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1.304 XML Pull Parsing API 1.1.3.1

1.305 XStream Core 1.4.3

1.305.1 Available under license

1.306 zipkin 1.24.0

1.306.1 Available under license

1.307 zipkin-reporter 0.10.0

1.307.1 Available under license

1.308 zipkin-sender-okhttp3 0.10.0

1.308.1 Available under license

1.309 zkclient 0.8

1.309.1 Available under license

1.310 zkclient 0.9

1.310.1 Available under license

1.311 zookeeper 3.4.6

1.311.1 Available under license

1.312 zookeeper 3.4.8

1.312.1 Available under license

1.313 zookeeper/activation 3.4.8

1.313.1 Available under license

1.314 zookeeper/jboss-logging 3.4.8

1.314.1 Available under license

1.315 zookeeper/jtoaster+jersey+grizzly 3.4.8

1.315.1 Available under license

1.316 zookeeper/zooinpector-icons 3.4.8

1.316.1 Available under license

1.1 ag-grid 10.1.0

1.1.1 Available under license :

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```

<?php
$navKey = "about";
include_once 'includes/html-helpers.php';
gtm_data_layer('about');
?>
<!DOCTYPE html>
<html lang="en">
<head lang="en">
<?php
meta_and_links("Our Mission, Our Principles and Our Team at ag-Grid", "About ag-Grid", "ag-Grid is a feature-
rich datagrid available in Free or Enterprise versions. This is the story of ag-Grid and explains our mission, where
we came from and who we are.", true);
?>
<link rel="stylesheet" href="dist/homepage.css">
</head>

<body>
<header id="nav" class="compact">
<?php
    $version = 'latest';
    include './includes/navbar.php';
?>
</header>

<div class="info-page">
    <div class="row">
        <section>

```

```

    <!DOCTYPE html>
<html>

<h1 class="text-center">Legal Policy</h1>

<hr>

<body class="text-center">

<p>Welcome to ag-Grid's legal policies page.</p>

<p>Here you can navigate through our legal policies, including our <strong>Privacy Policy</strong> and
<strong>Cookies Policy</strong>.

<hr>
</body>

```

```

<body class="text-center">

<p>Welcome to ag-Grid's Privacy Policy.<br>
<strong>Your privacy is important to us.</strong><br>
At ag-grid, we are fully committed to protecting your personal data and complying with all data privacy laws.
<br>
This policy serves as a guide and reference point for how we may collect and use personal information, and the
rights and choices available to all our visitors and customers.
<br><br>
We strongly recommend you read our policy and understand what we collect, how we collect it, what we do with it,
how we protect it, and your rights regarding information, <strong>before</strong> you use or access any of our
services.
</p>

</body>

```

```

<a href="privacy.php"><button type="button" class="btn btn-primary btn-lg btn-block">Privacy
Policy</button></a>
<hr>
<p class="text-center">
Welcome to ag-Grid's Cookie Policy.
<br>
<strong>Your choice is important to us.</strong>
<br><br>

```

```

    This site uses cookies small text files that are placed on your machine to help the site provide a better user
experience. In general, cookies are used to retain user preferences, store information for things like shopping
baskets, and provide anonymised tracking data to third party applications like Google Analytics. As a rule, cookies
will make your browsing experience better. However, you may prefer to disable cookies on this site and on others.
<br><br>

```

```

    We strongly recommend you read our policy and understand what a cookie is, how we use them and your rights in

```

relation to them.

```
<br><br>
<a href="cookies.php"><button type="button" class="btn btn-primary btn-lg btn-block"
href="cookies.php">Cookies Policy</button></a>
</p>
<hr>

</html>
```

```
</section>
</div>
</div>
```

```
<?php include_once("../includes/footer.php"); ?>
<?php include_once("../includes/analytics.php"); ?>
</body>
</html>
```

```
.license-question {
  font-size: 1rem;
  font-weight: 500;
}
```

```
#licenses {
  .col-md-4 {
    @extend .align-self-center;
  }
}
```

```
.col-md-4:first-child .license {
  margin-left: 0;
}
```

```
.col-md-4:last-child .license {
  margin-right: 0;
}
```

```
.license.recommended {
  padding-top: 0rem;
}
```

```
.card-header {
  background-color: $blue-2;
  color: $white;
}
```

```
border-color: $blue-2;
```

```

.btn {
  @extend .btn-primary;
}
}

.license {
  padding-top: 49px;

  margin: 1rem;
  @extend .card, .text-center;
  background-color: $gray-100;

  .btn {
    @extend .btn-outline-secondary, .btn-lg;
    background-color: $white;
    display: block;
  }

  p {
    @extend .mt-5;
    font-size: 0.9rem;
  }
}

h3 {
  font-size: 1rem;
}

h4 {
  font-size: 2rem;
  margin-top: 2rem;
  span {
    font-size: 0.7rem;
    display: block;
    font-weight: 300;
  }
}

.card-footer {
  background-color: transparent;
  border-top: 0;
}

#faq {
  margin-top: 1rem;
  dt {
    margin-bottom: 1rem;
  }
}

```

```

    }

    dd {
        margin-bottom: 2rem;
    }
}

// taken from old CSS
.hide {
    display: none;
}

.form-control {
    -webkit-border-radius: 5px;
    -moz-border-radius: 5px;
    border-radius: 5px;
}

.curved-border {
    border-radius: 5px;
    border: 1px solid #ccc;
    margin-top: 15px;
}

.popover{
    max-width: 100%;
    width: 600px;
}
<?php
$pageTitle = "ag-Grid Reference: Setting the License Key";
$pageDescription = "ag-Grid is a feature-rich datagrid available in Free or Enterprise versions. This page explains
how to set the License Key in ag-Grid Enterprise";
$pageKeyboards = "ag-Grid JavaScript Data Grid Excel License Key";
$pageGroup = "feature";
include '../documentation-main/documentation_header.php';
?>

<h1 class="heading-enterprise">Set License</h1>

<p class="lead">
    Set the license key via the JavaScript method as described below.
    ag-Grid checks the license key without making any network calls.
    The license key is set once for the grid library. You do not need to set the license key for each instance of
    ag-Grid that you create. You must set the license key before you create an instance of ag-Grid.
</p>

<p>Note that it is crucial that you pass the key exactly as provided by ag-Grid - do not modify the key in any
way.</p>

```

<note>

If you are distributing your product and including ag-Grid Enterprise, we realise that your license key will be visible to others. We appreciate that this is happening and just ask that you don't advertise it. Given our product is JavaScript, there is little we can do to prevent this.

</note>

<h2>JavaScript</h2>

<p>

Use this if you are using the bundled version of ag-Grid (e.g. you are using `ag-grid-enterprise.js`).

</p>

<snippet>

```
agGrid.LicenseManager.setLicenseKey("your license key");
```

</snippet>

<h2>CommonJS</h2>

<p>Use this if you are using CommonJS to load ag-Grid.</p>

<snippet>

```
var enterprise = require("ag-grid-enterprise");
enterprise.LicenseManager.setLicenseKey("your license key");
```

</snippet>

<h2>Do Not Mix Loading Mechanisms</h2>

<p>

If you mix the methods above (eg if you are using CommonJS in your application, but use the JavaScript approach

above to set license key) then it will not work. This is because the ag-Grid library will be loaded twice, one will have the license key and the other will be used in your application without the license key.

</p>

<h2>Angular</h2>

<p>We recommend setting the license key in your main boot files (typically named either `main.ts` or `boot.ts`), before you bootstrap your application.</p>

<p>For example:</p>

<snippet>

```
import {platformBrowser} from "@angular/platform-browser";
import {AppModuleNgFactory} from "../aot/app/app.module.ngfactory";
```

```
import {LicenseManager} from "ag-grid-enterprise";
```

```
LicenseManager.setLicenseKey("your license key");
```

```
platformBrowser().bootstrapModuleFactory(AppModuleNgFactory);  
</snippet>
```

<h2>React</h2>

<p>We recommend setting the license key in your main bootstrap file (typically named <code>index.js</code>), before you bootstrap your application.</p>

<p>For example:</p>

```
<snippet>  
import React from "react";  
import {render} from "react-dom";  
  
import "ag-grid-root/dist/styles/ag-grid.css";  
import "ag-grid-root/dist/styles/ag-theme-balham.css";  
  
import {LicenseManager} from "ag-grid-enterprise";  
LicenseManager.setLicenseKey("your license key");  
  
import App from "./App";  
  
document.addEventListener('DOMContentLoaded', () => {  
  render(  
    <App/>,  
    document.querySelector('#app')  
  );  
});  
</snippet>
```

<h2>VueJS</h2>

<p>We recommend setting the license key in your main bootstrap file (typically named <code>main.js</code>), before you bootstrap your application.</p>

<p>For example:</p>

```
<snippet>  
import Vue from "vue";  
  
import "../node_modules/ag-grid/dist/styles/ag-grid.css";  
import "../node_modules/ag-grid/dist/styles/ag-theme-balham.css";  
  
import "ag-grid-enterprise";  
import {LicenseManager} from "ag-grid-enterprise";
```



```
LicenseManager.setLicenseKey("your license key");
```

```
new Vue({  
  el: "#el",  
  ...  
});  
</snippet>
```

```
<h2> Polymer</h2>
```

```
<p>You have two choices as to where to set your license key in Polymer.</p>
```

```
<p>If you have many components with agGrid in, the we suggest  
  you run a separate script to reference and set the license key - for example:</p>
```

```
<snippet language="html">  
<script src="../../bower_components/ag-grid-enterprise/dist/ag-grid-enterprise.noStyle.js"></script>
```

```
<!-- ag-grid-polymer element -->  
<link rel="import" href="../../bower_components/ag-grid-polymer/ag-grid-polymer.html">
```

```
<!-- your code -->  
<!-- licenseKey.js will be responsible for setting the license key across the application -->  
<script src="licenseKey.js"></script>  
<link rel="import" href="grid-component-one.html">  
<link rel="import" href="grid-component-one.html">  
</snippet>  
<snippet>
```

```
// licenseKey.js  
agGrid.LicenseManager.setLicenseKey("your license key")  
</snippet>
```

```
<p>If you have a single component, or a single component that in turn has the child components, you can set the  
  license key in this parent component - for example:</p>
```

```
<snippet language="html">  
<script src="../../bower_components/ag-grid-enterprise/dist/ag-grid-enterprise.noStyle.js"></script>
```

```
<!-- ag-grid-polymer element -->  
<link rel="import" href="../../bower_components/ag-grid-polymer/ag-grid-polymer.html">
```

```
<!-- your code -->  
<link rel="import" href="main-component-one.html">  
</snippet>
```

```
<snippet language="html">  
<dom-module id="simple-grid-example">
```

```

<template id="template">
<div >
<ag-grid-polymer style="width: 100%; height: 350px;"
class="ag-theme-balham"
rowData="{{ rowData }}"
columnDefs="{{ columnDefs }}"></ag-grid-polymer>
</div>
</template>

```

```

<script>
agGrid.LicenseManager.setLicenseKey("your license key")

```

```

class SimpleGridExample extends Polymer.Element {
...
}
</script>

```

```

</snippet>

```

```

<h2> Aurelia</h2>

```

<p> For Aurelia users, we suggest you set your License Key in the <code>configure</code> function, as follows:
</p>

```

<snippet>
export function configure(aurelia: Aurelia) {
  aurelia.use
  .standardConfiguration()
  .plugin('ag-grid-aurelia')
  .feature('resources');

  LicenseManager.setLicenseKey("your license key");

  // ...rest of function
</snippet>

```

```

<?php include '../documentation-main/documentation_footer.php'; ?>
<?php
$navKey = "licenseAndPricing";
include_once 'includes/html-helpers.php';
gtm_data_layer('community-enterprise');
?>
<!DOCTYPE html>
<html lang="en">
<head lang="en">
<?php
meta_and_links("ag-Grid: License and Pricing", "ag-Grid Javascript Grid License and Pricing", "ag-Grid is a

```

feature-rich datagrid available in Free or Enterprise versions. This page shows a describes the License and Pricing details for ag-Grid Enterprise.", true);

?>

<!-- Facebook Pixel Code -->

<script>

```
!function(f,b,e,v,n,t,s){if(f.fbq)return;n=f.fbq=function(){n.callMethod?
n.callMethod.apply(n,arguments):n.queue.push(arguments)};if(!f._fbq)f._fbq=n;
n.push=n;n.loaded=!0;n.version='2.0';n.queue=[];t=b.createElement(e);t.async=!0;
t.src=v;s=b.getElementsByTagName(e)[0];s.parentNode.insertBefore(t,s)}(window,
document,'script','https://connect.facebook.net/en_US/fbevents.js');
fbq('init', '512303249109564'); // Insert your pixel ID here.
fbq('track', 'PageView');
```

</script>

```
<noscript></noscript>
```

<!-- DO NOT MODIFY -->

<!-- End Facebook Pixel Code -->

<link rel="stylesheet" href="dist/homepage.css">

</head>

<body ng-app="index">

<!-- trackers -->

<script>

```
fbq('track', 'ViewContent');
```

</script>

<script type="text/javascript">

```
_linkedin_data_partner_id = "71830";
```

</script><script type="text/javascript">

```
(function(){ var s = document.getElementsByTagName("script")[0];
```

```
var b = document.createElement("script");
```

```
b.type = "text/javascript";b.async = true;
```

```
b.src = "https://snap.lidn.com/li.lms-analytics/insight.min.js";
```

```
s.parentNode.insertBefore(b, s);})();
```

</script>

<noscript>

```

```

</noscript>

<header id="nav" class="compact">

<?php

```
$version = 'latest';
```

```

include './includes/navbar.php';
?>
</header>

<div class="info-page">
  <div class="row">
    <section>

      <div id="thankyou" style="display: none"> Thank you for contacting ag-Grid. We'll be in contact shortly.
</div>

