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**1.311 spring-security-core 5.1.4.RELEASE**  
**1.312 spring-security-crypto 5.1.4.RELEASE**  
**1.313 spring-security-web 5.1.4.RELEASE**  
**1.314 spring-tx 4.2.6.RELEASE**  
    1.314.1 Available under license  
**1.315 spring-tx 5.1.5.RELEASE**  
**1.316 spring-web 5.1.5.RELEASE**  
**1.317 spring-webmvc 5.1.5.RELEASE**  
**1.318 springfox-core 2.2.2**  
**1.319 springfox-schema 2.2.2**  
**1.320 springfox-spi 2.2.2**  
**1.321 springfox-spring-web 2.2.2**

**1.322 springfox-swagger-common 2.2.2**

**1.323 springfox-swagger2 2.2.2**

**1.324 stateless4j 2.5.0**

1.324.1 Available under license

**1.325 stax-ex 1.8**

**1.326 stax2-api 3.1.4**

1.326.1 Available under license

**1.327 swagger-annotations 1.5.3**

**1.328 swagger-models 1.5.3**

**1.329 swagger-ui 3.22.0**

1.329.1 Available under license

**1.330 threetenabp 1.0.5**

**1.331 threetenbp 1.3.3**

**1.332 threetenbp 1.3.6**

1.332.1 Available under license

**1.333 tomcat-jdbc 9.0.16**

1.333.1 Available under license

**1.334 tomcat-juli 9.0.16**

1.334.1 Available under license

**1.335 txw2 2.3.1**

**1.336 tyrus-client 1.13**

1.336.1 Available under license

**1.337 tyrus-container-grizzly-client 1.13**

1.337.1 Available under license

**1.338 tyrus-core 1.13**

1.338.1 Available under license

**1.339 tyrus-spi 1.13**

1.339.1 Available under license

**1.340 underscore.js 1.8.3**

1.340.1 Available under license

**1.341 unix4j-base 0.4**

**1.342 unix4j-command 0.4**

**1.343 validation-api 2.0.1.Final**

1.343.1 Available under license

**1.344 velocity 1.5**

1.344.1 Available under license

**1.345 velocity-engine-core 2.0**

1.345.1 Available under license

**1.346 wagon-provider-api 1.0-beta-6**



- 1.346.1 Available under license
- 1.347 websocket-api 9.4.15.v20190429**
  - 1.347.1 Available under license
- 1.348 websocket-client 9.4.18.v20190429**
  - 1.348.1 Available under license
- 1.349 websocket-common 9.4.18.v20190429**
  - 1.349.1 Available under license
- 1.350 woodstox-core 5.0.3**
  - 1.350.1 Available under license
- 1.351 woodstox-core-asl 5.0.3**
- 1.352 wsdl4j 1.6.3**
  - 1.352.1 Available under license
- 1.353 xml-apis 1.4.01**
  - 1.353.1 Available under license
- 1.354 xml-pull 1.1.3.1**
  - 1.354.1 Available under license
- 1.355 xml-resolver 1.2**
  - 1.355.1 Available under license
- 1.356 xmlschema-core 2.2.4**
  - 1.356.1 Available under license
- 1.357 xpp3\_min 1.1.4c**
  - 1.357.1 Notifications
  - 1.357.2 Available under license
- 1.358 xsom 2.3.2**
  - 1.358.1 Available under license
- 1.359 xstream 1.4.11.1**
- 1.360 zlib 1.2.3**
  - 1.360.1 Available under license

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## 1.4 animal-sniffer-annotations 1.14

### 1.4.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/66" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="MobileOptimized" content="width" />
  <title>The MIT License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiyJtb186Ydycnpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-business/css/ie8.css?ooglib" media="all" />
  <![endif]-->
```

```

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//<!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_sIWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//<!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKAK2siiZU.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//<!--
jQuery.extend(Drupal.settings,
{
  "basePath":"\",
  "pathPrefix":"","
  "ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD3I9Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA","js":{"\"\\code.jquery.com/jquery-
1.10.2.min.js\":1,\"0\":1,\"misc/jquery.once.js\":1,\"misc/drupal.js\":1,\"\\maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js
\\bootstrap.min.js\":1,\"1\":1,\"sites\\all\\libraries\\superfish\\jquery.hoverIntent.minified.js\":1,\"sites\\all\\libraries\\supe
rfish\\sftouchscreen.js\":1,\"sites\\all\\libraries\\superfish\\sfsmallscreen.js\":1,\"sites\\all\\libraries\\superfish\\suppositi
on.js\":1,\"sites\\all\\libraries\\superfish\\superfish.js\":1,\"sites\\all\\libraries\\superfish\\supersubs.js\":1,\"sites\\all\\mod
ules\\superfish\\superfish.js\":1,\"sites\\all\\themes\\bootstrap-
business\\js\\jquery.browser.min.js\":1},
  "css":{"modules\\system\\system.base.css\":1,\"modules\\system\\system.men

```



```

us.css":1,"modules/system/system.messages.css":1,"modules/system/system.theme.css":1,"modules/aggregator/aggregator.css":1,"modules/comment/comment.css":1,"modules/field/theme/field.css":1,"sites/all/modules/molom/mollom.css":1,"modules/node/node.css":1,"modules/search/search.css":1,"modules/user/user.css":1,"sites/all/modules/views/css/views.css":1,"sites/all/modules/ctools/css/ctools.css":1,"\\maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css":1,"sites/all/libraries/superfish/css/superfish.css":1,"sites/all/themes/bootstrap-business/css/style.css":1,"sites/all/themes/bootstrap-business/color/colors.css":1,"sites/all/themes/bootstrap-business/css/local.css":1,"sites/all/themes/bootstrap-business/css/ie8.css":1}},"urlIsAjaxTrusted":{"\\licenses/mit-license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});

```

```
//--><![]]>
```

```
</script>
```

```
</head>
```

```
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
```

```
<div id="skip-link">
```

```
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
```

```
</div>
```

```
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>
```

```
<!-- #header-top -->
```

```
<div id="header-top" class="clearfix">
```

```
<div class="container">
```

```
<!-- #header-top-inside -->
```

```
<div id="header-top-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-8">
```

```
<!-- #header-top-left -->
```

```
<div id="header-top-left" class="clearfix">
```

```
<div class="region region-header-top-left">
```

```
<div id="block-menu-secondary-menu" class="block block-menu clearfix">
```

```
<div class="content">
```

```
<ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
```

```
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
```

```
<li class="leaf"><a href="/contact" title="">Contact</a></li>
```

```
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
```

```
</ul> </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```

        <!-- EOF:#header-top-left -->
    </div>

        <div class="col-md-4">
        <!-- #header-top-right -->
        <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
                <div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onBlur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onFocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
        <!-- EOF:#header-top-right -->
    </div>

    </div>
</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

        <!-- #header-inside -->
        <div id="header-inside" class="clearfix">
            <div class="row">
                <div class="col-md-8">

```

```
        <div id="logo">
          <a href="/" title="Home" rel="home">  </a>
        </div>
```

```
        <div id="site-name">
          <a href="/" title="Home">Open Source Initiative</a>
        </div>
```

```
</div>
```

```
<div class="col-md-4">
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #header-inside -->
```

```
</div>
```

```
</header>
```

```
<!-- EOF: #header -->
```

```
<!-- #main-navigation -->
```

```
<div id="main-navigation" class="clearfix">
```

```
<div class="container">
```

```
<!-- #main-navigation-inside -->
```

```
<div id="main-navigation-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-12">
```

```
<nav role="navigation">
```

```
<div class="region region-navigation">
```

```
<div id="block-superfish-1" class="block block-superfish clearfix">
```

```
<div class="content">
```

```
<ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
```

depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a href="/conflict\_of\_interest\_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a></li><li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines" title="OSI&#039;s Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1 menuparent">Licenses</a></li><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a></li><li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with explanations and rationale interspersed." class="sf-depth-3">OSD - Annotated</a></li></ul></li><li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/licenses/category" title="Licenses by Category" class="sf-depth-2">Licenses by Category</a></li><li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="/licenses/alphabetical" title="Licenses that are approved by the OSI as conforming to the OSD" class="sf-depth-2">Licenses by Name</a></li><li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/approval" title="Certifying licences as OSD-compliant" class="sf-depth-2 menuparent">License Review Process</a></li><li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/proliferation" title="Supporting choice while maintaining sanity" class="sf-depth-3">Licence Proliferation</a></li><li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report" title="License Proliferation Committee&#039;s report to the OSI Board" class="sf-depth-3">LP report to the Board</a></li></ul></li><li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/osr-intro" title="Open Standards Requirement for Software" class="sf-depth-2 menuparent">Open Standards</a></li><li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osr" title="An "open standard" must not prohibit conforming implementations in open source software." class="sf-depth-3">The Open Standards Requirement</a></li><li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/osr-compliance" class="sf-depth-3">Open Standards Requirement Compliance</a></li><li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/osr-rationale" class="sf-depth-3">Open Standards Requirement Rationale</a></li><li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/osr-faq" title="Frequently asked questions about the Open Standards Requirement" class="sf-depth-3">OSR Frequently Asked Questions</a></li></ul></li><li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent"><a href="/membership" title="Page for our various membership programs" class="sf-depth-1 menuparent">Membership</a></li><li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/members" class="sf-depth-2

menuparent">Individuals</a><ul><li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/civicrm/contribute/transact?reset=1&id=1" title="" class="sf-depth-3">Join</a></li></ul></li><li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent"><a href="/affiliates" title="Home page for OSI&#039;s membership scheme for non-profits and not-for-profits" class="sf-depth-2 menuparent">Affiliates</a><ul><li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/affiliates/about" class="sf-depth-3">Become an Affiliate</a></li><li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/affiliates/list" title="Full list of non-profits and not-for-profits affiliated to OSI" class="sf-depth-3">List of Affiliates</a></li><li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children"><a href="/AffiliateRequirements" class="sf-depth-3">Affiliate Criteria</a></li></ul></li><li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children"><a href="/sponsors" class="sf-depth-2">Sponsors & Support</a></li></ul></li><li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a href="/community" title="Page for our various community members." class="sf-depth-1 menuparent">Community</a><ul><li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/lists" title="The virtual committees where the OSI&#039;s work gets done" class="sf-depth-2 menuparent">Mailing lists</a><ul><li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/codeofconduct" title="Guidelines for OSI Mailing Lists" class="sf-depth-3">General Code of Conduct</a></li><li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/codeofconduct/licensing" class="sf-depth-3">Licensing Code of Conduct</a></li><li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/public\_forums\_disclaimer" class="sf-depth-3">Disclaimer for OSI Public Forums</a></li><li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/public\_archives\_policy" class="sf-depth-3">Policy on Public Communications and Archives</a></li></ul></li><li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/volunteers" class="sf-depth-2">Volunteers</a></li><li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title="" class="sf-depth-2">Wiki</a></li><li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources" title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/help" title="Resources for questions and further exploration" class="sf-depth-2 menuparent">Getting Help</a></li><li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source" class="sf-depth-3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/advocacy/case\_for\_business.php" title="How to advocate Open Source to businesses" class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children"><a href="/working\_groups" class="sf-depth-2">Working Groups</a></li><li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education" title="OSI&#039;s Open Source Education Initiative and Activities" class="sf-depth-2">Open Source Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>

```

</div>
</div>
        </nav>
    </div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->

</div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page" class="clearfix">

    <!-- #main-content -->
    <div id="main-content">
        <div class="container">

            <!-- #messages-console -->
            <!-- EOF: #messages-console -->

            <div class="row">

                <section class="col-md-12">

                    <!-- #main -->
                    <div id="main" class="clearfix">

                        <!-- EOF:#content-wrapper -->
                        <div id="content-wrapper">

                            <h1 class="page-title">The MIT License</h1>

                                <!-- #tabs -->
                                <div class="tabs">
                                    </div>
                                <!-- EOF: #tabs -->

                                <!-- #action links -->
                                <!-- EOF: #action links -->

```

```

    <div class="region region-content">
    <div id="block-system-main" class="block block-system clearfix">

    <div class="content">
    <article id="node-66" class="node node-page clearfix">

    <div class="content">
    <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
    items"><div class="field-item even"><p style="font-weight:bold">
    SPDX short identifier: MIT
    </p>

    <div align="right">
    <button onclick="myFunction()">Further resources on the <b>MIT License</b></button>

    <p id="demo"></p>

    <script>
    <!--//--><![CDATA[// ><!--

    function myFunction() {
    var x;
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
    does not endorse any content, contributors or license interpretations from these websites. Any links to these
    resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
    any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
    opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
    purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
    about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
    href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal<br><a
    href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
    href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License
    List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
    href=choosealicense.com>Choosealicense";
    } else {
    x = " ";
    }
    document.getElementById("demo").innerHTML = x;
    }

    //--><![]]>
    </script></div>

```

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</div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->



```

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

              <div class="region region-footer">
<div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]]>
</script></p>
</div>

```

```

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
OpenSource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>

      </div>
      <!-- EOF: #subfooter-left -->
    </div>
  </div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

# 1.5 annotations 2.0.1

## 1.5.1 Available under license :

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<http://www.gnu.org/licenses/lgpl.html>

# 1.6 ant 1.10.3

## 1.6.1 Available under license :

Apache Ant

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This product includes software developed at  
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Graphics Corp that has been kindly donated to the Apache Software  
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/\*

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\*

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- \*
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## 1.7 ant-jsch 1.9.6

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# 1.9 ANTLR 2.7.7

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## **1.23 aspectjweaver 1.9.2**

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layout: docs

title: License FAQs

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group: about

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## 1.30 c3p0 0.9.5.3

## 1.31 cglib 3.2.10

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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# 1.35 classworlds 1.1-alpha-2

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## 1.36 codegen-0.6.8 0.6.8

## 1.37 codemodel 2.6 :9.e17

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## 1.45 commons-beanutils-core 1.7.0

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## 1.56 commons-httpclient-3.1 3.1

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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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## 1.91 dtd-parser 1.4.1

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## 1.96 fastinfoset 1.2.15

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## 1.103 gridstack 0.3.0

## 1.104 grizzly-framework 2.3.25

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## 1.105 grizzly-http 2.3.25



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## 1.110 handlebars.js 4.0.12

## 1.111 hibernate-commons-annotations

### 5.0.1.Final

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## 1.112 hibernate-core 5.2.16

### 1.112.1 Available under license :

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

## 1.113 hibernate-entitymanager 5.2.16.Final

## 1.114 hibernate-jpa-2.1-api 1.0.0.Final

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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="author" content="Mike Milinkovich, January 25, 2008"/>
<meta name="keywords" content="edl, legal, license"/>
<link href="//fonts.googleapis.com/css?family=Open+Sans:400,700,300,600,100" rel="stylesheet"
type="text/css"/>
<link rel="shortcut icon" href="/eclipse.org-common/themes/solstice/public/images/favicon.ico"/>
<title>Eclipse Distribution License</title>
<link rel="stylesheet" href="/eclipse.org-common/themes/solstice/public/stylesheets/styles.min.css"/>
<meta property="og:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE
framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
<meta property="og:image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-200x200.png"/>
<meta property="og:title" content="Eclipse Distribution License"/>
<meta property="og:image:width" content="200"/>
<meta property="og:image:height" content="200"/>
<meta itemprop="name" content="Eclipse Distribution License"/>
<meta itemprop="description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE
framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
<meta itemprop="image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-400x400.png"/>
<meta name="twitter:site" content="@EclipseFdn"/>
<meta name="twitter:card" content="summary"/>
<meta name="twitter:title" content="Eclipse Distribution License"/>
<meta name="twitter:url" content="http://www.eclipse.org/org/documents/edl-v10.php"/>
<meta name="twitter:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an
IDE framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
<meta name="twitter:image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-400x400.png"/>

<script> var eclipse_org_common =
{"settings":{"cookies_class":{"name":"eclipse_settings","enabled":1}}}</script> </head>
<body id="body_solstice">
<a class="sr-only" href="#content">Skip to main content</a>
<div class="clearfix toolbar-container-wrapper">
<div class="container">
<div class="text-right toolbar-row row hidden-print">
<div class="col-md-24 row-toolbar-col">
<ul class="list-inline">
<li><a href="https://accounts.eclipse.org/user/register"><i class="fa fa-user fa-fw"></i> Create
account</a></li>
<li><a
href="https://accounts.eclipse.org/user/login/?takemeback=http%3A%2F%2Fwww.eclipse.org%2Forg%2Fdocumen
ts%2Fedl-v10.php"><i class="fa fa-sign-in fa-fw"></i> Log in</a></li>

</ul>
</div>
</div>
</div>
</div><header role="banner" id="header-wrapper">

```

```

<div class="container">
  <div class="row" id="header-row">
    <div class="hidden-xs col-sm-8 col-md-6 col-lg-5" id="header-left">
      <div class="wrapper-logo-default"><a href="http://www.eclipse.org/"></a></div>
    </div>
    <div class="col-sm-10 col-md-8 col-lg-5 hidden-print hidden-xs pull-right" id="header-right">
      <div class="row"><div class="col-md-24">
        <div id="custom-search-form" class="reset-box-sizing">
          <script>
            (function() {
              var cx = '011805775785170369411:p3ec0igo0qq';
              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 gname="main" resultsUrl="https://www.eclipse.org/home/search.php"></gcse:searchbox-only>
        </div></div></div>
        <div id="btn-call-for-action"><a href="//www.eclipse.org/downloads/" class="btn btn-huge btn-warning"><i class="fa fa-download"></i> Download</a></div>
      </div>
      <div class="col-sm-14 col-md-16 col-lg-19 reset" id="main-menu-wrapper">
        <div class="navbar yamm" id="main-menu">
          <div id="navbar-collapse-1" class="navbar-collapse collapse">
            <ul class="nav navbar-nav">
              <li class="visible-thin"><a href="http://www.eclipse.org/downloads/" target="_self">Download</a></li><li><a href="http://www.eclipse.org/users/" target="_self">Getting Started</a></li><li><a href="http://www.eclipse.org/membership/" target="_self">Members</a></li><li><a href="http://www.eclipse.org/projects/" target="_self">Projects</a></li>
              <li class="dropdown visible-xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Community <b class="caret"></b></a><ul class="dropdown-menu"><li><a href="http://marketplace.eclipse.org">Marketplace</a></li><li><a href="http://events.eclipse.org">Events</a></li><li><a href="http://www.planeteclipse.org">Planet Eclipse</a></li><li><a href="http://www.eclipse.org/community/eclipse_newsletter/">Newsletter</a></li><li><a href="https://www.youtube.com/user/EclipseFdn">Videos</a></li></ul></li><li class="dropdown visible-xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Participate <b class="caret"></b></a><ul class="dropdown-menu"><li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li><li><a href="http://www.eclipse.org/forums/">Forums</a></li><li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li><li><a href="https://wiki.eclipse.org/">Wiki</a></li><li><a href="https://wiki.eclipse.org/IRC">IRC</a></li><li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li></ul></li><li class="dropdown visible-xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Working Groups <b class="caret"></b></a><ul class="dropdown-menu"><li><a href="http://iot.eclipse.org">Internet of Things</a></li><li><a href="http://locationtech.org">LocationTech</a></li><li><a href="http://its.eclipse.org">Long-Term

```





```

<div class="container">
  <h3 class="sr-only">Breadcrumbs</h3>
  <div class="row">
    <div class="col-sm-16 padding-left-30"><ol class="breadcrumb"><li><a
href="http://www.eclipse.org/">Home</a></li><li><a href="http://www.eclipse.org/org">About
Us</a></li><li><a href="http://www.eclipse.org/org/documents">Governance Documents</a></li><li
class="active">Eclipse Distribution License</li></ol></div>
    <div class="col-sm-8 margin-top-15"></div>
  </div>

</div>
</section> <!-- /#breadcrumb --><main class="no-promo">
<div class="novaContent container" id="novaContent">
  <!-- nav -->
<aside id="leftcol" class="col-md-4">
  <ul id="leftnav" class="ul-left-nav fa-ul hidden-print">

    <li class="separator">
      <a class="separator" href="/org/">
        About Us      </a>
    </li>

    <li>
      <i class="fa fa-angle-double-right orange fa-fw"></i>
      <a href="/org/foundation/reports/annual_report.php" target="_self">
        Annual Report  </a>
    </li>

    <li>
      <i class="fa fa-angle-double-right orange fa-fw"></i>
      <a href="/org/foundation/" target="_self">
        Foundation     </a>
    </li>

    <li>
      <i class="fa fa-angle-double-right orange fa-fw"></i>
      <a href="/org/documents/" target="_self">
        Governance     </a>
    </li>

```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/legal/" target="_self">
    Legal Resources </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/org/foundation/contact.php" target="_self">
    Contact Us </a>
</li>
```

```
</ul>
</aside>
```

```
<div id="midcolumn">
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```
</div>
```

```

<div id="rightcolumn">
  <div class="sideitem">
    <h6>OSI Approved</h6>The Eclipse Distribution License is an OSI Approved Open Source License by means of
the
    <a href="http://www.opensource.org/licenses/BSD-3-Clause" target="blank">New BSD License</a>.
    <p align="center"><a href="http://www.opensource.org/licenses/BSD-3-Clause" target="blank">&nbsp;</a></p>
    <h6>Purpose</h6>
    Use of the Eclipse Distribution License by any project at the Eclipse Foundation must
    be reviewed and unanimously approved by the <a href=" ../foundation/directors.php">Board of Directors</a>.
    <h6>Related Links</h6>
    <ul>
    <li>The standard Eclipse license is the <a href="epl-v10.php">Eclipse Public License</a>.</li>
    <li><a href="edl-v10.html">EDL in plain HTML</a></li>
    </ul>
  </div>
</div>
</div>
</main> <!-- #main-content-container-row --><p id="back-to-top">
  <a class="visible-xs" href="#top">Back to the top</a>
</p>
<footer role="contentinfo" id="solstice-footer">
  <div class="container">
    <div class="row">
      <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-eclipse-
foundation">
        <h2 class="section-title">Eclipse Foundation</h2>
        <ul class="nav">
          <li><a href="http://www.eclipse.org/org/">About us</a></li>
          <li><a href="http://www.eclipse.org/org/foundation/contact.php">Contact Us</a></li>
          <li><a href="http://www.eclipse.org/donate">Donate</a></li>
          <li><a href="http://www.eclipse.org/org/documents/">Governance</a></li>
          <li><a href="http://www.eclipse.org/artwork/">Logo and Artwork</a></li>
          <li><a href="http://www.eclipse.org/org/foundation/directors.php">Board of Directors</a></li>
        </ul>
        </section>
        <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-legal">
          <h2 class="section-title">Legal</h2>
          <ul class="nav">
            <li><a href="http://www.eclipse.org/legal/privacy.php">Privacy Policy</a></li>
            <li><a href="http://www.eclipse.org/legal/termsfuse.php">Terms of Use</a></li>
            <li><a href="http://www.eclipse.org/legal/copyright.php">Copyright Agent</a></li>
            <li><a href="http://www.eclipse.org/org/documents/epl-v10.php">Eclipse Public License </a></li>
            <li><a href="http://www.eclipse.org/legal/">Legal Resources </a></li>
          </ul>
        </section>
        <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-useful-
links">
          <h2 class="section-title">Useful Links</h2>
          <ul class="nav">

```

```

<li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li>
<li><a href="//help.eclipse.org/">Documentation</a></li>
<li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li>
<li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li>
<li><a href="http://www.eclipse.org/forums/">Forums</a></li>
<li><a href="//marketplace.eclipse.org">Marketplace</a></li>
</ul> </section>
<section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-other">
  <h2 class="section-title">Other</h2>
<ul class="nav">
  <li><a href="http://www.eclipse.org/ide/">IDE and Tools</a></li>
  <li><a href="http://www.eclipse.org/projects">Community of Projects</a></li>
  <li><a href="http://www.eclipse.org/org/workinggroups/">Working Groups</a></li>
  <li><a href="http://www.eclipse.org/org/research/">Research@Eclipse</a></li>
</ul>

<ul class="list-inline social-media">
  <li><a href="https://twitter.com/EclipseFdn"><i class="fa fa-twitter-square"></i></a></li>
  <li><a href="https://plus.google.com/+Eclipse"><i class="fa fa-google-plus-square"></i></a></li>
  <li><a href="https://www.facebook.com/eclipse.org"><i class="fa fa-facebook-square"></i> </a></li>
  <li><a href="https://www.youtube.com/user/EclipseFdn"><i class="fa fa-youtube-square"></i></a></li>
  <li><a href="https://www.linkedin.com/company/eclipse-foundation"><i class="fa fa-linkedin-square"></i></a></li>
</ul> </section>
  <div id="copyright" class="col-sm-offset-1 col-sm-14 col-md-24 col-md-offset-0">
    <span class="hidden-print"><div class="wrapper-logo-eclipse-white"><a href="http://www.eclipse.org"></a></div></span>
    <p id="copyright-text">Copyright &copy; 2017 The Eclipse Foundation. All Rights Reserved.</p>
    </div> <a href="#" class="scrollup">Back to the top</a>
  </div>
</div>
</footer>
<!-- Placed at the end of the document so the pages load faster -->
<script src="/eclipse.org-common/themes/solstice/public/javascript/main.min.js"></script>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-910670-2']);
_gaq.push(['_trackPageview']);

(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

```

```

</script>
</body>
</html>
<?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>

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</body>

</html>

## 1.115 hibernate-search-engine 5.9.0.Final

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```
/*
 * Hibernate Search, full-text search for your domain model
 *
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 * See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
 */
package org.hibernate.search.analyzer;

/**
 * Returns the expected discriminator name to use on the element evaluated
 *
 * @author Hardy Ferentschik
 */
public interface Discriminator {

/**
 * Allows to specify the analyzer to be used for the given field based on the specified entity state.
 */
}
```

```
* @param value The value of the field the @AnalyzerDiscriminator annotation was placed on.
<code>null</code>
* if the annotation was placed on class level.
* @param entity The entity to be indexed.
* @param field The document field.
* @return The name of a defined analyzer to be used for the specified field or null if
the
* default analyzer for this field should be used.
* @see org.hibernate.search.annotations.AnalyzerDef
*/
String getAnalyzerDefinitionName(Object value, Object entity, String field);
}
```

## 1.116 hibernate-search-orm 5.9.0.Final

## 1.117 hibernate-types 5.2.2.0

## 1.118 hibernate-validator 6.0.14.Final

## 1.119 HikariCP 3.2.0

## 1.120 HikariCP-java7 2.4.13

## 1.121 hopscotch 0.2.5

## 1.122 htmlunit 2.33

## 1.123 htmlunit-core-js 2.33

## 1.124 htmlunit-cssparser 1.2.0

## 1.125 httpclient-4.5.7 4.5.7

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\* file name: UBiDiProps.java  
\* encoding: US-ASCII  
\* tab size: 8 (not used)  
\* indentation:4  
\*  
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- \* Low-level Unicode bidi/shaping properties access.
- \* Java port of ubidi\_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

- <li>Set the metadata of the new text to the metadata of the first character replaced</li>
- <li>If no characters are replaced, use the metadata of the previous character</li>
- <li>If there is no previous character (i.e. start == 0), use the following character</li>
- <li>If there is no following character (i.e. the replaceable was

empty), use default metadata<br>  
<li>If the code point U+FFFF is seen, it should be interpreted as  
a special marker having no metadata<li>  
</li>  
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the  
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not  
intended for general use. Most clients will need to implement  
{ @link Replaceable } in their text representation class.

