in policies | filter: { name: search.name, type: search.type } | orderBy:'name'" data-
ng-click="showDetails(policy, $event);" style="cursor: pointer">
 <td>

 </td>
 <td><a href="#/realms/{{ realm.realm }}/clients/{{ client.id }}/authz/resource-
server/permission/{{ policy.type }}/{{ policy.id }}">{{ policy.name }}</td>
 <td>{{ policy.description }}</td>
 <td>{{ policy.type }}</td>
 <td align="center">
 <div class="dropdown dropdown-kebab-pf">
 <button class="btn btn-default" ng-click="delete(policy);">{{ ':: 'delete' | translate }}
 </button>
 </div>
 </td>
 </tr>
 <tr ng-if="policy.details && policy.details.loaded" ng-repeat-end="">
 <td colspan="5" style="background-color: #ffffff">
 <div class="list-group-item-container container-fluid">
 <div class="close" data-ng-click="showDetails(policy, $event);" style="padding-top: 10px">

 </div>
 <div class="row">
 <div class="col-md-12">
 <dl class="dl-horizontal">
 <dt>{{ ':: 'authz-associated-policies' | translate }}</dt>
 <dd>
 {{ '::
'authz-no-policies-available' | translate }}
 <span ng-repeat="dep in policy.associatedPolicies" data-ng-
show="policy.associatedPolicies.length > 0"><a
href="#/realms/{{ realm.realm }}/clients/{{ client.id }}/authz/resource-server/{{ dep.type == 'scope' || dep.type ==
'resource' ? 'permission' : 'policy' }}/{{ dep.type }}/{{ dep.id }}">{{ dep.name }}{{ '$last ? ' : ',' }}
 </dd>
 </dl>
 </div>
 </div>
 </div>
 </td>
 </tr>
 <tr data-ng-show="(policies | filter:search).length == 0">
 <td class="text-muted" colspan="3" data-ng-show="search.name">{{ ':: 'no-results' | translate }}</td>
 <td class="text-muted" colspan="3" data-ng-hide="search.name">{{ ':: 'authz-no-permissions-available' |
translate }}</td>
 </tr>

```

</tbody>

</table>

</div>

<kc-menu></kc-menu>

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```
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">
```

```
<ol class="breadcrumb">
 {{:: 'clients' | translate }}
 {{ client.clientId }}
 {{:: 'authz-authorization' |
translate }}
 {{:: 'authz-
permissions' | translate }}
 <li data-ng-show="create">{{:: 'authz-add-scope-permission' | translate }}
 <li data-ng-hide="create">{{ originalPolicy.name }}

<h1 data-ng-show="create">{{:: 'authz-add-scope-permission' | translate }}</h1>
<h1 data-ng-hide="create">{{ originalPolicy.name|capitalize }}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>
```

```

<form class="form-horizontal" name="clientForm" novalidate>
 <fieldset class="border-top">
 <div class="form-group">
 <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} *</label>
 <div class="col-sm-6">
 <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
 </div>
 <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
 </div>
 <div class="form-group">
 <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
 <div class="col-sm-6">
 <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
 </div>
 <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
 </div>
 <div class="form-group clearfix">
 <label class="col-md-2 control-label" for="resources">{{:: 'authz-resource' | translate}}</label>

 <div class="col-md-6">
 <input type="hidden" ui-select2="resourcesUiSelect" data-ng-change="selectResource()"
id="resources" data-ng-model="selectedResource" data-placeholder="{{:: 'authz-any-resource' | translate}}..." />
 </div>
 <kc-tooltip>{{:: 'authz-permission-scope-resource.tooltip' | translate}}</kc-tooltip>
 </div>
 <div class="form-group clearfix" data-ng-show="selectedResource">
 <label class="col-md-2 control-label" for="resourceScopes">{{:: 'authz-scopes' | translate}} *</label>
 <div class="col-md-6">
 <select ui-select2 id="resourceScopes"
 data-ng-model="selectedScopes"
 data-placeholder="{{:: 'authz-any-scope' | translate}}..." multiple
 data-ng-required="selectedResource != null">
 <option ng-repeat="scope in resourceScopes" value="{{scope.id}}">{{scope.name}}</option>
 </select>
 </div>
 <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
 </div>
 <div class="form-group clearfix" data-ng-show="!selectedResource">
 <label class="col-md-2 control-label" for="scopes">{{:: 'authz-scopes' | translate}} *</label>

 <div class="col-md-6">
 <input type="hidden" ui-select2="scopesUiSelect" id="scopes" data-ng-model="selectedScopes" data-
placeholder="{{:: 'authz-any-scope' | translate}}..." multiple data-ng-required="selectedResource == null" />