      <h1>ag-Grid Pricing</h1>
<hr>
      <p class="lead">ag-Grid comes in two versions &ndash; <strong>Community</strong> and
<strong>Enterprise</strong>. Let's go over the differences between the two, so you can pick the one that is most
suitable for your project.</p>
<!--
      <p class="lead">Ag-Grid comes in two versions &ndash; <strong>Community</strong> and
<strong>Enterprise</strong>. The document outlines the important differences between the two.</p>
      <p class="lead">The Community edition is <strong>MIT licensed</strong>, supports all major
JavaScript frameworks, includes all essential datagrid features and can be used free of charge.</p>
      <p class="lead">The enterprise version is <strong>commercially licensed</strong>, includes everything
from the community edition, adds a set of advanced features that target scenarios commonly found in the enterprise,
and includes dedicated private support with 24h response time SLA.</p>
-->

    <div class="mb-5">
      <div class="row">
        <div class="col-sm-6">
          <div class="card h-100">
            <div class="card-body">
              <h2 class="card-title">ag-Grid Community</h2>
              <h3 class="h5 card-subtitle mb-2 text-muted">MIT License</h3>

              <ul class="card-text">
                <li>All essential datagrid features</li>
                <li>Community support</li>
              </ul>

              <br />

            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
  <div class="col-sm-6">
    <div class="card h-100">

```

```

<div class="card-body">
  <h2 class="card-title">ag-Grid Enterprise</h2>
  <h3 class="h5 card-subtitle mb-2 text-muted">Commercial License</h3>
  <ul class="card-text">
    <li>All Community features + </li>
    <li><strong>A premium set of enterprise oriented features</strong></li>
    <li><strong>Dedicated support</strong></li>
  </ul>
</div>
</div>
</div>
</div>
</div>
</div>

```

```
<h2>License and Pricing for ag-Grid Enterprise</h2>
```

```
<p>
```

```
  ag-Grid Enterprise is our commercial product that is designed for Enterprise development teams.
```

```
  The commercial licenses are <strong>perpetual</strong> and include <strong>one year</strong> of support, maintenance and upgrades.
```

```
We offer three flavors &ndash; <strong>Single Application Developer</strong>, <strong>Multiple Application Developer</strong> and <strong>SaaS / OEM</strong>.
```

```
</p>
```

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

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

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

```
<div class="license">
```

```
<div class="card-body">
```

```
<h3>Single Application Developer</h3>
```

```
<h4>&dollar;750 USD
```

```
<span>per Developer</span>
```

```
</h4>
```

```
<p>Usage of ag-Grid Enterprise in a <br><strong>single application</strong></p>
```

```
<p><a href="start-trial.php">Sign up for a free trial</a></p>
```

```
</div>
```

```
<div class="card-footer">
```

```
<a class="btn"
```

```
  data-product-type="single-developer"
```

```
  href="#"
```

```
  data-toggle="modal"
```

```
  data-target=".orderForm-applicationDeveloper">Enquire</a>
```

```
</div>
```

```
</div>
```

</div>

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

<div class="license recommended">

<div class="card-header"> Recommended </div>

<div class="card-body">

<h3>Multiple Application Developer</h3>

<h4>$1,200 USD

per Developer

</h4>

<p>Usage of ag-Grid Enterprise in
multiple applications</p>

<p>Sign up for a free trial</p>

</div>

<div class="card-footer">

Enquire

</div>

</div>

</div>

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

<div class="license">

<div class="card-body">

<h3>SaaS and OEM</h3>

<h4>POA

price on asking

</h4>

<p>Usage of ag-Grid Enterprise in
SaaS/OEM Applications</p>

<p>Sign up for a free trial</p>

</div>

<div class="card-footer">

Enquire

</div>

</div>

</div>

</div>

</div>

<h2 class="small-block">Which License Should You Choose? </h2>

<p>To pick the correct license, answer these simple questions: </p>

<h3 class="license-question">— Are you using ag-Grid Enterprise in one application? </h3>

<p>If it's one application, a Single Application License is correct. Otherwise a Multiple Application License is best.</p>

<h3 class="license-question">— Is your application for an internal or external end-user?</h3>

<p>If external, then you also need SaaS or OEM licensing.</p>

<p>If you still need help figuring out which one of the above is most suitable for your case, contact us.</p>

<h2>Features Exclusive to ag-Grid Enterprise</h2>

<p>

To review all features exclusive to the enterprise, check our documentation overview. The enterprise features are marked with e.

</p>

<h2>Community / Enterprise Support</h2>

<p>Purchasing a license for ag-Grid Enterprise grants you access to our ticketing system, which means guaranteed response in a 24 hour during weekdays.</p>

<p>If you are using the community version of ag-Grid, you can follow the Stack Overflow <code>ag-grid</code> tag.

We also accept bug reports with reproduction in the ag-grid/ag-grid GitHub repository issues - follow the issue template.</p>

<hr>

<h2>Frequently Asked Questions</h2>

<dl id="faq">

<dt>What is the difference between Single Application Developer License and Multiple Application Developer License?</dt>

<dd>

<p>

Single Application developer license ties the license to one particular application within your organisation.

A typical example is 5 licenses to cover an application with 5 developers working concurrently on it.

This is best if you a) have only one (or a fixed number) of applications you need to license or b) you want to charge the license to a particular project(s).

</p>

<p>

Multiple Application developer license allows unlimited applications to be developed by a fixed

number of developers.

A typical example is 5 license to cover an **unlimited number of applications** with 5 developers working

across all applications concurrently. Use site license if you want to cover a group of developers developing any number of applications.

</p>

</dd>

<dt>What are OEM and SaaS Licenses?</dt>

<dd>

<p>

SaaS is Software as a Service.

If you will be **selling**

ag-Grid as part of a SaaS then you require an additional SaaS license.

</p>

<p>

OEM is Original

Equipment

Manufacturer. If you will be **selling**

ag-Grid as part of your product then you require additional OEM license.

</p>

</dd>

<dt>Do developers have to be named?</dt>

<dd>

<p>

No. If you license an application you provide the number of developers working on that application.

We trust that you do not go over the number of concurrent developers on that application at any given time. Developers moving on and off projects is expected to be normal.

</p>

</dd>

<dt>What does perpetual mean?</dt>

<dd>

<p>

The perpetual nature of the Enterprise license means you can continue to use the version of **ag-Grid Enterprise**, plus any release for one year, indefinitely. There is no

requirement to

pay again to continue using the software. However if you wish to keep up to date with the

latest versions of **ag-Grid** after one year and continue with support, you must

extend the

license.

</p>

</dd>

<dt>Do you provide bulk or other license types?</dt>

<dd>


```

        <p>
            Yes. Get in touch and tell us what you are looking for. We are always open to discussion and will
            propose what we think is fair.
        </p>
    </dd>

    <dt>Why do we collect your data?</dt>
    <dd>
        <p>
            We collect your information from the enquiry form to add to our form and use it to be able to send
            you the license key.
        <br>
            Refer to our <a href="https://www.ag-grid.com/privacy.php">privacy policy</a> for more
            information.
        </p>
    </dd>
</dl>

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

<!-- The Order Form Modal -->
<div class="modal fade orderForm-applicationDeveloper" tabindex="-1" role="dialog" aria-
labelledby="orderFormLabel">
    <div class="modal-dialog modal-lg" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h4 class="modal-title">Order Enquiry</h4>
                <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>
            <div class="modal-body">
                <?php
                    $formKey = "applicationDeveloper";
                    include("includes/orderForm.php"); ?>
            </div>
        </div>
    </div>
</div>
</div>

<!-- The Order Form Modal -->
<div class="modal fade orderForm-siteDeveloper" tabindex="-1" role="dialog" aria-labelledby="orderFormLabel">
    <div class="modal-dialog modal-lg" role="document">
        <div class="modal-content">
            <div class="modal-header">

```

```

    <h4 class="modal-title">Order Enquiry</h4>
    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
      <span aria-hidden="true">&times;</span>
    </button>
  </div>
  <div class="modal-body">
    <?php
      $formKey = "siteDeveloper";
      include("includes/orderForm.php"); ?>
  </div>
</div>
</div>
</div>

<!-- The Order Form Modal -->
<div class="modal fade orderForm-saasAndOEM" tabindex="-1" role="dialog" aria-labelledby="orderFormLabel">
  <div class="modal-dialog modal-lg" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title">Order Enquiry</h4>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <?php
          $formKey = "saasAndOEM";
          include("includes/orderForm.php"); ?>
      </div>
    </div>
  </div>
</div>
</div>
</div>
<?php include_once("../includes/footer.php"); ?>
<?php include_once("../includes/analytics.php"); ?>
<script>
if(window.location.href.indexOf("/community-support.php?submitted=true") !=-1)
{
(new
Image()).src="//www.googleadservices.com/pagead/conversion/873243008/?label=8TOnCM7BnWsQgMOyoAM&
guid=ON&script=0";
}
</script>
<script src="dist/homepage.js"></script>
</body>
</html>

```

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```
import {Bean, Autowired, PostConstruct} from "ag-grid-community";
```

```
@Bean('md5')
export class MD5 {
  private ieCompatibility = false;

  @PostConstruct
  private init():void {
    this.ieCompatibility = (this.md5('hello') != '5d41402abc4b2a76b9719d911017c592');
  }

  private md5cycle(x:any, k:any) {
    let a:any = x[0], b:any = x[1], c:any = x[2], d:any = x[3];

    a = this.ff(a, b, c, d, k[0], 7, -680876936);
    d = this.ff(d, a, b, c, k[1], 12, -389564586);
    c = this.ff(c, d, a, b, k[2], 17, 606105819);
    b = this.ff(b, c, d, a, k[3], 22, -1044525330);
    a = this.ff(a, b, c, d, k[4], 7, -176418897);
    d = this.ff(d, a, b, c, k[5], 12, 1200080426);
    c = this.ff(c, d, a, b, k[6], 17, -1473231341);
    b = this.ff(b, c, d, a, k[7], 22, -45705983);
    a = this.ff(a, b, c, d, k[8], 7, 1770035416);
    d = this.ff(d, a, b, c, k[9], 12, -1958414417);
    c = this.ff(c, d, a, b, k[10], 17, -42063);
    b = this.ff(b, c, d, a, k[11], 22, -1990404162);
    a = this.ff(a, b, c, d, k[12], 7, 1804603682);
    d = this.ff(d, a, b, c, k[13], 12, -40341101);
    c = this.ff(c, d, a, b, k[14], 17, -1502002290);
    b = this.ff(b, c, d, a, k[15], 22, 1236535329);

    a = this.gg(a, b, c, d, k[1], 5, -165796510);
    d = this.gg(d, a, b, c, k[6], 9, -1069501632);
```

```
c = this.gg(c, d, a, b, k[11], 14, 643717713);
b = this.gg(b, c, d, a, k[0], 20, -373897302);
a = this.gg(a, b, c, d, k[5], 5, -701558691);
d = this.gg(d, a, b, c, k[10], 9, 38016083);
c = this.gg(c, d, a, b, k[15], 14, -660478335);
b = this.gg(b, c, d, a, k[4], 20, -405537848);
a = this.gg(a, b, c, d, k[9], 5, 568446438);
d = this.gg(d, a, b, c, k[14], 9, -1019803690);
c = this.gg(c, d, a, b, k[3], 14, -187363961);
b = this.gg(b, c, d, a, k[8], 20, 1163531501);
a = this.gg(a, b, c, d, k[13], 5, -1444681467);
d = this.gg(d, a, b, c, k[2], 9, -51403784);
c = this.gg(c, d, a, b, k[7], 14, 1735328473);
b = this.gg(b, c, d, a, k[12], 20, -1926607734);
```

```
a = this.hh(a, b, c, d, k[5], 4, -378558);
d = this.hh(d, a, b, c, k[8], 11, -2022574463);
c = this.hh(c, d, a, b, k[11], 16, 1839030562);
b = this.hh(b, c, d, a, k[14], 23, -35309556);
a = this.hh(a, b, c, d, k[1], 4, -1530992060);
d = this.hh(d, a, b, c, k[4], 11, 1272893353);
c = this.hh(c, d, a, b, k[7], 16, -155497632);
b = this.hh(b, c, d, a, k[10], 23, -1094730640);
a = this.hh(a, b, c, d, k[13], 4, 681279174);
d = this.hh(d, a, b, c, k[0], 11, -358537222);
c = this.hh(c, d, a, b, k[3], 16, -722521979);
b = this.hh(b, c, d, a, k[6], 23, 76029189);
a = this.hh(a, b, c, d, k[9], 4, -640364487);
d = this.hh(d, a, b, c, k[12], 11, -421815835);
c = this.hh(c, d, a, b, k[15], 16, 530742520);
b = this.hh(b, c, d, a, k[2], 23, -995338651);
```

```
a = this.ii(a, b, c, d, k[0], 6, -198630844);
d = this.ii(d, a, b, c, k[7], 10, 1126891415);
c = this.ii(c, d, a, b, k[14], 15, -1416354905);
b = this.ii(b, c, d, a, k[5], 21, -57434055);
a = this.ii(a, b, c, d, k[12], 6, 1700485571);
d = this.ii(d, a, b, c, k[3], 10, -1894986606);
c = this.ii(c, d, a, b, k[10], 15, -1051523);
b = this.ii(b, c, d, a, k[1], 21, -2054922799);
a = this.ii(a, b, c, d, k[8], 6, 1873313359);
d = this.ii(d, a, b, c, k[15], 10, -30611744);
c = this.ii(c, d, a, b, k[6], 15, -1560198380);
b = this.ii(b, c, d, a, k[13], 21, 1309151649);
a = this.ii(a, b, c, d, k[4], 6, -145523070);
d = this.ii(d, a, b, c, k[11], 10, -1120210379);
c = this.ii(c, d, a, b, k[2], 15, 718787259);
b = this.ii(b, c, d, a, k[9], 21, -343485551);
```

```

    x[0] = this.add32(a, x[0]);
    x[1] = this.add32(b, x[1]);
    x[2] = this.add32(c, x[2]);
    x[3] = this.add32(d, x[3]);
}

private cmn(q:any, a:any, b:any, x:any, s:any, t:any) {
    a = this.add32(this.add32(a, q), this.add32(x, t));
    return this.add32((a << s) | (a >>> (32 - s)), b);
}

private ff(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn((b & c) | ((~b) & d), a, b, x, s, t);
}

private gg(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn((b & d) | (c & (~d)), a, b, x, s, t);
}

private hh(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn(b ^ c ^ d, a, b, x, s, t);
}

private ii(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn(c ^ (b | (~d)), a, b, x, s, t);
}

private md5l(s:any) {
    let n:any = s.length,
        state:any = [1732584193, -271733879, -1732584194, 271733878], i:any;
    for (i = 64; i <= s.length; i += 64) {
        this.md5cycle(state, this.md5blk(s.substring(i - 64, i)));
    }
    s = s.substring(i - 64);
    let tail = [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0];
    for (i = 0; i < s.length; i++)
        tail[i >> 2] |= s.charCodeAtAt(i) <<< ((i % 4) <<< 3);
    tail[i >> 2] |= 0x80 <<< ((i % 4) <<< 3);
    if (i > 55) {
        this.md5cycle(state, tail);
        for (i = 0; i < 16; i++) tail[i] = 0;
    }
    tail[14] = n * 8;
    this.md5cycle(state, tail);
    return state;
}