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@see Replaceable

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\*/

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```

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

```

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ASM: a very small and fast Java bytecode manipulation framework

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```
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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

- ```
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```

From dso/aix/dso.c:

- ```
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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

- \*
- \* cvt - IEEE floating point formatting routines.
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## 1.131 jackson-core 2.9.8

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## 1.134 jackson-dataformat-yaml 2.5.4

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## 1.139 jackson-module-parameter-names 2.9.9

## 1.140 jacoco-maven-plugin 0.8.2

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\* Evgeny Mandrikov - initial API and implementation

\* Kyle Lieber - implementation of CheckMojo

\* Marc Hoffmann - redesign using report APIs

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## 1.141 jakarta.activation-api 1.2.1

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# 1.143 jandex 2.0.3.Final

# 1.144 janino 3.0.6

# 1.145 javassist 3.22.0-GA

## 1.145.1 Available under license :

Manifest-Version: 1.0

Bnd-LastModified: 1507658698220

Build-Jdk: 9

Built-By: smarlow

Bundle-Description: Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation simple. It is a class library for editing bytecodes in Java.

Bundle-License: <http://www.mozilla.org/MPL/MPL-1.1.html>, <http://www.gnu.org/licenses/lgpl-2.1.html>, <http://www.apache.org/licenses/>

Bundle-ManifestVersion: 2

Bundle-Name: Javassist

Bundle-SymbolicName: javassist

Bundle-Vendor: Shigeru Chiba, [www.javassist.org](http://www.javassist.org)

Bundle-Version: 3.22.0.GA

Created-By: Apache Maven Bundle Plugin

Export-Package: javassist;version="3.22.0.GA";uses:="javassist.bytecode,javassist.compiler,javassist.compiler.ast,javassist.convert,javassist.expr",javassist.bytecode;version="3.22.0.GA";uses:="javassist.javassist.bytecode.annotation",javassist.bytecode.analysis;version="3.22.

```
0.GA";uses:="javassist,javassist.bytecode,javassist.bytecode.stackmap
",javassist.bytecode.annotation;version="3.22.0.GA";uses:="javassist,
javassist.bytecode",javassist.bytecode.stackmap;version="3.22.0.GA";u
ses:="javassist,javassist.bytecode",javassist.compiler;version="3.22.
0.GA";uses:="javassist,javassist.bytecode,javassist.compiler.ast",jav
assist.compiler.ast;version="3.22.0.GA";uses:="javassist,javassist.co
mpiler",javassist.convert;version="3.22.0.GA";uses:="javassist,javass
ist.bytecode",javassist.expr;version="3.22.0.GA";uses:="javassist,jav
assist.bytecode",javassist.runtime;version="3.22.0.GA",javassist.scop
edpool;version="3.22.0.GA";uses:="javassist,javassist.tools;version="3
.22.0.GA";uses:="javassist,javassist.tools.reflect;version="3.22.0.GA"
;uses:="javassist,javassist.bytecode",javassist.tools.rmi;version="3.
22.0.GA";uses:="javassist,javassist.tools.web",javassist.tools.web;ve
rsion="3.22.0.GA";uses:="javassist,javassist.util;version="3.22.0.GA";
uses:="javassist,javassist.util.proxy;version="3.22.0.GA";uses:="javas
sist,javassist.bytecode"
Main-Class: javassist.CtClass
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Specification-Title: Javassist
Specification-Vendor: Shigeru Chiba, www.javassist.org
Specification-Version: 3.22.0-GA
Tool: Bnd-3.3.0.201609221906
```

## 1.146 javax.activation 1.2.0

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### 1.149.1 Available under license :

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## 1.150 javax.inject 2.5.0-b42

## 1.151 javax.inject 1

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

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

```
li {display: block;}
```

```
</style>
```

</head>

<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">

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Specification: JSR-919 JavaMail API ("Specification")
<br/>
Version: 1.6
<br/>
Status: Final Release
<br/>
Specification Lead: Oracle America, Inc. ("Specification Lead")
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```

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signature of Ty Coon, 1 April 1989
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# 1.153 Javax.Servlet-api 4.0.1

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# 1.154 javax.transaction-api 1.3

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- \* <https://github.com/eclipse-ee4j/jaxb-dtd-parser>
- \* <https://github.com/eclipse-ee4j/jaxb-fi>
- \* <https://github.com/eclipse-ee4j/jaxb-stax-ex>
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maven-resolver-util (1.1.1)

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### 1.0.1.Final

## 1.162 jcifs 1.3.18

## 1.163 jcl-over-slf4j 1.7.25

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## 1.164 jersey-client 2.27

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## Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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## Oracle

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

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

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## Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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```

```
package org.eclipse.jetty.client;
```

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

```

import java.net.InetSocketAddress;
import java.net.SocketAddress;
import java.net.SocketException;
import java.nio.channels.SelectableChannel;
import java.nio.channels.SelectionKey;
import java.nio.channels.SocketChannel;
import java.util.Map;

import org.eclipse.jetty.client.api.Connection;
import org.eclipse.jetty.io.EndPoint;
import org.eclipse.jetty.io.ManagedSelector;
import org.eclipse.jetty.io.SelectorManager;
import org.eclipse.jetty.io.SocketChannelEndPoint;
import org.eclipse.jetty.io.ssl.SslClientConnectionFactory;
import org.eclipse.jetty.util.Promise;
import org.eclipse.jetty.util.annotation.ManagedAttribute;
import org.eclipse.jetty.util.annotation.ManagedObject;

@ManagedObject
public abstract class AbstractConnectorHttpClientTransport extends AbstractHttpClientTransport
{
    private final int selectors;
    private SelectorManager selectorManager;

    protected AbstractConnectorHttpClientTransport(int selectors)
    {
        this.selectors = selectors;
    }

    @ManagedAttribute(value = "The number of selectors", readonly = true)
    public int getSelectors()
    {
        return selectors;
    }

    @Override
    protected void doStart() throws Exception
    {
        HttpClient httpClient = getHttpClient();
        selectorManager = newSelectorManager(httpClient);
        selectorManager.setConnectTimeout(httpClient.getConnectTimeout());
        addBean(selectorManager);
        super.doStart();
    }

    @Override
    protected void doStop() throws Exception
    {

```

```

super.doStop();
removeBean(selectorManager);
}

@Override
public void connect(InetSocketAddress address, Map<String, Object> context)
{
    SocketChannel channel = null;
    try
    {
        channel = SocketChannel.open();
        HttpDestination destination = (HttpDestination)context.get(HTTP_DESTINATION_CONTEXT_KEY);
        HttpClient client = destination.getHttpClient();
        SocketAddress bindAddress = client.getBindAddress();
        if (bindAddress != null)
            channel.bind(bindAddress);
        configure(client, channel);

        context.put(SslClientConnectionFactory.SSL_PEER_HOST_CONTEXT_KEY, destination.getHost());
        context.put(SslClientConnectionFactory.SSL_PEER_PORT_CONTEXT_KEY, destination.getPort());

        boolean connected = true;
        if (client.isConnectBlocking())
        {
            channel.socket().connect(address, (int)client.getConnectTimeout());
            channel.configureBlocking(false);
        }
        else
        {
            channel.configureBlocking(false);
            connected = channel.connect(address);
        }
        if (connected)
            selectorManager.accept(channel, context);
        else
            selectorManager.connect(channel, context);
    }
    // Must catch all exceptions, since some like
    // UnresolvedAddressException are not IOExceptions.
    catch (Throwable x)
    {
        // If IPv6 is not deployed, a generic SocketException "Network is unreachable"
        // exception is being thrown, so we attempt to provide a better error message.
        if (x.getClass() == SocketException.class)
            x = new SocketException("Could not connect to " + address).initCause(x);

        try
        {

```

```

        if (channel != null)
            channel.close();
    }
    catch (IOException xx)
    {
        LOG.ignore(xx);
    }
    finally
    {
        connectFailed(context, x);
    }
}

protected void connectFailed(Map<String, Object> context, Throwable x)
{
    if (LOG.isDebugEnabled())
        LOG.debug("Could not connect to {}", context.get(HTTP_DESTINATION_CONTEXT_KEY));
    @SuppressWarnings("unchecked")
    Promise<Connection> promise =
(Promise<Connection>)context.get(HTTP_CONNECTION_PROMISE_CONTEXT_KEY);
    promise.failed(x);
}

protected void configure(HttpClient client, SocketChannel channel) throws IOException
{
    channel.socket().setTcpNoDelay(client.isTCPNoDelay());
}

protected SelectorManager newSelectorManager(HttpClient client)
{
    return new ClientSelectorManager(client, getSelectors());
}

protected SelectorManager getSelectorManager()
{
    return selectorManager;
}

protected class ClientSelectorManager extends SelectorManager
{
    private final HttpClient client;

    protected ClientSelectorManager(HttpClient client, int selectors)
    {
        super(client.getExecutor(), client.getScheduler(), selectors);
        this.client = client;
    }
}

```



```

@Override
protected EndPoint newEndPoint(SelectableChannel channel, ManagedSelector selector, SelectionKey key)
{
    SocketChannelEndPoint endp = new SocketChannelEndPoint(channel, selector, key, getScheduler());
    endp.setIdleTimeout(client.getIdleTimeout());
    return endp;
}

@Override
public org.eclipse.jetty.io.Connection newConnection(SelectableChannel channel, EndPoint endPoint, Object
attachment) throws IOException
{
    @SuppressWarnings("unchecked")
    Map<String, Object> context = (Map<String, Object>)attachment;
    HttpDestination destination = (HttpDestination)context.get(HTTP_DESTINATION_CONTEXT_KEY);
    return destination.getClientConnectionFactory().newConnection(endPoint, context);
}

@Override
protected void connectionFailed(SelectableChannel channel, Throwable x, Object attachment)
{
    @SuppressWarnings("unchecked")
    Map<String, Object> context = (Map<String, Object>)attachment;
    connectFailed(context, x);
}
}
}
}

```

# 1.168 jetty-continuation 9.4.18.v20190429

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```

=====
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-----

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

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

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

-----

Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

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

-----

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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//

package org.eclipse.jetty.continuation;

import java.io.IOException;
import java.util.ArrayList;
import java.util.List;

import javax.servlet.AsyncContext;
import javax.servlet.AsyncEvent;
import javax.servlet.AsyncListener;
import javax.servlet.DispatcherType;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.ServletResponseWrapper;

/* ----- */
/**
 * This implementation of Continuation is used by { @link ContinuationSupport }
 * when it detects that the application has been deployed in a Servlet 3
 * server.
 * @deprecated use Servlet 3.0 { @link javax.servlet.AsyncContext } instead
 */
@Deprecated
public class Servlet3Continuation implements Continuation, AsyncListener
{
    // Exception reused for all continuations
    // Turn on debug in ContinuationFilter to see real stack trace.
    private final static ContinuationThrowable __exception = new ContinuationThrowable();

    private final ServletRequest _request;
    private ServletResponse _response;
    private AsyncContext _context;
    private final List<ContinuationListener> _listeners=new ArrayList<ContinuationListener>();
    private volatile boolean _initial=true;
    private volatile boolean _resumed=false;
    private volatile boolean _expired=false;
    private volatile boolean _responseWrapped=false;

    private long _timeoutMs=-1;

    /* ----- */

```

```

public Servlet3Continuation(ServletRequest request)
{
    _request=request;
}

/* ----- */
@Override
public void addContinuationListener(final ContinuationListener listener)
{
    _listeners.add(listener);
}

/* ----- */
@Override
public void complete()
{
    AsyncContext context=_context;
    if (context==null)
        throw new IllegalStateException();
    _context.complete();
}

/* ----- */
@Override
public ServletResponse getServletResponse()
{
    return _response;
}

/* ----- */
@Override
public boolean isExpired()
{
    return _expired;
}

/* ----- */
@Override
public boolean isInitial()
{
    return _initial&&_request.getDispatcherType()!=DispatcherType.ASYNC;
}

/* ----- */
@Override
public boolean isResumed()
{
    return _resumed;
}

```

```

}

/* ----- */
@Override
public boolean isSuspended()
{
    if (_request.isAsyncStarted())
        return true;
    try
    {
        return _request.getAsyncContext()!=null;
    }
    catch(IllegalStateException e)
    {
        // ignored
    }
    return false;
}

/* ----- */
public void keepWrappers()
{
    _responseWrapped=true;
}

/* ----- */
@Override
public void resume()
{
    AsyncContext context=_context;
    if (context==null)
        throw new IllegalStateException();
    _resumed=true;
    _context.dispatch();
}

/* ----- */
@Override
public void setTimeout(long timeoutMs)
{
    _timeoutMs=timeoutMs;
    if (_context!=null)
        _context.setTimeout(timeoutMs);
}

/* ----- */
@Override
public void suspend(ServletResponse response)

```

```

{
    _response=response;
    _responseWrapped=response instanceof ServletResponseWrapper;
    _resumed=false;
    _expired=false;
    _context=_request.startAsync();
    _context.setTimeout(_timeoutMs);
    _context.addListener(this);
}

/* ----- */
@Override
public void suspend()
{
    _resumed=false;
    _expired=false;
    _context=_request.startAsync();
    _context.setTimeout(_timeoutMs);
    _context.addListener(this);
}

/* ----- */
@Override
public boolean isResponseWrapped()
{
    return _responseWrapped;
}

/* ----- */
/**
 * @see org.eclipse.jetty.continuation.Continuation#getAttribute(java.lang.String)
 */
@Override
public Object getAttribute(String name)
{
    return _request.getAttribute(name);
}

/* ----- */
/**
 * @see org.eclipse.jetty.continuation.Continuation#removeAttribute(java.lang.String)
 */
@Override
public void removeAttribute(String name)
{
    _request.removeAttribute(name);
}

```



```

/* ----- */
/**
 * @see org.eclipse.jetty.continuation.Continuation#setAttribute(java.lang.String, java.lang.Object)
 */
@Override
public void setAttribute(String name, Object attribute)
{
    _request.setAttribute(name,attribute);
}

/* ----- */
/**
 * @see org.eclipse.jetty.continuation.Continuation#undispatch()
 */
@Override
public void undispatch()
{
    if (isSuspended())
    {
        _initial=false;
        if (ContinuationFilter.__debug)
            throw new ContinuationThrowable();
        throw __exception;
    }
    throw new IllegalStateException("!suspended");
}

/* ----- */
@Override
public void onComplete(AsyncEvent event) throws IOException
{
    for (ContinuationListener listener:_listeners)
        listener.onComplete(this);
}

/* ----- */
@Override
public void onError(AsyncEvent event) throws IOException
{
}

/* ----- */
@Override
public void onStartAsync(AsyncEvent event) throws IOException
{
}

```

```

/* ----- */
@Override
public void onTimeout(AsyncEvent event) throws IOException
{
    _expired=true;
    for (ContinuationListener listener: _listeners)
        listener.onTimeout(this);
    if (event.getSuppliedRequest().isAsyncStarted())
        event.getAsyncContext().dispatch();
}
}
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#### Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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#### Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

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#### Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida,

modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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## Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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```
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//
```

```
package org.eclipse.jetty.io;
```

```
import java.io.EOFException;
import java.io.IOException;
import java.net.Inet4Address;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.UnknownHostException;
import java.nio.ByteBuffer;
import java.nio.channels.ClosedChannelException;
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.util.ArrayDeque;
import java.util.Queue;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.locks.Condition;
```

```
import org.eclipse.jetty.util.BufferUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.thread.Locker;
import org.eclipse.jetty.util.thread.Scheduler;
```

```
/* ----- */
```

```
/** ByteArrayEndPoint.
```

```
*
```

```
*/
```

```
public class ByteArrayEndPoint extends AbstractEndPoint
```

```
{
```

```
    static final Logger LOG = Log.getLogger(ByteArrayEndPoint.class);
```

```
    static final InetAddress NOIP;
```

```
    static final InetSocketAddress NOIPPORT;
```

```
    static
```

```
{
```

```
        InetAddress noip=null;
```

```
        try
```

```
{
```

```
            noip = InetAddress.getByName("0.0.0.0");
```



```

    }
    catch (UnknownHostException e)
    {
        LOG.warn(e);
    }
    finally
    {
        NOIP=noip;
        NOIPPORT=new InetSocketAddress(NOIP,0);
    }
}

```

```
private static final ByteBuffer EOF = BufferUtil.allocate(0);
```

```
private final Runnable _runFillable = new Runnable()
{
    @Override
    public void run()
    {
        getFillInterest().fillable();
    }
};

```

```
private final Locker _locker = new Locker();
private final Condition _hasOutput = _locker.newCondition();
private final Queue<ByteBuffer> _inQ = new ArrayDeque<>();
private ByteBuffer _out;
private boolean _growOutput;

```

```

/* ----- */
/**
 *
 */

```

```
public ByteArrayEndPoint()
{
    this(null,0,null,null);
}

```

```

/* ----- */
/**
 * @param input the input bytes
 * @param outputSize the output size
 */

```

```
public ByteArrayEndPoint(byte[] input, int outputSize)
{
    this(null,0,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

```

```

/* ----- */
/**
 * @param input the input string (converted to bytes using default encoding charset)
 * @param outputSize the output size
 */
public ByteArrayEndPoint(String input, int outputSize)
{
    this(null,0,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

/* ----- */
public ByteArrayEndPoint(Scheduler scheduler, long idleTimeoutMs)
{
    this(scheduler,idleTimeoutMs,null,null);
}

/* ----- */
public ByteArrayEndPoint(Scheduler timer, long idleTimeoutMs, byte[] input, int outputSize)
{
    this(timer,idleTimeoutMs,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

/* ----- */
public ByteArrayEndPoint(Scheduler timer, long idleTimeoutMs, String input, int outputSize)
{
    this(timer,idleTimeoutMs,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

/* ----- */
public ByteArrayEndPoint(Scheduler timer, long idleTimeoutMs, ByteBuffer input, ByteBuffer output)
{
    super(timer);
    if (BufferUtil.hasContent(input))
        addInput(input);
    _out=output==null?BufferUtil.allocate(1024):output;
    setIdleTimeout(idleTimeoutMs);
    onOpen();
}

/* ----- */
@Override
public void doShutdownOutput()
{
    super.doShutdownOutput();
    try(Locker.Lock lock = _locker.lock())
    {
        _hasOutput.signalAll();
    }
}

```

```

    }
}

/* ----- */
@Override
public void doClose()
{
    super.doClose();
    try(Locker.Lock lock = _locker.lock())
    {
        _hasOutput.signalAll();
    }
}

/* ----- */
@Override
public InetAddress getLocalAddress()
{
    return NOIPPORT;
}

/* ----- */
@Override
public InetAddress getRemoteAddress()
{
    return NOIPPORT;
}

/* ----- */
@Override
protected void onIncompleteFlush()
{
    // Don't need to do anything here as takeOutput does the signalling.
}

/* ----- */
protected void execute(Runnable task)
{
    new Thread(task,"BAEPoint-"+Integer.toHexString(hashCode())).start();
}

/* ----- */
@Override
protected void needsFillInterest() throws IOException
{
    try(Locker.Lock lock = _locker.lock())
    {
        if (!isOpen())

```

```

        throw new ClosedChannelException();

        ByteBuffer in = _inQ.peek();
        if (BufferUtil.hasContent(in) || isEOF(in))
            execute(_runFillable);
    }
}

/* ----- */
/**
 */
public void addInputEOF()
{
    addInput((ByteBuffer)null);
}

/* ----- */
/**
 * @param in The in to set.
 */
public void addInput(ByteBuffer in)
{
    boolean fillable=false;
    try(Locker.Lock lock = _locker.lock())
    {
        if (isEOF(_inQ.peek()))
            throw new RuntimeException(new EOFException());
        boolean was_empty=_inQ.isEmpty();
        if (in==null)
        {
            _inQ.add(EOF);
            fillable=true;
        }
        if (BufferUtil.hasContent(in))
        {
            _inQ.add(in);
            fillable=was_empty;
        }
    }
    if (fillable)
        _runFillable.run();
}

/* ----- */
public void addInputAndExecute(ByteBuffer in)
{
    boolean fillable=false;
    try(Locker.Lock lock = _locker.lock())

```

```

    {
        if (isEOF(_inQ.peek()))
            throw new RuntimeIOException(new EOFException());
        boolean was_empty=_inQ.isEmpty();
        if (in==null)
        {
            _inQ.add(EOF);
            fillable=true;
        }
        if (BufferUtil.hasContent(in))
        {
            _inQ.add(in);
            fillable=was_empty;
        }
    }
    if (fillable)
        execute(_runFillable);
}

/* ----- */
public void addInput(String s)
{
    addInput(BufferUtil.toBuffer(s,StandardCharsets.UTF_8));
}

/* ----- */
public void addInput(String s,Charset charset)
{
    addInput(BufferUtil.toBuffer(s,charset));
}

/* ----- */
/**
 * @return Returns the out.
 */
public ByteBuffer getOutput()
{
    try(Locker.Lock lock = _locker.lock())
    {
        return _out;
    }
}

/* ----- */
/**
 * @return Returns the out.
 */
public String getOutputString()

```

```

{
    return getOutputString(StandardCharsets.UTF_8);
}

/* ----- */
/**
 * @param charset the charset to encode the output as
 * @return Returns the out.
 */
public String getOutputString(Charset charset)
{
    return BufferUtil.toString(_out,charset);
}

/* ----- */
/**
 * @return Returns the out.
 */
public ByteBuffer takeOutput()
{
    ByteBuffer b;

    try(Locker.Lock lock = _locker.lock())
    {
        b=_out;
        _out=BufferUtil.allocate(b.capacity());
    }
    getWriteFlusher().completeWrite();
    return b;
}

/* ----- */
/** Wait for some output
 * @param time Time to wait
 * @param unit Units for time to wait
 * @return The buffer of output
 * @throws InterruptedException if interrupted
 */
public ByteBuffer waitForOutput(long time,TimeUnit unit) throws InterruptedException
{
    ByteBuffer b;

    try(Locker.Lock lock = _locker.lock())
    {
        while (BufferUtil.isEmpty(_out) && !isOutputShutdown())
        {
            if (!_hasOutput.await(time,unit))
                return null;
        }
    }
}

```

```

    }
    b=_out;
    _out=BufferUtil.allocate(b.capacity());
}
getWriteFlusher().completeWrite();
return b;
}

/* ----- */
/**
 * @return Returns the out.
 */
public String takeOutputString()
{
    return takeOutputString(StandardCharsets.UTF_8);
}

/* ----- */
/**
 * @param charset the charset to encode the output as
 * @return Returns the out.
 */
public String takeOutputString(Charset charset)
{
    ByteBuffer buffer=takeOutput();
    return BufferUtil.toString(buffer,charset);
}

/* ----- */
/**
 * @param out The out to set.
 */
public void setOutput(ByteBuffer out)
{
    try(Locker.Lock lock = _locker.lock())
    {
        _out = out;
    }
    getWriteFlusher().completeWrite();
}

/* ----- */
/**
 * @return <code>true</code> if there are bytes remaining to be read from the encoded input
 */
public boolean hasMore()
{
    return getOutput().position()>0;
}

```

```

}

/* ----- */
/*
 * @see org.eclipse.io.EndPoint#fill(org.eclipse.io.Buffer)
 */
@Override
public int fill(ByteBuffer buffer) throws IOException
{
    int filled=0;
    try(Locker.Lock lock = _locker.lock())
    {
        while(true)
        {
            if (!isOpen())
                throw new EofException("CLOSED");

            if (isInputShutdown())
                return -1;

            if (_inQ.isEmpty())
                break;

            ByteBuffer in= _inQ.peek();
            if (isEOF(in))
            {
                filled=-1;
                break;
            }

            if (BufferUtil.hasContent(in))
            {
                filled=BufferUtil.append(buffer,in);
                if (BufferUtil.isEmpty(in))
                    _inQ.poll();
                break;
            }
            _inQ.poll();
        }
    }

    if (filled>0)
        notIdle();
    else if (filled<0)
        shutdownInput();
    return filled;
}

```



```

/* ----- */
/*
 * @see org.eclipse.io.EndPoint#flush(org.eclipse.io.Buffer, org.eclipse.io.Buffer, org.eclipse.io.Buffer)
 */
@Override
public boolean flush(ByteBuffer... buffers) throws IOException
{
    boolean flushed=true;
    try(Locker.Lock lock = _locker.lock())
    {
        if (!isOpen())
            throw new IOException("CLOSED");
        if (isOutputShutdown())
            throw new IOException("OSHUT");

        boolean idle=true;

        for (ByteBuffer b : buffers)
        {
            if (BufferUtil.hasContent(b))
            {
                if (_growOutput && b.remaining()>BufferUtil.space(_out))
                {
                    BufferUtil.compact(_out);
                    if (b.remaining()>BufferUtil.space(_out))
                    {
                        ByteBuffer n = BufferUtil.allocate(_out.capacity()+b.remaining()*2);
                        BufferUtil.append(n,_out);
                        _out=n;
                    }
                }

                if (BufferUtil.append(_out,b)>0)
                    idle=false;

                if (BufferUtil.hasContent(b))
                {
                    flushed=false;
                    break;
                }
            }
        }
        if (!idle)
        {
            notIdle();
            _hasOutput.signalAll();
        }
    }
}

```

```

    return flushed;
}

/* ----- */
/**
 *
 */
@Override
public void reset()
{
    try(Locker.Lock lock = _locker.lock())
    {
        _inQ.clear();
        _hasOutput.signalAll();
        BufferUtil.clear(_out);
    }
    super.reset();
}

/* ----- */
/*
 * @see org.eclipse.io.EndPoint#getConnection()
 */
@Override
public Object getTransport()
{
    return null;
}

/* ----- */
/**
 * @return the growOutput
 */
public boolean isGrowOutput()
{
    return _growOutput;
}

/* ----- */
/**
 * @param growOutput the growOutput to set
 */
public void setGrowOutput(boolean growOutput)
{
    _growOutput=growOutput;
}

/* ----- */

```

```

@Override
public String toString()
{
    int q;
    ByteBuffer b;
    String o;
    try(Locker.Lock lock = _locker.lock())
    {
        q=_inQ.size();
        b=_inQ.peek();
        o=BufferUtil.toDetailString(_out);
    }
    return String.format("%s[q=%d,q[0]=%s,o=%s]",super.toString(),q,b,o);
}

/* ----- */
/**
 * Compares a ByteBuffer Object to EOF by Reference
 * @param buffer the input ByteBuffer to be compared to EOF
 * @return Whether the reference buffer is equal to that of EOF
 */
private static boolean isEOF(ByteBuffer buffer)
{
    @SuppressWarnings("ReferenceEquality")
    boolean is_EOF = (buffer==EOF);
    return is_EOF;
}
}
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```

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Eclipse

The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

org.ow2.asm:asm-commons

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

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

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util



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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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```
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//

package org.eclipse.jetty.security.authentication;

import java.io.InputStream;
import java.security.KeyStore;
import java.security.Principal;
import java.security.cert.CRL;
import java.security.cert.X509Certificate;
import java.util.Collection;

import javax.servlet.ServletException;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.eclipse.jetty.security.ServerAuthException;
import org.eclipse.jetty.security.UserAuthentication;
import org.eclipse.jetty.server.Authentication;
import org.eclipse.jetty.server.Authentication.User;
import org.eclipse.jetty.server.UserIdentity;
import org.eclipse.jetty.util.B64Code;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.security.CertificateUtils;
import org.eclipse.jetty.util.security.CertificateValidator;
import org.eclipse.jetty.util.security.Constraint;
import org.eclipse.jetty.util.security.Password;

public class ClientCertAuthenticator extends LoginAuthenticator
{
    /** String name of keystore password property. */
    private static final String PASSWORD_PROPERTY = "org.eclipse.jetty.ssl.password";

    /** Truststore path */
    private String _trustStorePath;
    /** Truststore provider name */
    private String _trustStoreProvider;
    /** Truststore type */
    private String _trustStoreType = "JKS";
    /** Truststore password */
    private transient Password _trustStorePassword;

    /** Set to true if SSL certificate validation is required */
    private boolean _validateCerts;
    /** Path to file that contains Certificate Revocation List */