```

```

</div>
<kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
<label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
<div class="col-sm-6">
<table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
<thead>
<tr>
<th class="kc-table-actions" colspan="2">
<div class="form-inline col-md-12" style="width: 107%">
<div class="form-group" style="width: 100%">
<div class="input-group" style="width: 100%">
<input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
</div>
</div>
</div>
</th>
<th class="kc-table-actions">
<div class="pull-right" style="width: 100%">
<select id="create-policy" class="form-control" ng-model="policyType"
ng-options="p.name for p in policyProviders track by p.type"
data-ng-change="addPolicy(policyType);"
data-ng-hide="historyBackOnSaveOrCancel">
<option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
</select>
</div>
</th>
</tr>
<tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
<th>{{:: 'name' | translate}}</th>
<th>{{:: 'description' | translate}}</th>
<th width="20%">{{:: 'actions' | translate}}</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="policy in selectedPolicies">
<td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{ policy.name }}</td>
<td data-ng-show="historyBackOnSaveOrCancel">{{ policy.name }}</td>
<td>{{ policy.description }}</td>
<td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
{{:: 'remove' | translate}}
</td>
</tr>

```

```

 <tr data-ng-show="!selectedPolicies || selectedPolicies.length === 0">
 <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
 </tr>
 </tbody>
</table>
</div>
<kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
 <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

 <div class="col-sm-2">
 <select class="form-control" id="decisionStrategy"
 data-ng-model="policy.decisionStrategy"
 ng-change="selectDecisionStrategy()">
 <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
 <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
 <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
 </select>
 </div>

 <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
</div>
<input type="hidden" data-ng-model="policy.type"/>
</fieldset>
<div class="form-group" data-ng-show="access.manageAuthorization">
 <div class="col-md-10 col-md-offset-2">
 <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
 <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
 </div>
</div>
</form>
</div>

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```

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## 1.709 resteasy-jax-rs 3.6.1.Final

## 1.710 artemis-ra 2.6.3.jbossorg-001

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`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
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=====

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## 1.715 resteasy-jettison-provider 3.6.1.Final

## 1.716 wildfly-client-config 1.0.0.CR2

## 1.717 freemarker 2.3.26-incubating

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## 1.718 fs-extra 0.26.7

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## 1.719 optimist 0.6.1

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## 1.720 wildfly-patching 6.0.2.Final

## 1.721 jaxb-api 2.3.0



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## 1.726 xml-pull-parsing-api 1.1.3.1

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# 1.735 cxf-rt-transports-local 3.2.5-jbossorg-1

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Version 1.1

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*/
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {
```

```
 int copyFrom(InputStream in) throws IOException;
```

```
}
```

```
##
```

```
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```

```
##
```

```
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
```

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```

```
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#foreach ($license in $project.licenses)
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```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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```

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```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

- \* Base permission description which is visible to
- \* authorization handlers
- \* @see OAuthAuthorizationData
- \*