```

```

/* there needs to be support for Unicode here, * unless we pretend that we can redefine the MD-5
* algorithm for multi-byte characters (perhaps by adding every four 16-bit characters and
* shortening the sum to 32 bits). Otherwise I suthis.ggest performing MD-5 as if every character
* was two bytes--e.g., 0040 0025 = @%--but then how will an ordinary MD-5 sum be matched?
* There is no way to standardize text to something like UTF-8 before transformation; speed cost is
* utterly prohibitive. The JavaScript standard itself needs to look at this: it should start
* providing access to strings as preformed UTF-8 8-bit unsigned value arrays.
*/

```

```

private md5blk(s:any) { /* I figured global was faster. */
  let md5blks:any = [], i:any;
  /* Andy King said do it this way. */
  for (i = 0; i < 64; i += 4) {
    md5blks[i >> 2] = s.charCodeAt(i)
      + (s.charCodeAt(i + 1) << 8)
      + (s.charCodeAt(i + 2) << 16)
      + (s.charCodeAt(i + 3) << 24);
  }
  return md5blks;
}

```

```

private rhex(n:any) {
  let hex_chr:any = '0123456789abcdef'.split("");
  let s:string = "", j:any = 0;
  for (; j < 4; j++)
    s += hex_chr[(n >> (j * 8 + 4)) & 0x0F]
      + hex_chr[(n >> (j * 8)) & 0x0F];
  return s;
}

```

```

private hex(x:any) {
  for (let i:any = 0; i < x.length; i++)
    x[i] = this.rhex(x[i]);
  return x.join("");
}

```

```

public md5(s:any) {
  return this.hex(this.md51(s));
}

```

```

private add32(a:any, b:any) {
  return this.ieCompatibility ? this.add32Compat(a, b) : this.add32Std(a, b);
}

```

```

/* this function is much faster, so if possible we use it. Some IEs are the only ones I know of that
need the idiotic second function, generated by an if clause. */

```

```

private add32Std(a:any, b:any) {
  return (a + b) & 0xFFFFFFFF;
}

```



```

private add32Compat(x:any, y:any) {
  let lsw = (x & 0xFFFF) + (y & 0xFFFF),
      msw = (x >> 16) + (y >> 16) + (lsw >> 16);
  return (msw << 16) | (lsw & 0xFFFF);
}

}

```

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The following packages are MIT licensed:

- + ag-grid-community
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- + ag-grid-angular-cli-example
- + ag-grid-aurelia
- + ag-grid-aurelia-example
- + ag-grid-docs
- + ag-grid-react
- + ag-grid-react-example
- + ag-grid-vue
- + ag-grid-vue-example

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```
/**
```

```
@license @nocompile
```

```
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```

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```

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```

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```

```
*/
```

```
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```

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```
<?php
$navKey = "about";
include_once 'includes/html-helpers.php';
gtm_data_layer('about');
?>
<!DOCTYPE html>
<html lang="en">
<head lang="en">
<?php
meta_and_links("Our Mission, Our Principles and Our Team at ag-Grid", "About ag-Grid", "ag-Grid is a feature-
rich datagrid available in Free or Enterprise versions. This is the story of ag-Grid and explains our mission, where
we came from and who we are.", true);
?>
<link rel="stylesheet" href="dist/homepage.css">
</head>

<body>
<header id="nav" class="compact">
<?php
    $version = 'latest';
    include './includes/navbar.php';
?>
</header>

<div class="info-page">
    <div class="row">
        <section>

                <!DOCTYPE html>
```

```

<html>

<h1 class="text-center">Legal Policy</h1>

<hr>

<body class="text-center">

<p>Welcome to ag-Grid's legal policies page.</p>

<p>Here you can navigate through our legal policies, including our <strong>Privacy Policy</strong> and
<strong>Cookies Policy</strong>.

<hr>
</body>

<body class="text-center">

<p>Welcome to ag-Grid's Privacy Policy.<br>
<strong>Your privacy is important to us.</strong><br>
At ag-grid, we are fully committed to protecting your personal data and complying with all data privacy laws.
<br>
This policy serves as a guide and reference point for how we may collect and use personal information, and the
rights and choices available to all our visitors and customers.
<br><br>
We strongly recommend you read our policy and understand what we collect, how we collect it, what we do with it,
how we protect it, and your rights regarding information, <strong>before</strong> you use or access any of our
services.
</p>

</body>

<a href="privacy.php"><button type="button" class="btn btn-primary btn-lg btn-block">Privacy
Policy</button></a>
<hr>
<p class="text-center">
Welcome to ag-Grid's Cookie Policy.
<br>
<strong>Your choice is important to us.</strong>
<br><br>
    This site uses cookies small text files that are placed on your machine to help the site provide a better user
experience. In general, cookies are used to retain user preferences, store information for things like shopping
baskets, and provide anonymised tracking data to third party applications like Google Analytics. As a rule, cookies
will make your browsing experience better. However, you may prefer to disable cookies on this site and on others.
    <br><br>
    We strongly recommend you read our policy and understand what a cookie is, how we use them and your rights in
relation to them.

```

```
<br><br>
<a href="cookies.php"><button type="button" class="btn btn-primary btn-lg btn-block"
href="cookies.php">Cookies Policy</button></a>
</p>
<hr>

</html>
```

```
</section>
</div>
</div>
```

```
<?php include_once("../includes/footer.php"); ?>
<?php include_once("../includes/analytics.php"); ?>
</body>
</html>
```

```
.license-question {
  font-size: 1rem;
  font-weight: 500;
}
```

```
#licenses {
  .col-md-4 {
    @extend .align-self-center;
  }
```

```
.col-md-4:first-child .license {
  margin-left: 0;
}
```

```
.col-md-4:last-child .license {
  margin-right: 0;
}
```

```
.license.recommended {
  padding-top: 0rem;
```

```
.card-header {
  background-color: $blue-2;
  color: $white;
}
```

```
border-color: $blue-2;
```

```
.btn {
  @extend .btn-primary;
```

```

    }
  }

  .license {
    padding-top: 49px;

    margin: 1rem;
    @extend .card, .text-center;
    background-color: $gray-100;

    .btn {
      @extend .btn-outline-secondary, .btn-lg;
      background-color: $white;
      display: block;
    }

    p {
      @extend .mt-5;
      font-size: 0.9rem;
    }
  }

  h3 {
    font-size: 1rem;
  }

  h4 {
    font-size: 2rem;
    margin-top: 2rem;
    span {
      font-size: 0.7rem;
      display: block;
      font-weight: 300;
    }
  }

  .card-footer {
    background-color: transparent;
    border-top: 0;
  }
}

#faq {
  margin-top: 1rem;
  dt {
    margin-bottom: 1rem;
  }
}

```

```

    dd {
        margin-bottom: 2rem;
    }
}

// taken from old CSS
.hide {
    display: none;
}

.form-control {
    -webkit-border-radius: 5px;
    -moz-border-radius: 5px;
    border-radius: 5px;
}

.curved-border {
    border-radius: 5px;
    border: 1px solid #ccc;
    margin-top: 15px;
}

.popover{
    max-width: 100%;
    width: 600px;
}
<?php
$pageTitle = "ag-Grid Reference: Setting the License Key";
$pageDescription = "ag-Grid is a feature-rich datagrid available in Free or Enterprise versions. This page explains
how to set the License Key in ag-Grid Enterprise";
$pageKeyboards = "ag-Grid JavaScript Data Grid Excel License Key";
$pageGroup = "feature";
include '../documentation-main/documentation_header.php';
?>

<h1 class="heading-enterprise">Set License</h1>

<p class="lead">
    Set the license key via the JavaScript method as described below.
    ag-Grid checks the license key without making any network calls.
    The license key is set once for the grid library. You do not need to set the license key for each instance of
    ag-Grid that you create. You must set the license key before you create an instance of ag-Grid.
</p>

<p>Note that it is crucial that you pass the key exactly as provided by ag-Grid - do not modify the key in any
way.</p>

<note>

```

If you are distributing your product and including ag-Grid Enterprise, we realise that your license key will be visible to others. We appreciate that this is happening and just ask that you don't advertise it. Given our product is JavaScript, there is little we can do to prevent this.

</note>

<h2>JavaScript</h2>

<p>

Use this if you are using the bundled version of ag-Grid (e.g. you are using `ag-grid-enterprise.js`).

</p>

<snippet>

```
agGrid.LicenseManager.setLicenseKey("your license key");
```

</snippet>

<h2>CommonJS</h2>

<p>Use this if you are using CommonJS to load ag-Grid.</p>

<snippet>

```
var enterprise = require("ag-grid-enterprise");
enterprise.LicenseManager.setLicenseKey("your license key");
```

</snippet>

<h2>Do Not Mix Loading Mechanisms</h2>

<p>

If you mix the methods above (eg if you are using CommonJS in your application, but use the JavaScript approach

above to set license key) then it will not work. This is because the ag-Grid library will be loaded twice, one will have the license key and the other will be used in your application without the license key.

</p>

<h2>Angular</h2>

<p>We recommend setting the license key in your main boot files (typically named either `main.ts` or

`boot.ts`), before you bootstrap your application.</p>

<p>For example:</p>

<snippet>

```
import {platformBrowser} from "@angular/platform-browser";
import {AppModuleNgFactory} from "../aot/app/app.module.ngfactory";
```

```
import {LicenseManager} from "ag-grid-enterprise";
LicenseManager.setLicenseKey("your license key");
```

```
platformBrowser().bootstrapModuleFactory(AppModuleNgFactory);
</snippet>
```

<h2>React</h2>

<p>We recommend setting the license key in your main bootstrap file (typically named <code>index.js</code>), before you bootstrap your application.</p>

<p>For example:</p>

```
<snippet>
import React from "react";
import {render} from "react-dom";

import "ag-grid-root/dist/styles/ag-grid.css";
import "ag-grid-root/dist/styles/ag-theme-balham.css";

import {LicenseManager} from "ag-grid-enterprise";
LicenseManager.setLicenseKey("your license key");

import App from "./App";

document.addEventListener('DOMContentLoaded', () => {
  render(
    <App/>,
    document.querySelector('#app')
  );
});
</snippet>
```

<h2> VueJS</h2>

<p>We recommend setting the license key in your main bootstrap file (typically named <code>main.js</code>), before you bootstrap your application.</p>

<p>For example:</p>

```
<snippet>
import Vue from "vue";

import "../node_modules/ag-grid/dist/styles/ag-grid.css";
import "../node_modules/ag-grid/dist/styles/ag-theme-balham.css";

import "ag-grid-enterprise";
import {LicenseManager} from "ag-grid-enterprise";

LicenseManager.setLicenseKey("your license key");
```



```
new Vue({
  el: "#el",
  ...
});
</snippet>
```

```
<h2> Polymer</h2>
```

<p>You have two choices as to where to set your license key in Polymer.</p>

<p>If you have many components with agGrid in, the we suggest you run a separate script to reference and set the license key - for example:</p>

```
<snippet language="html">
<script src="../../bower_components/ag-grid-enterprise/dist/ag-grid-enterprise.noStyle.js"></script>
```

```
<!-- ag-grid-polymer element -->
<link rel="import" href="../../bower_components/ag-grid-polymer/ag-grid-polymer.html">
```

```
<!-- your code -->
<!-- licenseKey.js will be responsible for setting the license key across the application -->
<script src="licenseKey.js"></script>
<link rel="import" href="grid-component-one.html">
<link rel="import" href="grid-component-one.html">
</snippet>
<snippet>
```

```
// licenseKey.js
agGrid.LicenseManager.setLicenseKey("your license key")
</snippet>
```