```

```

private String _crlPath;
/** Maximum certification path length (n - number of intermediate certs, -1 for unlimited) */
private int _maxCertPathLength = -1;
/** CRL Distribution Points (CRLDP) support */
private boolean _enableCRLDP = false;
/** On-Line Certificate Status Protocol (OCSP) support */
private boolean _enableOCSP = false;
/** Location of OCSP Responder */
private String _ocspResponderURL;

public ClientCertAuthenticator()
{
    super();
}

@Override
public String getAuthMethod()
{
    return Constraint.__CERT_AUTH;
}

@Override
public Authentication validateRequest(ServletRequest req, ServletResponse res, boolean mandatory) throws
ServerAuthException
{
    if (!mandatory)
        return new DeferredAuthentication(this);

    HttpServletRequest request = (HttpServletRequest)req;
    HttpServletResponse response = (HttpServletResponse)res;
    X509Certificate[] certs = (X509Certificate[]) request.getAttribute("javax.servlet.request.X509Certificate");

    try
    {
        // Need certificates.
        if (certs != null && certs.length > 0)
        {
            if (_validateCerts)
            {
                KeyStore trustStore = getKeyStore(
                    _trustStorePath, _trustStoreType, _trustStoreProvider,
                    _trustStorePassword == null ? null : _trustStorePassword.toString());
                Collection<? extends CRL> crls = loadCRL(_crlPath);
                CertificateValidator validator = new CertificateValidator(trustStore, crls);
                validator.validate(certs);
            }
        }
    }
}

```

```

for (X509Certificate cert: certs)
{
    if (cert==null)
        continue;

    Principal principal = cert.getSubjectDN();
    if (principal == null) principal = cert.getIssuerDN();
    final String username = principal == null ? "clientcert" : principal.getName();

    final char[] credential = B64Code.encode(cert.getSignature());

    UserIdentity user = login(username, credential, req);
    if (user!=null)
    {
        return new UserAuthentication(getAuthMethod(),user);
    }
}

if (!DeferredAuthentication.isDeferred(response))
{
    response.sendError(HttpServletResponse.SC_FORBIDDEN);
    return Authentication.SEND_FAILURE;
}

return Authentication.UNAUTHENTICATED;
}
catch (Exception e)
{
    throw new ServerAuthException(e.getMessage());
}
}

@Deprecated
protected KeyStore getKeyStore(InputStream storeStream, String storePath, String storeType, String
storeProvider, String storePassword) throws Exception
{
    return getKeyStore(storePath, storeType, storeProvider, storePassword);
}
/* ----- */
/**
 * Loads keystore using an input stream or a file path in the same
 * order of precedence.
 *
 * Required for integrations to be able to override the mechanism
 * used to load a keystore in order to provide their own implementation.
 *
 * @param storePath path of keystore file

```

```

* @param storeType keystore type
* @param storeProvider keystore provider
* @param storePassword keystore password
* @return created keystore
* @throws Exception if unable to get keystore
*/
protected KeyStore getKeyStore(String storePath, String storeType, String storeProvider, String storePassword)
throws Exception
{
    return CertificateUtils.getKeyStore(Resource.newResource(storePath), storeType, storeProvider,
storePassword);
}

/* ----- */
/**
* Loads certificate revocation list (CRL) from a file.
*
* Required for integrations to be able to override the mechanism used to
* load CRL in order to provide their own implementation.
*
* @param crlPath path of certificate revocation list file
* @return a (possibly empty) collection view of java.security.cert.CRL objects initialized with the data from the
*     input stream.
* @throws Exception if unable to load CRL
*/
protected Collection<? extends CRL> loadCRL(String crlPath) throws Exception
{
    return CertificateUtils.loadCRL(crlPath);
}

@Override
public boolean secureResponse(ServletRequest req, ServletResponse res, boolean mandatory, User validatedUser)
throws ServerAuthException
{
    return true;
}

/* ----- */
/**
* @return true if SSL certificate has to be validated
*/
public boolean isValidateCerts()
{
    return _validateCerts;
}

/* ----- */
/**

```

```

* @param validateCerts
*     true if SSL certificates have to be validated
*/
public void setValidateCerts(boolean validateCerts)
{
    _validateCerts = validateCerts;
}

/* ----- */
/**
* @return The file name or URL of the trust store location
*/
public String getTrustStore()
{
    return _trustStorePath;
}

/* ----- */
/**
* @param trustStorePath
*     The file name or URL of the trust store location
*/
public void setTrustStore(String trustStorePath)
{
    _trustStorePath = trustStorePath;
}

/* ----- */
/**
* @return The provider of the trust store
*/
public String getTrustStoreProvider()
{
    return _trustStoreProvider;
}

/* ----- */
/**
* @param trustStoreProvider
*     The provider of the trust store
*/
public void setTrustStoreProvider(String trustStoreProvider)
{
    _trustStoreProvider = trustStoreProvider;
}

/* ----- */
/**

```

```

    * @return The type of the trust store (default "JKS")
    */
    public String getTrustStoreType()
    {
        return _trustStoreType;
    }

    /* ----- */
    /**
     * @param trustStoreType
     *     The type of the trust store (default "JKS")
     */
    public void setTrustStoreType(String trustStoreType)
    {
        _trustStoreType = trustStoreType;
    }

    /* ----- */
    /**
     * @param password
     *     The password for the trust store
     */
    public void setTrustStorePassword(String password)
    {
        _trustStorePassword = Password.getPassword(PASSWORD_PROPERTY,password,null);
    }

    /* ----- */
    /** Get the crlPath.
     * @return the crlPath
     */
    public String getCrlPath()
    {
        return _crlPath;
    }

    /* ----- */
    /** Set the crlPath.
     * @param crlPath the crlPath to set
     */
    public void setCrlPath(String crlPath)
    {
        _crlPath = crlPath;
    }

    /**
     * @return Maximum number of intermediate certificates in
     * the certification path (-1 for unlimited)

```



```

*/
public int getMaxCertPathLength()
{
    return _maxCertPathLength;
}

/* ----- */
/**
 * @param maxCertPathLength
 *      maximum number of intermediate certificates in
 *      the certification path (-1 for unlimited)
 */
public void setMaxCertPathLength(int maxCertPathLength)
{
    _maxCertPathLength = maxCertPathLength;
}

/* ----- */
/**
 * @return true if CRL Distribution Points support is enabled
 */
public boolean isEnabledCRLDP()
{
    return _enableCRLDP;
}

/* ----- */
/** Enables CRL Distribution Points Support
 * @param enableCRLDP true - turn on, false - turns off
 */
public void setEnableCRLDP(boolean enableCRLDP)
{
    _enableCRLDP = enableCRLDP;
}

/* ----- */
/**
 * @return true if On-Line Certificate Status Protocol support is enabled
 */
public boolean isEnabledOCSP()
{
    return _enableOCSP;
}

/* ----- */
/** Enables On-Line Certificate Status Protocol support
 * @param enableOCSP true - turn on, false - turn off
 */

```

```

public void setEnableOCSP(boolean enableOCSP)
{
    _enableOCSP = enableOCSP;
}

/* ----- */
/**
 * @return Location of the OCSP Responder
 */
public String getOcsponderURL()
{
    return _ocspResponderURL;
}

/* ----- */
/** Set the location of the OCSP Responder.
 * @param ocspResponderURL location of the OCSP Responder
 */
public void setOcsponderURL(String ocspResponderURL)
{
    _ocspResponderURL = ocspResponderURL;
}
}
//
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//

package org.eclipse.jetty.security;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;

```

```

import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.concurrent.CopyOnWriteArraySet;

import javax.servlet.HttpConstraintElement;
import javax.servlet.HttpMethodConstraintElement;
import javax.servlet.ServletSecurityElement;
import javax.servlet.annotation.ServletSecurity.EmptyRoleSemantic;
import javax.servlet.annotation.ServletSecurity.TransportGuarantee;

import org.eclipse.jetty.http.HttpStatus;
import org.eclipse.jetty.http.PathMap;
import org.eclipse.jetty.server.HttpConfiguration;
import org.eclipse.jetty.server.Request;
import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.UserIdentity;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.component.DumpableCollection;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.security.Constraint;

/**
 * ConstraintSecurityHandler
 * <p>
 * Handler to enforce SecurityConstraints. This implementation is servlet spec
 * 3.1 compliant and pre-computes the constraint combinations for runtime
 * efficiency.
 */
public class ConstraintSecurityHandler extends SecurityHandler implements ConstraintAware
{
    private static final Logger LOG = Log.getLogger(SecurityHandler.class); //use same as SecurityHandler

    private static final String OMISSION_SUFFIX = ".omission";
    private static final String ALL_METHODS = "*";
    private final List<ConstraintMapping> _constraintMappings= new CopyOnWriteArrayList<>();
    private final Set<String> _roles = new CopyOnWriteArraySet<>();
    private final PathMap<Map<String, RoleInfo>> _constraintMap = new PathMap<>();
    private boolean _denyUncoveredMethods = false;

    /* ----- */

```

```

public static Constraint createConstraint()
{
    return new Constraint();
}

/* ----- */
public static Constraint createConstraint(Constraint constraint)
{
    try
    {
        return (Constraint)constraint.clone();
    }
    catch (CloneNotSupportedException e)
    {
        throw new IllegalStateException (e);
    }
}

/* ----- */
/**
 * Create a security constraint
 *
 * @param name the name of the constraint
 * @param authenticate true to authenticate
 * @param roles list of roles
 * @param dataConstraint the data constraint
 * @return the constraint
 */
public static Constraint createConstraint (String name, boolean authenticate, String[] roles, int dataConstraint)
{
    Constraint constraint = createConstraint();
    if (name != null)
        constraint.setName(name);
    constraint.setAuthenticate(authenticate);
    constraint.setRoles(roles);
    constraint.setDataConstraint(dataConstraint);
    return constraint;
}

/* ----- */
/**
 * Create a Constraint
 *
 * @param name the name
 * @param element the http constraint element
 * @return the created constraint
 */

```

```

public static Constraint createConstraint (String name, HttpConstraintElement element)
{
    return createConstraint(name, element.getRolesAllowed(), element.getEmptyRoleSemantic(),
element.getTransportGuarantee());
}

/* ----- */
/**
 * Create Constraint
 *
 * @param name the name
 * @param rolesAllowed the list of allowed roles
 * @param permitOrDeny the permission semantic
 * @param transport the transport guarantee
 * @return the created constraint
 */
public static Constraint createConstraint (String name, String[] rolesAllowed, EmptyRoleSemantic permitOrDeny,
TransportGuarantee transport)
{
    Constraint constraint = createConstraint();

    if (rolesAllowed == null || rolesAllowed.length==0)
    {
        if (permitOrDeny.equals(EmptyRoleSemantic.DENY))
        {
            //Equivalent to <auth-constraint> with no roles
            constraint.setName(name+"-Deny");
            constraint.setAuthenticate(true);
        }
        else
        {
            //Equivalent to no <auth-constraint>
            constraint.setName(name+"-Permit");
            constraint.setAuthenticate(false);
        }
    }
    else
    {
        //Equivalent to <auth-constraint> with list of <security-role-name>s
        constraint.setAuthenticate(true);
        constraint.setRoles(rolesAllowed);
        constraint.setName(name+"-RolesAllowed");
    }

    //Equivalent to //<user-data-constraint><transport-guarantee>CONFIDENTIAL</transport-guarantee></user-
data-constraint>
    constraint.setDataConstraint((transport.equals(TransportGuarantee.CONFIDENTIAL)?Constraint.DC_CONFIDEN

```

```

TIAL:Constraint.DC_NONE));
    return constraint;
}

/* ----- */
public static List<ConstraintMapping> getConstraintMappingsForPath(String pathSpec, List<ConstraintMapping>
constraintMappings)
{
    if (pathSpec == null || "".equals(pathSpec.trim()) || constraintMappings == null || constraintMappings.size() ==
0)
        return Collections.emptyList();

    List<ConstraintMapping> mappings = new ArrayList<ConstraintMapping>();
    for (ConstraintMapping mapping:constraintMappings)
    {
        if (pathSpec.equals(mapping.getPathSpec()))
        {
            mappings.add(mapping);
        }
    }
    return mappings;
}

/* ----- */
/** Take out of the constraint mappings those that match the
 * given path.
 *
 * @param pathSpec the path spec
 * @param constraintMappings a new list minus the matching constraints
 * @return the list of constraint mappings
 */
public static List<ConstraintMapping> removeConstraintMappingsForPath(String pathSpec,
List<ConstraintMapping> constraintMappings)
{
    if (pathSpec == null || "".equals(pathSpec.trim()) || constraintMappings == null || constraintMappings.size() ==
0)
        return Collections.emptyList();

    List<ConstraintMapping> mappings = new ArrayList<ConstraintMapping>();
    for (ConstraintMapping mapping:constraintMappings)
    {
        //Remove the matching mappings by only copying in non-matching mappings
        if (!pathSpec.equals(mapping.getPathSpec()))
        {
            mappings.add(mapping);
        }
    }
}

```

```

    }
  }
  return mappings;
}

/* ----- */
/**
 * Generate Constraints and ConstraintMappings for the given url pattern and ServletSecurityElement
 *
 * @param name the name
 * @param pathSpec the path spec
 * @param securityElement the servlet security element
 * @return the list of constraint mappings
 */
public static List<ConstraintMapping> createConstraintsWithMappingsForPath (String name, String pathSpec,
ServletSecurityElement securityElement)
{
  List<ConstraintMapping> mappings = new ArrayList<ConstraintMapping>();

  //Create a constraint that will describe the default case (ie if not overridden by specific HttpMethodConstraints)
  Constraint httpConstraint = null;
  ConstraintMapping httpConstraintMapping = null;

  if (securityElement.getEmptyRoleSemantic() != EmptyRoleSemantic.PERMIT ||
      securityElement.getRolesAllowed().length != 0 ||
      securityElement.getTransportGuarantee() != TransportGuarantee.NONE)
  {
    httpConstraint = ConstraintSecurityHandler.createConstraint(name, securityElement);

    //Create a mapping for the pathSpec for the default case
    httpConstraintMapping = new ConstraintMapping();
    httpConstraintMapping.setPathSpec(pathSpec);
    httpConstraintMapping.setConstraint(httpConstraint);
    mappings.add(httpConstraintMapping);
  }

  //See Spec 13.4.1.2 p127
  List<String> methodOmissions = new ArrayList<String>();

  //make constraint mappings for this url for each of the HttpMethodConstraintElements
  Collection<HttpMethodConstraintElement> methodConstraintElements =
securityElement.getHttpMethodConstraints();
  if (methodConstraintElements != null)
  {
    for (HttpMethodConstraintElement methodConstraintElement:methodConstraintElements)

```

```

        {
            //Make a Constraint that captures the <auth-constraint> and <user-data-constraint> elements supplied for
the HttpMethodConstraintElement
            Constraint methodConstraint = ConstraintSecurityHandler.createConstraint(name,
methodConstraintElement);
            ConstraintMapping mapping = new ConstraintMapping();
            mapping.setConstraint(methodConstraint);
            mapping.setPathSpec(pathSpec);
            if (methodConstraintElement.getMethodName() != null)
            {
                mapping.setMethod(methodConstraintElement.getMethodName());
                //See spec 13.4.1.2 p127 - add an omission for every method name to the default constraint
                methodOmissions.add(methodConstraintElement.getMethodName());
            }
            mappings.add(mapping);
        }
    }
    //See spec 13.4.1.2 p127 - add an omission for every method name to the default constraint
    //UNLESS the default constraint contains all default values. In that case, we won't add it. See Servlet Spec 3.1
pg 129
    if (methodOmissions.size() > 0 && httpConstraintMapping != null)
        httpConstraintMapping.setMethodOmissions(methodOmissions.toArray(new
String[methodOmissions.size()]));

    return mappings;
}

/* ----- */
/**
 * @return Returns the constraintMappings.
 */
@Override
public List<ConstraintMapping> getConstraintMappings()
{
    return _constraintMappings;
}

/* ----- */
@Override
public Set<String> getRoles()
{
    return _roles;
}

/* ----- */

```



```

/**
 * Process the constraints following the combining rules in Servlet 3.0 EA
 * spec section 13.7.1 Note that much of the logic is in the RoleInfo class.
 *
 * @param constraintMappings
 *     The constraintMappings to set, from which the set of known roles
 *     is determined.
 */
public void setConstraintMappings(List<ConstraintMapping> constraintMappings)
{
    setConstraintMappings(constraintMappings,null);
}

/**
 * Process the constraints following the combining rules in Servlet 3.0 EA
 * spec section 13.7.1 Note that much of the logic is in the RoleInfo class.
 *
 * @param constraintMappings
 *     The constraintMappings to set as array, from which the set of known roles
 *     is determined. Needed to retain API compatibility for 7.x
 */
public void setConstraintMappings( ConstraintMapping[] constraintMappings )
{
    setConstraintMappings( Arrays.asList(constraintMappings), null);
}

/* ----- */
/**
 * Process the constraints following the combining rules in Servlet 3.0 EA
 * spec section 13.7.1 Note that much of the logic is in the RoleInfo class.
 *
 * @param constraintMappings
 *     The constraintMappings to set.
 * @param roles The known roles (or null to determine them from the mappings)
 */
@Override
public void setConstraintMappings(List<ConstraintMapping> constraintMappings, Set<String> roles)
{
    _constraintMappings.clear();
    _constraintMappings.addAll(constraintMappings);

    if (roles==null)
    {
        roles = new HashSet<>();
        for (ConstraintMapping cm : constraintMappings)
        {
            String[] cmr = cm.getConstraint().getRoles();
            if (cmr!=null)

```

```

        {
            for (String r : cmr)
                if (!ALL_METHODS.equals(r))
                    roles.add(r);
        }
    }
}
setRoles(roles);

if (isStarted())
{
    for (ConstraintMapping mapping : _constraintMappings)
    {
        processConstraintMapping(mapping);
    }
}
}

/* ----- */
/**
 * Set the known roles.
 * This may be overridden by a subsequent call to {@link #setConstraintMappings(ConstraintMapping[])} or
 * {@link #setConstraintMappings(List, Set)}.
 * @param roles The known roles (or null to determine them from the mappings)
 */
public void setRoles(Set<String> roles)
{
    _roles.clear();
    _roles.addAll(roles);
}

/* ----- */
/**
 * @see
org.eclipse.jetty.security.ConstraintAware#addConstraintMapping(org.eclipse.jetty.security.ConstraintMapping)
 */
@Override
public void addConstraintMapping(ConstraintMapping mapping)
{
    _constraintMappings.add(mapping);
    if (mapping.getConstraint()!=null && mapping.getConstraint().getRoles()!=null)
    {
        //allow for lazy role naming: if a role is named in a security constraint, try and
        //add it to the list of declared roles (ie as if it was declared with a security-role
        for (String role : mapping.getConstraint().getRoles())
        {

```

```

        if ("*".equals(role) || "**".equals(role))
            continue;
        addRole(role);
    }
}

if (isStarted())
{
    processConstraintMapping(mapping);
}
}

/* ----- */
/**
 * @see org.eclipse.jetty.security.ConstraintAware#addRole(java.lang.String)
 */
@Override
public void addRole(String role)
{
    //add to list of declared roles
    boolean modified = _roles.add(role);
    if (isStarted() && modified)
    {
        // Add the new role to currently defined any role role infos
        for (Map<String,RoleInfo> map : _constraintMap.values())
        {
            for (RoleInfo info : map.values())
            {
                if (info.isAnyRole())
                    info.addRole(role);
            }
        }
    }
}

/* ----- */
/**
 * @see org.eclipse.jetty.security.SecurityHandler#doStart()
 */
@Override
protected void doStart() throws Exception
{
    _constraintMap.clear();
    if (_constraintMappings!=null)
    {
        for (ConstraintMapping mapping : _constraintMappings)
        {
            processConstraintMapping(mapping);
        }
    }
}

```

```

    }
}

//Servlet Spec 3.1 pg 147 sec 13.8.4.2 log paths for which there are uncovered http methods
checkPathsWithUncoveredHttpMethods();

super.doStart();
}

/* ----- */
@Override
protected void doStop() throws Exception
{
    super.doStop();
    _constraintMap.clear();
}

/* ----- */
/**
 * Create and combine the constraint with the existing processed
 * constraints.
 *
 * @param mapping the constraint mapping
 */
protected void processConstraintMapping(ConstraintMapping mapping)
{
    Map<String, RoleInfo> mappings = _constraintMap.get(mapping.getPathSpec());
    if (mappings == null)
    {
        mappings = new HashMap<String,RoleInfo>();
        _constraintMap.put(mapping.getPathSpec(),mappings);
    }
    RoleInfo allMethodsRoleInfo = mappings.get(ALL_METHODS);
    if (allMethodsRoleInfo != null && allMethodsRoleInfo.isForbidden())
        return;

    if (mapping.getMethodOmissions() != null && mapping.getMethodOmissions().length > 0)
    {
        processConstraintMappingWithMethodOmissions(mapping, mappings);
        return;
    }

    String httpMethod = mapping.getMethod();
    if (httpMethod==null)
        httpMethod=ALL_METHODS;
    RoleInfo roleInfo = mappings.get(httpMethod);

```

```

if (roleInfo == null)
{
    roleInfo = new RoleInfo();
    mappings.put(httpMethod,roleInfo);
    if (allMethodsRoleInfo != null)
    {
        roleInfo.combine(allMethodsRoleInfo);
    }
}
if (roleInfo.isForbidden())
    return;

//add in info from the constraint
configureRoleInfo(roleInfo, mapping);

if (roleInfo.isForbidden())
{
    if (httpMethod.equals(ALL_METHODS))
    {
        mappings.clear();
        mappings.put(ALL_METHODS,roleInfo);
    }
}
}

/* ----- */
/** Constraints that name method omissions are dealt with differently.
 * We create an entry in the mappings with key "<method>.omission". This entry
 * is only ever combined with other omissions for the same method to produce a
 * consolidated RoleInfo. Then, when we wish to find the relevant constraints for
 * a given Request (in prepareConstraintInfo()), we consult 3 types of entries in
 * the mappings: an entry that names the method of the Request specifically, an
 * entry that names constraints that apply to all methods, entries of the form
 * <method>.omission, where the method of the Request is not named in the omission.
 * @param mapping the constraint mapping
 * @param mappings the mappings of roles
 */
protected void processConstraintMappingWithMethodOmissions (ConstraintMapping mapping, Map<String,
RoleInfo> mappings)
{
    String[] omissions = mapping.getMethodOmissions();
    StringBuilder sb = new StringBuilder();
    for (int i=0; i<omissions.length; i++)
    {
        if (i > 0)
            sb.append(".");
        sb.append(omissions[i]);
    }
}

```

```

sb.append(OMISSION_SUFFIX);
RoleInfo ri = new RoleInfo();
mappings.put(sb.toString(), ri);
configureRoleInfo(ri, mapping);
}

/* ----- */
/**
 * Initialize or update the RoleInfo from the constraint
 * @param ri the role info
 * @param mapping the constraint mapping
 */
protected void configureRoleInfo (RoleInfo ri, ConstraintMapping mapping)
{
    Constraint constraint = mapping.getConstraint();
    boolean forbidden = constraint.isForbidden();
    ri.setForbidden(forbidden);

    //set up the data constraint (NOTE: must be done after setForbidden, as it nulls out the data constraint
    //which we need in order to do combining of omissions in prepareConstraintInfo
    UserDataConstraint userDataConstraint =
    UserDataConstraint.get(mapping.getConstraint().getDataConstraint());
    ri.setUserDataConstraint(userDataConstraint);

    //if forbidden, no point setting up roles
    if (!ri.isForbidden())
    {
        //add in the roles
        boolean checked = mapping.getConstraint().getAuthenticate();
        ri.setChecked(checked);

        if (ri.isChecked())
        {
            if (mapping.getConstraint().isAnyRole())
            {
                // * means matches any defined role
                for (String role : _roles)
                    ri.addRole(role);
                ri.setAnyRole(true);
            }
            else if (mapping.getConstraint().isAnyAuth())
            {
                //being authenticated is sufficient, not necessary to check roles
                ri.setAnyAuth(true);
            }
            else
            {

```



```

    if (all != null)
        applicableConstraints.add(all);

    //Get info for constraints that name method omissions where target method name is not omitted
    //(ie matches because target method is not omitted, hence considered covered by the constraint)
    for (Entry<String, RoleInfo> entry: mappings.entrySet())
    {
        if (entry.getKey() != null && entry.getKey().endsWith(OMISSION_SUFFIX) && !
entry.getKey().contains(httpMethod))
            applicableConstraints.add(entry.getValue());
    }

    if (applicableConstraints.size() == 0 && isDenyUncoveredHttpMethods())
    {
        roleInfo = new RoleInfo();
        roleInfo.setForbidden(true);
    }
    else if (applicableConstraints.size() == 1)
        roleInfo = applicableConstraints.get(0);
    else
    {
        roleInfo = new RoleInfo();
        roleInfo.setUserDataConstraint(UserDataConstraint.None);

        for (RoleInfo r:applicableConstraints)
            roleInfo.combine(r);
    }

    }

    return roleInfo;
}

return null;
}

@Override
protected boolean checkUserDataPermissions(String pathInContext, Request request, Response response,
RoleInfo roleInfo) throws IOException
{
    if (roleInfo == null)
        return true;

    if (roleInfo.isForbidden())
        return false;

    UserDataConstraint dataConstraint = roleInfo.getUserDataConstraint();

```



```

if (dataConstraint == null || dataConstraint == UserDataConstraint.None)
    return true;

HttpConfiguration httpConfig = Request.getBaseRequest(request).getHttpChannel().getHttpConfiguration();

if (dataConstraint == UserDataConstraint.Confidential || dataConstraint == UserDataConstraint.Integral)
{
    if (request.isSecure())
        return true;

    if (httpConfig.getSecurePort() > 0)
    {
        String scheme = httpConfig.getSecureScheme();
        int port = httpConfig.getSecurePort();

        String url = URIUtil.newURI(scheme, request.getServerName(),
port,request.getRequestURI(),request.getQueryString());
        response.setContentLength(0);
        response.sendRedirect(url);
    }
    else
        response.sendError(HttpStatus.FORBIDDEN_403,"!Secure");

    request.setHandled(true);
    return false;
}
else
{
    throw new IllegalArgumentException("Invalid dataConstraint value: " + dataConstraint);
}
}

@Override
protected boolean isAuthMandatory(Request baseRequest, Response base_response, Object constraintInfo)
{
    return constraintInfo != null && ((RoleInfo)constraintInfo).isChecked();
}

/* ----- */
/**
 * @see org.eclipse.jetty.security.SecurityHandler#checkWebResourcePermissions(java.lang.String,
org.eclipse.jetty.server.Request, org.eclipse.jetty.server.Response, java.lang.Object,
org.eclipse.jetty.server.UserIdentity)
 */
@Override
protected boolean checkWebResourcePermissions(String pathInContext, Request request, Response response,

```

```

Object constraintInfo, UserIdentity userIdentity)
    throws IOException
{
    if (constraintInfo == null)
    {
        return true;
    }
    RoleInfo roleInfo = (RoleInfo)constraintInfo;

    if (!roleInfo.isChecked())
    {
        return true;
    }

    //handle ** role constraint
    if (roleInfo.isAnyAuth() && request.getUserPrincipal() != null)
    {
        return true;
    }

    //check if user is any of the allowed roles
    boolean isUserInRole = false;
    for (String role : roleInfo.getRoles())
    {
        if (userIdentity.isUserInRole(role, null))
        {
            isUserInRole = true;
            break;
        }
    }

    //handle * role constraint
    if (roleInfo.isAnyRole() && request.getUserPrincipal() != null && isUserInRole)
    {
        return true;
    }

    //normal role check
    if (isUserInRole)
    {
        return true;
    }

    return false;
}

/* ----- */
@Override

```

```

public void dump(Appendable out,String indent) throws IOException
{
    dumpObjects(out,indent,
        DumpableCollection.from("roles",_roles),
        DumpableCollection.from("constraints",_constraintMap.entrySet()));
}

/* ----- */
/**
 * @see org.eclipse.jetty.security.ConstraintAware#setDenyUncoveredHttpMethods(boolean)
 */
@Override
public void setDenyUncoveredHttpMethods(boolean deny)
{
    _denyUncoveredMethods = deny;
}

/* ----- */
@Override
public boolean isDenyUncoveredHttpMethods()
{
    return _denyUncoveredMethods;
}

/* ----- */
/**
 * Servlet spec 3.1 pg. 147.
 */
@Override
public boolean checkPathsWithUncoveredHttpMethods()
{
    Set<String> paths = getPathsWithUncoveredHttpMethods();
    if (paths != null && !paths.isEmpty())
    {
        for (String p:paths)
            LOG.warn("{} has uncovered http methods for path: {}",ContextHandler.getCurrentContext(), p);
        if (LOG.isDebugEnabled())
            LOG.debug(new Throwable());
        return true;
    }
    return false;
}

/* ----- */
/**
 * Servlet spec 3.1 pg. 147.