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;
```

```

public Permission() {

}

public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
}

public String getDescription() {
 return description;
}

public void setDescription(String description) {
 this.description = description;
}

public String getPermission() {
 return permission;
}

public void setPermission(String permission) {
 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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 tab-interval: 0.5in;
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margin-bottom: 0.05em;
}
</style>
```

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</head>
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<body lang="EN-US">
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```
<h2>Eclipse Public License - v 1.0</h2>
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## 1.736 microprofile-rest-client-api 1.0.1

### 1.737 ansi-regex 2.1.1

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## 1.739 json-net 11.0.2

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## 1.740 wildfly-jsr77 14.0.1.Final

### 1.741 http-dart 0.11.3+9

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analysis/common/src/java/net/sf/snowball  
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
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## 1.750 maven-builder-support 3.3.9

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## 1.752 ironjacamar-core-api 1.4.11.Final

## 1.753 keycloak-model-jpa 4.8.3.Final

## 1.754 debug 2.6.9

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# 1.755 old-jaxb-xjc 2.2.11

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# 1.756 aether-connector-basic 1.1.0

# 1.757 aether-spi 1.1.0

# 1.758 artemis-amqp-protocol 2.6.3.jbossorg-001

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## 1.759 chartered-dart 0.4.8

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## 1.760 wildfly-jaxrs 14.0.1.Final

# 1.761 maven-core 3.3.9

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## 1.764 yaml 2.1.7

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### **1.0.0.Final**

## **1.766 wildfly-jpa 14.0.1.Final**

## **1.767 eclipse-jgit 5.0.2.201807311906-r**

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The snowball stemmers in  
analysis/common/src/java/net/sf/snowball  
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analysis/common/src/org/apache/lucene/analysis/en  
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:  
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:

analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed  
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# 1.776 stich-dart 0.2.0+4

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## 1.777 wildfly-clustering-ee-infinispan

### 14.0.1.Final

## 1.778 netty-resolver 4.1.22.Final

## 1.779 undertow-server 1.2.3.Final

## 1.780 cxf-tools-java2ws 3.2.5-jbossorg-1

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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">
```

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</body>

</html>

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```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

}
```

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }
}
```

```

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
 License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

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## 1.781 reactive-streams 1.0.2

## 1.782 wildfly-server 6.0.2.Final

## 1.783 artemis-hornetq-protocol

### 2.6.3.jbossorg-001

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## 1.786 keycloak-saml-core 4.8.3.Final

## 1.787 findbugs-jsr305 3.0.0

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AppleJavaExtensions  
v 1.2

<http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html>

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v 1.2

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```

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```
</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
 <div class="container">
 <div class="navbar-header">
 <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
 Toggle navigation

 </button>

 </div>
 <div class="collapse navbar-collapse" id="mainnav-collapse">
 <div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>
 <ul class="nav navbar-nav navbar-right">
 <li class="dropdown">
 About
 <ul class="dropdown-menu" role="menu">
 Overview
 Members
 Process
 Sponsorship
 Glossary
 FAQ
 Contact

 Projects
 <li class="dropdown">
 People
 <ul class="dropdown-menu" role="menu">
 Overview
 Committers
 Meritocracy
 Roles
 Planet Apache

 </div>
 </div>
</nav>
</header>
</body>
</html>
```



```


<li class="dropdown">
 Get Involved
 <ul class="dropdown-menu" role="menu">
 Overview
 Community Development
 Help Wanted
 ApacheCon

Download
<li class="dropdown">
 Support Apache
 <ul class="dropdown-menu" role="menu">
 Sponsorship
 Donations
 Buy Stuff
 Thanks

</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">

</div>
<div class="col-md-3 col-sm-4 col-xs-12">
 <div class="input-group" style="margin-bottom: 5px;">
 <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
 '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);

```

```

 });
</script>
 <gcse:searchbox-only></gcse:searchbox-only>
</div>
 The Apache Way
 <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute
 ASF Sponsors
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```


```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
Overview
```

```
Conferences
```

```
Summer of Code
```

```
Getting Started
```

```
The Apache Way
```

```
Travel Assistance
```

```
Get Involved
```

```
Community FAQ
```

```
Memorials
```

```

```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
Incubator
```

```
Labs
```

```
Licensing
```

```
Licensing FAQ
```

```
Trademark Policy
```

```
Contacts
```

```