<p>If you have a single component, or a single component that in turn has the child components, you can set the license key in this parent component - for example:</p>

```
<snippet language="html">
<script src="../../bower_components/ag-grid-enterprise/dist/ag-grid-enterprise.noStyle.js"></script>
```

```
<!-- ag-grid-polymer element -->
<link rel="import" href="../../bower_components/ag-grid-polymer/ag-grid-polymer.html">
```

```
<!-- your code -->
<link rel="import" href="main-component-one.html">
</snippet>
```

```
<snippet language="html">
<dom-module id="simple-grid-example">
<template id="template">
<div >
```

```

<ag-grid-polymer style="width: 100%; height: 350px;"
class="ag-theme-balham"
rowData="{{ rowData }}"
columnDefs="{{ columnDefs }}"></ag-grid-polymer>
</div>
</template>

```

```

<script>
agGrid.LicenseManager.setLicenseKey("your license key")

```

```

class SimpleGridExample extends Polymer.Element {
...
}
</script>

```

```

</snippet>

```

```

<h2> Aurelia</h2>

```

<p> For Aurelia users, we suggest you set your License Key in the <code>configure</code> function, as follows:
 </p>

```

<snippet>
export function configure(aurelia: Aurelia) {
  aurelia.use
    .standardConfiguration()
    .plugin('ag-grid-aurelia')
    .feature('resources');

  LicenseManager.setLicenseKey("your license key");

  // ...rest of function
}
</snippet>

```

```

<?php include '../documentation-main/documentation_footer.php'; ?>
<?php
$navKey = "licenseAndPricing";
include_once 'includes/html-helpers.php';
gtm_data_layer('community-enterprise');
?>
<!DOCTYPE html>
<html lang="en">
<head lang="en">
<?php
meta_and_links("ag-Grid: License and Pricing", "ag-Grid Javascript Grid License and Pricing", "ag-Grid is a
feature-rich datagrid available in Free or Enterprise versions. This page shows adescribes the License and Pricing
details for ag-Grid Enterprise.", true);

```

```

?>

<!-- Facebook Pixel Code -->
<script>
!function(f,b,e,v,n,t,s){if(f.fbq)return;n=f.fbq=function(){n.callMethod?
n.callMethod.apply(n,arguments):n.queue.push(arguments)};if(!f._fbq)f._fbq=n;
n.push=n;n.loaded=!0;n.version='2.0';n.queue=[];t=b.createElement(e);t.async=!0;
t.src=v;s=b.getElementsByTagName(e)[0];s.parentNode.insertBefore(t,s)}(window,
document,'script','https://connect.facebook.net/en_US/fbevents.js');
fbq('init', '512303249109564'); // Insert your pixel ID here.
fbq('track', 'PageView');
</script>
<noscript></noscript>
<!-- DO NOT MODIFY -->
<!-- End Facebook Pixel Code -->

<link rel="stylesheet" href="dist/homepage.css">
</head>

<body ng-app="index">

<!-- trackers -->
<script>
fbq('track', 'ViewContent');
</script>

<script type="text/javascript">
_linkedin_data_partner_id = "71830";
</script><script type="text/javascript">
(function(){ var s = document.getElementsByTagName("script")[0];
var b = document.createElement("script");
b.type = "text/javascript";b.async = true;
b.src = "https://snap.licdn.com/li.lms-analytics/insight.min.js";
s.parentNode.insertBefore(b, s);})();
</script>

<noscript>

</noscript>

<header id="nav" class="compact">
<?php
    $version = 'latest';
    include './includes/navbar.php';
?>

```

```

</header>

<div class="info-page">
  <div class="row">
    <section>

      <div id="thankyou" style="display: none"> Thank you for contacting ag-Grid. We'll be in contact shortly.
    </div>

    <h1>ag-Grid Pricing</h1>
    <hr>
    <p class="lead">ag-Grid comes in two versions &ndash; <strong>Community</strong> and
    <strong>Enterprise</strong>. Let's go over the differences between the two, so you can pick the one that is most
    suitable for your project.</p>
    <!--
    <p class="lead">Ag-Grid comes in two versions &ndash; <strong>Community</strong> and
    <strong>Enterprise</strong>. The document outlines the important differences between the two.</p>
    <p class="lead">The Community edition is <strong>MIT licensed</strong>, supports all major
    JavaScript frameworks, includes all essential datagrid features and can be used free of charge.</p>
    <p class="lead">The enterprise version is <strong>commercially licensed</strong>, includes everything
    from the community edition, adds a set of advanced features that target scenarios commonly found in the enterprise,
    and includes dedicated private support with 24h response time SLA.</p>
    -->

    <div class="mb-5">
      <div class="row">
        <div class="col-sm-6">
          <div class="card h-100">
            <div class="card-body">
              <h2 class="card-title">ag-Grid Community</h2>
              <h3 class="h5 card-subtitle mb-2 text-muted">MIT License</h3>

              <ul class="card-text">
                <li>All essential datagrid features</li>
                <li>Community support</li>
              </ul>

              <br />

            </div>
          </div>
        </div>
      </div>
    </div>
    <div class="col-sm-6">
      <div class="card h-100">
        <div class="card-body">
          <h2 class="card-title">ag-Grid Enterprise</h2>

```

```

<h3 class="h5 card-subtitle mb-2 text-muted">Commercial License</h3>
<ul class="card-text">
  <li>All Community features + </li>
  <li><strong>A premium set of enterprise oriented features</strong></li>
  <li><strong>Dedicated support</strong></li>
</ul>
</div>
</div>
</div>
</div>
</div>
</div>

```

<h2>License and Pricing for ag-Grid Enterprise</h2>

```

<p>
  ag-Grid Enterprise is our commercial product that is designed for Enterprise development teams.
  The commercial licenses are <strong>perpetual</strong> and include <strong>one year</strong> of
  support, maintenance and upgrades.
  We offer three flavors &ndash; <strong>Single Application Developer</strong>, <strong>Multiple Application
  Developer</strong> and <strong>SaaS / OEM</strong>.
</p>

```

```

<div class="inline-container">

<div class="row" id="licenses">
<div class="col-md-4">
<div class="license">
  <div class="card-body">
    <h3>Single Application Developer</h3>
    <h4>&dollar;750 USD
      <span>per Developer</span>
    </h4>
    <p>Usage of ag-Grid Enterprise in a <br><strong>single application</strong></p>
    <p><a href="start-trial.php">Sign up for a free trial</a></p>
  </div>

  <div class="card-footer">
    <a class="btn"
      data-product-type="single-developer"
      href="#"
      data-toggle="modal"
      data-target=".orderForm-applicationDeveloper">Enquire</a>
  </div>
</div>
</div>

</div>

```

```

<div class="col-md-4">
<div class="license recommended">
  <div class="card-header"> Recommended </div>
  <div class="card-body">
    <h3>Multiple Application Developer</h3>
    <h4>&dollar;1,200 USD
      <span>per Developer</span>
    </h4>
    <p>Usage of ag-Grid Enterprise in <br><strong>multiple applications</strong></p>
    <p><a href="start-trial.php">Sign up for a free trial</a></p>
  </div>

  <div class="card-footer">
    <a class="btn" data-product-type="single-developer" href="#" data-toggle="modal" data-
target=".orderForm-siteDeveloper">Enquire</a>
  </div>
</div>

</div>

```

```

<div class="col-md-4">
<div class="license">
  <div class="card-body">
    <h3>SaaS and OEM</h3>
    <h4>POA
      <span>price on asking</span>
    </h4>
    <p>Usage of ag-Grid Enterprise in <br><strong>SaaS/OEM Applications</strong></p>
    <p><a href="start-trial.php">Sign up for a free trial</a></p>
  </div>

  <div class="card-footer">
    <a class="btn" data-product-type="single-developer" href="#" data-toggle="modal" data-
target=".orderForm-saasAndOEM">Enquire</a>
  </div>
</div>

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

```

Which License Should You Choose?

To pick the correct license, answer these simple questions:

— Are you using ag-Grid Enterprise in one application?

If it's one application, a Single Application License is correct. Otherwise a Multiple Application

License is best.</p>

<h3 class="license-question">— Is your application for an internal or external end-user?</h3>

<p>If external, then you also need SaaS or OEM licensing.</p>

<p>If you still need help figuring out which one of the above is most suitable for your case, contact us.</p>

<h2>Features Exclusive to ag-Grid Enterprise</h2>

<p>

To review all features exclusive to the enterprise, check our documentation overview. The enterprise features are marked with e.

</p>

<h2>Community / Enterprise Support</h2>

<p>Purchasing a license for ag-Grid Enterprise grants you access to our ticketing system, which means guaranteed response in a 24 hour during weekdays.</p>

<p>If you are using the community version of ag-Grid, you can follow the Stack Overflow <code>ag-grid</code> tag.

We also accept bug reports with reproduction in the ag-grid/ag-grid GitHub repository issues - follow the issue template.</p>

<hr>

<h2>Frequently Asked Questions</h2>

<dl id="faq">

<dt>What is the difference between Single Application Developer License and Multiple Application Developer License?</dt>

<dd>

<p>

Single Application developer license ties the license to one particular application within your organisation.

A typical example is 5 licenses to cover an application with 5 developers working concurrently on it.

This is best if you a) have only one (or a fixed number) of applications you need to license or b) you want to charge the license to a particular project(s).

</p>

<p>

Multiple Application developer license allows unlimited applications to be developed by a fixed number of developers.

A typical example is 5 license to cover an unlimited number of applications with 5

developers working

across all applications concurrently. Use site license if you want to cover a group of developers developing any number of applications.

</p>

</dd>

<dt>What are OEM and SaaS Licenses?</dt>

<dd>

<p>

SaaS is Software as a Service.

If you will be selling

ag-Grid as part of a SaaS then you require an additional SaaS license.

</p>

<p>

OEM is Original

Equipment

Manufacturer. If you will be selling

ag-Grid as part of your product then you require additional OEM license.

</p>

</dd>

<dt>Do developers have to be named?</dt>

<dd>

<p>

No. If you license an application you provide the number of developers working on that application.

We trust that you do not go over the number of concurrent developers on that application at any given time. Developers moving on and off projects is expected to be normal.

</p>

</dd>

<dt>What does perpetual mean?</dt>

<dd>

<p>

The perpetual nature of the Enterprise license means you can continue to use the version of ag-Grid Enterprise, plus any release for one year, indefinitely. There is no

requirement to

pay again to continue using the software. However if you wish to keep up to date with the

latest versions of ag-Grid after one year and continue with support, you must

extend the

license.

</p>

</dd>

<dt>Do you provide bulk or other license types?</dt>

<dd>

<p>

Yes. Get in touch and tell us what you are looking for. We are always open to discussion and will

propose what we think is fair.

```
</p>
</dd>
```

```
<dt>Why do we collect your data?</dt>
```

```
<dd>
```

```
<p>
```

We collect your information from the enquiry form to add to our form and use it to be able to send you the license key.

```
<br>
```

Refer to our [privacy policy](https://www.ag-grid.com/privacy.php) for more information.

```
</p>
```

```
</dd>
```

```
</dl>
```

```
</section>
```

```
</div>
```

```
</div>
```

```
<!-- The Order Form Modal -->
```

```
<div class="modal fade orderForm-applicationDeveloper" tabindex="-1" role="dialog" aria-labelledby="orderFormLabel">
```

```
<div class="modal-dialog modal-lg" role="document">
```

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

```
<div class="modal-header">
```

```
<h4 class="modal-title">Order Enquiry</h4>
```

```
<button type="button" class="close" data-dismiss="modal" aria-label="Close">
```

```
<span aria-hidden="true">&times;</span>
```

```
</button>
```

```
</div>
```

```
<div class="modal-body">
```

```
<?php
```

```
$formKey = "applicationDeveloper";
```

```
include("includes/orderForm.php"); ?>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- The Order Form Modal -->
```

```
<div class="modal fade orderForm-siteDeveloper" tabindex="-1" role="dialog" aria-labelledby="orderFormLabel">
```

```
<div class="modal-dialog modal-lg" role="document">
```

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

```
<div class="modal-header">
```

```
<h4 class="modal-title">Order Enquiry</h4>
```

```
<button type="button" class="close" data-dismiss="modal" aria-label="Close">
```

```

        <span aria-hidden="true">&times;</span>
    </button>
</div>
<div class="modal-body">
    <?php
        $formKey = "siteDeveloper";
        include("includes/orderForm.php"); ?>
    </div>
</div>
</div>
</div>
</div>

<!-- The Order Form Modal -->
<div class="modal fade orderForm-saasAndOEM" tabindex="-1" role="dialog" aria-labelledby="orderFormLabel">
    <div class="modal-dialog modal-lg" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h4 class="modal-title">Order Enquiry</h4>
                <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>
            <div class="modal-body">
                <?php
                    $formKey = "saasAndOEM";
                    include("includes/orderForm.php"); ?>
                </div>
            </div>
        </div>
    </div>
</div>
</div>
<?php include_once("../includes/footer.php"); ?>
<?php include_once("../includes/analytics.php"); ?>
<script>
if(window.location.href.indexOf("/community-support.php?submitted=true") !=-1)
{
(new
Image()).src="//www.googleadservices.com/pagead/conversion/873243008/?label=8TOnCM7BnWsQgMOyoAM&
guid=ON&script=0";
}
</script>
<script src="dist/homepage.js"></script>
</body>
</html>