```

```

* The container must check all the combined security constraint
* information and log any methods that are not protected and the
* urls at which they are not protected
*
* @return list of paths for which there are uncovered methods
*/
public Set<String> getPathsWithUncoveredHttpMethods ()
{
    //if automatically denying uncovered methods, there are no uncovered methods
    if (_denyUncoveredMethods)
        return Collections.emptySet();

    Set<String> uncoveredPaths = new HashSet<String>();

    for (String path:_constraintMap.keySet())
    {
        Map<String, RoleInfo> methodMappings = _constraintMap.get(path);
        //Each key is either:
        // : an exact method name
        // : * which means that the constraint applies to every method
        // : a name of the form <method>.<method>.<method>.omission, which means it applies to every method
        EXCEPT those named
        if (methodMappings.get(ALL_METHODS) != null)
            continue; //can't be any uncovered methods for this url path

        boolean hasOmissions = omissionsExist(path, methodMappings);

        for (String method:methodMappings.keySet())
        {
            if (method.endsWith(OMISSION_SUFFIX))
            {
                Set<String> omittedMethods = getOmittedMethods(method);
                for (String m:omittedMethods)
                {
                    if (!methodMappings.containsKey(m))
                        uncoveredPaths.add(path);
                }
            }
            else
            {
                //an exact method name
                if (!hasOmissions)
                    //a http-method does not have http-method-omission to cover the other method names
                    uncoveredPaths.add(path);
            }
        }
    }
}

```

```

    return uncoveredPaths;
}

/* ----- */
/**
 * Check if any http method omissions exist in the list of method
 * to auth info mappings.
 *
 * @param path the path
 * @param methodMappings the method mappings
 * @return true if omission exist
 */
protected boolean omissionsExist (String path, Map<String, RoleInfo> methodMappings)
{
    if (methodMappings == null)
        return false;
    boolean hasOmissions = false;
    for (String m:methodMappings.keySet())
    {
        if (m.endsWith(OMISSION_SUFFIX))
            hasOmissions = true;
    }
    return hasOmissions;
}

/* ----- */
/**
 * Given a string of the form <code>&lt;method&gt;.&lt;method&gt;.omission</code>
 * split out the individual method names.
 *
 * @param omission the method
 * @return the list of strings
 */
protected Set<String> getOmittedMethods (String omission)
{
    if (omission == null || !omission.endsWith(OMISSION_SUFFIX))
        return Collections.emptySet();

    String[] strings = omission.split("\\.");
    Set<String> methods = new HashSet<String>();
    for (int i=0;i<strings.length-1;i++)
        methods.add(strings[i]);
    return methods;
}
}

```

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Version 2.0, January 2004

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# 1.172 jetty-server 9.4.18.v20190429

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-----  
Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

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

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

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

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## Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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## Assorted

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//
```

```
package org.eclipse.jetty.server;
```

```
import java.io.IOException;  
import java.util.concurrent.Executor;  
import java.util.concurrent.Future;
```

```
import org.eclipse.jetty.io.ByteBufferPool;  
import org.eclipse.jetty.util.annotation.ManagedAttribute;  
import org.eclipse.jetty.util.annotation.ManagedObject;
```

```

import org.eclipse.jetty.util.thread.Scheduler;

/**
 * An abstract Network Connector.
 * <p>
 * Extends the { @link AbstractConnector } support for the { @link NetworkConnector } interface.
 */
@ManagedObject("AbstractNetworkConnector")
public abstract class AbstractNetworkConnector extends AbstractConnector implements NetworkConnector
{

    private volatile String _host;
    private volatile int _port = 0;

    public AbstractNetworkConnector(Server server, Executor executor, Scheduler scheduler, ByteBufferPool pool,
int acceptors, ConnectionFactory... factories)
    {
        super(server,executor,scheduler,pool,acceptors,factories);
    }

    public void setHost(String host)
    {
        _host = host;
    }

    @Override
    @ManagedAttribute("The network interface this connector binds to as an IP address or a hostname. If null or
0.0.0.0, then bind to all interfaces.")
    public String getHost()
    {
        return _host;
    }

    public void setPort(int port)
    {
        _port = port;
    }

    @Override
    @ManagedAttribute("Port this connector listens on. If set the 0 a random port is assigned which may be obtained
with getLocalPort()")
    public int getPort()
    {
        return _port;
    }

    @Override
    public int getLocalPort()

```

```

{
    return -1;
}

@Override
protected void doStart() throws Exception
{
    open();
    super.doStart();
}

@Override
protected void doStop() throws Exception
{
    close();
    super.doStop();
}

@Override
public void open() throws IOException
{
}

@Override
public void close()
{
}

@Override
public Future<Void> shutdown()
{
    close();
    return super.shutdown();
}

@Override
protected boolean handleAcceptFailure(Throwable ex)
{
    if (isOpen())
        return super.handleAcceptFailure(ex);
    LOG.ignore(ex);
    return false;
}

@Override
public String toString()
{

```

```
return String.format("%s{%s:%d}",
    super.toString(),
    getHost() == null ? "0.0.0.0" : getHost(),
    getLocalPort() <= 0 ? getPort() : getLocalPort());
}
}
```

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The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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```

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import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class NoJspServlet extends HttpServlet
{
    private boolean _warned;

    /* ----- */
    /*
     * @see javax.servlet.http.HttpServlet#doGet(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
     */
    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse response) throws ServletException,
IOException
    {
        if (!_warned)
            getServletContext().log("No JSP support. Check that JSP jars are in lib/jsp and that the JSP option has been
specified to start.jar");
        _warned=true;

        response.sendError(500,"JSP support not configured");
    }
}

```

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

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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

-----  
Oracle

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

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

-----

## Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

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

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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

-----

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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```
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//
```

```
package org.eclipse.jetty.servlets;
```

```
import java.io.File;  
import java.io.IOException;  
import java.io.InputStream;  
import java.io.OutputStream;  
import java.io.OutputStreamWriter;  
import java.io.Writer;  
import java.nio.charset.Charset;  
import java.util.Enumeration;  
import java.util.HashMap;  
import java.util.Locale;  
import java.util.Map;  
  
import javax.servlet.AsyncContext;  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
  
import org.eclipse.jetty.http.HttpMethod;  
import org.eclipse.jetty.util.IO;
```

```

import org.eclipse.jetty.util.MultiMap;
import org.eclipse.jetty.util.StringUtil;
import org.eclipse.jetty.util.UrlEncoded;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;

/**
 * CGI Servlet.
 * <p>
 * The following init parameters are used to configure this servlet:
 * <dl>
 * <dt>cgibinResourceBase</dt>
 * <dd>Path to the cgi bin directory if set or it will default to the resource base of the context.</dd>
 * <dt>resourceBase</dt>
 * <dd>An alias for cgibinResourceBase.</dd>
 * <dt>cgibinResourceBaseIsRelative</dt>
 * <dd>If true then cgibinResourceBase is relative to the webapp (eg "WEB-INF/cgi")</dd>
 * <dt>commandPrefix</dt>
 * <dd>may be used to set a prefix to all commands passed to exec. This can be used on systems that need assistance
to execute a
 * particular file type. For example on windows this can be set to "perl" so that perl scripts are executed.</dd>
 * <dt>Path</dt>
 * <dd>passed to the exec environment as PATH.</dd>
 * <dt>ENV_*</dt>
 * <dd>used to set an arbitrary environment variable with the name stripped of the leading ENV_ and using the init
parameter value</dd>
 * <dt>useFullPath</dt>
 * <dd>If true, the full URI path within the context is used for the exec command, otherwise a search is done for a
partial URL that matches an exec Command</dd>
 * <dt>ignoreExitState</dt>
 * <dd>If true then do not act on a non-zero exec exit status"></dd>
 * </dl>
 */
public class CGI extends HttpServlet
{
    private static final long serialVersionUID = -6182088932884791074L;

    private static final Logger LOG = Log.getLogger(CGI.class);

    private boolean _ok;
    private File _docRoot;
    private boolean _cgiBinProvided;
    private String _path;
    private String _cmdPrefix;
    private boolean _useFullPath;
    private EnvList _env;
    private boolean _ignoreExitState;
    private boolean _relative;

```

```

@Override
public void init() throws ServletException
{
    _env = new EnvList();
    _cmdPrefix = getInitParameter("commandPrefix");
    _useFullPath = Boolean.parseBoolean(getInitParameter("useFullPath"));
    _relative = Boolean.parseBoolean(getInitParameter("cgibinResourceBaseIsRelative"));

    String tmp = getInitParameter("cgibinResourceBase");
    if (tmp != null)
        _cgiBinProvided = true;
    else
    {
        tmp = getInitParameter("resourceBase");
        if (tmp != null)
            _cgiBinProvided = true;
        else
            tmp = getServletContext().getRealPath("/");
    }

    if (_relative && _cgiBinProvided)
    {
        tmp = getServletContext().getRealPath(tmp);
    }

    if (tmp == null)
    {
        LOG.warn("CGI: no CGI bin !");
        return;
    }

    File dir = new File(tmp);
    if (!dir.exists())
    {
        LOG.warn("CGI: CGI bin does not exist - " + dir);
        return;
    }

    if (!dir.canRead())
    {
        LOG.warn("CGI: CGI bin is not readable - " + dir);
        return;
    }

    if (!dir.isDirectory())
    {
        LOG.warn("CGI: CGI bin is not a directory - " + dir);
    }
}

```

```

        return;
    }

    try
    {
        _docRoot = dir.getCanonicalFile();
    }
    catch (IOException e)
    {
        LOG.warn("CGI: CGI bin failed - " + dir, e);
        return;
    }

    _path = getInitParameter("Path");
    if (_path != null)
        _env.set("PATH", _path);

    _ignoreExitState = "true".equalsIgnoreCase(getInitParameter("ignoreExitState"));
    Enumeration<String> e = getInitParameterNames();
    while (e.hasMoreElements())
    {
        String n = e.nextElement();
        if (n != null && n.startsWith("ENV_"))
            _env.set(n.substring(4), getInitParameter(n));
    }
    if (!_env.envMap.containsKey("SystemRoot"))
    {
        String os = System.getProperty("os.name");
        if (os != null && os.toLowerCase(Locale.ENGLISH).contains("windows"))
        {
            _env.set("SystemRoot", "C:\\WINDOWS");
        }
    }

    _ok = true;
}

@Override
public void service(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException
{
    if (!_ok)
    {
        res.sendError(HttpServletResponse.SC_SERVICE_UNAVAILABLE);
        return;
    }

    if (LOG.isDebugEnabled())
    {

```



```

    LOG.debug("CGI: ContextPath : " + req.getContextPath());
    LOG.debug("CGI: ServletPath : " + req.getServletPath());
    LOG.debug("CGI: PathInfo  : " + req.getPathInfo());
    LOG.debug("CGI: _docRoot  : " + _docRoot);
    LOG.debug("CGI: _path    : " + _path);
    LOG.debug("CGI: _ignoreExitState: " + _ignoreExitState);
}

// pathInContext may actually comprises scriptName/pathInfo...We will
// walk backwards up it until we find the script - the rest must
// be the pathInfo;
String pathInContext = (_relative ? "" : StringUtil.nonNull(req.getServletPath())) +
StringUtil.nonNull(req.getPathInfo());
File execCmd = new File(_docRoot, pathInContext);
String pathInfo = pathInContext;

if (!_useFullPath)
{
    String path = pathInContext;
    String info = "";

    // Search docroot for a matching execCmd
    while ((path.endsWith("/") || !execCmd.exists()) && path.length() >= 0)
    {
        int index = path.lastIndexOf('/');
        path = path.substring(0, index);
        info = pathInContext.substring(index, pathInContext.length());
        execCmd = new File(_docRoot, path);
    }

    if (path.length() == 0 || !execCmd.exists() || execCmd.isDirectory() ||
!execCmd.getCanonicalPath().equals(execCmd.getAbsolutePath()))
    {
        res.sendError(404);
    }

    pathInfo = info;
}
exec(execCmd, pathInfo, req, res);
}

/**
 * executes the CGI process
 *
 * @param command the command to execute, this command is prefixed by
 * the context parameter "commandPrefix".
 * @param pathInfo The PATH_INFO to process,
 * see

```

<http://docs.oracle.com/javaee/6/api/javax/servlet/http/HttpServletRequest.html#getPathInfo%28%29>. Cannot be null

```
* @param req the HTTP request
* @param res the HTTP response
* @throws IOException if the execution of the CGI process throws
*/
private void exec(File command, String pathInfo, HttpServletRequest req, HttpServletResponse res) throws
IOException
{
    assert req != null;
    assert res != null;
    assert pathInfo != null;
    assert command != null;

    if (LOG.isDebugEnabled())
    {
        LOG.debug("CGI: script is " + command);
        LOG.debug("CGI: pathInfo is " + pathInfo);
    }

    String bodyFormEncoded = null;
    if ((HttpMethod.POST.is(req.getMethod()) || HttpMethod.PUT.is(req.getMethod())) && "application/x-www-
form-urlencoded".equals(req.getContentType()))
    {
        MultiMap<String> parameterMap = new MultiMap<>();
        Enumeration<String> names = req.getParameterNames();
        while (names.hasMoreElements())
        {
            String parameterName = names.nextElement();
            parameterMap.addValues(parameterName, req.getParameterValues(parameterName));
        }
        bodyFormEncoded = UrlEncoded.encode(parameterMap, Charset.forName(req.getCharacterEncoding()),
true);
    }

    EnvList env = new EnvList(_env);
    // these ones are from "The WWW Common Gateway Interface Version 1.1"
    // look at :
    // http://Web.Golux.Com/coar/cgi/draft-coar-cgi-v11-03-clean.html#6.1.1
    env.set("AUTH_TYPE", req.getAuthType());

    int contentLen = req.getContentLength();
    if (contentLen < 0)
        contentLen = 0;
    if (bodyFormEncoded != null)
    {
        env.set("CONTENT_LENGTH", Integer.toString(bodyFormEncoded.length()));
    }
    else
```

```

    {
        env.set("CONTENT_LENGTH", Integer.toString(contentLen));
    }
    env.set("CONTENT_TYPE", req.getContentType());
    env.set("GATEWAY_INTERFACE", "CGI/1.1");
    if (pathInfo.length() > 0)
    {
        env.set("PATH_INFO", pathInfo);
    }

    String pathTranslated = req.getPathTranslated();
    if ((pathTranslated == null) || (pathTranslated.length() == 0))
        pathTranslated = pathInfo;
    env.set("PATH_TRANSLATED", pathTranslated);
    env.set("QUERY_STRING", req.getQueryString());
    env.set("REMOTE_ADDR", req.getRemoteAddr());
    env.set("REMOTE_HOST", req.getRemoteHost());

    // The identity information reported about the connection by a
    // RFC 1413 [11] request to the remote agent, if
    // available. Servers MAY choose not to support this feature, or
    // not to request the data for efficiency reasons.
    // "REMOTE_IDENT" => "NYI"
    env.set("REMOTE_USER", req.getRemoteUser());
    env.set("REQUEST_METHOD", req.getMethod());

    String scriptPath;
    String scriptName;
    // use docRoot for scriptPath, too
    if (_cgiBinProvided)
    {
        scriptPath = command.getAbsolutePath();
        scriptName = scriptPath.substring(_docRoot.getAbsolutePath().length());
    }
    else
    {
        String requestURI = req.getRequestURI();
        scriptName = requestURI.substring(0, requestURI.length() - pathInfo.length());
        scriptPath = getServletContext().getRealPath(scriptName);
    }
    env.set("SCRIPT_FILENAME", scriptPath);
    env.set("SCRIPT_NAME", scriptName);

    env.set("SERVER_NAME", req.getServerName());
    env.set("SERVER_PORT", Integer.toString(req.getServerPort()));
    env.set("SERVER_PROTOCOL", req.getProtocol());
    env.set("SERVER_SOFTWARE", getServletContext().getServerInfo());

```

```

Enumeration<String> enm = req.getHeaderNames();
while (enm.hasMoreElements())
{
    String name = enm.nextElement();
    if (name.equalsIgnoreCase("Proxy"))
        continue;
    String value = req.getHeader(name);
    env.set("HTTP_" + name.toUpperCase(Locale.ENGLISH).replace('-', '_'), value);
}

// these extra ones were from printenv on www.dev.nomura.co.uk
env.set("HTTPS", (req.isSecure() ? "ON" : "OFF"));
// "DOCUMENT_ROOT" => root + "/docs",
// "SERVER_URL" => "NYI - http://us0245",
// "TZ" => System.getProperty("user.timezone"),

// are we meant to decode args here? or does the script get them
// via PATH_INFO? if we are, they should be decoded and passed
// into exec here...
String absolutePath = command.getAbsolutePath();
String execCmd = absolutePath;

// escape the execCommand
if (execCmd.length() > 0 && execCmd.charAt(0) != '"' && execCmd.contains(" "))
    execCmd = "\"" + execCmd + "\"";

if (_cmdPrefix != null)
    execCmd = _cmdPrefix + " " + execCmd;

LOG.debug("Environment: " + env.getExportString());
LOG.debug("Command: " + execCmd);

final Process p = Runtime.getRuntime().exec(execCmd, env.getEnvArray(), _docRoot);

// hook processes input to browser's output (async)
if (bodyFormEncoded != null)
    writeProcessInput(p, bodyFormEncoded);
else if (contentLen > 0)
    writeProcessInput(p, req.getInputStream(), contentLen);

// hook processes output to browser's input (sync)
// if browser closes stream, we should detect it and kill process...
OutputStream os = null;
AsyncContext async = req.startAsync();
try
{
    {
        async.start(new Runnable()
        {

```

```

@Override
public void run()
{
    try
    {
        IO.copy(p.getErrorStream(), System.err);
    }
    catch (IOException e)
    {
        LOG.warn(e);
    }
}
});

// read any headers off the top of our input stream
// NOTE: Multiline header items not supported!
String line = null;
InputStream inFromCgi = p.getInputStream();

// br=new BufferedReader(new InputStreamReader(inFromCgi));
// while ((line=br.readLine())!=null)
while ((line = getTextLineFromStream(inFromCgi)).length() > 0)
{
    if (!line.startsWith("HTTP"))
    {
        int k = line.indexOf(':');
        if (k > 0)
        {
            String key = line.substring(0, k).trim();
            String value = line.substring(k + 1).trim();
            if ("Location".equals(key))
            {
                res.sendRedirect(res.encodeRedirectURL(value));
            }
            else if ("Status".equals(key))
            {
                String[] token = value.split(" ");
                int status = Integer.parseInt(token[0]);
                res.setStatus(status);
            }
            else
            {
                // add remaining header items to our response header
                res.addHeader(key, value);
            }
        }
    }
}
}
}

```

```

// copy cgi content to response stream...
os = res.getOutputStream();
IO.copy(inFromCgi, os);
p.waitFor();

if (!_ignoreExitState)
{
    int exitValue = p.exitValue();
    if (0 != exitValue)
    {
        LOG.warn("Non-zero exit status (" + exitValue + ") from CGI program: " + absolutePath);
        if (!res.isCommitted())
            res.sendError(500, "Failed to exec CGI");
    }
}
}
catch (IOException e)
{
    // browser has probably closed its input stream - we
    // terminate and clean up...
    LOG.debug("CGI: Client closed connection!", e);
}
catch (InterruptedException ie)
{
    LOG.debug("CGI: interrupted!");
}
finally
{
    if (os != null)
    {
        try
        {
            os.close();
        }
        catch (Exception e)
        {
            LOG.debug(e);
        }
    }
    p.destroy();
    // LOG.debug("CGI: terminated!");
    async.complete();
}
}

private static void writeProcessInput(final Process p, final String input)
{
    new Thread(new Runnable()

```

```

    {
        @Override
        public void run()
        {
            try
            {
                try (Writer outToCgi = new OutputStreamWriter(p.getOutputStream()))
                {
                    outToCgi.write(input);
                }
            }
            catch (IOException e)
            {
                LOG.debug(e);
            }
        }
    }).start();
}

private static void writeProcessInput(final Process p, final InputStream input, final int len)
{
    if (len <= 0) return;

    new Thread(new Runnable()
    {
        @Override
        public void run()
        {
            try
            {
                OutputStream outToCgi = p.getOutputStream();
                IO.copy(input, outToCgi, len);
                outToCgi.close();
            }
            catch (IOException e)
            {
                LOG.debug(e);
            }
        }
    }).start();
}

/**
 * Utility method to get a line of text from the input stream.
 *
 * @param is the input stream
 * @return the line of text
 * @throws IOException if reading from the input stream throws

```

```

*/
private static String getTextLineFromStream(InputStream is) throws IOException
{
    StringBuilder buffer = new StringBuilder();
    int b;

    while ((b = is.read()) != -1 && b != '\n')
    {
        buffer.append((char)b);
    }
    return buffer.toString().trim();
}

/**
 * private utility class that manages the Environment passed to exec.
 */
private static class EnvList
{
    private Map<String, String> envMap;

    EnvList()
    {
        envMap = new HashMap<>();
    }

    EnvList(EnvList l)
    {
        envMap = new HashMap<>(l.envMap);
    }

    /**
     * Set a name/value pair, null values will be treated as an empty String
     *
     * @param name the name
     * @param value the value
     */
    public void set(String name, String value)
    {
        envMap.put(name, name + "=" + StringUtil.nonNull(value));
    }

    /**
     * Get representation suitable for passing to exec.
     *
     * @return the env map as an array
     */
    public String[] getEnvArray()
    {

```



```

        return envMap.values().toArray(new String[envMap.size()]);
    }

    public String getExportString()
    {
        StringBuilder sb = new StringBuilder();
        for (String variable : getEnvArray())
        {
            sb.append("export \"");
            sb.append(variable);
            sb.append("\"");
        }
        return sb.toString();
    }

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

```

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# 1.175 jetty-utils 9.4.18.v20190429

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

Oracle

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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

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



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## Oracle OpenJDK

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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// =====  
//
```

```
package org.eclipse.jetty.webapp;
```

```
public class AbstractConfiguration implements Configuration  
{  
    @Override  
    public void preConfigure(WebAppContext context) throws Exception  
    {  
    }  
  
    @Override  
    public void configure(WebAppContext context) throws Exception  
    {  
    }  
  
    @Override  
    public void postConfigure(WebAppContext context) throws Exception  
    {  
    }  
  
    @Override  
    public void deconfigure(WebAppContext context) throws Exception  
    {  
    }  
}
```

```
}
```

```
@Override
```

```
public void destroy(WebApplicationContext context) throws Exception
```

```
{
```

```
}
```

```
@Override
```

```
public void cloneConfigure(WebApplicationContext template, WebApplicationContext context) throws Exception
```

```
{
```

```
}
```

```
}
```

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

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javac.mail.glassfish

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#### Oracle

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

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

-----

#### Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

#### OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

-----

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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//  
// =====  
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```

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// =====
//

package org.eclipse.jetty.xml;

import java.io.IOException;
import java.io.InputStream;
import java.io.StringReader;
import java.lang.reflect.Array;
import java.lang.reflect.Constructor;
import java.lang.reflect.Field;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.net.InetAddress;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.UnknownHostException;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.security.AccessController;
import java.security.PrivilegedExceptionAction;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Properties;
import java.util.Queue;
import java.util.ServiceLoader;
import java.util.Set;

import org.eclipse.jetty.util.LazyList;
import org.eclipse.jetty.util.Loader;
import org.eclipse.jetty.util.MultiException;
import org.eclipse.jetty.util.StringUtil;
import org.eclipse.jetty.util.TypeUtil;
import org.eclipse.jetty.util.component.Lifecycle;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.Resource;
import org.xml.sax.InputSource;
import org.xml.sax.SAXException;

```

```

/**
 * <p>Configures objects from XML.</p>
 * <p>This class reads an XML file conforming to the configure.dtd DTD
 * and uses it to configure and object by calling set, put or other methods on the object.</p>
 * <p>The actual XML file format may be changed (eg to spring XML) by implementing the
 * { @link ConfigurationProcessorFactory } interface to be found by the
 * { @link ServiceLoader } by using the DTD and first tag element in the file.
 * Note that DTD will be null if validation is off.</p>
 * <p>
 * The configuration can be parameterised with properties that are looked up via the
 * Property XML element and set on the configuration via the map returned from
 * { @link #getProperties()}</p>
 * <p>
 * The configuration can create and lookup beans by ID. If multiple configurations are used, then it
 * is good practise to copy the entries from the { @link #getIdMap()} of a configuration to the next
 * configuration so that they can share an ID space for beans.</p>
 */
public class XmlConfiguration
{
    private static final Logger LOG = Log.getLogger(XmlConfiguration.class);
    private static final Class<?>[] __primitives =
        { Boolean.TYPE, Character.TYPE, Byte.TYPE, Short.TYPE, Integer.TYPE, Long.TYPE, Float.TYPE,
Double.TYPE, Void.TYPE };
    private static final Class<?>[] __boxedPrimitives =
        { Boolean.class, Character.class, Byte.class, Short.class, Integer.class, Long.class, Float.class, Double.class,
Void.class };
    private static final Class<?>[] __supportedCollections =
        { ArrayList.class, HashSet.class, Queue.class, List.class, Set.class, Collection.class };
    private static final Iterable<ConfigurationProcessorFactory> __factoryLoader =
ServiceLoader.load(ConfigurationProcessorFactory.class);
    private static final XmlParser __parser = initParser();
    private static XmlParser initParser()
    {
        ClassLoader loader = XmlConfiguration.class.getClassLoader();
        XmlParser parser = new XmlParser();
        URL config60 = loader.getResource("org/eclipse/jetty/xml/configure_6_0.dtd");
        URL config76 = loader.getResource("org/eclipse/jetty/xml/configure_7_6.dtd");
        URL config90 = loader.getResource("org/eclipse/jetty/xml/configure_9_0.dtd");
        URL config93 = loader.getResource("org/eclipse/jetty/xml/configure_9_3.dtd");
        parser.redirectEntity("configure.dtd",config90);
        parser.redirectEntity("configure_1_0.dtd",config60);
        parser.redirectEntity("configure_1_1.dtd",config60);
        parser.redirectEntity("configure_1_2.dtd",config60);
        parser.redirectEntity("configure_1_3.dtd",config60);
        parser.redirectEntity("configure_6_0.dtd",config60);
        parser.redirectEntity("configure_7_6.dtd",config76);
        parser.redirectEntity("configure_9_0.dtd",config90);
    }
}

```