```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
Developer Information
Infrastructure
Security
Status
Contacts

</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
Overview
ASF News
Announcements
Twitter Feed
Contacts

</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
Legal Affairs
Licenses
Trademark Policy
Public Records
Privacy Policy
Export Information
License/Distribution FAQ
Contacts

</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright © 2017 The Apache Software Foundation, Licensed under the Apache License, Version 2.0.</p>
<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
```

```
</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

## 1.790 wildfly-ee 14.0.1.Final

## 1.791 javax activation api 1.2.0

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# 1.794 vertx-web 3.5.4

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# 1.797 javax-el 3.0.1-b08

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
```

```
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
```

```

 this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
 this.isDefault = value;
}

public boolean isDefault() {
 return isDefault;
}
}

```

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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
size: 8.5in 11.0in;
```

```
margin: 0.25in 0.5in 0.25in 0.5in;
tab-interval: 0.5in;
}
p {
margin-left: auto;
margin-top: 0.5em;
margin-bottom: 0.5em;
}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>

</head>

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$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##
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```

```
#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
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```

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\*/

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

/\*\*

- \* Marker interface for OutputStreams that can directly support
- \* copying from an input stream. OutputStreams that maintain their
- \* own byte buffer or similar may be able to optimize the copy
- \* instead of using the read/write into a temporary buffer that
- \* the normal IOUtils.copy method requires.

\*/

```
public interface CopyingOutputStream {
```

```
int copyFrom(InputStream in) throws IOException;

}
```

## 1.803 jopt-simple 5.0.3

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## 1.805 jsr-181 1.0 ="Maintenance Release 1

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## 1.807 simpleclient-common 0.5.0

## 1.808 mkdirp 0.5.1

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## 1.809 lua-resty-session 2.22

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## 1.810 wildfly-feature-spec-gen 2.0.0.Final

### 1.811 artemis-cli 2.6.3.jbossorg-001

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# 1.812 cxf-rt-ws-mex 3.2.5-jbossorg-1

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 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body text="#000000" bgcolor="#FFFFFF">
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 */
```

```
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```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

}
```

```
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##
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```

```
#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
 License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
```

```
#end
```

```
/**
```

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*
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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
* authorization handlers
```

```

* @see OAuthAuthorizationData
*/
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }

 /**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
 public void setDefault(boolean value) {
 this.isDefault = value;
 }

 public boolean isDefault() {
 return isDefault;
 }
}

```

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body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
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`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`

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`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`

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## 1.833 jbossws-spi 3.2.2.Final

## 1.834 dart-lang-sdk 1.21.1

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## 1.835 jackson-datatype-jdk8 2.9.5

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## 1.839 wildfly-messaging 14.0.1.Final

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## 1.843 opensaml-saml-impl 3.3.0

# 1.844 relaxngdatatype 20020414

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# 1.845 wildfly-clustering-spi 14.0.1.Final

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## 1.847 vue-wait 1.3.2

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## 1.848 sdk-dslink-dart 1.0.5

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...

part of dslink.common;

```
class Permission {
 /// now allowed to do anything
 static const int NONE = 0;

 /// list node
 static const int LIST = 1;

 /// read node
 static const int READ = 2;

 /// write attribute and value
 static const int WRITE = 3;

 /// config the node
 static const int CONFIG = 4;

 /// something that can never happen
 static const int NEVER = 5;

 static const List<String> names = const [
 'none',
 'list',
 'read',
 'write',
 'config',
 'never'
];

 static const Map<String, int> nameParser = const {
 'none': NONE,
 'list': LIST,
 'read': READ,
 'write': WRITE,
 'config': CONFIG,
 'never': NEVER
 };
};
```