```

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```
import {Bean, Autowired, PostConstruct} from "ag-grid-community";
```

```
@Bean('md5')
export class MD5 {
    private ieCompatibility = false;

    @PostConstruct
    private init():void {
        this.ieCompatibility = (this.md5('hello') != '5d41402abc4b2a76b9719d911017c592');
    }

    private md5cycle(x:any, k:any) {
        let a:any = x[0], b:any = x[1], c:any = x[2], d:any = x[3];

        a = this.ff(a, b, c, d, k[0], 7, -680876936);
        d = this.ff(d, a, b, c, k[1], 12, -389564586);
        c = this.ff(c, d, a, b, k[2], 17, 606105819);
        b = this.ff(b, c, d, a, k[3], 22, -1044525330);
        a = this.ff(a, b, c, d, k[4], 7, -176418897);
        d = this.ff(d, a, b, c, k[5], 12, 1200080426);
        c = this.ff(c, d, a, b, k[6], 17, -1473231341);
        b = this.ff(b, c, d, a, k[7], 22, -45705983);
        a = this.ff(a, b, c, d, k[8], 7, 1770035416);
        d = this.ff(d, a, b, c, k[9], 12, -1958414417);
        c = this.ff(c, d, a, b, k[10], 17, -42063);
        b = this.ff(b, c, d, a, k[11], 22, -1990404162);
        a = this.ff(a, b, c, d, k[12], 7, 1804603682);
        d = this.ff(d, a, b, c, k[13], 12, -40341101);
        c = this.ff(c, d, a, b, k[14], 17, -1502002290);
        b = this.ff(b, c, d, a, k[15], 22, 1236535329);

        a = this.gg(a, b, c, d, k[1], 5, -165796510);
        d = this.gg(d, a, b, c, k[6], 9, -1069501632);
        c = this.gg(c, d, a, b, k[11], 14, 643717713);
        b = this.gg(b, c, d, a, k[0], 20, -373897302);
```

```
a = this.gg(a, b, c, d, k[5], 5, -701558691);
d = this.gg(d, a, b, c, k[10], 9, 38016083);
c = this.gg(c, d, a, b, k[15], 14, -660478335);
b = this.gg(b, c, d, a, k[4], 20, -405537848);
a = this.gg(a, b, c, d, k[9], 5, 568446438);
d = this.gg(d, a, b, c, k[14], 9, -1019803690);
c = this.gg(c, d, a, b, k[3], 14, -187363961);
b = this.gg(b, c, d, a, k[8], 20, 1163531501);
a = this.gg(a, b, c, d, k[13], 5, -1444681467);
d = this.gg(d, a, b, c, k[2], 9, -51403784);
c = this.gg(c, d, a, b, k[7], 14, 1735328473);
b = this.gg(b, c, d, a, k[12], 20, -1926607734);
```

```
a = this.hh(a, b, c, d, k[5], 4, -378558);
d = this.hh(d, a, b, c, k[8], 11, -2022574463);
c = this.hh(c, d, a, b, k[11], 16, 1839030562);
b = this.hh(b, c, d, a, k[14], 23, -35309556);
a = this.hh(a, b, c, d, k[1], 4, -1530992060);
d = this.hh(d, a, b, c, k[4], 11, 1272893353);
c = this.hh(c, d, a, b, k[7], 16, -155497632);
b = this.hh(b, c, d, a, k[10], 23, -1094730640);
a = this.hh(a, b, c, d, k[13], 4, 681279174);
d = this.hh(d, a, b, c, k[0], 11, -358537222);
c = this.hh(c, d, a, b, k[3], 16, -722521979);
b = this.hh(b, c, d, a, k[6], 23, 76029189);
a = this.hh(a, b, c, d, k[9], 4, -640364487);
d = this.hh(d, a, b, c, k[12], 11, -421815835);
c = this.hh(c, d, a, b, k[15], 16, 530742520);
b = this.hh(b, c, d, a, k[2], 23, -995338651);
```

```
a = this.ii(a, b, c, d, k[0], 6, -198630844);
d = this.ii(d, a, b, c, k[7], 10, 1126891415);
c = this.ii(c, d, a, b, k[14], 15, -1416354905);
b = this.ii(b, c, d, a, k[5], 21, -57434055);
a = this.ii(a, b, c, d, k[12], 6, 1700485571);
d = this.ii(d, a, b, c, k[3], 10, -1894986606);
c = this.ii(c, d, a, b, k[10], 15, -1051523);
b = this.ii(b, c, d, a, k[1], 21, -2054922799);
a = this.ii(a, b, c, d, k[8], 6, 1873313359);
d = this.ii(d, a, b, c, k[15], 10, -30611744);
c = this.ii(c, d, a, b, k[6], 15, -1560198380);
b = this.ii(b, c, d, a, k[13], 21, 1309151649);
a = this.ii(a, b, c, d, k[4], 6, -145523070);
d = this.ii(d, a, b, c, k[11], 10, -1120210379);
c = this.ii(c, d, a, b, k[2], 15, 718787259);
b = this.ii(b, c, d, a, k[9], 21, -343485551);
```

```
x[0] = this.add32(a, x[0]);
```

```

    x[1] = this.add32(b, x[1]);
    x[2] = this.add32(c, x[2]);
    x[3] = this.add32(d, x[3]);
}

private cmn(q:any, a:any, b:any, x:any, s:any, t:any) {
    a = this.add32(this.add32(a, q), this.add32(x, t));
    return this.add32((a << s) | (a >>> (32 - s)), b);
}

private ff(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn((b & c) | ((~b) & d), a, b, x, s, t);
}

private gg(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn((b & d) | (c & (~d)), a, b, x, s, t);
}

private hh(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn(b ^ c ^ d, a, b, x, s, t);
}

private ii(a:any, b:any, c:any, d:any, x:any, s:any, t:any) {
    return this.cmn(c ^ (b | (~d)), a, b, x, s, t);
}

private md5l(s:any) {
    let n:any = s.length,
        state:any = [1732584193, -271733879, -1732584194, 271733878], i:any;
    for (i = 64; i <= s.length; i += 64) {
        this.md5cycle(state, this.md5blk(s.substring(i - 64, i)));
    }
    s = s.substring(i - 64);
    let tail = [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0];
    for (i = 0; i < s.length; i++)
        tail[i >> 2] |= s.charCodeAt(i) <<< ((i % 4) <<< 3);
    tail[i >> 2] |= 0x80 <<< ((i % 4) <<< 3);
    if (i > 55) {
        this.md5cycle(state, tail);
        for (i = 0; i < 16; i++) tail[i] = 0;
    }
    tail[14] = n * 8;
    this.md5cycle(state, tail);
    return state;
}

```

```

/* there needs to be support for Unicode here, * unless we pretend that we can redefine the MD-5
* algorithm for multi-byte characters (perhaps by adding every four 16-bit characters and

```

```

* shortening the sum to 32 bits). Otherwise I suggest performing MD-5 as if every character
* was two bytes--e.g., 0040 0025 = @%--but then how will an ordinary MD-5 sum be matched?
* There is no way to standardize text to something like UTF-8 before transformation; speed cost is
* utterly prohibitive. The JavaScript standard itself needs to look at this: it should start
* providing access to strings as preformed UTF-8 8-bit unsigned value arrays.
*/
private md5blk(s:any) { /* I figured global was faster. */
    let md5blks:any = [], i:any;
    /* Andy King said do it this way. */
    for (i = 0; i < 64; i += 4) {
        md5blks[i >> 2] = s.charCodeAt(i)
            + (s.charCodeAt(i + 1) << 8)
            + (s.charCodeAt(i + 2) << 16)
            + (s.charCodeAt(i + 3) << 24);
    }
    return md5blks;
}

private rhex(n:any) {
    let hex_chr:any = '0123456789abcdef'.split("");
    let s:string = "", j:any = 0;
    for (; j < 4; j++)
        s += hex_chr[(n >> (j * 8 + 4)) & 0x0F]
            + hex_chr[(n >> (j * 8)) & 0x0F];
    return s;
}

private hex(x:any) {
    for (let i:any = 0; i < x.length; i++)
        x[i] = this.rhex(x[i]);
    return x.join("");
}

public md5(s:any) {
    return this.hex(this.md51(s));
}

private add32(a:any, b:any) {
    return this.ieCompatibility ? this.add32Compat(a, b) : this.add32Std(a, b);
}

/* this function is much faster, so if possible we use it. Some IEs are the only ones I know of that
need the idiotic second function, generated by an if clause. */
private add32Std(a:any, b:any) {
    return (a + b) & 0xFFFFFFFF;
}

private add32Compat(x:any, y:any) {

```



```

    let lsw = (x & 0xFFFF) + (y & 0xFFFF),
        msw = (x >> 16) + (y >> 16) + (lsw >> 16);
    return (msw << 16) | (lsw & 0xFFFF);
}

}

// ag-grid-enterprise v19.1.4
"use strict";
var __decorate = (this && this.__decorate) || function (decorators, target, key, desc) {
    var c = arguments.length, r = c < 3 ? target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;
    if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc);
    else for (var i = decorators.length - 1; i >= 0; i--) if (d = decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key, r) : d(target, key)) || r;
    return c > 3 && r && Object.defineProperty(target, key, r), r;
};
var __metadata = (this && this.__metadata) || function (k, v) {
    if (typeof Reflect === "object" && typeof Reflect.metadata === "function") return Reflect.metadata(k, v);
};
Object.defineProperty(exports, "__esModule", { value: true });
var ag_grid_community_1 = require("ag-grid-community");
var MD5 = /** @class */ (function () {
    function MD5() {
        this.ieCompatibility = false;
    }
    MD5.prototype.init = function () {
        this.ieCompatibility = (this.md5('hello') != '5d41402abc4b2a76b9719d911017c592');
    };
    MD5.prototype.md5cycle = function (x, k) {
        var a = x[0], b = x[1], c = x[2], d = x[3];
        a = this.ff(a, b, c, d, k[0], 7, -680876936);
        d = this.ff(d, a, b, c, k[1], 12, -389564586);
        c = this.ff(c, d, a, b, k[2], 17, 606105819);
        b = this.ff(b, c, d, a, k[3], 22, -1044525330);
        a = this.ff(a, b, c, d, k[4], 7, -176418897);
        d = this.ff(d, a, b, c, k[5], 12, 1200080426);
        c = this.ff(c, d, a, b, k[6], 17, -1473231341);
        b = this.ff(b, c, d, a, k[7], 22, -45705983);
        a = this.ff(a, b, c, d, k[8], 7, 1770035416);
        d = this.ff(d, a, b, c, k[9], 12, -1958414417);
        c = this.ff(c, d, a, b, k[10], 17, -42063);
        b = this.ff(b, c, d, a, k[11], 22, -1990404162);
        a = this.ff(a, b, c, d, k[12], 7, 1804603682);
        d = this.ff(d, a, b, c, k[13], 12, -40341101);
        c = this.ff(c, d, a, b, k[14], 17, -1502002290);
        b = this.ff(b, c, d, a, k[15], 22, 1236535329);
        a = this.gg(a, b, c, d, k[1], 5, -165796510);
    };
}

```

```
d = this.gg(d, a, b, c, k[6], 9, -1069501632);
c = this.gg(c, d, a, b, k[11], 14, 643717713);
b = this.gg(b, c, d, a, k[0], 20, -373897302);
a = this.gg(a, b, c, d, k[5], 5, -701558691);
d = this.gg(d, a, b, c, k[10], 9, 38016083);
c = this.gg(c, d, a, b, k[15], 14, -660478335);
b = this.gg(b, c, d, a, k[4], 20, -405537848);
a = this.gg(a, b, c, d, k[9], 5, 568446438);
d = this.gg(d, a, b, c, k[14], 9, -1019803690);
c = this.gg(c, d, a, b, k[3], 14, -187363961);
b = this.gg(b, c, d, a, k[8], 20, 1163531501);
a = this.gg(a, b, c, d, k[13], 5, -1444681467);
d = this.gg(d, a, b, c, k[2], 9, -51403784);
c = this.gg(c, d, a, b, k[7], 14, 1735328473);
b = this.gg(b, c, d, a, k[12], 20, -1926607734);
a = this.hh(a, b, c, d, k[5], 4, -378558);
d = this.hh(d, a, b, c, k[8], 11, -2022574463);
c = this.hh(c, d, a, b, k[11], 16, 1839030562);
b = this.hh(b, c, d, a, k[14], 23, -35309556);
a = this.hh(a, b, c, d, k[1], 4, -1530992060);
d = this.hh(d, a, b, c, k[4], 11, 1272893353);
c = this.hh(c, d, a, b, k[7], 16, -155497632);
b = this.hh(b, c, d, a, k[10], 23, -1094730640);
a = this.hh(a, b, c, d, k[13], 4, 681279174);
d = this.hh(d, a, b, c, k[0], 11, -358537222);
c = this.hh(c, d, a, b, k[3], 16, -722521979);
b = this.hh(b, c, d, a, k[6], 23, 76029189);
a = this.hh(a, b, c, d, k[9], 4, -640364487);
d = this.hh(d, a, b, c, k[12], 11, -421815835);
c = this.hh(c, d, a, b, k[15], 16, 530742520);
b = this.hh(b, c, d, a, k[2], 23, -995338651);
a = this.ii(a, b, c, d, k[0], 6, -198630844);
d = this.ii(d, a, b, c, k[7], 10, 1126891415);
c = this.ii(c, d, a, b, k[14], 15, -1416354905);
b = this.ii(b, c, d, a, k[5], 21, -57434055);
a = this.ii(a, b, c, d, k[12], 6, 1700485571);
d = this.ii(d, a, b, c, k[3], 10, -1894986606);
c = this.ii(c, d, a, b, k[10], 15, -1051523);
b = this.ii(b, c, d, a, k[1], 21, -2054922799);
a = this.ii(a, b, c, d, k[8], 6, 1873313359);
d = this.ii(d, a, b, c, k[15], 10, -30611744);
c = this.ii(c, d, a, b, k[6], 15, -1560198380);
b = this.ii(b, c, d, a, k[13], 21, 1309151649);
a = this.ii(a, b, c, d, k[4], 6, -145523070);
d = this.ii(d, a, b, c, k[11], 10, -1120210379);
c = this.ii(c, d, a, b, k[2], 15, 718787259);
b = this.ii(b, c, d, a, k[9], 21, -343485551);
x[0] = this.add32(a, x[0]);
```