```

parser.redirectEntity("configure_9_3.dtd",config93);

parser.redirectEntity("http://jetty.mortbay.org/configure.dtd",config93);
parser.redirectEntity("http://jetty.eclipse.org/configure.dtd",config93);
parser.redirectEntity("http://www.eclipse.org/jetty/configure.dtd",config93);

parser.redirectEntity("-//Mort Bay Consulting//DTD Configure//EN",config93);
parser.redirectEntity("-//Jetty//Configure//EN",config93);

return parser;
}

/**
 * Set the standard IDs and properties expected in a jetty XML file:
 * <ul>
 * <li>RefId Server</li>
 * <li>Property jetty.home</li>
 * <li>Property jetty.home.uri</li>
 * <li>Property jetty.base</li>
 * <li>Property jetty.base.uri</li>
 * <li>Property jetty.webapps</li>
 * <li>Property jetty.webapps.uri</li>
 * </ul>
 * @param server The Server object to set
 * @param webapp The webapps Resource
 */
public void setJettyStandardIdsAndProperties(Object server, Resource webapp)
{
    try
    {
        if (server!=null)
            getIdMap().put("Server", server);

        Path home = Paths.get(System.getProperty("jetty.home", "."));
        getProperties().put("jetty.home",home.toString());
        getProperties().put("jetty.home.uri",normalizeURI(home.toUri().toASCIIString()));

        Path base = Paths.get(System.getProperty("jetty.base", home.toString()));
        getProperties().put("jetty.base",base.toString());
        getProperties().put("jetty.base.uri",normalizeURI(base.toUri().toASCIIString()));

        if (webapp!=null)
        {
            Path webappPath = webapp.getFile().toPath().toAbsolutePath();
            getProperties().put("jetty.webapp", webappPath.toString());
            getProperties().put("jetty.webapps", webappPath.getParent().toString());
            getProperties().put("jetty.webapps.uri", normalizeURI(webapp.getURI().toString()));
        }
    }
}

```

```

    }
    catch(Exception e)
    {
        LOG.warn(e);
    }
}

public static String normalizeURI(String uri)
{
    if (uri.endsWith("/"))
        return uri.substring(0,uri.length()-1);
    return uri;
}

private final Map<String, Object> _idMap = new HashMap<>();
private final Map<String, String> _propertyMap = new HashMap<>();
private final URL _url;
private final String _dtd;
private ConfigurationProcessor _processor;

/**
 * Reads and parses the XML configuration file.
 *
 * @param configuration the URL of the XML configuration
 * @throws IOException if the configuration could not be read
 * @throws SAXException if the configuration could not be parsed
 */
public XmlConfiguration(URL configuration) throws SAXException, IOException
{
    synchronized (__parser)
    {
        _url=configuration;
        setConfig(__parser.parse(configuration.toString()));
        _dtd=__parser.getDTD();
    }
}

/**
 * Reads and parses the XML configuration string.
 *
 * @param configuration String of XML configuration commands excluding the normal XML preamble.
 * The String should start with a "<Configure ....>" element.
 * @throws IOException if the configuration could not be read
 * @throws SAXException if the configuration could not be parsed
 */
public XmlConfiguration(String configuration) throws SAXException, IOException
{
    configuration = "<?xml version=\"1.0\" encoding=\"utf-8\"?>\n<!DOCTYPE Configure PUBLIC \"-

```

```

//Jetty//Configure//EN\" \"http://eclipse.org/jetty/configure.dtd\">
    + configuration;
    InputSource source = new InputSource(new StringReader(configuration));
    synchronized (__parser)
    {
        _url=null;
        setConfig( __parser.parse(source));
        _dtd=__parser.getDTD();
    }
}

/**
 * Reads and parses the XML configuration stream.
 *
 * @param configuration An input stream containing a complete configuration file
 * @throws IOException if the configuration could not be read
 * @throws SAXException if the configuration could not be parsed
 */
public XmlConfiguration(InputStream configuration) throws SAXException, IOException
{
    InputSource source = new InputSource(configuration);
    synchronized (__parser)
    {
        _url=null;
        setConfig(__parser.parse(source));
        _dtd=__parser.getDTD();
    }
}

private void setConfig(XmlParser.Node config)
{
    if ("Configure".equals(config.getTag()))
    {
        _processor=new JettyXmlConfiguration();
    }
    else if (__factoryLoader!=null)
    {
        for (ConfigurationProcessorFactory factory : __factoryLoader)
        {
            _processor = factory.getConfigurationProcessor(_dtd, config.getTag());
            if (_processor!=null)
                break;
        }

        if (_processor==null)
            throw new IllegalStateException("Unknown configuration type: "+config.getTag()+" in "+this);
    }
    else

```

```

    {
        throw new IllegalArgumentException("Unknown XML tag:"+config.getTag());
    }
    _processor.init(_url,config,this);
}

/* ----- */
/** Get the map of ID String to Objects that is used to hold
 * and lookup any objects by ID.
 * <p>
 * A New, Get or Call XML element may have an
 * id attribute which will cause the resulting object to be placed into
 * this map. A Ref XML element will lookup an object from this map.</p>
 * <p>
 * When chaining configuration files, it is good practise to copy the
 * ID entries from the ID map to the map of the next configuration, so
 * that they may share an ID space
 * </p>
 *
 * @return A modifiable map of ID strings to Objects
 */
public Map<String, Object> getIdMap()
{
    return _idMap;
}

/* ----- */
/**
 * Get the map of properties used by the Property XML element
 * to parameterise configuration.
 * @return A modifiable map of properties.
 */
public Map<String, String> getProperties()
{
    return _propertyMap;
}

/**
 * Applies the XML configuration script to the given object.
 *
 * @param obj The object to be configured, which must be of a type or super type
 * of the class attribute of the <Configure> element.
 * @throws Exception if the configuration fails
 * @return the configured object
 */
public Object configure(Object obj) throws Exception
{
    return _processor.configure(obj);
}

```



```

}

/**
 * Applies the XML configuration script.
 * If the root element of the configuration has an ID, an object is looked up by ID and its type checked
 * against the root element's type.
 * Otherwise a new object of the type specified by the root element is created.
 *
 * @return The newly created configured object.
 * @throws Exception if the configuration fails
 */
public Object configure() throws Exception
{
    return _processor.configure();
}

/* ----- */
/** Initialize a new Object defaults.
 * <p>This method must be called by any { @link ConfigurationProcessor } when it
 * creates a new instance of an object before configuring it, so that a derived
 * XmlConfiguration class may inject default values.
 * @param object the object to initialize defaults on
 */
public void initializeDefaults(Object object)
{
}

private static class JettyXmlConfiguration implements ConfigurationProcessor
{

    private String _url;
    XmlParser.Node _root;
    XmlConfiguration _configuration;

    @Override
    public void init(URL url, XmlParser.Node root, XmlConfiguration configuration)
    {
        _url=url==null?null:url.toString();
        _root=root;
        _configuration=configuration;
    }

    @Override
    public Object configure(Object obj) throws Exception
    {
        // Check the class of the object
        Class<?> oClass = nodeClass(_root);

```

```

    if (oClass != null && !oClass.isInstance(obj))
    {
        String loaders = (oClass.getClassLoader() == obj.getClass().getClassLoader()) ? "" : "Object Class and type
Class are from different loaders.";
        throw new IllegalArgumentException("Object of class '" + obj.getClass().getCanonicalName() + "' is not of
type '" + oClass.getCanonicalName() + "'. " + loaders + " in '" + _url);
    }
    String id = _root.getAttribute("id");
    if (id != null)
        _configuration.getIdMap().put(id, obj);
    configure(obj, _root, 0);
    return obj;
}

```

@Override

public Object configure() throws Exception

```

{
    Class<?> oClass = nodeClass(_root);

    String id = _root.getAttribute("id");
    Object obj = id == null ? null : _configuration.getIdMap().get(id);

    int index = 0;
    if (obj == null && oClass != null)
    {
        index = _root.size();
        Map<String, Object> namedArgMap = new HashMap<>();

        List<Object> arguments = new LinkedList<>();
        for (int i = 0; i < _root.size(); i++)
        {
            Object o = _root.get(i);
            if (o instanceof String)
            {
                continue;
            }
            XmlParser.Node node = (XmlParser.Node)o;

            if (!(node.getTag().equals("Arg")))
            {
                index = i;
                break;
            }
            else
            {
                String namedAttribute = node.getAttribute("name");
                Object value = value(obj, (XmlParser.Node)o);
                if (namedAttribute != null)

```

```

        namedArgMap.put(namedAttribute,value);
        arguments.add(value);
    }
}

try
{
    if (namedArgMap.size() > 0)
        obj = TypeUtil.construct(oClass, arguments.toArray(), namedArgMap);
    else
        obj = TypeUtil.construct(oClass, arguments.toArray());
}
catch (NoSuchMethodException x)
{
    throw new IllegalStateException(String.format("No constructor %s(%s,%s) in
%s",oClass,arguments,namedArgMap,_url));
}
}
if (id!=null)
    _configuration.getIdMap().put(id,obj);

_configuration.initializeDefaults(obj);
configure(obj, _root, index);
return obj;
}

private static Class<?> nodeClass(XmlParser.Node node) throws ClassNotFoundException
{
    String className = node.getAttribute("class");
    if (className == null)
        return null;

    return Loader.loadClass(className);
}

/**
 * Recursive configuration routine.
 * This method applies the nested Set, Put, Call, etc. elements to the given object.
 *
 * @param obj the object to configure
 * @param cfg the XML nodes of the configuration
 * @param i the index of the XML nodes
 * @throws Exception if the configuration fails
 */
public void configure(Object obj, XmlParser.Node cfg, int i) throws Exception
{
    // Object already constructed so skip any arguments
    for (; i < cfg.size(); i++)

```

```

{
    Object o = cfg.get(i);
    if (o instanceof String)
        continue;
    XmlParser.Node node = (XmlParser.Node)o;
    if ("Arg".equals(node.getTag()))
    {
        LOG.warn("Ignored arg: "+node);
        continue;
    }
    break;
}

```

// Process real arguments

```
for (; i < cfg.size(); i++)
```

```

{
    Object o = cfg.get(i);
    if (o instanceof String)
        continue;
    XmlParser.Node node = (XmlParser.Node)o;

```

```
try
```

```

{
    String tag = node.getTag();
    switch (tag)
    {
        case "Set":
            set(obj, node);
            break;
        case "Put":
            put(obj, node);
            break;
        case "Call":
            call(obj, node);
            break;
        case "Get":
            get(obj, node);
            break;
        case "New":
            newObj(obj, node);
            break;
        case "Array":
            newArray(obj, node);
            break;
        case "Map":
            newMap(obj,node);
            break;
        case "Ref":

```

```

        refObj(obj, node);
        break;
    case "Property":
        propertyObj(node);
        break;
    case "SystemProperty":
        systemPropertyObj(node);
        break;
    case "Env":
        envObj(node);
        break;
    default:
        throw new IllegalStateException("Unknown tag: " + tag + " in " + _url);
    }
}
catch (Exception e)
{
    LOG.warn("Config error at " + node,e.toString()+" in "+_url);
    throw e;
}
}
}

```

/\*

\* Call a set method. This method makes a best effort to find a matching set method. The type of the value is used to find a suitable set method by 1.

\* Trying for a trivial type match. 2. Looking for a native type match. 3. Trying all correctly named methods for an auto conversion. 4. Attempting to

\* construct a suitable value from original value. @param obj

\*

\* @param node

\*/

private void set(Object obj, XmlParser.Node node) throws Exception

```

{
    String attr = node.getAttribute("name");
    String name = "set" + attr.substring(0,1).toUpperCase(Locale.ENGLISH) + attr.substring(1);
    Object value = value(obj,node);
    Object[] arg =
    { value };

    Class<?> oClass = nodeClass(node);
    if (oClass != null)
        obj = null;
    else
        oClass = obj.getClass();

    Class<?>[] vClass =
    { Object.class };

```

```

if (value != null)
    vClass[0] = value.getClass();

if (LOG.isDebugEnabled())
    LOG.debug("XML " + (obj != null?obj.toString():oClass.getName()) + "." + name + "(" + value + ")");

MultiException me = new MultiException();

// Try for trivial match
try
{
    Method set = oClass.getMethod(name,vClass);
    set.invoke(obj,arg);
    return;
}
catch (IllegalArgumentException | IllegalAccessException | NoSuchMethodException e)
{
    LOG.ignore(e);
    me.add(e);
}

// Try for native match
try
{
    Field type = vClass[0].getField("TYPE");
    vClass[0] = (Class<?>)type.get(null);
    Method set = oClass.getMethod(name,vClass);
    set.invoke(obj,arg);
    return;
}
catch (NoSuchFieldException | IllegalArgumentException | IllegalAccessException |
NoSuchMethodException e)
{
    LOG.ignore(e);
    me.add(e);
}

// Try a field
try
{
    Field field = oClass.getField(attr);
    if (Modifier.isPublic(field.getModifiers()))
    {
        field.set(obj,value);
        return;
    }
}
catch (NoSuchFieldException e)

```

```

{
    LOG.ignore(e);
    me.add(e);
}

// Search for a match by trying all the set methods
Method[] sets = oClass.getMethods();
Method set = null;
String types = null;
for (int s = 0; sets != null && s < sets.length; s++)
{
    if (sets[s].getParameterCount()!=1)
        continue;
    Class<?>[] paramTypes = sets[s].getParameterTypes();
    if (name.equals(sets[s].getName()))
    {
        types = types==null?paramTypes[0].getName():(types+","+paramTypes[0].getName());
        // lets try it
        try
        {
            set = sets[s];
            sets[s].invoke(obj,arg);
            return;
        }
        catch (IllegalArgumentException | IllegalAccessException e)
        {
            LOG.ignore(e);
            me.add(e);
        }

        try
        {
            for (Class<?> c : __supportedCollections)
                if (paramTypes[0].isAssignableFrom(c))
                {
                    sets[s].invoke(obj,convertArrayToCollection(value,c));
                    return;
                }
        }
        catch (IllegalAccessException e)
        {
            LOG.ignore(e);
            me.add(e);
        }
    }
}

```

```

// Try converting the arg to the last set found.

```

```

if (set != null)
{
    try
    {
        Class<?> sClass = set.getParameterTypes()[0];
        if (sClass.isPrimitive())
        {
            for (int t = 0; t < __primitives.length; t++)
            {
                if (sClass.equals(__primitives[t]))
                {
                    sClass = __boxedPrimitives[t];
                    break;
                }
            }
        }
        Constructor<?> cons = sClass.getConstructor(vClass);
        arg[0] = cons.newInstance(arg);
        _configuration.initializeDefaults(arg[0]);
        set.invoke(obj,arg);
        return;
    }
    catch (NoSuchMethodException | IllegalAccessException | InstantiationException e)
    {
        LOG.ignore(e);
        me.add(e);
    }
}

// No Joy
String message = oClass + "." + name + "(" + vClass[0] + ")";
if (types!=null)
    message += ". Found setters for "+types;
throw new NoSuchMethodException(message)
{
    {
        for (int i=0; i<me.size(); i++)
            addSuppressed(me.getThrowable(i));
    }
};
}

/**
 * @param array the array to convert
 * @param collectionType the desired collection type
 * @return a collection of the desired type if the array can be converted
 */
private static Collection<?> convertArrayToCollection(Object array, Class<?> collectionType)

```



```

{
    Collection<?> collection = null;
    if (array.getClass().isArray())
    {
        if (collectionType.isAssignableFrom(ArrayList.class))
            collection = convertArrayToArrayList(array);
        else if (collectionType.isAssignableFrom(HashSet.class))
            collection = new HashSet<>(convertArrayToArrayList(array));
    }
    if (collection==null)
        throw new IllegalArgumentException("Can't convert \"" + array.getClass() + "\" to " + collectionType);
    return collection;
}

private static ArrayList<Object> convertArrayToArrayList(Object array)
{
    int length = Array.getLength(array);
    ArrayList<Object> list = new ArrayList<>(length);
    for (int i = 0; i < length; i++)
        list.add(Array.get(array,i));
    return list;
}

/*
 * Call a put method.
 *
 * @param obj @param node
 */
private void put(Object obj, XmlParser.Node node) throws Exception
{
    if (!(obj instanceof Map))
        throw new IllegalArgumentException("Object for put is not a Map: " + obj);
    @SuppressWarnings("unchecked")
    Map<Object, Object> map = (Map<Object, Object>)obj;

    String name = node.getAttribute("name");
    Object value = value(obj, node);
    map.put(name,value);
    if (LOG.isDebugEnabled())
        LOG.debug("XML " + obj + ".put(" + name + "," + value + ")");
}

/*
 * Call a get method. Any object returned from the call is passed to the configure method to consume the
remaining elements. @param obj @param node
 * If class attribute is given and the name is "class", then the class instance itself is returned.
 * @return @exception Exception
 */

```

```

private Object get(Object obj, XmlParser.Node node) throws Exception
{
    Class<?> oClass = nodeClass(node);
    if (oClass != null)
        obj = null;
    else
        oClass = obj.getClass();

    String name = node.getAttribute("name");
    String id = node.getAttribute("id");
    if (LOG.isDebugEnabled())
        LOG.debug("XML get " + name);

    try
    {
        // Handle getClass explicitly
        if ("class".equalsIgnoreCase(name))
            obj=oClass;
        else
        {
            // try calling a getXxx method.
            Method method = oClass.getMethod("get" + name.substring(0,1).toUpperCase(Locale.ENGLISH) +
name.substring(1),(java.lang.Class[])null);
            obj = method.invoke(obj,(java.lang.Object[])null);
        }
        if (id!=null)
            _configuration.getIdMap().put(id,obj);
        configure(obj,node,0);
    }
    catch (NoSuchMethodException nsme)
    {
        try
        {
            Field field = oClass.getField(name);
            obj = field.get(obj);
            configure(obj,node,0);
        }
        catch (NoSuchFieldException nsfe)
        {
            throw nsme;
        }
    }
    return obj;
}

```

/\*

\* Call a method. A method is selected by trying all methods with matching names and number of arguments.  
Any object returned from the call is passed to

\* the configure method to consume the remaining elements. Note that if this is a static call we consider only methods declared directly in the given

```
* class. i.e. we ignore any static methods in superclasses. @param obj
```

```
*
```

```
* @param node @return @exception Exception
```

```
*/
```

```
private Object call(Object obj, XmlParser.Node node) throws Exception
```

```
{
    AttrOrElementNode aoeNode=new AttrOrElementNode(obj,node,"Id","Name","Class","Arg");
    String id = aoeNode.getString("Id");
    String name = aoeNode.getString("Name");
    String clazz = aoeNode.getString("Class");
    List<Object> args = aoeNode.getList("Arg");

    Class<?> oClass;
    if (clazz!=null)
    {
        // static call
        oClass=Loader.loadClass(clazz);
        obj=null;
    }
    else if (obj!=null)
    {
        oClass = obj.getClass();
    }
    else
        throw new IllegalArgumentException(node.toString());

    if (LOG.isDebugEnabled())
        LOG.debug("XML call " + name);

    try
    {
        Object nobj= TypeUtil.call(oClass,name,obj,args.toArray(new Object[args.size()]));
        if (id != null)
            _configuration.getIdMap().put(id,nobj);
        configure(nobj,node,aoeNode.getNext());
        return nobj;
    }
    catch (NoSuchMethodException e)
    {
        IllegalStateException ise = new IllegalStateException("No Method: " + node + " on " + oClass);
        ise.initCause(e);
        throw ise;
    }
}
```

```

/*
 * Create a new value object.
 *
 * @param obj
 * @param node
 *
 * @return @exception Exception
 */
private Object newObj(Object obj, XmlParser.Node node) throws Exception
{
    AttrOrElementNode aoeNode=new AttrOrElementNode(obj,node,"Id","Class","Arg");
    String id = aoeNode.getString("Id");
    String clazz = aoeNode.getString("Class");
    List<XmlParser.Node> argNodes = aoeNode.getNodes("Arg");

    if (LOG.isDebugEnabled())
        LOG.debug("XML new " + clazz);

    Class<?> oClass = Loader.loadClass(clazz);

    // Find the <Arg> elements
    Map<String, Object> namedArgMap = new HashMap<>();
    List<Object> arguments = new LinkedList<>();
    for (XmlParser.Node child : argNodes)
    {
        String namedAttribute = child.getAttribute("name");
        Object value=value(obj,child);
        if (namedAttribute != null)
        {
            // named arguments
            namedArgMap.put(namedAttribute,value);
        }
        // raw arguments
        arguments.add(value);
    }

    Object nobj;
    try
    {
        if (namedArgMap.size() > 0)
        {
            LOG.debug("using named mapping");
            nobj = TypeUtil.construct(oClass, arguments.toArray(), namedArgMap);
        }
        else
        {
            LOG.debug("using normal mapping");
            nobj = TypeUtil.construct(oClass, arguments.toArray());
        }
    }
}

```

```

    }
}
catch (NoSuchMethodException e)
{
    throw new IllegalStateException("No suitable constructor: " + node + " on " + obj);
}

if (id != null)
    _configuration.getIdMap().put(id, nobj);

_configuration.initializeDefaults(nobj);
configure(nobj,node,aoeNode.getNext());
return nobj;
}

/*
 * Reference an id value object.
 *
 * @param obj @param node @return @exception NoSuchMethodException @exception
ClassNotFoundException @exception InvocationTargetException
 */
private Object refObj(Object obj, XmlParser.Node node) throws Exception
{
    String refid = node.getAttribute("refid");
    if (refid==null)
        refid = node.getAttribute("id");
    obj = _configuration.getIdMap().get(refid);
    if (obj == null && node.size(>0)
        throw new IllegalStateException("No object for refid=" + refid);
    configure(obj,node,0);
    return obj;
}

/*
 * Create a new array object.
 */
private Object newArray(Object obj, XmlParser.Node node) throws Exception
{
    AttrOrElementNode aoeNode=new AttrOrElementNode(obj,node,"Id","Type","Item");
    String id = aoeNode.getString("Id");
    String type = aoeNode.getString("Type");
    List<XmlParser.Node> items = aoeNode.getNodes("Item");

    // Get the type
    Class<?> aClass = java.lang.Object.class;
    if (type != null)
    {
        aClass = TypeUtil.fromName(type);
    }
}

```

```

if (aClass == null)
{
    switch (type)
    {
        case "String":
            aClass = String.class;
            break;
        case "URL":
            aClass = URL.class;
            break;
        case "InetAddress":
            aClass = InetAddress.class;
            break;
        default:
            aClass = Loader.loadClass(type);
            break;
    }
}
}

```

```
Object al = null;
```

```

for (XmlParser.Node item : items)
{
    String nid = item.getAttribute("id");
    Object v = value(obj,item);
    al = LazyList.add(al,(v == null && aClass.isPrimitive())?0:v);
    if (nid != null)
        _configuration.getIdMap().put(nid,v);
}

```

```

Object array = LazyList.toArray(al,aClass);
if (id != null)
    _configuration.getIdMap().put(id,array);
return array;
}

```

```
/*
```

```
* Create a new map object.
```

```
*/
```

```
private Object newMap(Object obj, XmlParser.Node node) throws Exception
```

```

{
    AttrOrElementNode aoeNode=new AttrOrElementNode(node,"Id","Entry");
    String id = aoeNode.getString("Id");
    List<XmlParser.Node> entries = aoeNode.getNodes("Entry");

```

```
Map<Object, Object> map = new HashMap<>();
```

```
if (id != null)
```

```

        _configuration.getIdMap().put(id, map);

for (XmlParser.Node entry : entries)
{
    if (!entry.getTag().equals("Entry"))
        throw new IllegalStateException("Not an Entry");

    XmlParser.Node key = null;
    XmlParser.Node value = null;

    for (Object object : entry)
    {
        if (object instanceof String)
            continue;
        XmlParser.Node item = (XmlParser.Node)object;
        if (!item.getTag().equals("Item"))
            throw new IllegalStateException("Not an Item");
        if (key == null)
            key = item;
        else
            value = item;
    }

    if (key == null || value == null)
        throw new IllegalStateException("Missing Item in Entry");
    String kid = key.getAttribute("id");
    String vid = value.getAttribute("id");

    Object k = value(obj, key);
    Object v = value(obj, value);
    map.put(k, v);

    if (kid != null)
        _configuration.getIdMap().put(kid, k);
    if (vid != null)
        _configuration.getIdMap().put(vid, v);
}

return map;
}

/*
 * Get a Property.
 *
 * @param node
 * @return
 * @exception Exception
 */

```

```

private Object propertyObj(XmlParser.Node node) throws Exception
{
    AttrOrElementNode aoeNode=new AttrOrElementNode(node,"Id","Name","Deprecated","Default");
    String id = aoeNode.getString("Id");
    String name = aoeNode.getString("Name",true);
    List<Object> deprecated = aoeNode.getList("Deprecated");
    String dftValue = aoeNode.getString("Default");

    // Look for a value
    Map<String,String> properties = _configuration.getProperties();
    String value = properties.get(name);

    // Look for a deprecated name value

    String alternate=null;
    if (!deprecated.isEmpty())
    {
        for (Object d : deprecated)
        {
            String v = properties.get(StringUtil.valueOf(d));
            if (v!=null)
            {
                if (value==null)
                    LOG.warn("Property '{}' is deprecated, use '{}' instead", d, name);
                else
                    LOG.warn("Property '{}' is deprecated, value from '{}' used", d, name);
            }
            if (alternate==null)
                alternate=v;;
        }
    }

    // use alternate from deprecated
    if (value==null)
        value=alternate;

    // use default value
    if (value==null)
        value=dftValue;

    // Set value if ID set
    if (id != null)
        _configuration.getIdMap().put(id, value);
    return value;
}

/*
 * Get a SystemProperty.

```



```

*
* @param node
* @return
* @exception Exception
*/
private Object systemPropertyObj(XmlParser.Node node) throws Exception
{
    AttrOrElementNode aoeNode=new AttrOrElementNode(node,"Id","Name","Deprecated","Default");
    String id = aoeNode.getString("Id");
    String name = aoeNode.getString("Name",true);
    List<Object> deprecated = aoeNode.getList("Deprecated");
    String dftValue = aoeNode.getString("Default");

    // Look for a value
    String value = System.getProperty(name);

    // Look for a deprecated name value
    String alternate=null;
    if (!deprecated.isEmpty())
    {
        for (Object d : deprecated)
        {
            String v = System.getProperty(StringUtil.valueOf(d));
            if (v!=null)
            {
                if (value==null)
                    LOG.warn("SystemProperty '{}' is deprecated, use '{}' instead", d, name);
                else
                    LOG.warn("SystemProperty '{}' is deprecated, value from '{}' used", d, name);
            }
            if (alternate==null)
                alternate=v;;
        }
    }