```

static int parse(Object obj, [int defaultVal = NEVER]) {
 if (obj is String && nameParser.containsKey(obj)) {
 return nameParser[obj];
 }
 return defaultVal;
}

class PermissionList {
 Map<String, int> idMatches = {};
 Map<String, int> groupMatches = {};
 int defaultPermission = Permission.NONE;

 void updatePermissions(List data) {
 idMatches.clear();
 groupMatches.clear();
 defaultPermission = Permission.NONE;
 for (Object obj in data) {
 if (obj is Map) {
 if (obj['id'] is String) {
 idMatches[obj['id']] = Permission.nameParser[obj['permission']];
 } else if (obj['group'] is String) {
 if (obj['group'] == 'default') {
 defaultPermission = Permission.nameParser[obj['permission']];
 } else {
 groupMatches[obj['group']] =
 Permission.nameParser[obj['permission']];
 }
 }
 }
 }
 }

 bool _FORCE_CONFIG = true;

 int getPermission(Responder responder) {
 // TODO Permission temp workaround before user permission is implemented
 if (_FORCE_CONFIG) {
 return Permission.CONFIG;
 }
 if (idMatches.containsKey(responder.reqId)) {
 return idMatches[responder.reqId];
 }

 int rslt = Permission.NEVER;
 for (String group in responder.groups) {
 if (groupMatches.containsKey(group)) {
 int v = groupMatches[group];
 }
 }
 }
}

```

```

 if (v < rslt) {
 // choose the lowest permission from all matched group
 rslt = v;
 }
}

if (rslt == Permission.NEVER) {
 return defaultPermission;
}
return rslt;
}
}

```

## 1.849 netty-common 4.1.19.Final

## 1.850 weld-probe-core 3.0.5.Final

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```
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<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>Weld Probe HTML Client - List of Dependencies and
 Licenses</title>
<style type="text/css">
table {
border-collapse: collapse;
}

table, th, td {
border: 1px solid silver;
}

th {
text-align: left;
background-color: silver;
}

th, td {
padding: 4px;
text-align: left;
}

tr:nth-child(even) {
background-color: snow;
}
</style>
</head>
<body>
<h1>Weld Probe HTML Client - List of Dependencies and Licenses</h1>
<p>The following material has been provided for informational
 purposes only, and should not be relied upon or construed as a
 legal opinion or legal advice.</p>
```

```

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</html>

```

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# 1.853 glyphs-halflings 1.9.0

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# 1.855 y18n 3.2.1

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## 1.856 wildfly-core-management-subsystem

### 6.0.2.Final

## 1.857 lua-resty-jwt 0.1.11

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## 1.858 wildfly-network 6.0.2.Final

## 1.859 hibernate-commons-annotations

### 5.0.4.Final

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## 1.861 vertx-auth-jwt 3.5.4

## 1.862 mod-cluster-core 1.4.0.Final

## 1.863 types-zen-observable 0.8.0

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## 1.864 balanced-match 1.0.0

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## 1.865 xstream 1.4.11.1

## 1.866 netty-xnio-transport 0.1.6.Final

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## 1.867 async 0.2.10

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## 1.868 cdi-apis 1.0

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\*/

```
package javax.enterprise.inject;
```

/\*\*

- \* <p>Indicates that a producer method returned a null value or a producer
- \* field contained a null value, and the scope of the producer method
- \* or field was not { @link javax.enterprise.context.Dependent}.</p>



```

*/
public class IllegalProductException extends InjectionException
{

 private static final long serialVersionUID = -6280627846071966243L;

 public IllegalProductException()
 {
 super();
 }

 public IllegalProductException(String message, Throwable cause)
 {
 super(message, cause);
 }

 public IllegalProductException(String message)
 {
 super(message);
 }

 public IllegalProductException(Throwable cause)
 {
 super(cause);
 }

}
/*
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*/

package javax.enterprise.context;

import static java.lang.annotation.ElementType.FIELD;
import static java.lang.annotation.ElementType.METHOD;