```

    x[1] = this.add32(b, x[1]);
    x[2] = this.add32(c, x[2]);
    x[3] = this.add32(d, x[3]);
};
MD5.prototype.cmn = function (q, a, b, x, s, t) {
    a = this.add32(this.add32(a, q), this.add32(x, t));
    return this.add32((a << s) | (a >>> (32 - s)), b);
};
MD5.prototype.ff = function (a, b, c, d, x, s, t) {
    return this.cmn((b & c) | ((~b) & d), a, b, x, s, t);
};
MD5.prototype.gg = function (a, b, c, d, x, s, t) {
    return this.cmn((b & d) | (c & (~d)), a, b, x, s, t);
};
MD5.prototype.hh = function (a, b, c, d, x, s, t) {
    return this.cmn(b ^ c ^ d, a, b, x, s, t);
};
MD5.prototype.ii = function (a, b, c, d, x, s, t) {
    return this.cmn(c ^ (b | (~d)), a, b, x, s, t);
};
MD5.prototype.md51 = function (s) {
    var n = s.length, state = [1732584193, -271733879, -1732584194, 271733878], i;
    for (i = 64; i <= s.length; i += 64) {
        this.md5cycle(state, this.md5blk(s.substring(i - 64, i)));
    }
    s = s.substring(i - 64);
    var tail = [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0];
    for (i = 0; i < s.length; i++)
        tail[i >> 2] |= s.charCodeAtAt(i) <<< ((i % 4) <<< 3);
    tail[i >> 2] |= 0x80 <<< ((i % 4) <<< 3);
    if (i > 55) {
        this.md5cycle(state, tail);
        for (i = 0; i < 16; i++)
            tail[i] = 0;
    }
    tail[14] = n * 8;
    this.md5cycle(state, tail);
    return state;
};
/* there needs to be support for Unicode here, * unless we pretend that we can redefine the MD-5
 * algorithm for multi-byte characters (perhaps by adding every four 16-bit characters and
 * shortening the sum to 32 bits). Otherwise I suthis.ggest performing MD-5 as if every character
 * was two bytes--e.g., 0040 0025 = @%--but then how will an ordinary MD-5 sum be matched?
 * There is no way to standardize text to something like UTF-8 before transformation; speed cost is
 * utterly prohibitive. The JavaScript standard itself needs to look at this: it should start
 * providing access to strings as preformed UTF-8 8-bit unsigned value arrays.
 */
MD5.prototype.md5blk = function (s) {

```

```

var md5blks = [], i;
/* Andy King said do it this way. */
for (i = 0; i < 64; i += 4) {
    md5blks[i >> 2] = s.charCodeAt(i)
        + (s.charCodeAt(i + 1) << 8)
        + (s.charCodeAt(i + 2) << 16)
        + (s.charCodeAt(i + 3) << 24);
}
return md5blks;
};
MD5.prototype.rhex = function (n) {
    var hex_chr = '0123456789abcdef'.split("");
    var s = "", j = 0;
    for (; j < 4; j++)
        s += hex_chr[(n >> (j * 8 + 4)) & 0x0F]
            + hex_chr[(n >> (j * 8)) & 0x0F];
    return s;
};
MD5.prototype.hex = function (x) {
    for (var i = 0; i < x.length; i++)
        x[i] = this.rhex(x[i]);
    return x.join("");
};
MD5.prototype.md5 = function (s) {
    return this.hex(this.md51(s));
};
MD5.prototype.add32 = function (a, b) {
    return this.ieCompatibility ? this.add32Compat(a, b) : this.add32Std(a, b);
};
/* this function is much faster, so if possible we use it. Some IEs are the only ones I know of that
need the idiotic second function, generated by an if clause. */
MD5.prototype.add32Std = function (a, b) {
    return (a + b) & 0xFFFFFFFF;
};
MD5.prototype.add32Compat = function (x, y) {
    var lsw = (x & 0xFFFF) + (y & 0xFFFF), msw = (x >> 16) + (y >> 16) + (lsw >> 16);
    return (msw << 16) | (lsw & 0xFFFF);
};
__decorate([
    ag_grid_community_1.PostConstruct,
    __metadata("design:type", Function),
    __metadata("design:paramtypes", []),
    __metadata("design:returntype", void 0)
], MD5.prototype, "init", null);
MD5 = __decorate([
    ag_grid_community_1.Bean('md5')
], MD5);
return MD5;

```

```

}());
exports.MD5 = MD5;
// ag-grid-enterprise v19.1.4
export declare class MD5 {
  private ieCompatibility;
  private init;
  private md5cycle;
  private cmn;
  private ff;
  private gg;
  private hh;
  private ii;
  private md51;
  private md5blk;
  private rhex;
  private hex;
  md5(s: any): any;
  private add32;
  private add32Std;
  private add32Compat;
}
//# sourceMappingURL=md5.d.ts.map
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```

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1.11 Apache Log4j 1.2.17

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1.12 apache-log4j 1.2.15

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1.13 api-common 1.0.0-rc1

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1.14 ASM Core 5.0.4

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1.15 ASM Core 5.0.3

1.16 ASM Core 3.3.1

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* ASM: a very small and fast Java bytecode manipulation framework

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*/
package org.objectweb.asm;

/**
 * A visitor to visit a Java annotation. The methods of this interface must be
 * called in the following order: (<tt>visit<tt> | <tt>visitEnum<tt> |
 * <tt>visitAnnotation<tt> | <tt>visitArray<tt>)* <tt>visitEnd<tt>.
 *
 * @author Eric Bruneton
 * @author Eugene Kuleshov
 */
public interface AnnotationVisitor {

    /**
     * Visits a primitive value of the annotation.
     *
     * @param name the value name.
     * @param value the actual value, whose type must be { @link Byte },
     * { @link Boolean }, { @link Character }, { @link Short },
     * { @link Integer }, { @link Long }, { @link Float }, { @link Double },
     * { @link String } or { @link Type }. This value can also be an array
     * of byte, boolean, short, char, int, long, float or double values
     * (this is equivalent to using { @link #visitArray visitArray } and
     * visiting each array element in turn, but is more convenient).
     */
    void visit(String name, Object value);

    /**
     * Visits an enumeration value of the annotation.
     *
     * @param name the value name.
     * @param desc the class descriptor of the enumeration class.
     * @param value the actual enumeration value.
     */
    void visitEnum(String name, String desc, String value);

    /**
     * Visits a nested annotation value of the annotation.
     *
     * @param name the value name.
     * @param desc the class descriptor of the nested annotation class.
     * @return a visitor to visit the actual nested annotation value, or
     * <tt>null</tt> if this visitor is not interested in visiting
     * this nested annotation. <i>The nested annotation value must be
     * fully visited before calling other methods on this annotation
     * visitor</i>.
     */
}

```

```

AnnotationVisitor visitAnnotation(String name, String desc);

/**
 * Visits an array value of the annotation. Note that arrays of primitive
 * types (such as byte, boolean, short, char, int, long, float or double)
 * can be passed as value to {@link #visit visit}. This is what
 * {@link ClassReader} does.
 *
 * @param name the value name.
 * @return a visitor to visit the actual array value elements, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         these values. The 'name' parameters passed to the methods of this
 *         visitor are ignored. <i>All the array values must be visited
 *         before calling other methods on this annotation visitor</i>.
 */
AnnotationVisitor visitArray(String name);

/**
 * Visits the end of the annotation.
 */
void visitEnd();
}

```

1.17 ASM Core 4.2

1.18 asm-analysis 5.0.3

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1.19 asm-commons 5.0.3

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1.20 asm-tree 5.0.3

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1.21 asm-util 5.0.3

1.22 auto-value 1.1

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1.23 Bean Validation API 1.1.0.Final

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

Other developers who have contributed code are:

* Brian Langel

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<http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true>

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found

from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well

as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

=== Licensing ===

Jackson can be used for any purpose, but to (re)distribute it, distributors (such as libraries and frameworks that use Jackson) will need to choose which License they want to apply to distribution, and to use appropriate jars that enclose license documentation.

No work needed beyond choosing the appropriate jar(s).

Currently two Open Source licenses are available for use:

- * Apache License 2.0 (AL 2.0)
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These licenses have proven adequate to cover all current use cases.

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reduce their need to independently verify origin of source code.

1.50 disruptor 3.0.1

1.50.1 Available under license :

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1.51 ecj 4.4.2

1.51.1 Available under license :

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1.52 engine.io-client 1.0.0

1.53 error_prone_annotations 2.0.11

1.53.1 Available under license :

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1.54 error_prone_annotations 2.0.19

1.55 fastutil 6.5.7

1.55.1 Available under license :

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* fastutil: Fast & compact type-specific collections for Java

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On 13 Aug 2004, at 12:33 AM, mdrance@apple.com wrote:

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AppleJavaExtensions
v 1.2

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16.0.1

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1.118 jboss-logging 3.2.1.Final

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1.119 jboss-logging 3.3.0.Final

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1.120 JCL 1.1.1 implemented over SLF4J 1.7.7

1.121 jcl-over-slf4j 1.7.24

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1.122 jcl-over-slf4j 1.7.22

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1.123 jetcd-core 0.0.1

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```
// Generated by the protocol buffer compiler. DO NOT EDIT!
```

```
// source: auth.proto
```

```
package com.coreos.jetcd.api;
```

```
/**
```

```
 * <pre>
```

```
 * Permission is a single entity
```

```
 * </pre>
```

```
 *
```

```
 * Protobuf type {@code authpb.Permission}
```

```
 */
```

```
public final class Permission extends
```

```
    com.google.protobuf.GeneratedMessageV3 implements
```

```
    // @@protoc_insertion_point(message_implementation:authpb.Permission)
```

```
    PermissionOrBuilder {
```

```
    // Use Permission.newBuilder() to construct.
```

```
private Permission(com.google.protobuf.GeneratedMessageV3.Builder<?> builder) {
```

```
    super(builder);
```

```
}
```

```
private Permission() {
```

```
    permType_ = 0;
```

```
    key_ = com.google.protobuf.ByteString.EMPTY;
```

```
    rangeEnd_ = com.google.protobuf.ByteString.EMPTY;
```

```
}
```

```
@java.lang.Override
```

```
public final com.google.protobuf.UnknownFieldSet
```

```
getUnknownFields() {
```

```
    return com.google.protobuf.UnknownFieldSet.getDefaultInstance();
```

```
}
```

```
private Permission(
```

```
    com.google.protobuf.CodedInputStream input,
```

```
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
```

```
    throws com.google.protobuf.InvalidProtocolBufferException {
```

```
    this();
```

```
    int mutable_bitField0_ = 0;
```

```

try {
    boolean done = false;
    while (!done) {
        int tag = input.readTag();
        switch (tag) {
            case 0:
                done = true;
                break;
            default: {
                if (!input.skipField(tag)) {
                    done = true;
                }
                break;
            }
            case 8: {
                int rawValue = input.readEnum();

                permType_ = rawValue;
                break;
            }
            case 18: {

                key_ = input.readBytes();
                break;
            }
            case 26: {

                rangeEnd_ = input.readBytes();
                break;
            }
        }
    } catch (com.google.protobuf.InvalidProtocolBufferException e) {
        throw e.setUnfinishedMessage(this);
    } catch (java.io.IOException e) {
        throw new com.google.protobuf.InvalidProtocolBufferException(
            e).setUnfinishedMessage(this);
    } finally {
        makeExtensionsImmutable();
    }
}

public static final com.google.protobuf.Descriptors.Descriptor
    getDescriptor() {
    return com.coreos.jetcd.api.Auth.internal_static_authpb_Permission_descriptor;
}

protected com.google.protobuf.GeneratedMessageV3.FieldAccessorTable
    internalGetFieldAccessorTable() {

```

```

return com.coreos.jetcd.api.Auth.internal_static_authpb_Permission_fieldAccessorTable
    .ensureFieldAccessorsInitialized(
        com.coreos.jetcd.api.Permission.class, com.coreos.jetcd.api.Permission.Builder.class);
}

/**
 * Protobuf enum {@code authpb.Permission.Type}
 */
public enum Type
    implements com.google.protobuf.ProtocolMessageEnum {
    /**
     * <code>READ = 0;</code>
     */
    READ(0),
    /**
     * <code>WRITE = 1;</code>
     */
    WRITE(1),
    /**
     * <code>READWRITE = 2;</code>
     */
    READWRITE(2),
    UNRECOGNIZED(-1),
    ;

    /**
     * <code>READ = 0;</code>
     */
    public static final int READ_VALUE = 0;
    /**
     * <code>WRITE = 1;</code>
     */
    public static final int WRITE_VALUE = 1;
    /**
     * <code>READWRITE = 2;</code>
     */
    public static final int READWRITE_VALUE = 2;

    public final int getNumber() {
        if (this == UNRECOGNIZED) {
            throw new java.lang.IllegalArgumentException(
                "Can't get the number of an unknown enum value.");
        }
        return value;
    }
}

/**