    // use alternate from deprecated
    if (value==null)
        value=alternate;

    // use default value
    if (value==null)
        value=dftValue;

    // Set value if ID set
    if (id != null)
        _configuration.getIdMap().put(id, value);

    return value;
}

```

```

}

/*
 * Get a Environment Property.
 *
 * @param node
 * @return
 * @exception Exception
 */
private Object envObj(XmlParser.Node node) throws Exception
{
    AttrOrElementNode aoeNode=new AttrOrElementNode(node,"Id","Name","Deprecated","Default");
    String id = aoeNode.getString("Id");
    String name = aoeNode.getString("Name",true);
    List<Object> deprecated = aoeNode.getList("Deprecated");
    String dftValue = aoeNode.getString("Default");

    // Look for a value
    String value = System.getenv(name);

    // Look for a deprecated name value
    if (value==null && !deprecated.isEmpty())
    {
        for (Object d : deprecated)
        {
            value = System.getenv(StringUtil.valueOf(d));
            if (value!=null)
            {
                LOG.warn("Property '{}' is deprecated, use '{}' instead", d, name);
                break;
            }
        }
    }

    // use default value
    if (value==null)
        value=dftValue;

    // Set value if ID set
    if (id != null)
        _configuration.getIdMap().put(id, value);

    return value;
}

/*
 * Get the value of an element. If no value type is specified, then white space is trimmed out of the value. If it
contains multiple value elements they

```

```

* are added as strings before being converted to any specified type. @param node
*/
private Object value(Object obj, XmlParser.Node node) throws Exception
{
    Object value;

    // Get the type
    String type = node.getAttribute("type");

    // Try a ref lookup
    String ref = node.getAttribute("ref");
    if (ref != null)
    {
        value = _configuration.getIdMap().get(ref);
    }
    else
    {
        // handle trivial case
        if (node.size() == 0)
        {
            if ("String".equals(type))
                return "";
            return null;
        }

        // Trim values
        int first = 0;
        int last = node.size() - 1;

        // Handle default trim type
        if (type == null || !"String".equals(type))
        {
            // Skip leading white
            Object item;
            while (first <= last)
            {
                item = node.get(first);
                if (!(item instanceof String))
                    break;
                item = ((String)item).trim();
                if (((String)item).length() > 0)
                    break;
                first++;
            }

            // Skip trailing white
            while (first < last)
            {

```

```

        item = node.get(last);
        if (!(item instanceof String))
            break;
        item = ((String)item).trim();
        if (((String)item).length() > 0)
            break;
        last--;
    }

    // All white, so return null
    if (first > last)
        return null;
}

if (first == last)
    // Single Item value
    value = itemValue(obj,node.get(first));
else
{
    // Get the multiple items as a single string
    StringBuilder buf = new StringBuilder();
    for (int i = first; i <= last; i++)
    {
        Object item = node.get(i);
        buf.append(itemValue(obj,item));
    }
    value = buf.toString();
}
}

// Untyped or unknown
if (value == null)
{
    if ("String".equals(type))
        return "";
    return null;
}

// Try to type the object
if (type == null)
{
    if (value instanceof String)
        return ((String)value).trim();
    return value;
}

if (isTypeMatchingClass(type,String.class))
    return value.toString();

```

```

Class<?> pClass = TypeUtil.fromName(type);
if (pClass != null)
    return TypeUtil.valueOf(pClass,value.toString());

if (isTypeMatchingClass(type,URL.class))
{
    if (value instanceof URL)
        return value;
    try
    {
        return new URL(value.toString());
    }
    catch (MalformedURLException e)
    {
        throw new InvocationTargetException(e);
    }
}

if (isTypeMatchingClass(type,InetAddress.class))
{
    if (value instanceof InetAddress)
        return value;
    try
    {
        return InetAddress.getByName(value.toString());
    }
    catch (UnknownHostException e)
    {
        throw new InvocationTargetException(e);
    }
}

for (Class<?> collectionClass : __supportedCollections)
{
    if (isTypeMatchingClass(type,collectionClass))
        return convertArrayToCollection(value,collectionClass);
}

throw new IllegalStateException("Unknown type " + type);
}

private static boolean isTypeMatchingClass(String type, Class<?> classToMatch)
{
    return classToMatch.getSimpleName().equalsIgnoreCase(type) || classToMatch.getName().equals(type);
}

/*

```

```

* Get the value of a single element. @param obj @param item @return @exception Exception
*/
private Object itemValue(Object obj, Object item) throws Exception
{
    // String value
    if (item instanceof String)
        return item;

    XmlParser.Node node = (XmlParser.Node)item;
    String tag = node.getTag();
    if ("Call".equals(tag))
        return call(obj,node);
    if ("Get".equals(tag))
        return get(obj,node);
    if ("New".equals(tag))
        return newObj(obj,node);
    if ("Ref".equals(tag))
        return refObj(obj,node);
    if ("Array".equals(tag))
        return newArray(obj,node);
    if ("Map".equals(tag))
        return newMap(obj,node);
    if ("Property".equals(tag))
        return propertyObj(node);
    if ("SystemProperty".equals(tag))
        return systemPropertyObj(node);
    if ("Env".equals(tag))
        return envObj(node);

    LOG.warn("Unknown value tag: " + node,new Throwable());
    return null;
}

private class AttrOrElementNode
{
    final Object _obj;
    final XmlParser.Node _node;
    final Set<String> _elements = new HashSet<>();
    final int _next;

    AttrOrElementNode(XmlParser.Node node,String... elements )
    {
        this(null,node,elements);
    }

    AttrOrElementNode(Object obj, XmlParser.Node node,String... elements )
    {

```

```

_obj=obj;
_node=node;
for (String e:elements)
    _elements.add(e);

int next=0;
for (Object o: _node)
{
    if (o instanceof String)
    {
        if (((String)o).trim().length()==0)
        {
            next++;
            continue;
        }
        break;
    }

    if (!(o instanceof XmlParser.Node))
        break;

    XmlParser.Node n = (XmlParser.Node)o;
    if (!_elements.contains(n.getTag()))
        break;

    next++;
}
_next=next;
}

public int getNext()
{
    return _next;
}

public String getString(String elementName) throws Exception
{
    return StringUtil.valueOf(get(elementName,false));
}

public String getString(String elementName, boolean mandatory) throws Exception
{
    return StringUtil.valueOf(get(elementName,mandatory));
}

public Object get(String elementName, boolean mandatory) throws Exception
{
    String attrName=StringUtil.asciiToLowerCase(elementName);

```

```

String attr = _node.getAttribute(attrName);
Object value=attr;

for (int i=0;i<_next;i++)
{
    Object o = _node.get(i);
    if (!(o instanceof XmlParser.Node))
        continue;
    XmlParser.Node n = (XmlParser.Node)o;
    if (elementName.equals(n.getTag()))
    {
        if (attr!=null)
            throw new IllegalStateException("Cannot have attr '"+attrName+"' and element
            '"+elementName+"'");

        value=value(_obj,n);
        break;
    }
}

if (mandatory && value==null)
    throw new IllegalStateException("Must have attr '"+attrName+"' or element '"+elementName+"'");

return value;
}

public List<Object> getList(String elementName) throws Exception
{
    return getList(elementName,false);
}

public List<Object> getList(String elementName, boolean mandatory) throws Exception
{
    String attrName=StringUtil.asciiToLowerCase(elementName);
    final List<Object> values=new ArrayList<>();

    String attr = _node.getAttribute(attrName);
    if (attr!=null)
        values.addAll(StringUtil.csvSplit(null,attr,0,attr.length()));

    for (int i=0;i<_next;i++)
    {
        Object o = _node.get(i);
        if (!(o instanceof XmlParser.Node))
            continue;
        XmlParser.Node n = (XmlParser.Node)o;

```



```

        if (elementName.equals(n.getTag()))
        {
            if (attr!=null)
                throw new IllegalStateException("Cannot have attr '"+attrName+"' and element
"+elementName+"'");

            values.add(value(_obj,n));
        }
    }

    if (mandatory && values.isEmpty())
        throw new IllegalStateException("Must have attr '"+attrName+"' or element '"+elementName+"'");

    return values;
}

public List<XmlParser.Node> getNodes(String elementName) throws Exception
{
    String attrName=StringUtil.asciiToLowerCase(elementName);
    final List<XmlParser.Node> values=new ArrayList<>();

    String attr = _node.getAttribute(attrName);
    if (attr!=null)
    {
        for (String a : StringUtil.csvSplit(null,attr,0,attr.length()))
        {
            // create a fake node
            XmlParser.Node n = new XmlParser.Node(null,elementName,null);
            n.add(a);
            values.add(n);
        }
    }

    for (int i=0;i<_next;i++)
    {
        Object o = _node.get(i);
        if (!(o instanceof XmlParser.Node))
            continue;
        XmlParser.Node n = (XmlParser.Node)o;

        if (elementName.equals(n.getTag()))
        {
            if (attr!=null)
                throw new IllegalStateException("Cannot have attr '"+attrName+"' and element
"+elementName+"'");

            values.add(n);
        }
    }
}

```

```

    }

    return values;
}
}
}

/**
 * Run the XML configurations as a main application. The command line is used to obtain properties files (must
 * be named '*.properties') and XmlConfiguration
 * files.
 * <p>
 * Any property file on the command line is added to a combined Property instance that is passed to each
 * configuration file via
 * {@link XmlConfiguration#getProperties()}.
 * <p>
 * Each configuration file on the command line is used to create a new XmlConfiguration instance and the {@link
 * XmlConfiguration#configure()} method is used
 * to create the configured object. If the resulting object is an instance of {@link Lifecycle}, then it is started.
 * <p>
 * Any IDs created in a configuration are passed to the next configuration file on the command line using {@link
 * #getIdMap()}.
 * This allows objects with IDs created in one config file to be referenced in subsequent config files on the
 * command line.
 *
 * @param args
 *      array of property and xml configuration filenames or {@link Resource}s.
 * @throws Exception if the XML configurations cannot be run
 */
public static void main(final String... args) throws Exception
{
    try
    {
        AccessController.doPrivileged(new PrivilegedExceptionAction<Void>()
        {
            @Override
            public Void run() throws Exception
            {
                Properties properties = null;

                // If no start.config properties, use clean slate
                if (properties == null)
                {
                    // Add System Properties
                    properties = new Properties();
                    properties.putAll(System.getProperties());
                }
            }
        });
    }
}

```

```

// For all arguments, load properties
for (String arg : args)
{
    if (arg.indexOf('=')>=0)
    {
        int i=arg.indexOf('=');
        properties.put(arg.substring(0,i),arg.substring(i+1));
    }
    else if (arg.toLowerCase(Locale.ENGLISH).endsWith(".properties"))
        properties.load(Resource.newResource(arg).getInputStream());
}

// For all arguments, parse XMLs
XmlConfiguration last = null;
List<Object> objects = new ArrayList<>(args.length);
for (int i = 0; i < args.length; i++)
{
    if (!args[i].toLowerCase(Locale.ENGLISH).endsWith(".properties") && (args[i].indexOf('=')<0))
    {
        XmlConfiguration configuration = new
XmlConfiguration(Resource.newResource(args[i]).getURI().toURL());
        if (last != null)
            configuration.getIdMap().putAll(last.getIdMap());
        if (properties.size() > 0)
        {
            Map<String, String> props = new HashMap<>();
            for (Object key : properties.keySet())
            {
                props.put(key.toString(),String.valueOf(properties.get(key)));
            }
            configuration.getProperties().putAll(props);
        }

        Object obj = configuration.configure();
        if (obj!=null && !objects.contains(obj))
            objects.add(obj);
        last = configuration;
    }
}

// For all objects created by XmlConfigurations, start them if they are lifecycles.
for (Object obj : objects)
{
    if (obj instanceof LifeCycle)
    {
        LifeCycle lc = (LifeCycle)obj;
        if (!lc.isRunning())
            lc.start();
    }
}

```

```

        }
    }

    return null;
}
});
}
catch (Error|Exception e)
{
    LOG.warn(e);
    throw e;
}
}
}

```

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## **1.179 jna 4.5.0**

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## 1.183 jquery-highlight 5

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## 1.195 json-simple 1.1.1

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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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  
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
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# 1.217 maven-artifact 3.6.0

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## 1.218 maven-artifact-manager 2.2.1

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## 1.219 maven-model 2.2.1

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```
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*/

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 $Revision$ $Date$
 */
public class Contributor
    implements java.io.Serializable
{

    //-----/
    //- 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. This is a number in the
 * range -11 to 12.
 */
private String timezone;

/**
 * Field properties.
 */
private java.util.Properties properties;

//-----/
// - 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 )
{
    if ( !(string instanceof String) )
    {
        throw new ClassCastException( "Contributor.addRoles(string) parameter must be instanceof " +
String.class.getName() );
    }
    getRoles().add( string );
}

```

```

} //-- void addRole( String )

/**
 * Get the email address of the contributor.
 *
 * @return String
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
 * 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. This is a number in
 * the range -11 to 12.
 *
 * @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 )
    {
        if ( !(string instanceof String) )
        {
            throw new ClassCastException( "Contributor.removeRoles(string) parameter must be instanceof " +
String.class.getName() );
        }
        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 )

/**
 * 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. This is a number in
 * the range -11 to 12.
 *
 * @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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 * 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 $Revision$ $Date$
 */
public class License
    implements java.io.Serializable
{
    /**
     * -----/
     * - 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;

    //-----/
    //- Methods -/
    //-----/

/**
 * 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()

/**
 * 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 )

/**
 * 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 )

}

```

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## 1.233 mysema-commons-lang 0.2.4

## 1.234 neethi 3.1.1

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## 1.235 neko-htmlunit 2.33

## 1.236 objenesis 2.6

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## 1.238 org.jacoco.agent-0.8.2-runtime 0.8.2

## 1.239 org.jacoco.core 0.8.2

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\* Marc R. Hoffmann - initial API and implementation

\*

\*\*\*\*\*/

/\*\*

\* Representation and persistence of execution data and session information.

\*/

package org.jacoco.core.data;

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## **1.240 org.jacoco.report0.8 0.8.2**

## **1.241 osgi-resource-locator 1.0.1**



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```

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*/
/**
* [oshi-core API] Provides a cross-platform implementation to retrieve
* Operating System and Hardware Information, such as OS version, memory, CPU,
* disk, devices, sensors, etc.
*/
package oshi;

```

## 1.243 pecoff4j 0.0.1

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# 1.249 plexus-interpolation 1.11

## 1.250 plexus-utils 3.0.22

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# 1.252 postgresql 10.6.1

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```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!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>33.12.Notice Processing</title><link rel="stylesheet" type="text/css" href="stylesheet.css"
/><link rev="made" href="pgsql-docs@postgresql.org" /><meta name="generator" content="DocBook XSL
Stylesheets V1.79.1" /><link rel="prev" href="libpq-misc.html" title="33.11.Miscellaneous Functions" /><link
rel="next" href="libpq-events.html" title="33.13.Event System" /></head><body><div
xmlns="http://www.w3.org/TR/xhtml1/transitional" class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="5" align="center">33.12.Notice Processing</th></tr><tr><td
width="10%" align="left"><a accesskey="p" href="libpq-misc.html" title="33.11.Miscellaneous
Functions">Prev</a></td><td width="10%" align="left"><a accesskey="u" href="libpq.html"
title="Chapter33.libpq - C Library">Up</a></td><th width="60%" align="center">Chapter33.<span
xmlns="http://www.w3.org/1999/xhtml" class="application">libpq</span> - C Library</th><td width="10%"
align="right"><a accesskey="h" href="index.html" title="PostgreSQL 10.6 Documentation">Home</a></td><td
width="10%" align="right"><a accesskey="n" href="libpq-events.html" title="33.13.Event
System">Next</a></td></tr></table><hr/></div><div class="sect1" id="LIBPQ-NOTICE-
PROCESSING"><div class="titlepage"><div><div><h2 class="title" style="clear: both">33.12.Notice
Processing</h2></div></div></div><a id="id-1.7.3.19.2" class="indexterm"></a><p> Notice and warning
messages generated by the server are not returned
```



by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on

`<code class="filename">stderr</code>`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver`

[sets or examines the current notice receiver for a connection object.](#)

[Similarly, `PQsetNoticeProcessor`](#)

[sets or examines the current notice processor.](#)

`PQsetNoticeReceiver`

[sets or examines the current notice receiver for a connection object.](#)

[Similarly, `PQsetNoticeProcessor`](#)

[sets or examines the current notice processor.](#)

```
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
```

PQnoticeReceiver

```
PQsetNoticeReceiver(PGconn *conn,  
                   PQnoticeReceiver proc,  
                   void *arg);
```

```
typedef void (*PQnoticeProcessor) (void *arg, const char *message);
```

PQnoticeProcessor

```
PQsetNoticeProcessor(PGconn *conn,  
                    PQnoticeProcessor proc,  
                    void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` `PGresult`. (This allows the receiver to extract individual fields using `PQresultErrorField`, or obtain a complete preformatted message using `PQresultErrorMessage` or `PQresultVerboseErrorMessage`.) The same void pointer passed to `PQsetNoticeReceiver` is also

passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `PQsetNoticeProcessor`. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `PGresult` objects made from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

---

|                                |                      |                      |
|--------------------------------|----------------------|----------------------|
| <a href="#">Prev</a>           | <a href="#">Up</a>   | <a href="#">Next</a> |
| 33.11. Miscellaneous Functions | <a href="#">Home</a> | 33.13. Event System  |

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## 1.253 prettytime 4.0.1.Final

## 1.254 quartz 2.3.1

## 1.255 querydsl-apt 4.2.1

### 1.255.1 Available under license :

```
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 * under the License.
 */

package org.quartz;

import java.util.Date;
import java.util.List;
```

```

import java.util.Map;
import java.util.Set;

import org.quartz.Trigger.TriggerState;
import org.quartz.impl.matchers.GroupMatcher;
import org.quartz.spi.JobFactory;
import org.quartz.utils.Key;

/**
 * This is the main interface of a Quartz Scheduler.
 *
 * <p>
 * A Scheduler maintains a registry of { @link org.quartz.JobDetail }s
 * and { @link Trigger }s. Once registered, the Scheduler
 * is responsible for executing Job s when their associated
 * Trigger s fire (when their scheduled time arrives).
 * </p>
 *
 * <p>
 * Scheduler instances are produced by a { @link SchedulerFactory }.
 * A scheduler that has already been created/initialized can be found and used
 * through the same factory that produced it. After a Scheduler
 * has been created, it is in "stand-by" mode, and must have its
 * start() method called before it will fire any Jobs.
 * </p>
 *
 * <p>
 * Job s are to be created by the 'client program', by defining
 * a class that implements the { @link org.quartz.Job }
 * interface. { @link JobDetail } objects are then created (also
 * by the client) to define a individual instances of the Job.
 * JobDetail instances can then be registered with the Scheduler
 * via the scheduleJob(JobDetail, Trigger) or addJob(JobDetail, boolean)
 * method.
 * </p>
 *
 * <p>
 * Trigger s can then be defined to fire individual Job
 * instances based on given schedules. SimpleTrigger s are most
 * useful for one-time firings, or firing at an exact moment in time, with N
 * repeats with a given delay between them. CronTrigger s allow
 * scheduling based on time of day, day of week, day of month, and month of
 * year.
 * </p>
 *
 * <p>
 * Job s and Trigger s have a name and group
 * associated with them, which should uniquely identify them within a single

```

```

* <code>{@link Scheduler}</code>. The 'group' feature may be useful for
* creating logical groupings or categorizations of <code>Jobs</code> s and
* <code>Triggers</code>s. If you don't have need for assigning a group to a
* given <code>Jobs</code> of <code>Triggers</code>, then you can use the
* <code>DEFAULT_GROUP</code> constant defined on this interface.
* </p>
*
* <p>
* Stored <code>Job</code> s can also be 'manually' triggered through the use
* of the <code>triggerJob(String jobName, String jobGroup)</code> function.
* </p>
*
* <p>
* Client programs may also be interested in the 'listener' interfaces that are
* available from Quartz. The <code>{@link JobListener}</code> interface
* provides notifications of <code>Job</code> executions. The <code>{@link TriggerListener}</code>
* interface provides notifications of <code>Trigger</code> firings. The
* <code>{@link SchedulerListener}</code> interface provides notifications of
* <code>Scheduler</code> events and errors. Listeners can be associated with
* local schedulers through the {@link ListenerManager} interface.
* </p>
*
* <p>
* The setup/configuration of a <code>Scheduler</code> instance is very
* customizable. Please consult the documentation distributed with Quartz.
* </p>
*
* @see Job
* @see JobDetail
* @see JobBuilder
* @see Trigger
* @see TriggerBuilder
* @see JobListener
* @see TriggerListener
* @see SchedulerListener
*
* @author James House
* @author Sharada Jambula
*/
public interface Scheduler {

    /*
    * ~~~~~
    *
    * Constants.
    *
    * ~~~~~
    */

```

```

/**
 * A (possibly) useful constant that can be used for specifying the group
 * that Job and Trigger instances belong to.
 */
String DEFAULT_GROUP = Key.DEFAULT_GROUP;

/**
 * A constant Trigger group name used internally by the
 * scheduler - clients should not use the value of this constant
 * ("RECOVERING_JOBS") for the name of a Trigger's group.
 *
 * @see org.quartz.JobDetail#requestsRecovery()
 */
String DEFAULT_RECOVERY_GROUP = "RECOVERING_JOBS";

/**
 * A constant Trigger group name used internally by the
 * scheduler - clients should not use the value of this constant
 * ("FAILED_OVER_JOBS") for the name of a Trigger's group.
 *
 * @see org.quartz.JobDetail#requestsRecovery()
 */
String DEFAULT_FAIL_OVER_GROUP = "FAILED_OVER_JOBS";

/**
 * A constant JobDataMap key that can be used to retrieve the
 * name of the original Trigger from a recovery trigger's
 * data map in the case of a job recovering after a failed scheduler
 * instance.
 *
 * @see org.quartz.JobDetail#requestsRecovery()
 */
String FAILED_JOB_ORIGINAL_TRIGGER_NAME = "QRTZ_FAILED_JOB_ORIG_TRIGGER_NAME";

/**
 * A constant JobDataMap key that can be used to retrieve the
 * group of the original Trigger from a recovery trigger's
 * data map in the case of a job recovering after a failed scheduler
 * instance.
 *
 * @see org.quartz.JobDetail#requestsRecovery()
 */
String FAILED_JOB_ORIGINAL_TRIGGER_GROUP = "QRTZ_FAILED_JOB_ORIG_TRIGGER_GROUP";

/**
 * A constant JobDataMap key that can be used to retrieve the

```

```

* fire time of the original <code>Trigger</code> from a recovery
* trigger's data map in the case of a job recovering after a failed scheduler
* instance.
*
* <p>Note that this is the time the original firing actually occurred,
* which may be different from the scheduled fire time - as a trigger doesn't
* always fire exactly on time.</p>
*
* @see org.quartz.JobDetail#requestsRecovery()
*/
String FAILED_JOB_ORIGINAL_TRIGGER_FIRETIME_IN_MILLISECONDS =
"QRTZ_FAILED_JOB_ORIG_TRIGGER_FIRETIME_IN_MILLISECONDS_AS_STRING";

/**
* A constant <code>JobDataMap</code> key that can be used to retrieve the
* scheduled fire time of the original <code>Trigger</code> from a recovery
* trigger's data map in the case of a job recovering after a failed scheduler
* instance.
*
* <p>Note that this is the time the original firing was scheduled for,
* which may be different from the actual firing time - as a trigger doesn't
* always fire exactly on time.</p>
*
* @see org.quartz.JobDetail#requestsRecovery()
*/
String FAILED_JOB_ORIGINAL_TRIGGER_SCHEDULED_FIRETIME_IN_MILLISECONDS =
"QRTZ_FAILED_JOB_ORIG_TRIGGER_SCHEDULED_FIRETIME_IN_MILLISECONDS_AS_STRING";

/*
* ~~~~~
*
* Interface.
*
* ~~~~~
*/

/**
* Returns the name of the <code>Scheduler</code>.
*/
String getSchedulerName() throws SchedulerException;

/**
* Returns the instance Id of the <code>Scheduler</code>.
*/
String getSchedulerInstanceId() throws SchedulerException;

/**
* Returns the <code>SchedulerContext</code> of the <code>Scheduler</code>.

```



```

*/
SchedulerContext getContext() throws SchedulerException;

////////////////////////////////////
///
/// Scheduler State Management Methods
///
////////////////////////////////////

/**
 * Starts the <code>Scheduler</code>'s threads that fire <code>{@link Trigger}s</code>.
 * When a scheduler is first created it is in "stand-by" mode, and will not
 * fire triggers. The scheduler can also be put into stand-by mode by
 * calling the <code>standby()</code> method.
 *
 * <p>
 * The misfire/recovery process will be started, if it is the initial call
 * to this method on this scheduler instance.
 * </p>
 *
 * @throws SchedulerException
 *     if <code>shutdown()</code> has been called, or there is an
 *     error within the <code>Scheduler</code>.
 *
 * @see #startDelayed(int)
 * @see #standby()
 * @see #shutdown()
 */
void start() throws SchedulerException;

/**
 * Calls {#start()} after the indicated number of seconds.
 * (This call does not block). This can be useful within applications that
 * have initializers that create the scheduler immediately, before the
 * resources needed by the executing jobs have been fully initialized.
 *
 * @throws SchedulerException
 *     if <code>shutdown()</code> has been called, or there is an
 *     error within the <code>Scheduler</code>.
 *
 * @see #start()
 * @see #standby()
 * @see #shutdown()
 */
void startDelayed(int seconds) throws SchedulerException;

/**
 * Whether the scheduler has been started.

```

```

*
* <p>
* Note: This only reflects whether <code>{@link #start()}</code> has ever
* been called on this Scheduler, so it will return <code>>true</code> even
* if the <code>Scheduler</code> is currently in standby mode or has been
* since shutdown.
* </p>
*
* @see #start()
* @see #isShutdown()
* @see #isInStandbyMode()
*/
boolean isStarted() throws SchedulerException;

/**
* Temporarily halts the <code>Scheduler</code>'s firing of <code>{@link Trigger}s</code>.
*
* <p>
* When <code>start()</code> is called (to bring the scheduler out of
* stand-by mode), trigger misfire instructions will NOT be applied
* during the execution of the <code>start()</code> method - any misfires
* will be detected immediately afterward (by the <code>JobStore</code>'s
* normal process).
* </p>
*
* <p>
* The scheduler is not destroyed, and can be re-started at any time.
* </p>
*
* @see #start()
* @see #pauseAll()
*/
void standby() throws SchedulerException;

/**
* Reports whether the <code>Scheduler</code> is in stand-by mode.
*
* @see #standby()
* @see #start()
*/
boolean isInStandbyMode() throws SchedulerException;

/**
* Halts the <code>Scheduler</code>'s firing of <code>{@link Trigger}s</code>,
* and cleans up all resources associated with the Scheduler. Equivalent to
* <code>shutdown(false)</code>.
*
* <p>

```

```

* The scheduler cannot be re-started.
* </p>
*
* @see #shutdown(boolean)
*/
void shutdown() throws SchedulerException;

/**
* Halts the <code>Scheduler</code>'s firing of <code>{@link Trigger}s</code>,
* and cleans up all resources associated with the Scheduler.
*
* <p>
* The scheduler cannot be re-started.
* </p>
*
* @param waitForJobsToComplete
*     if <code>>true</code> the scheduler will not allow this method
*     to return until all currently executing jobs have completed.
*
* @see #shutdown
*/
void shutdown(boolean waitForJobsToComplete)
    throws SchedulerException;