```

```

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

/**
 * <p>Specifies that a bean is application scoped.</p>
 *
 * <p>The application scope is active:</p>
 *
 *
 * during the <tt>service()</tt> method of any servlet in
 * the web application, during the <tt>doFilter()</tt> method of
 * any servlet filter and when the container calls any
 * <tt>ServletContextListener</tt>, <tt>HttpSessionListener</tt>,
 * <tt>AsyncListener</tt> or <tt>ServletRequestListener</tt>,
 * during any Java EE web service invocation,
 * during any asynchronous observer method notification,
 * during any remote method invocation of any EJB, during
 * any asynchronous method invocation of any EJB, during any
 * call to an EJB timeout method and during message delivery
 * to any EJB message-driven bean,
 * during any message delivery to a <tt>MessageListener</tt>
 * for a JMS topic or queue obtained from the Java EE component
 * environment, and
 * when the disposer method or <tt>@PreDestroy</tt> callback of
 * any bean with any normal scope other than <tt>@ApplicationScoped</tt>
 * is called.
 *
 *
 * <p>The application context is shared between all servlet
 * requests, asynchronous observer method notifications, web
 * service invocations, EJB remote method invocations, EJB
 * asynchronous method invocations, EJB timeouts and message
 * deliveries to message-driven beans that execute within the
 * same application. The application context is destroyed when
 * the application is shut down.</p>
 *
 * @author Gavin King
 * @author Pete Muir
 */
@Target({ TYPE, METHOD, FIELD })
@Retention(RUNTIME)

```

```
@Documented
@NormalScope
@Inherited
public @interface ApplicationScoped
{

}
}
```

# 1.869 snake-yaml 1.14

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```
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cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java  
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## 1.870 wildfly-domain-management 6.0.2.Final

## 1.871 jboss-remoting 5.0.0.Final

## 1.872 clipboardjs 0.3.6

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# 1.873 wildfly-clustering-web-undertow

## 14.0.1.Final

# 1.874 vertx-core 3.5.4

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## 1.875 jackson-module-jaxb-annotations 2.9.5

## 1.876 xnio-nio 3.5.1.Final

## 1.877 apollo-cache-inmemory 1.3.11

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## 1.878 javax-json 1.1.2

## 1.879 caffeine 2.6.2

## 1.880 httpcore-nio 4.4.4

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 */
```

```
/**
 * Embedded non-blocking server and server bootstrap.
 */
package org.apache.http.impl.nio.bootstrap;
```

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## 1.883 txw2 2.3.0



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## 1.885 maven-model-builder 3.3.9

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<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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package org.apache.cxf.io;

```

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

 int copyFrom(InputStream in) throws IOException;

}

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##
$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

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#foreach ($project in $projects)
#foreach ($license in $project.licenses)
#if (! ($apacheTxt == $license.name))

$project.name #if ($project.url)($project.url)#end $project.artifact

```

License: \$license.name #if (\$license.url) (\$license.url)#end

#end

#end

#end

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```

package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;

 public Permission() {

 }

 public Permission(String permission, String description) {
 this.description = description;
 this.permission = permission;
 }

 public String getDescription() {
 return description;
 }

 public void setDescription(String description) {
 this.description = description;
 }

 public String getPermission() {
 return permission;
 }

 public void setPermission(String permission) {
 this.permission = permission;
 }

 /**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
 public void setDefault(boolean value) {
 this.isDefault = value;
 }

 public boolean isDefault() {

```

```
 return isDefault;
}
}
```

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- (<http://schemas.xmlsoap.org/ws/2004/08/addressing/>)
- (<http://schemas.xmlsoap.org/wsd/http>)
- (<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd>)
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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
 size: 8.5in 11.0in;
 margin: 0.25in 0.5in 0.25in 0.5in;
 tab-interval: 0.5in;
}
p {
 margin-left: auto;
 margin-top: 0.5em;
 margin-bottom: 0.5em;
}
p.list {
 margin-left: 0.5in;
 margin-top: 0.05em;
 margin-bottom: 0.05em;
}
</style>

</head>

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```
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jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/ws_local/PERMITS_SQL/1084579566_1598535151.07/0/logging-0-23-2-sources-1-
jar/org/slf4j/impl/StaticMarkerBinder.java
```

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