```

```

* @deprecated Use { @link #forNumber(int)} instead.
*/
@java.lang.Deprecated
public static Type valueOf(int value) {
    return forNumber(value);
}

public static Type forNumber(int value) {
    switch (value) {
        case 0: return READ;
        case 1: return WRITE;
        case 2: return READWRITE;
        default: return null;
    }
}

public static com.google.protobuf.Internal.EnumLiteMap<Type>
    internalGetValueMap() {
    return internalValueMap;
}

private static final com.google.protobuf.Internal.EnumLiteMap<
    Type> internalValueMap =
    new com.google.protobuf.Internal.EnumLiteMap<Type>() {
        public Type findValueByNumber(int number) {
            return Type.forNumber(number);
        }
    };

public final com.google.protobuf.Descriptors.EnumValueDescriptor
    getValueDescriptor() {
    return getDescriptor().getValues().get(ordinal());
}

public final com.google.protobuf.Descriptors.EnumDescriptor
    getDescriptorForType() {
    return getDescriptor();
}

public static final com.google.protobuf.Descriptors.EnumDescriptor
    getDescriptor() {
    return com.coreos.jetcd.api.Permission.getDescriptor().getEnumTypes().get(0);
}

private static final Type[] VALUES = values();

public static Type valueOf(
    com.google.protobuf.Descriptors.EnumValueDescriptor desc) {
    if (desc.getType() != getDescriptor()) {
        throw new java.lang.IllegalArgumentException(
            "EnumValueDescriptor is not for this type.");
    }
}

```

```

    }
    if (desc.getIndex() == -1) {
        return UNRECOGNIZED;
    }
    return VALUES[desc.getIndex()];
}

private final int value;

private Type(int value) {
    this.value = value;
}

// @@protoc_insertion_point(enum_scope:authpb.Permission.Type)
}

public static final int PERMTYPE_FIELD_NUMBER = 1;
private int permType_;
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public int getPermTypeValue() {
    return permType_;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public com.coreos.jetcd.api.Permission.Type getPermType() {
    com.coreos.jetcd.api.Permission.Type result = com.coreos.jetcd.api.Permission.Type.valueOf(permType_);
    return result == null ? com.coreos.jetcd.api.Permission.Type.UNRECOGNIZED : result;
}

public static final int KEY_FIELD_NUMBER = 2;
private com.google.protobuf.ByteString key_;
/**
 * <code>bytes key = 2;</code>
 */
public com.google.protobuf.ByteString getKey() {
    return key_;
}

public static final int RANGE_END_FIELD_NUMBER = 3;
private com.google.protobuf.ByteString rangeEnd_;
/**
 * <code>bytes range_end = 3;</code>
 */
public com.google.protobuf.ByteString getRangeEnd() {
    return rangeEnd_;
}

```

```

}

private byte memoizedIsInitialized = -1;
public final boolean isInitialized() {
    byte isInitialized = memoizedIsInitialized;
    if (isInitialized == 1) return true;
    if (isInitialized == 0) return false;

    memoizedIsInitialized = 1;
    return true;
}

public void writeTo(com.google.protobuf.CodedOutputStream output)
    throws java.io.IOException {
    if (permType_ != com.coreos.jetcd.api.Permission.Type.READ.getNumber()) {
        output.writeEnum(1, permType_);
    }
    if (!key_.isEmpty()) {
        output.writeBytes(2, key_);
    }
    if (!rangeEnd_.isEmpty()) {
        output.writeBytes(3, rangeEnd_);
    }
}

public int getSerializedSize() {
    int size = memoizedSize;
    if (size != -1) return size;

    size = 0;
    if (permType_ != com.coreos.jetcd.api.Permission.Type.READ.getNumber()) {
        size += com.google.protobuf.CodedOutputStream
            .computeEnumSize(1, permType_);
    }
    if (!key_.isEmpty()) {
        size += com.google.protobuf.CodedOutputStream
            .computeBytesSize(2, key_);
    }
    if (!rangeEnd_.isEmpty()) {
        size += com.google.protobuf.CodedOutputStream
            .computeBytesSize(3, rangeEnd_);
    }
    memoizedSize = size;
    return size;
}

private static final long serialVersionUID = 0L;
@Override

```

```

public boolean equals(final java.lang.Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof com.coreos.jetcd.api.Permission)) {
        return super.equals(obj);
    }
    com.coreos.jetcd.api.Permission other = (com.coreos.jetcd.api.Permission) obj;

    boolean result = true;
    result = result && permType_ == other.permType_;
    result = result && getKey()
        .equals(other.getKey());
    result = result && getRangeEnd()
        .equals(other.getRangeEnd());
    return result;
}

@Override
public int hashCode() {
    if (memoizedHashCode != 0) {
        return memoizedHashCode;
    }
    int hash = 41;
    hash = (19 * hash) + getDescriptor().hashCode();
    hash = (37 * hash) + PERMTYPE_FIELD_NUMBER;
    hash = (53 * hash) + permType_;
    hash = (37 * hash) + KEY_FIELD_NUMBER;
    hash = (53 * hash) + getKey().hashCode();
    hash = (37 * hash) + RANGE_END_FIELD_NUMBER;
    hash = (53 * hash) + getRangeEnd().hashCode();
    hash = (29 * hash) + unknownFields.hashCode();
    memoizedHashCode = hash;
    return hash;
}

public static com.coreos.jetcd.api.Permission parseFrom(
    java.nio.ByteBuffer data)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data);
}

public static com.coreos.jetcd.api.Permission parseFrom(
    java.nio.ByteBuffer data,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data, extensionRegistry);
}

public static com.coreos.jetcd.api.Permission parseFrom(

```



```

    com.google.protobuf.ByteString data)
    throws com.google.protobuf.InvalidProtocolBufferException {
return PARSER.parseFrom(data);
}
public static com.coreos.jetcd.api.Permission parseFrom(
    com.google.protobuf.ByteString data,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
return PARSER.parseFrom(data, extensionRegistry);
}
public static com.coreos.jetcd.api.Permission parseFrom(byte[] data)
    throws com.google.protobuf.InvalidProtocolBufferException {
return PARSER.parseFrom(data);
}
public static com.coreos.jetcd.api.Permission parseFrom(
    byte[] data,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
return PARSER.parseFrom(data, extensionRegistry);
}
public static com.coreos.jetcd.api.Permission parseFrom(java.io.InputStream input)
    throws java.io.IOException {
return com.google.protobuf.GeneratedMessageV3
    .parseWithIOException(PARSER, input);
}
public static com.coreos.jetcd.api.Permission parseFrom(
    java.io.InputStream input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
return com.google.protobuf.GeneratedMessageV3
    .parseWithIOException(PARSER, input, extensionRegistry);
}
public static com.coreos.jetcd.api.Permission parseDelimitedFrom(java.io.InputStream input)
    throws java.io.IOException {
return com.google.protobuf.GeneratedMessageV3
    .parseDelimitedWithIOException(PARSER, input);
}
public static com.coreos.jetcd.api.Permission parseDelimitedFrom(
    java.io.InputStream input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
return com.google.protobuf.GeneratedMessageV3
    .parseDelimitedWithIOException(PARSER, input, extensionRegistry);
}
public static com.coreos.jetcd.api.Permission parseFrom(
    com.google.protobuf.CodedInputStream input)
    throws java.io.IOException {
return com.google.protobuf.GeneratedMessageV3

```

```

        .parseWithIOException(PARSER, input);
    }
    public static com.coreos.jetcd.api.Permission parseFrom(
        com.google.protobuf.CodedInputStream input,
        com.google.protobuf.ExtensionRegistryLite extensionRegistry)
        throws java.io.IOException {
        return com.google.protobuf.GeneratedMessageV3
            .parseWithIOException(PARSER, input, extensionRegistry);
    }

    public Builder newBuilderForType() { return new Builder(); }
    public static Builder newBuilder() {
        return DEFAULT_INSTANCE.toBuilder();
    }
    public static Builder newBuilder(com.coreos.jetcd.api.Permission prototype) {
        return DEFAULT_INSTANCE.toBuilder().mergeFrom(prototype);
    }
    public Builder toBuilder() {
        return this == DEFAULT_INSTANCE
            ? new Builder() : new Builder().mergeFrom(this);
    }

    @java.lang.Override
    protected Builder newBuilderForType(
        com.google.protobuf.GeneratedMessageV3.BuilderParent parent) {
        Builder builder = new Builder(parent);
        return builder;
    }
    /**
     * <pre>
     * Permission is a single entity
     * </pre>
     *
     * Protobuf type {@code authpb.Permission}
     */
    public static final class Builder extends
        com.google.protobuf.GeneratedMessageV3.Builder<Builder> implements
        // @@protoc_insertion_point(builder_implements:authpb.Permission)
        com.coreos.jetcd.api.PermissionOrBuilder {
        public static final com.google.protobuf.Descriptors.Descriptor
            getDescriptor() {
            return com.coreos.jetcd.api.Auth.internal_static_authpb_Permission_descriptor;
        }

        protected com.google.protobuf.GeneratedMessageV3.FieldAccessorTable
            internalGetFieldAccessorTable() {
            return com.coreos.jetcd.api.Auth.internal_static_authpb_Permission_fieldAccessorTable
                .ensureFieldAccessorsInitialized(

```

```

        com.coreos.jetcd.api.Permission.class, com.coreos.jetcd.api.Permission.Builder.class);
    }

    // Construct using com.coreos.jetcd.api.Permission.newBuilder()
    private Builder() {
        maybeForceBuilderInitialization();
    }

    private Builder(
        com.google.protobuf.GeneratedMessageV3.BuilderParent parent) {
        super(parent);
        maybeForceBuilderInitialization();
    }

    private void maybeForceBuilderInitialization() {
        if (com.google.protobuf.GeneratedMessageV3
            .alwaysUseFieldBuilders) {
        }
    }

    public Builder clear() {
        super.clear();
        permType_ = 0;

        key_ = com.google.protobuf.ByteString.EMPTY;

        rangeEnd_ = com.google.protobuf.ByteString.EMPTY;

        return this;
    }

    public com.google.protobuf.Descriptors.Descriptor
        getDescriptorForType() {
        return com.coreos.jetcd.api.Auth.internal_static_authpb_Permission_descriptor;
    }

    public com.coreos.jetcd.api.Permission getDefaultInstanceForType() {
        return com.coreos.jetcd.api.Permission.getDefaultInstance();
    }

    public com.coreos.jetcd.api.Permission build() {
        com.coreos.jetcd.api.Permission result = buildPartial();
        if (!result.isInitialized()) {
            throw new UninitializedMessageException(result);
        }
        return result;
    }

    public com.coreos.jetcd.api.Permission buildPartial() {
        com.coreos.jetcd.api.Permission result = new com.coreos.jetcd.api.Permission(this);

```

```

    result.permType_ = permType_;
    result.key_ = key_;
    result.rangeEnd_ = rangeEnd_;
    onBuilt();
    return result;
}

public Builder clone() {
    return (Builder) super.clone();
}

public Builder setField(
    com.google.protobuf.Descriptors.FieldDescriptor field,
    Object value) {
    return (Builder) super.setField(field, value);
}

public Builder clearField(
    com.google.protobuf.Descriptors.FieldDescriptor field) {
    return (Builder) super.clearField(field);
}

public Builder clearOneof(
    com.google.protobuf.Descriptors.OneofDescriptor oneof) {
    return (Builder) super.clearOneof(oneof);
}

public Builder setRepeatedField(
    com.google.protobuf.Descriptors.FieldDescriptor field,
    int index, Object value) {
    return (Builder) super.setRepeatedField(field, index, value);
}

public Builder addRepeatedField(
    com.google.protobuf.Descriptors.FieldDescriptor field,
    Object value) {
    return (Builder) super.addRepeatedField(field, value);
}

public Builder mergeFrom(com.google.protobuf.Message other) {
    if (other instanceof com.coreos.jetcd.api.Permission) {
        return mergeFrom((com.coreos.jetcd.api.Permission)other);
    } else {
        super.mergeFrom(other);
        return this;
    }
}

public Builder mergeFrom(com.coreos.jetcd.api.Permission other) {
    if (other == com.coreos.jetcd.api.Permission.getDefaultInstance()) return this;
    if (other.permType_ != 0) {
        setPermTypeValue(other.getPermTypeValue());
    }
    if (other.getKey() != com.google.protobuf.ByteString.EMPTY) {

```

```

    setKey(other.getKey());
}
if (other.getRangeEnd() != com.google.protobuf.ByteString.EMPTY) {
    setRangeEnd(other.getRangeEnd());
}
onChanged();
return this;
}

public final boolean isInitialized() {
    return true;
}

public Builder mergeFrom(
    com.google.protobuf.CodedInputStream input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
    com.coreos.jetcd.api.Permission parsedMessage = null;
    try {
        parsedMessage = PARSER.parsePartialFrom(input, extensionRegistry);
    } catch (com.google.protobuf.InvalidProtocolBufferException e) {
        parsedMessage = (com.coreos.jetcd.api.Permission) e.getUnfinishedMessage();
        throw e.unwrapIOException();
    } finally {
        if (parsedMessage != null) {
            mergeFrom(parsedMessage);
        }
    }
    return this;
}

private int permType_ = 0;
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public int getPermTypeValue() {
    return permType_;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public Builder setPermTypeValue(int value) {
    permType_ = value;
    onChanged();
    return this;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>