/**
* Reports whether the <code>Scheduler</code> has been shutdown.
*/
boolean isShutdown() throws SchedulerException;

/**
* Get a <code>SchedulerMetaData</code> object describing the settings
* and capabilities of the scheduler instance.
*
* <p>
* Note that the data returned is an 'instantaneous' snap-shot, and that as
* soon as it's returned, the meta data values may be different.
* </p>
*/
SchedulerMetaData getMetaData() throws SchedulerException;

/**
* Return a list of <code>JobExecutionContext</code> objects that
* represent all currently executing Jobs in this Scheduler instance.
*
* <p>
* This method is not cluster aware. That is, it will only return Jobs
* currently executing in this Scheduler instance, not across the entire
* cluster.

```

```

* </p>
*
* <p>
* Note that the list returned is an 'instantaneous' snap-shot, and that as
* soon as it's returned, the true list of executing jobs may be different.
* Also please read the doc associated with <code>JobExecutionContext</code>-
* especially if you're using RMI.
* </p>
*
* @see JobExecutionContext
*/
List<JobExecutionContext> getCurrentlyExecutingJobs() throws SchedulerException;

/**
 * Set the <code>JobFactory</code> that will be responsible for producing
 * instances of <code>Job</code> classes.
 *
 * <p>
 * JobFactories may be of use to those wishing to have their application
 * produce <code>Job</code> instances via some special mechanism, such as to
 * give the opportunity for dependency injection.
 * </p>
 *
 * @see org.quartz.spi.JobFactory
 */
void setJobFactory(JobFactory factory) throws SchedulerException;

/**
 * Get a reference to the scheduler's <code>ListenerManager</code>,
 * through which listeners may be registered.
 *
 * @return the scheduler's <code>ListenerManager</code>
 * @throws SchedulerException if the scheduler is not local
 * @see ListenerManager
 * @see JobListener
 * @see TriggerListener
 * @see SchedulerListener
 */
ListenerManager getListenerManager() throws SchedulerException;

////////////////////////////////////
///
/// Scheduling-related Methods
///
////////////////////////////////////

/**

```

```

* Add the given <code>{@link org.quartz.JobDetail}</code> to the
* Scheduler, and associate the given <code>{@link Trigger}</code> with
* it.
*
* <p>
* If the given Trigger does not reference any <code>Job</code>, then it
* will be set to reference the Job passed with it into this method.
* </p>
*
* @throws SchedulerException
*     if the Job or Trigger cannot be added to the Scheduler, or
*     there is an internal Scheduler error.
*/
Date scheduleJob(JobDetail jobDetail, Trigger trigger)
    throws SchedulerException;

/**
* Schedule the given <code>{@link org.quartz.Trigger}</code> with the
* <code>Job</code> identified by the <code>Trigger</code>'s settings.
*
* @throws SchedulerException
*     if the indicated Job does not exist, or the Trigger cannot be
*     added to the Scheduler, or there is an internal Scheduler
*     error.
*/
Date scheduleJob(Trigger trigger) throws SchedulerException;

/**
* Schedule all of the given jobs with the related set of triggers.
*
* <p>If any of the given jobs or triggers already exist (or more
* specifically, if the keys are not unique) and the replace
* parameter is not set to true then an exception will be thrown.</p>
*
* @throws ObjectAlreadyExistsException if the job/trigger keys
* are not unique and the replace flag is not set to true.
*/
void scheduleJobs(Map<JobDetail, Set<? extends Trigger>> triggersAndJobs, boolean replace) throws
SchedulerException;

/**
* Schedule the given job with the related set of triggers.
*
* <p>If any of the given job or triggers already exist (or more
* specifically, if the keys are not unique) and the replace
* parameter is not set to true then an exception will be thrown.</p>
*
* @throws ObjectAlreadyExistsException if the job/trigger keys

```

```

* are not unique and the replace flag is not set to true.
*/
void scheduleJob(JobDetail jobDetail, Set<? extends Trigger> triggersForJob, boolean replace) throws
SchedulerException;

/**
* Remove the indicated <code>{@link Trigger}</code> from the scheduler.
*
* <p>If the related job does not have any other triggers, and the job is
* not durable, then the job will also be deleted.</p>
*/
boolean unscheduleJob(TriggerKey triggerKey)
    throws SchedulerException;

/**
* Remove all of the indicated <code>{@link Trigger}</code>s from the scheduler.
*
* <p>If the related job does not have any other triggers, and the job is
* not durable, then the job will also be deleted.</p>
*
* <p>Note that while this bulk operation is likely more efficient than
* invoking <code>unscheduleJob(TriggerKey triggerKey)</code> several
* times, it may have the adverse affect of holding data locks for a
* single long duration of time (rather than lots of small durations
* of time).</p>
*/
boolean unscheduleJobs(List<TriggerKey> triggerKeys)
    throws SchedulerException;

/**
* Remove (delete) the <code>{@link org.quartz.Trigger}</code> with the
* given key, and store the new given one - which must be associated
* with the same job (the new trigger must have the job name & group specified)
* - however, the new trigger need not have the same name as the old trigger.
*
* @param triggerKey identity of the trigger to replace
* @param newTrigger
*     The new <code>Trigger</code> to be stored.
*
* @return <code>null</code> if a <code>Trigger</code> with the given
*     name & group was not found and removed from the store (and the
*     new trigger is therefore not stored), otherwise
*     the first fire time of the newly scheduled trigger is returned.
*/
Date rescheduleJob(TriggerKey triggerKey, Trigger newTrigger)
    throws SchedulerException;

/**

```

```

* Add the given <code>Job</code> to the Scheduler - with no associated
* <code>Trigger</code>. The <code>Job</code> will be 'dormant' until
* it is scheduled with a <code>Trigger</code>, or <code>Scheduler.triggerJob()</code>
* is called for it.
*
* <p>
* The <code>Job</code> must by definition be 'durable', if it is not,
* SchedulerException will be thrown.
* </p>
*
* @see #addJob(JobDetail, boolean, boolean)
*
* @throws SchedulerException
*     if there is an internal Scheduler error, or if the Job is not
*     durable, or a Job with the same name already exists, and
*     <code>replace</code> is <code>>false</code>.
*/
void addJob(JobDetail jobDetail, boolean replace)
    throws SchedulerException;

/**
* Add the given <code>Job</code> to the Scheduler - with no associated
* <code>Trigger</code>. The <code>Job</code> will be 'dormant' until
* it is scheduled with a <code>Trigger</code>, or <code>Scheduler.triggerJob()</code>
* is called for it.
*
* <p>
* With the <code>storeNonDurableWhileAwaitingScheduling</code> parameter
* set to <code>>true</code>, a non-durable job can be stored. Once it is
* scheduled, it will resume normal non-durable behavior (i.e. be deleted
* once there are no remaining associated triggers).
* </p>
*
* @throws SchedulerException
*     if there is an internal Scheduler error, or if the Job is not
*     durable, or a Job with the same name already exists, and
*     <code>replace</code> is <code>>false</code>.
*/
void addJob(JobDetail jobDetail, boolean replace, boolean storeNonDurableWhileAwaitingScheduling)
    throws SchedulerException;

/**
* Delete the identified <code>Job</code> from the Scheduler - and any
* associated <code>Trigger</code>s.
*
* @return true if the Job was found and deleted.
* @throws SchedulerException
*     if there is an internal Scheduler error.

```

```

*/
boolean deleteJob(JobKey jobKey)
    throws SchedulerException;

/**
 * Delete the identified Jobs from the Scheduler - and any
 * associated Triggers.
 *
 * 

Note that while this bulk operation is likely more efficient than
 * invoking deleteJob(JobKey jobKey) several
 * times, it may have the adverse affect of holding data locks for a
 * single long duration of time (rather than lots of small durations
 * of time).


 *
 * @return true if all of the Jobs were found and deleted, false if
 * one or more were not deleted.
 * @throws SchedulerException
 *         if there is an internal Scheduler error.
 */
boolean deleteJobs(List<JobKey> jobKeys)
    throws SchedulerException;

/**
 * Trigger the identified { @link org.quartz.JobDetail }
 * (execute it now).
 */
void triggerJob(JobKey jobKey)
    throws SchedulerException;

/**
 * Trigger the identified { @link org.quartz.JobDetail }
 * (execute it now).
 *
 * @param data the (possibly null) JobDataMap to be
 * associated with the trigger that fires the job immediately.
 */
void triggerJob(JobKey jobKey, JobDataMap data)
    throws SchedulerException;

/**
 * Pause the { @link org.quartz.JobDetail } with the given
 * key - by pausing all of its current Triggers.
 *
 * @see #resumeJob(JobKey)
 */
void pauseJob(JobKey jobKey)
    throws SchedulerException;

```



```

/**
 * Pause all of the { @link org.quartz.JobDetail}s in the
 * matching groups - by pausing all of their Triggers.
 *
 * <p>
 * The Scheduler will "remember" the groups paused, and impose the
 * pause on any new jobs that are added to any of those groups
 * until it is resumed.
 * </p>
 *
 * <p>NOTE: There is a limitation that only exactly matched groups
 * can be remembered as paused. For example, if there are pre-existing
 * job in groups "aaa" and "bbb" and a matcher is given to pause
 * groups that start with "a" then the group "aaa" will be remembered
 * as paused and any subsequently added jobs in group "aaa" will be paused,
 * however if a job is added to group "axx" it will not be paused,
 * as "axx" wasn't known at the time the "group starts with a" matcher
 * was applied. HOWEVER, if there are pre-existing groups "aaa" and
 * "bbb" and a matcher is given to pause the group "axx" (with a
 * group equals matcher) then no jobs will be paused, but it will be
 * remembered that group "axx" is paused and later when a job is added
 * in that group, it will become paused.</p>
 *
 * @param matcher The matcher to evaluate against know groups
 * @throws SchedulerException On error
 * @see #resumeJobs(org.quartz.impl.matchers.GroupMatcher)
 */
void pauseJobs(GroupMatcher<JobKey> matcher) throws SchedulerException;

```

```

/**
 * Pause the { @link Trigger} with the given key.
 *
 * @see #resumeTrigger(TriggerKey)
 */
void pauseTrigger(TriggerKey triggerKey)
    throws SchedulerException;

```

```

/**
 * Pause all of the { @link Trigger}s in the groups matching.
 *
 * <p>
 * The Scheduler will "remember" all the groups paused, and impose the
 * pause on any new triggers that are added to any of those groups
 * until it is resumed.
 * </p>
 *
 * <p>NOTE: There is a limitation that only exactly matched groups
 * can be remembered as paused. For example, if there are pre-existing

```

```

* triggers in groups "aaa" and "bbb" and a matcher is given to pause
* groups that start with "a" then the group "aaa" will be remembered as
* paused and any subsequently added triggers in that group be paused,
* however if a trigger is added to group "axx" it will not be paused,
* as "axx" wasn't known at the time the "group starts with a" matcher
* was applied. HOWEVER, if there are pre-existing groups "aaa" and
* "bbb" and a matcher is given to pause the group "axx" (with a
* group equals matcher) then no triggers will be paused, but it will be
* remembered that group "axx" is paused and later when a trigger is added
* in that group, it will become paused.</p>
*
* @param matcher The matcher to evaluate against know groups
* @throws SchedulerException
* @see #resumeTriggers(org.quartz.impl.matchers.GroupMatcher)
*/
void pauseTriggers(GroupMatcher<TriggerKey> matcher) throws SchedulerException;

/**
* Resume (un-pause) the <code>{@link org.quartz.JobDetail}</code> with
* the given key.
*
* <p>
* If any of the <code>Job</code>'s<code>Trigger</code> s missed one
* or more fire-times, then the <code>Trigger</code>'s misfire
* instruction will be applied.
* </p>
*
* @see #pauseJob(JobKey)
*/
void resumeJob(JobKey jobKey)
    throws SchedulerException;

/**
* Resume (un-pause) all of the <code>{@link org.quartz.JobDetail}s</code>
* in matching groups.
*
* <p>
* If any of the <code>Job</code> s had <code>Trigger</code> s that
* missed one or more fire-times, then the <code>Trigger</code>'s
* misfire instruction will be applied.
* </p>
*
* @param matcher The matcher to evaluate against known paused groups
* @throws SchedulerException On error
* @see #pauseJobs(GroupMatcher)
*/
void resumeJobs(GroupMatcher<JobKey> matcher) throws SchedulerException;

```

```

/**
 * Resume (un-pause) the <code>{@link Trigger}</code> with the given
 * key.
 *
 * <p>
 * If the <code>Trigger</code> missed one or more fire-times, then the
 * <code>Trigger</code>'s misfire instruction will be applied.
 * </p>
 *
 * @see #pauseTrigger(TriggerKey)
 */
void resumeTrigger(TriggerKey triggerKey)
    throws SchedulerException;

/**
 * Resume (un-pause) all of the <code>{@link Trigger}s</code> in matching groups.
 *
 * <p>
 * If any <code>Trigger</code> missed one or more fire-times, then the
 * <code>Trigger</code>'s misfire instruction will be applied.
 * </p>
 *
 * @param matcher The matcher to evaluate against know paused groups
 * @throws SchedulerException On error
 * @see #pauseTriggers(org.quartz.impl.matchers.GroupMatcher)
 */
void resumeTriggers(GroupMatcher<TriggerKey> matcher) throws SchedulerException;

/**
 * Pause all triggers - similar to calling <code>pauseTriggerGroup(group)</code>
 * on every group, however, after using this method <code>resumeAll()</code>
 * must be called to clear the scheduler's state of 'remembering' that all
 * new triggers will be paused as they are added.
 *
 * <p>
 * When <code>resumeAll()</code> is called (to un-pause), trigger misfire
 * instructions WILL be applied.
 * </p>
 *
 * @see #resumeAll()
 * @see #pauseTriggers(org.quartz.impl.matchers.GroupMatcher)
 * @see #standby()
 */
void pauseAll() throws SchedulerException;

/**
 * Resume (un-pause) all triggers - similar to calling
 * <code>resumeTriggerGroup(group)</code> on every group.

```

```

*
* <p>
* If any <code>Trigger</code> missed one or more fire-times, then the
* <code>Trigger</code>'s misfire instruction will be applied.
* </p>
*
* @see #pauseAll()
*/
void resumeAll() throws SchedulerException;

/**
 * Get the names of all known <code>{@link org.quartz.JobDetail}</code>
 * groups.
 */
List<String> getJobGroupNames() throws SchedulerException;

/**
 * Get the keys of all the <code>{@link org.quartz.JobDetail}s</code>
 * in the matching groups.
 * @param matcher Matcher to evaluate against known groups
 * @return Set of all keys matching
 * @throws SchedulerException On error
 */
Set<JobKey> getJobKeys(GroupMatcher<JobKey> matcher) throws SchedulerException;

/**
 * Get all <code>{@link Trigger}</code> s that are associated with the
 * identified <code>{@link org.quartz.JobDetail}</code>.
 *
 * <p>The returned Trigger objects will be snap-shots of the actual stored
 * triggers. If you wish to modify a trigger, you must re-store the
 * trigger afterward (e.g. see {@link #rescheduleJob(TriggerKey, Trigger)}).
 * </p>
 */
List<? extends Trigger> getTriggersOfJob(JobKey jobKey)
    throws SchedulerException;

/**
 * Get the names of all known <code>{@link Trigger}</code> groups.
 */
List<String> getTriggerGroupNames() throws SchedulerException;

/**
 * Get the names of all the <code>{@link Trigger}s</code> in the given
 * group.
 * @param matcher Matcher to evaluate against known groups
 * @return List of all keys matching

```

```

* @throws SchedulerException On error
*/
Set<TriggerKey> getTriggerKeys(GroupMatcher<TriggerKey> matcher) throws SchedulerException;

/**
 * Get the names of all <code>{@link Trigger}</code> groups that are paused.
 */
Set<String> getPausedTriggerGroups() throws SchedulerException;

/**
 * Get the <code>{@link JobDetail}</code> for the <code>Job</code>
 * instance with the given key.
 *
 * <p>The returned JobDetail object will be a snap-shot of the actual stored
 * JobDetail. If you wish to modify the JobDetail, you must re-store the
 * JobDetail afterward (e.g. see {@link #addJob(JobDetail, boolean)}).
 * </p>
 */
JobDetail getJobDetail(JobKey jobKey)
    throws SchedulerException;

/**
 * Get the <code>{@link Trigger}</code> instance with the given key.
 *
 * <p>The returned Trigger object will be a snap-shot of the actual stored
 * trigger. If you wish to modify the trigger, you must re-store the
 * trigger afterward (e.g. see {@link #rescheduleJob(TriggerKey, Trigger)}).
 * </p>
 */
Trigger getTrigger(TriggerKey triggerKey)
    throws SchedulerException;

/**
 * Get the current state of the identified <code>{@link Trigger}</code>.
 *
 * @see Trigger.TriggerState
 */
TriggerState getTriggerState(TriggerKey triggerKey)
    throws SchedulerException;

/**
 * Reset the current state of the identified <code>{@link Trigger}</code>
 * from {@link TriggerState#ERROR} to {@link TriggerState#NORMAL} or
 * {@link TriggerState#PAUSED} as appropriate.
 *
 * <p>Only affects triggers that are in ERROR state - if identified trigger is not
 * in that state then the result is a no-op.</p>

```

```

*
* <p>The result will be the trigger returning to the normal, waiting to
* be fired state, unless the trigger's group has been paused, in which
* case it will go into the PAUSED state.</p>
*
* @see Trigger.TriggerState
*/
void resetTriggerFromErrorState(TriggerKey triggerKey)
    throws SchedulerException;
/**
* Add (register) the given <code>Calendar</code> to the Scheduler.
*
* @param updateTriggers whether or not to update existing triggers that
* referenced the already existing calendar so that they are 'correct'
* based on the new trigger.
*
*
* @throws SchedulerException
*     if there is an internal Scheduler error, or a Calendar with
*     the same name already exists, and <code>replace</code> is
*     <code>>false</code>.
*/
void addCalendar(String calName, Calendar calendar, boolean replace, boolean updateTriggers)
    throws SchedulerException;

/**
* Delete the identified <code>Calendar</code> from the Scheduler.
*
* <p>
* If removal of the <code>Calendar</code> would result in
* <code>Trigger</code>s pointing to non-existent calendars, then a
* <code>SchedulerException</code> will be thrown.
* </p>
*
* @return true if the Calendar was found and deleted.
* @throws SchedulerException
*     if there is an internal Scheduler error, or one or more
*     triggers reference the calendar
*/
boolean deleteCalendar(String calName) throws SchedulerException;

/**
* Get the <code>{@link Calendar}</code> instance with the given name.
*/
Calendar getCalendar(String calName) throws SchedulerException;

/**
* Get the names of all registered <code>{@link Calendar}s</code>.

```

```

*/
List<String> getCalendarNames() throws SchedulerException;

/**
 * Request the interruption, within this Scheduler instance, of all
 * currently executing instances of the identified <code>Job</code>, which
 * must be an implementor of the <code>InterruptableJob</code> interface.
 *
 * <p>
 * If more than one instance of the identified job is currently executing,
 * the <code>InterruptableJob#interrupt()</code> method will be called on
 * each instance. However, there is a limitation that in the case that
 * <code>interrupt()</code> on one instances throws an exception, all
 * remaining instances (that have not yet been interrupted) will not have
 * their <code>interrupt()</code> method called.
 * </p>
 *
 * <p>
 * This method is not cluster aware. That is, it will only interrupt
 * instances of the identified InterruptableJob currently executing in this
 * Scheduler instance, not across the entire cluster.
 * </p>
 *
 * @return true if at least one instance of the identified job was found
 * and interrupted.
 * @throws UnableToInterruptJobException if the job does not implement
 * <code>InterruptableJob</code>, or there is an exception while
 * interrupting the job.
 * @see InterruptableJob#interrupt()
 * @see #getCurrentlyExecutingJobs()
 * @see #interrupt(String)
 */
boolean interrupt(JobKey jobKey) throws UnableToInterruptJobException;

/**
 * Request the interruption, within this Scheduler instance, of the
 * identified executing <code>Job</code> instance, which
 * must be an implementor of the <code>InterruptableJob</code> interface.
 *
 * <p>
 * This method is not cluster aware. That is, it will only interrupt
 * instances of the identified InterruptableJob currently executing in this
 * Scheduler instance, not across the entire cluster.
 * </p>
 *
 * @param fireInstanceId the unique identifier of the job instance to
 * be interrupted (see { @link JobExecutionContext#getFireInstanceId() }
 * @return true if the identified job instance was found and interrupted.

```

```

* @throws UnableToInterruptJobException if the job does not implement
* <code>InterruptableJob</code>, or there is an exception while
* interrupting the job.
* @see InterruptableJob#interrupt()
* @see #getCurrentlyExecutingJobs()
* @see JobExecutionContext#getFireInstanceId()
* @see #interrupt(JobKey)
*/
boolean interrupt(String fireInstanceId) throws UnableToInterruptJobException;

/**
* Determine whether a {@link Job} with the given identifier already
* exists within the scheduler.
*
* @param jobKey the identifier to check for
* @return true if a Job exists with the given identifier
* @throws SchedulerException
*/
boolean checkExists(JobKey jobKey) throws SchedulerException;

/**
* Determine whether a {@link Trigger} with the given identifier already
* exists within the scheduler.
*
* @param triggerKey the identifier to check for
* @return true if a Trigger exists with the given identifier
* @throws SchedulerException
*/
boolean checkExists(TriggerKey triggerKey) throws SchedulerException;

/**
* Clears (deletes!) all scheduling data - all {@link Job}s, {@link Trigger}s
* {@link Calendar}s.
*
* @throws SchedulerException
*/
void clear() throws SchedulerException;

}

```

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# 1.256 querydsl-codegen 4.2.1

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```
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 */
package com.querydsl.codegen;

import java.lang.annotation.Annotation;

import com.mysema.codegen.model.TypeCategory;

/**
 * {@code AnnotationHelper} defines a interface to provide custom annotation processing
 * for {@code TypeFactory}.
 *
 * @author dyorgio
 */
public interface AnnotationHelper {

    /**
     * Verify if AnnotationHelper instance can handle the annotation.
     * @param annotationClass Annotation class.
     * @return {@code true} if this AnnotationHelper can handle the annotation.
     */
    boolean isSupported(Class<? extends Annotation> annotationClass);

    /**
     * Get specific object that will be used as part of type cache key.
     * @param annotation Annotation instance.
     */
}
```

```

* @return Any object, normally a annotation param. Can be {@code null}.
*/
Object getCustomKey(Annotation annotation);

/**
* Get the {@link TypeCategory} according with object Class and Annotation.
* @param cl Class of type.
* @param annotation Annotation found on element.
* @return Custom {@link TypeCategory}.
*/
TypeCategory getTypeByAnnotation(Class<?> cl, Annotation annotation);
}

```

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</head>
```

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</dd>  
  
</dl>  
  
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<https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2>

maven-core (3.5.2)

- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>
- \* Source: <https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>
- \* Source: <https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

- \* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-connector-basic (1.1.1)

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maven-resolver-spi (1.1.1)

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maven-resolver-transport-file (1.1.1)

- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>
- \* Source: <https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

maven-resolver-util (1.1.1)

- \* License: Apache-2.0

maven-settings (3.5.2)

\* License: Apache-2.0

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

\* License: Apache License, 2.0

plexus-archiver (3.5)

\* License: Apache-2.0

\* Project: <https://codehaus-plexus.github.io/plexus-archiver/>

\* Source: <https://github.com/codehaus-plexus/plexus-archiver>

plexus-io (3.0.0)

\* License: Apache-2.0

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

\* License: New BSD license

Sax (0.2)

\* License: SAX-PD

\* Project: <http://www.megginson.com/downloads/SAX/>

\* Source: [http://sourceforge.net/project/showfiles.php?group\\_id=29449](http://sourceforge.net/project/showfiles.php?group_id=29449)

testng (6.14.2)

\* License: Apache-2.0 AND (MIT OR GPL-1.0+)

\* Project: <https://testng.org/doc/index.html>

\* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

\* License: Pending

\* Project: <https://maven.apache.org/wagon/>

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

xz for java (1.8)

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```
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```

```
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```

```
<title>Jing Copying Conditions</title>
```

```
</head>
```

```
<body>
```

```
<h1>Jing Copying Conditions</h1>
```

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<dt><code>xml-apis.jar</code></dt>

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</dd>

</dl>

</body>

</html>

## 1.265 serializer 2.7.2

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```

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* limitations under the License.
*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

/**
* Get the basic version string for the current Xalan release.
* Version String formatted like
* <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B>]</CODE>.
*
* Futurework: have this read version info from jar manifest.
*
* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+". "+getReleaseVersionNum()+". "
        +(getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (" "+getMaintenanceVersionNum());
}

/**
* Print the processor version to the command line.
*
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

```

```

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *     may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

```



```

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}

```

## 1.266 sero-scheduler 1.0.0

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```

```
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import org.shortpasta.icmp2.platform.windows.WindowsNativeBridge;
import org.shortpasta.icmp2.platform.java.JavaNativeBridge;
import org.shortpasta.icmp2.platform.linux.LinuxNativeBridge;
```

```
import com.sun.jna.Platform;
```

```

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 * Date: May 23, 2014
 * Time: 6:11:59 PM
 */

```

```

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```

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shortpasta-icmp builds 1000-1006 are available here:  
<https://sourceforge.net/projects/shortpasta-icmp/files/>

shortpasta-icmp2, the 2nd generation implementation of shorpasta-icmp, has now moved to its own project: icmp4j!  
<https://sourceforge.net/projects/shortpasta-icmp/files/>



icmp4j is also hosted on sf.net - thanks sf.net!

Check-out icmp4j directly:

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\*/

###

### Project details

###

Compilers:

Java code built with Sun Java 1.7.0\_55-b13, but compiled for 1.6

Apache Ant 1.9.2

Binaries:

jna-3.5.1.jar (677 KB)

platform-3.5.1.jar (931 KB)

shortpasta-icmp2.jar (23 KB)

Tested platforms:

Windows 8.1 64-bit

Windows Server 2008r2 64-bit

Windows 7 Pro 64-bit (ver 6.1.7601)

Windows XP Pro 32-bit

Debian 6

Running from the command line:

1. Expand shortpasta-icmp2-1013.zip to c:\temp

2. cmd

3. cd C:\temp\shortpasta-icmp2\lib

4. java -cp \* org.shortpasta.icmp2.tool.Ping www.google.com

-or, if the above does not work:

4. java -cp jna-3.5.1.jar;platform-3.5.1.jar;shortpasta-icmp2.jar org.shortpasta.icmp2.tool.Ping www.google.com

Sample code:

```
import org.shortpasta.icmp2.IcmpPingUtil;  
import org.shortpasta.icmp2.IcmpPingRequest;  
import org.shortpasta.icmp2.IcmpPingResponse;
```

```
// request - use IcmpPingUtil.createIcmpPingRequest () to create a request with defaults  
final IcmpPingRequest request = IcmpPingUtil.createIcmpPingRequest ();  
request.setHost ("www.google.com");
```

```
// delegate  
final IcmpPingResponse response = IcmpPingUtil.executePingRequest (request);
```

```
// log
final String formattedResponse = IcmpPingUtil.formatResponse (response);
System.out.println (formattedResponse);

###
### Date: 2014-05-25 14:43:00
### Build: 1015
###
Starting Sunday 5/25/2014, shortpasta-icmp development is limited to bug fixes!
shortpasta-icmp builds 1000-1006 are available here:
  https://sourceforge.net/projects/shortpasta-icmp/files/

shortpasta-icmp2, the 2nd generation implementation of shorpasta-icmp, has now moved to its own project: icmp4j!
https://sourceforge.net/projects/shortpasta-icmp/files/
icmp4j is also hosted on sf.net - thanks sf.net!

Check-out icmp4j directly:
  http://www.icmp4j.org, or
  https://sourceforge.net/projects/icmp4j/

###
### Date: 2014-04-25 10:34:00
### Build: 1014
###
-- [FEATURE]
Add explicit timeout support
Te Windows implementation relies on the native OS call, and it seems to report the timeout a few msec before
the actual timeout. For example, pinging a non-existing domain with a timeout of 5000, came back yielded
a timeout after 4935, 4996, 4996, and 4997 msec instead of 5000.
The Linux/Solaris/Other implementations use an explicit timer on the Java side.

-- [FEATURE]
Add several preconditions and postcondition checks in IcmpPingUtil.executePingRequest (request);

-- [FEATURE]
Add auto initialization: when you invoke IcmpPingUtil.executePingRequest (), it initializes the subsystem.
However, if the initialization fails for any reason, such as winsock2 is not available, you will receive
an exception, so you may still want to call the following at app startup so that you are guaranteed
that the icmp functions are available:
  IcmpPingUtil.initialize ();
Likewise, you can call the following at app tear-down, but it is not required:
  IcmpPingUtil.destroy ();

###
### Date: 2014-04-23 16:20:00
### Build: 1014
###
-- [FEATURE]
```

Add Linux/Solaris support

See the LinuxNativeBridge class, which executes the following command:

```
ping -c 1 -s 32 -w 5 www.google.com
```

This command sends 1 packet of size 32 with a timeout of 5 seconds

-- [FEATURE]

Add unspecified OS support

If the OS is not Windows/Linux/Solaris, shortpasta-icmp2 uses Java default process

See the JavaNativeBridge class, which delegates to InetAddress.isReachable ().

-- Credits

Kevin Shih

Help with testing and integration

###

### TODOs

###

Look into IcmpSendEcho2Ex so that we can specify the source ip address, which indirectly lets you specify the interface:

[http://msdn.microsoft.com/en-us/library/windows/desktop/bb309069\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/bb309069(v=vs.85).aspx)

Sample c# code by Jason Harrop:

<https://github.com/plutext/PlotPing/commit/5e468bb388c42bd1cd565a913808462132db5039>

###

### Date: 2014-04-23 13:00:00

### Build: 1013

###

-- [WARNING]

In build 1013, shortpasta-icmp is now deprecated and replaced by shortpasta-icmp2.

About shortpasta-icmp:

is a very small java wrapper around a small native implementation for win32 and uses JNI.

Jar + Win32 DLL.

Stand-alone and small footprint: shortpasta-icmp.jar (47k) + shortpasta-icmp-win32.dll (68k release) + shortpasta-icmp-win64.dll

Stand-alone project: build with Java 1.6 and Ant 1.7, native code built with VCPP6

Uses real ICMP sockets via native calls which offers very accurate delay calcs

Why not use jna or other wrappers? They usually come with larger payloads. Still very good options for apps where size is not a concern

Unit tested including simulations of millions of packets

Extremely accurate timing via QueryPerformanceFrequency () and QueryPerformanceCounter () with fallback to GetTickCount ()

Log4J support

Asynchronous ping support

Standalone sping.exe with /xml option to output results in xml

About shortpasta-icmp2:

Very small java wrapper around the native win32 methods and uses JNA to access them.

So although shortpasta-icmp2 is only 25 KB, it requires 1,608 KB worth of jna jars to execute. If this is not acceptable to you, use build 1006.

-- [FEATURE]

Add blocking call:

`IcmpPingResponse org.shortpasta.icmp2.IcmpUtil.executePingRequest (IcmpPingRequest).`

This implementation uses:

1. JNA to invoke native methods
2. winsock 2.0
3. `IcmpSendEcho` instead of the raw socket `() / bind () / send ()` family of methods

-- Credits

Kevin Shih

Help with testing and integration

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**1.318 springfox-core 2.2.2**

**1.319 springfox-schema 2.2.2**



## 1.320 springfox-spi 2.2.2

## 1.321 springfox-spring-web 2.2.2

## 1.322 springfox-swagger-common 2.2.2

## 1.323 springfox-swagger2 2.2.2

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/\* Stax2 API extension for Streaming API for XML processing (StAX).

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# 1.342 unix4j-command 0.4

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# 1.347 websocket-api 9.4.15.v20190429

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-----  
Eclipse



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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

-----

Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

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

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

-----

Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

-----

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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```

package org.eclipse.jetty.websocket.api;

import org.eclipse.jetty.websocket.api.annotations.WebSocket;

/**
 * Indicating that the provided Class is not a valid WebSocket as defined by the API.
 * <p>
 * A valid WebSocket should do one of the following:
 * <ul>
 * <li>Implement { @link WebSocketListener }</li>
 * <li>Extend { @link WebSocketAdapter }</li>
 * <li>Declare the { @link WebSocket &#064;WebSocket } annotation on the type</li>
 * </ul>
 */
@SuppressWarnings("serial")
public class InvalidWebSocketException extends WebSocketException
{
    public InvalidWebSocketException(String message)
    {
        super(message);
    }

    public InvalidWebSocketException(String message, Throwable cause)
    {
        super(message,cause);
    }
}

```

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# 1.348 websocket-client 9.4.18.v20190429

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

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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

-----  
Oracle

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

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

-----  
Oracle OpenJDK



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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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```

```
package org.eclipse.jetty.websocket.client;
```

```
import java.io.IOException;  
import java.net.CookieStore;  
import java.net.SocketAddress;  
import java.net.URI;  
import java.util.ArrayList;  
import java.util.Collection;  
import java.util.Collections;  
import java.util.HashSet;  
import java.util.List;  
import java.util.Locale;  
import java.util.Objects;  
import java.util.Set;  
import java.util.concurrent.Executor;  
import java.util.concurrent.Future;  
import java.util.function.Supplier;  
  
import org.eclipse.jetty.client.HttpClient;  
import org.eclipse.jetty.io.ByteBufferPool;  
import org.eclipse.jetty.util.DecoratedObjectFactory;  
import org.eclipse.jetty.util.StringUtil;  
import org.eclipse.jetty.util.component.ContainerLifeCycle;  
import org.eclipse.jetty.util.log.Log;  
import org.eclipse.jetty.util.log.Logger;
```

```

import org.eclipse.jetty.util.ssl.SslContextFactory;
import org.eclipse.jetty.util.thread.Scheduler;
import org.eclipse.jetty.util.thread.ShutdownThread;
import org.eclipse.jetty.websocket.api.Session;
import org.eclipse.jetty.websocket.api.WebSocketBehavior;
import org.eclipse.jetty.websocket.api.WebSocketPolicy;
import org.eclipse.jetty.websocket.api.extensions.ExtensionConfig;
import org.eclipse.jetty.websocket.api.extensions.ExtensionFactory;
import org.eclipse.jetty.websocket.client.io.ConnectionManager;
import org.eclipse.jetty.websocket.client.io.UpgradeListener;
import org.eclipse.jetty.websocket.client.masks.Masker;
import org.eclipse.jetty.websocket.client.masks.RandomMasker;
import org.eclipse.jetty.websocket.common.SessionFactory;
import org.eclipse.jetty.websocket.common.WebSocketSession;
import org.eclipse.jetty.websocket.common.WebSocketSessionFactory;
import org.eclipse.jetty.websocket.common.WebSocketSessionListener;
import org.eclipse.jetty.websocket.common.events.EventDriverFactory;
import org.eclipse.jetty.websocket.common.extensions.WebSocketExtensionFactory;
import org.eclipse.jetty.websocket.common.scopes.SimpleContainerScope;
import org.eclipse.jetty.websocket.common.scopes.WebSocketContainerScope;

/**
 * WebSocketClient provides a means of establishing connections to remote websocket endpoints.
 */
public class WebSocketClient extends ContainerLifeCycle implements WebSocketContainerScope,
    WebSocketSessionListener
{
    private static final Logger LOG = Log.getLogger(WebSocketClient.class);

    // From HttpClient
    private final HttpClient httpClient;

    // CDI layer
    private final Supplier<DecoratedObjectFactory> objectFactorySupplier;

    // WebSocket Specifics
    private final WebSocketPolicy policy;
    private final WebSocketExtensionFactory extensionRegistry;
    private final EventDriverFactory eventDriverFactory;
    private final SessionFactory sessionFactory;
    private final List<WebSocketSessionListener> sessionListeners = new ArrayList<>();

    // defaults to true for backwards compatibility
    private boolean stopAtShutdown = true;

    /**
     * Instantiate a WebSocketClient with defaults
     */

```

```

public WebSocketClient()
{
    this((HttpClient)null);
}

/**
 * Instantiate a WebSocketClient using HttpClient for defaults
 *
 * @param httpClient
 *     the HttpClient to base internal defaults off of
 */
public WebSocketClient(HttpClient httpClient)
{
    this(httpClient, null);
}

/**
 * Instantiate a WebSocketClient using HttpClient for defaults
 *
 * @param httpClient
 *     the HttpClient to base internal defaults off of
 * @param objectFactory
 *     the DecoratedObjectFactory for all client instantiated classes
 */
public WebSocketClient(HttpClient httpClient, DecoratedObjectFactory objectFactory)
{
    this(new SimpleContainerScope(new WebSocketPolicy(WebSocketBehavior.CLIENT), null, null, null,
objectFactory), null, null, httpClient);
}

/**
 * Create a new WebSocketClient
 *
 * @param sslContextFactory
 *     ssl context factory to use
 * @deprecated use { @link #WebSocketClient(HttpClient) } instead
 */
@Deprecated
public WebSocketClient(SslContextFactory sslContextFactory)
{
    this(sslContextFactory,null, null);
}

/**
 * Create a new WebSocketClient
 *
 * @param executor
 *     the executor to use

```

```

* @deprecated use { @link #WebSocketClient(HttpClient) } instead
*/
public WebSocketClient(Executor executor)
{
    this(null, executor, null);
}

/**
 * Create a new WebSocketClient
 *
 * @param bufferPool
 *     byte buffer pool to use
 * @deprecated use { @link #WebSocketClient(HttpClient) } instead
 */
@Deprecated
public WebSocketClient(ByteBufferPool bufferPool)
{
    this(null, null, bufferPool);
}

/**
 * Create a new WebSocketClient
 *
 * @param sslContextFactory
 *     ssl context factory to use
 * @param executor
 *     the executor to use
 * @deprecated use { @link #WebSocketClient(HttpClient) } instead
 */
@Deprecated
public WebSocketClient(SslContextFactory sslContextFactory, Executor executor)
{
    this(sslContextFactory, executor, null);
}

/**
 * Create WebSocketClient other Container Scope, to allow sharing of
 * internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
 *
 * @param scope
 *     the Container Scope
 */
public WebSocketClient(WebSocketContainerScope scope)
{
    this(scope, null, null, null);
}

/**

```

```

* Create WebSocketClient other Container Scope, to allow sharing of
* internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
*
* @param scope
*     the Container Scope
* @param sslContextFactory
*     SSL ContextFactory to use in preference to one from
*     {@link WebSocketContainerScope#getSslContextFactory()}
*/
public WebSocketClient(WebSocketContainerScope scope, SslContextFactory sslContextFactory)
{
    this(sslContextFactory, scope.getExecutor(), scope.getByteBufferPool(), scope.getObjectFactory());
}

/**
* Create WebSocketClient using sharing instances of SSLContextFactory
* Executor, and ByteBufferPool
*
* @param sslContextFactory
*     shared SSL ContextFactory
* @param executor
*     shared Executor
* @param bufferPool
*     shared ByteBufferPool
*/
public WebSocketClient(SslContextFactory sslContextFactory, Executor executor, ByteBufferPool bufferPool)
{
    this(sslContextFactory, executor, bufferPool, null);
}

/**
* Create WebSocketClient using sharing instances of SSLContextFactory
* Executor, and ByteBufferPool
*
* @param sslContextFactory
*     shared SSL ContextFactory
* @param executor
*     shared Executor
* @param bufferPool
*     shared ByteBufferPool
* @param objectFactory
*     shared DecoratedObjectFactory
*/
private WebSocketClient(SslContextFactory sslContextFactory, Executor executor, ByteBufferPool bufferPool,
DecoratedObjectFactory objectFactory)
{
    this(new SimpleContainerScope(new WebSocketPolicy(WebSocketBehavior.CLIENT), bufferPool, executor,
sslContextFactory, objectFactory));
}

```

```

        addBean(this.httpClient);
    }

    /**
     * Create WebSocketClient based on pre-existing Container Scope, to allow sharing of
     * internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
     *
     * @param scope
     *         the Container Scope
     * @param eventDriverFactory
     *         the EventDriver Factory to use
     * @param sessionFactory
     *         the SessionFactory to use
     */
    public WebSocketClient(final WebSocketContainerScope scope, EventDriverFactory eventDriverFactory,
        SessionFactory sessionFactory)
    {
        this(scope, eventDriverFactory, sessionFactory, null);
    }

    /**
     * Create WebSocketClient based on pre-existing Container Scope, to allow sharing of
     * internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
     *
     * @param scope
     *         the Container Scope
     * @param eventDriverFactory
     *         the EventDriver Factory to use
     * @param sessionFactory
     *         the SessionFactory to use
     * @param httpClient
     *         the httpClient to use
     */
    public WebSocketClient(final WebSocketContainerScope scope, EventDriverFactory eventDriverFactory,
        SessionFactory sessionFactory, HttpClient httpClient)
    {
        if (httpClient == null)
        {
            this.httpClient = HttpClientProvider.get(scope);
            addBean(this.httpClient);
        }
        else
        {
            this.httpClient = httpClient;
        }

        this.addSessionListener(this);
    }

```



```

// Ensure we get a Client version of the policy.
this.policy = scope.getPolicy().delegateAs(WebSocketBehavior.CLIENT);
// Support Late Binding of Object Factory (for CDI)
this.objectFactorySupplier = () -> scope.getObjectFactory();
this.extensionRegistry = new WebSocketExtensionFactory(this);

this.eventDriverFactory = eventDriverFactory == null ? new EventDriverFactory(this) : eventDriverFactory;
this.sessionFactory = sessionFactory == null ? new WebSocketSessionFactory(this) : sessionFactory;
}

public Future<Session> connect(Object websocket, URI toUri) throws IOException
{
    ClientUpgradeRequest request = new ClientUpgradeRequest(toUri);
    request.setRequestURI(toUri);
    request.setLocalEndpoint(websocket);

    return connect(websocket,toUri,request);
}

/**
 * Connect to remote websocket endpoint
 *
 * @param websocket
 *     the websocket object
 * @param toUri
 *     the websocket uri to connect to
 * @param request
 *     the upgrade request information
 * @return the future for the session, available on success of connect
 * @throws IOException
 *     if unable to connect
 */
public Future<Session> connect(Object websocket, URI toUri, ClientUpgradeRequest request) throws
IOException
{
    return connect(websocket,toUri,request,(UpgradeListener)null);
}

/**
 * Connect to remote websocket endpoint
 *
 * @param websocket
 *     the websocket object
 * @param toUri
 *     the websocket uri to connect to
 * @param request
 *     the upgrade request information
 * @param upgradeListener

```

```

*         the upgrade listener
* @return the future for the session, available on success of connect
* @throws IOException
*         if unable to connect
*/
public Future<Session> connect(Object websocket, URI toUri, ClientUpgradeRequest request, UpgradeListener
upgradeListener) throws IOException
{
    /* Note: UpgradeListener is used by javax.websocket.ClientEndpointConfig.Configurator
    * See: org.eclipse.jetty.websocket.jsr356.JsrUpgradeListener
    */
    if (!isStarted())
    {
        throw new IllegalStateException(WebSocketClient.class.getSimpleName() + "@" + this.hashCode() + " is
not started");
    }

    // Validate websocket URI
    if (!toUri.isAbsolute())
    {
        throw new IllegalArgumentException("WebSocket URI must be absolute");
    }

    if (StringUtil.isBlank(toUri.getScheme()))
    {
        throw new IllegalArgumentException("WebSocket URI must include a scheme");
    }

    String scheme = toUri.getScheme().toLowerCase(Locale.ENGLISH);
    if (("ws".equals(scheme) == false) && ("wss".equals(scheme) == false))
    {
        throw new IllegalArgumentException("WebSocket URI scheme only supports [ws] and [wss], not [" +
scheme + "]");
    }

    if ("wss".equals(scheme))
    {
        // test for ssl context
        if (httpClient.getSslContextFactory() == null)
        {
            throw new IllegalStateException("HttpClient has no SslContextFactory, wss:// URI's are not supported in
this configuration");
        }
    }

    request.setRequestURI(toUri);
    request.setLocalEndpoint(websocket);

```

```

// Validate Requested Extensions
for (ExtensionConfig reqExt : request.getExtensions())
{
    if (!extensionRegistry.isAvailable(reqExt.getName()))
    {
        throw new IllegalArgumentException("Requested extension [" + reqExt.getName() + "] is not installed");
    }
}

if (LOG.isDebugEnabled())
    LOG.debug("connect websocket {} to {}",websocket,toUri);

init();

WebSocketUpgradeRequest wsReq = new WebSocketUpgradeRequest(this,httpClient,request);

wsReq.setUpgradeListener(upgradeListener);
return wsReq.sendAsync();
}

@Override
protected void doStart() throws Exception
{
    Objects.requireNonNull(httpClient, "Provided HttpClient is null");

    super.doStart();

    if (!httpClient.isRunning())
        throw new IllegalStateException("HttpClient is not running (did you forget to start it?): " + httpClient);
}

@Override
protected void doStop() throws Exception
{
    if (LOG.isDebugEnabled())
        LOG.debug("Stopping {}",this);

    ShutdownThread.deregister(this);

    super.doStop();

    if (LOG.isDebugEnabled())
        LOG.debug("Stopped {}",this);
}

@Deprecated
public boolean isDispatchIO()
{

```

```

    return httpClient.isDispatchIO();
}

/**
 * Return the number of milliseconds for a timeout of an attempted write operation.
 *
 * @return number of milliseconds for timeout of an attempted write operation
 */
public long getAsyncWriteTimeout()
{
    return getPolicy().getAsyncWriteTimeout();
}

public SocketAddress getBindAddress()
{
    return httpClient.getBindAddress();
}

@Override
public ByteBufferPool getBufferPool()
{
    return httpClient.getByteBufferPool();
}

@Deprecated
public ConnectionManager getConnectionManager()
{
    throw new UnsupportedOperationException("ConnectionManager is no longer supported");
}

public long getConnectTimeout()
{
    return httpClient.getConnectTimeout();
}

public CookieStore getCookieStore()
{
    return httpClient.getCookieStore();
}

public EventDriverFactory getEventDriverFactory()
{
    return eventDriverFactory;
}

@Override
public Executor getExecutor()
{

```

```

    return httpClient.getExecutor();
}

public ExtensionFactory getExtensionFactory()
{
    return extensionRegistry;
}

/**
 * @deprecated not used, no replacement
 * @return a {@link RandomMasker} instance
 */
@Deprecated
public Masker getMasker()
{
    return new RandomMasker();
}

/**
 * Get the maximum size for buffering of a binary message.
 *
 * @return the maximum size of a binary message buffer.
 */
public int getMaxBinaryMessageBufferSize()
{
    return getPolicy().getMaxBinaryMessageBufferSize();
}

/**
 * Get the maximum size for a binary message.
 *
 * @return the maximum size of a binary message.
 */
public long getMaxBinaryMessageSize()
{
    return getPolicy().getMaxBinaryMessageSize();
}

/**
 * Get the max idle timeout for new connections.
 *
 * @return the max idle timeout in milliseconds for new connections.
 */
public long getMaxIdleTimeout()
{
    return getPolicy().getIdleTimeout();
}

```

```

/**
 * Get the maximum size for buffering of a text message.
 *
 * @return the maximum size of a text message buffer.
 */
public int getMaxTextMessageBufferSize()
{
    return getPolicy().getMaxTextMessageBufferSize();
}

/**
 * Get the maximum size for a text message.
 *
 * @return the maximum size of a text message.
 */
public long getMaxTextMessageSize()
{
    return getPolicy().getMaxTextMessageSize();
}

@Override
public DecoratedObjectFactory getObjectFactory()
{
    return this.objectFactorySupplier.get();
}

public Set<WebSocketSession> getOpenSessions()
{
    return Collections.unmodifiableSet(new HashSet<>(getBeans(WebSocketSession.class)));
}

@Override
public WebSocketPolicy getPolicy()
{
    return this.policy;
}

public Scheduler getScheduler()
{
    return httpClient.getScheduler();
}

public SessionFactory getSessionFactory()
{
    return sessionFactory;
}

/**

```

```

* @return the {@link SslContextFactory} that manages TLS encryption
* @see #WebSocketClient(SslContextFactory)
*/
@Override
public SslContextFactory getSslContextFactory()
{
    return httpClient.getSslContextFactory();
}

@Override
public void addSessionListener(WebSocketSessionListener listener)
{
    this.sessionListeners.add(listener);
}

@Override
public void removeSessionListener(WebSocketSessionListener listener)
{
    this.sessionListeners.remove(listener);
}

@Override
public Collection<WebSocketSessionListener> getSessionListeners()
{
    return this.sessionListeners;
}

private synchronized void init()
{
    if (isStopAtShutdown() && !ShutdownThread.isRegistered(this))
    {
        ShutdownThread.register(this);
    }
}

/**
 * Factory method for new ConnectionManager
 *
 * @return the ConnectionManager instance to use
 * @deprecated use HttpClient instead
 */
@Deprecated
protected ConnectionManager newConnectionManager()
{
    throw new UnsupportedOperationException("ConnectionManager is no longer supported");
}

@Override

```

```

public void onSessionClosed(WebSocketSession session)
{
    if (LOG.isDebugEnabled())
        LOG.debug("Session Closed: {}",session);
    removeBean(session);
}

@Override
public void onSessionOpened(WebSocketSession session)
{
    if (LOG.isDebugEnabled())
        LOG.debug("Session Opened: {}",session);
    addManaged(session);
}

public void setAsyncWriteTimeout(long ms)
{
    getPolicy().setAsyncWriteTimeout(ms);
}

/**
 * @param bindAddress the address to bind to
 * @deprecated (this is a bad bad bad typo) use {@link HttpClient#setBindAddress(SocketAddress)}
 * on instance passed to {@link #WebSocketClient(HttpClient)}
 */
@Deprecated
public void setBindAddress(SocketAddress bindAddress)
{
    setBindAddress(bindAddress);
}

/**
 * @param bindAddress the address to bind to
 * @deprecated Use {@link HttpClient#setBindAddress(SocketAddress)}
 * on instance passed to {@link #WebSocketClient(HttpClient)}
 */
@Deprecated
public void setBindAddress(SocketAddress bindAddress)
{
    this.httpClient.setBindAddress(bindAddress);
}

/**
 * @param bufferPool The buffer pool
 * @deprecated Use {@link HttpClient#setByteBufferPool(ByteBufferPool)}
 * on the instance passed to {@link #WebSocketClient(HttpClient)}
 */

```



```

public void setBufferPool(ByteBufferPool bufferPool)
{
    this.httpClient.setByteBufferPool(bufferPool);
}

/**
 * Set the timeout for connecting to the remote server.
 * @param ms the timeout in milliseconds
 * @deprecated Use { @link HttpClient#setConnectTimeout(long)}
 * on the instance passed to { @link #WebSocketClient(HttpClient)}
 */
public void setConnectTimeout(long ms)
{
    this.httpClient.setConnectTimeout(ms);
}

/**
 * @param cookieStore The cookie store
 * @deprecated Use { @link HttpClient#setCookieStore(CookieStore)} on the HttpClient instance passed
 * to { @link #WebSocketClient(HttpClient)}
 */
@Deprecated
public void setCookieStore(CookieStore cookieStore)
{
    this.httpClient.setCookieStore(cookieStore);
}

/**
 * @deprecated not used, configure threading in HttpClient instead
 * @param daemon do nothing
 */
@Deprecated
public void setDaemon(boolean daemon)
{
    // do nothing
}

@Deprecated
public void setDispatchIO(boolean dispatchIO)
{
    this.httpClient.setDispatchIO(dispatchIO);
}

/**
 * @param executor The executor to use
 * @deprecated Use { @link HttpClient#setExecutor(Executor)}
 * on the instance passed to { @link #WebSocketClient(HttpClient)}
 */

```

```

@Deprecated
public void setExecutor(Executor executor)
{
    this.httpClient.setExecutor(executor);
}

/**
 * @deprecated not used, no replacement
 * @param masker do nothing
 */
@Deprecated
public void setMasker(Masker masker)
{
    /* do nothing */
}

public void setMaxBinaryMessageBufferSize(int max)
{
    getPolicy().setMaxBinaryMessageBufferSize(max);
}

/**
 * Set the max idle timeout for new connections.
 * <p>
 * Existing connections will not have their max idle timeout adjusted.
 *
 * @param ms the timeout in milliseconds
 */
public void setMaxIdleTimeout(long ms)
{
    getPolicy().setIdleTimeout(ms);
    this.httpClient.setIdleTimeout(ms);
}

public void setMaxTextMessageBufferSize(int max)
{
    getPolicy().setMaxTextMessageBufferSize(max);
}

public HttpClient getHttpClient()
{
    return this.httpClient;
}

/**
 * Set JVM shutdown behavior.
 * @param stop If true, this client instance will be explicitly stopped when the
 * JVM is shutdown. Otherwise the application is responsible for maintaining the WebSocketClient lifecycle.

```

```

* @see Runtime#addShutdownHook(Thread)
* @see ShutdownThread
*/
public synchronized void setStopAtShutdown(boolean stop)
{
    if (stop)
    {
        if (!stopAtShutdown && isStarted() && !ShutdownThread.isRegistered(this))
            ShutdownThread.register(this);
    }
    else
        ShutdownThread.deregister(this);

    stopAtShutdown = stop;
}

public boolean isStopAtShutdown()
{
    return stopAtShutdown;
}

@Override
public boolean equals(Object o)
{
    if (this == o) return true;
    if (!(o instanceof WebSocketClient)) return false;
    WebSocketClient that = (WebSocketClient) o;
    return Objects.equals(this.httpClient, that.httpClient) &&
        Objects.equals(this.policy, that.policy);
}

@Override
public int hashCode()
{
    return Objects.hash(httpClient, policy);
}

@Override
public String toString()
{
    final StringBuilder sb = new StringBuilder("WebSocketClient@");
    sb.append(Integer.toHexString(hashCode()));
    sb.append("[httpClient=").append(httpClient);
    sb.append(",openSessions.size=");
    sb.append(getOpenSessions().size());
    sb.append(']');
    return sb.toString();
}

```

}  
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# 1.349 websocket-common 9.4.18.v20190429

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-----  
Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

-----

Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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



org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.357 xpp3\_min 1.1.4c

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* $Id: MXParser.java,v 1.52 2006/11/09 18:29:37 aslom Exp $
*/

```

## 1.358 xsom 2.3.2

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\* Project home: <https://projects.eclipse.org/projects/ee4j.jaxb-impl>

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The project maintains the following source code repositories:

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## 1.360 zlib 1.2.3

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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