```

```

*/
public com.coreos.jetcd.api.Permission.Type getPermType() {
    com.coreos.jetcd.api.Permission.Type result = com.coreos.jetcd.api.Permission.Type.valueOf(permType_);
    return result == null ? com.coreos.jetcd.api.Permission.Type.UNRECOGNIZED : result;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public Builder setPermType(com.coreos.jetcd.api.Permission.Type value) {
    if (value == null) {
        throw new NullPointerException();
    }

    permType_ = value.getNumber();
    onChanged();
    return this;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public Builder clearPermType() {

    permType_ = 0;
    onChanged();
    return this;
}

private com.google.protobuf.ByteString key_ = com.google.protobuf.ByteString.EMPTY;
/**
 * <code>bytes key = 2;</code>
 */
public com.google.protobuf.ByteString getKey() {
    return key_;
}
/**
 * <code>bytes key = 2;</code>
 */
public Builder setKey(com.google.protobuf.ByteString value) {
    if (value == null) {
        throw new NullPointerException();
    }

    key_ = value;
    onChanged();
    return this;
}
/**
 * <code>bytes key = 2;</code>

```

```

*/
public Builder clearKey() {

    key_ = getDefaultInstance().getKey();
    onChanged();
    return this;
}

private com.google.protobuf.ByteString rangeEnd_ = com.google.protobuf.ByteString.EMPTY;
/**
 * <code>bytes range_end = 3;</code>
 */
public com.google.protobuf.ByteString getRangeEnd() {
    return rangeEnd_;
}
/**
 * <code>bytes range_end = 3;</code>
 */
public Builder setRangeEnd(com.google.protobuf.ByteString value) {
    if (value == null) {
        throw new NullPointerException();
    }

    rangeEnd_ = value;
    onChanged();
    return this;
}
/**
 * <code>bytes range_end = 3;</code>
 */
public Builder clearRangeEnd() {

    rangeEnd_ = getDefaultInstance().getRangeEnd();
    onChanged();
    return this;
}
public final Builder setUnknownFields(
    final com.google.protobuf.UnknownFieldSet unknownFields) {
    return this;
}

public final Builder mergeUnknownFields(
    final com.google.protobuf.UnknownFieldSet unknownFields) {
    return this;
}

// @@protoc_insertion_point(builder_scope:authpb.Permission)

```

```

}

// @@protoc_insertion_point(class_scope:authpb.Permission)
private static final com.coreos.jetcd.api.Permission DEFAULT_INSTANCE;
static {
    DEFAULT_INSTANCE = new com.coreos.jetcd.api.Permission();
}

public static com.coreos.jetcd.api.Permission getDefaultInstance() {
    return DEFAULT_INSTANCE;
}

private static final com.google.protobuf.Parser<Permission>
    PARSER = new com.google.protobuf.AbstractParser<Permission>() {
    public Permission parsePartialFrom(
        com.google.protobuf.CodedInputStream input,
        com.google.protobuf.ExtensionRegistryLite extensionRegistry)
        throws com.google.protobuf.InvalidProtocolBufferException {
        return new Permission(input, extensionRegistry);
    }
};

public static com.google.protobuf.Parser<Permission> parser() {
    return PARSER;
}

@Override
public com.google.protobuf.Parser<Permission> getParserForType() {
    return PARSER;
}

public com.coreos.jetcd.api.Permission getDefaultInstanceForType() {
    return DEFAULT_INSTANCE;
}

}
/**
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```


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* limitations under the License.
*/

```
package com.coreos.jetcd.auth;
```

```
import com.coreos.jetcd.data.ByteSequence;
```

```
/**
```

```
* represents a permission over a range of keys.
```

```
*/
```

```
public class Permission {
```

```
    private final Type permType;
```

```
    private final ByteSequence key;
```

```
    private final ByteSequence rangeEnd;
```

```
    public enum Type {
```

```
        READ,
```

```
        WRITE,
```

```
        READWRITE,
```

```
        UNRECOGNIZED,
```

```
    }
```

```
    public Permission(Type permType, ByteSequence key, ByteSequence rangeEnd) {
```

```
        this.permType = permType;
```

```
        this.key = key;
```

```
        this.rangeEnd = rangeEnd;
```

```
    }
```

```
    /**
```

```
     * returns the type of Permission: READ, WRITE, READWRITE, or UNRECOGNIZED.
```

```
    */
```

```
    public Type getPermType() {
```

```
        return permType;
```

```
    }
```

```
    public ByteSequence getKey() {
```

```
        return key;
```

```
    }
```

```
    public ByteSequence getRangeEnd() {
```

```
        return rangeEnd;
```

```
    }
```

```
    }
```

1.124 Jetty :: Continuation 8.1.7.v20120910

1.125 Jetty :: Http Utility 8.1.7.v20120910

1.126 Jetty :: IO Utility 8.1.7.v20120910

1.127 Jetty :: Security 8.1.7.v20120910

1.128 Jetty :: Server Core 8.1.7.v20120910

1.129 Jetty :: Utilities 8.1.7.v20120910

1.130 Jetty Orbit :: Servlet API

3.0.0.v201112011016

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//
```

```
package org.eclipse.jetty.servlet;
```

```
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.List;
import java.util.Map;
```

```
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.UnavailableException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.eclipse.jetty.http.HttpContent;
import org.eclipse.jetty.http.HttpFields;
import org.eclipse.jetty.http.HttpHeaderValues;
import org.eclipse.jetty.http.HttpHeaders;
import org.eclipse.jetty.http.HttpMethods;
import org.eclipse.jetty.http.MimeTypes;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
import org.eclipse.jetty.server.Connector;
import org.eclipse.jetty.server.Dispatcher;
import org.eclipse.jetty.server.HttpOutput;
import org.eclipse.jetty.server.InclusiveByteRange;
import org.eclipse.jetty.server.ResourceCache;
import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.server.nio.NIOConnector;
import org.eclipse.jetty.server.ssl.SslConnector;
import org.eclipse.jetty.util.IO;
import org.eclipse.jetty.util.MultiPartOutputStream;
```

```

import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.FileResource;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.resource.ResourceCollection;
import org.eclipse.jetty.util.resource.ResourceFactory;

/* ----- */
/** The default servlet.
 * This servlet, normally mapped to /, provides the handling for static
 * content, OPTION and TRACE methods for the context.
 * The following initParameters are supported, these can be set either
 * on the servlet itself or as ServletContext initParameters with a prefix
 * of org.eclipse.jetty.servlet.Default. :
 * <PRE>
 * acceptRanges    If true, range requests and responses are
 *                  supported
 *
 * dirAllowed      If true, directory listings are returned if no
 *                  welcome file is found. Else 403 Forbidden.
 *
 * welcomeServlets If true, attempt to dispatch to welcome files
 *                  that are servlets, but only after no matching static
 *                  resources could be found. If false, then a welcome
 *                  file must exist on disk. If "exact", then exact
 *                  servlet matches are supported without an existing file.
 *                  Default is true.
 *
 *                  This must be false if you want directory listings,
 *                  but have index.jsp in your welcome file list.
 *
 * redirectWelcome If true, welcome files are redirected rather than
 *                  forwarded to.
 *
 * gzip            If set to true, then static content will be served as
 *                  gzip content encoded if a matching resource is
 *                  found ending with ".gz"
 *
 * resourceBase    Set to replace the context resource base
 *
 * resourceCache   If set, this is a context attribute name, which the servlet
 *                  will use to look for a shared ResourceCache instance.
 *
 * relativeResourceBase
 *                  Set with a pathname relative to the base of the

```



```

*      servlet context root. Useful for only serving static content out
*      of only specific subdirectories.
*
* pathInfoOnly    If true, only the path info will be applied to the resourceBase
*
* stylesheet      Set with the location of an optional stylesheet that will be used
*                  to decorate the directory listing html.
*
* aliases         If True, aliases of resources are allowed (eg. symbolic
*                  links and caps variations). May bypass security constraints.
*
* maxCacheSize   The maximum total size of the cache or 0 for no cache.
* maxCachedFileSize The maximum size of a file to cache
* maxCachedFiles The maximum number of files to cache
*
* useFileMappedBuffer
*                If set to true, it will use mapped file buffer to serve static content
*                when using NIO connector. Setting this value to false means that
*                a direct buffer will be used instead of a mapped file buffer.
*                By default, this is set to true.
*
* cacheControl   If set, all static content will have this value set as the cache-control
*                header.

```

```

* </PRE>

```

```

*/
public class DefaultServlet extends HttpServlet implements ResourceFactory
{
    private static final Logger LOG = Log.getLogger(DefaultServlet.class);

    private static final long serialVersionUID = 4930458713846881193L;
    private ServletContext _servletContext;
    private ContextHandler _contextHandler;

    private boolean _acceptRanges=true;
    private boolean _dirAllowed=true;
    private boolean _welcomeServlets=false;
    private boolean _welcomeExactServlets=false;
    private boolean _redirectWelcome=false;
    private boolean _gzip=true;
    private boolean _pathInfoOnly=false;

    private Resource _resourceBase;

```

```

private ResourceCache _cache;

private MimeTypes _mimeTypes;
private String[] _welcomes;
private Resource _stylesheet;
private boolean _useFileMappedBuffer=false;
private ByteBuffer _cacheControl;
private String _relativeResourceBase;
private ServletHandler _servletHandler;
private ServletHolder _defaultHolder;

/* ----- */
@Override
public void init()
throws UnavailableException
{
    _servletContext=getServletContext();
    _contextHandler = initContextHandler(_servletContext);

    _mimeTypes = _contextHandler.getMimeTypes();

    _welcomes = _contextHandler.getWelcomeFiles();
    if (_welcomes==null)
        _welcomes=new String[] { "index.html", "index.jsp" };

    _acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
    _dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
    _redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
    _gzip=getInitBoolean("gzip",_gzip);
    _pathInfoOnly=getInitBoolean("pathInfoOnly",_pathInfoOnly);

    if ("exact".equals(getInitParameter("welcomeServlets")))
    {
        _welcomeExactServlets=true;
        _welcomeServlets=false;
    }
    else
        _welcomeServlets=getInitBoolean("welcomeServlets", _welcomeServlets);

    if (getInitParameter("aliases")!=null)
        _contextHandler.setAliases(getInitBoolean("aliases",false));

    boolean aliases=_contextHandler.isAliases();
    if (!aliases && !FileResource.getCheckAliases())
        throw new IllegalStateException("Alias checking disabled");
    if (aliases)
        _servletContext.log("Aliases are enabled");
}

```

```

_useFileMappedBuffer=getInitBoolean("useFileMappedBuffer",_useFileMappedBuffer);

_relativeResourceBase = getInitParameter("relativeResourceBase");

String rb=getInitParameter("resourceBase");
if (rb!=null)
{
    if (_relativeResourceBase!=null)
        throw new UnavailableException("resourceBase & relativeResourceBase");
    try{_resourceBase=_contextHandler.newResource(rb);}
    catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }
}

String css=getInitParameter("stylesheet");
try
{
    if(css!=null)
    {
        _stylesheet = Resource.newResource(css);
        if(!_stylesheet.exists())
        {
            LOG.warn("!" + css);
            _stylesheet = null;
        }
    }
    if(_stylesheet == null)
    {
        _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
    }
}
catch(Exception e)
{
    LOG.warn(e.toString());
    LOG.debug(e);
}

String t=getInitParameter("cacheControl");
if (t!=null)
    _cacheControl=new ByteBuffer(t);

String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);

```

```

int max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
{
    if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-2)
        LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
    if (_relativeResourceBase!=null || _resourceBase!=null)
        throw new UnavailableException("resourceCache specified with resource bases");
    _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);

    LOG.debug("Cache {}={}",resourceCache,_cache);
}

try
{
    if (_cache==null && max_cached_files>0)
    {
        _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);

        if (max_cache_size>0)
            _cache.setMaxCacheSize(max_cache_size);
        if (max_cached_file_size>=-1)
            _cache.setMaxCachedFileSize(max_cached_file_size);
        if (max_cached_files>=-1)
            _cache.setMaxCachedFiles(max_cached_files);
    }
}
catch (Exception e)
{
    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
}

_servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
for (ServletHolder h : _servletHandler.getServlets())
    if (h.getServletInstance()==this)
        _defaultHolder=h;

if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);
}

/**
 * Compute the field _contextHandler.<br/>
 * In the case where the DefaultServlet is deployed on the HttpService it is likely that
 * this method needs to be overwritten to unwrap the ServletContext facade until we reach
 * the original jetty's ContextHandler.
 * @param servletContext The servletContext of this servlet.
 * @return the jetty's ContextHandler for this servletContext.

```

```

*/
protected ContextHandler initContextHandler(ServletContext servletContext)
{
    ContextHandler.Context scontext=ContextHandler.getCurrentContext();
    if (scontext==null)
    {
        if (servletContext instanceof ContextHandler.Context)
            return ((ContextHandler.Context)servletContext).getContextHandler();
        else
            throw new IllegalArgumentException("The servletContext " + servletContext + " " +
                servletContext.getClass().getName() + " is not " + ContextHandler.Context.class.getName());
    }
    else
        return ContextHandler.getCurrentContext().getContextHandler();
}

/* ----- */
@Override
public String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/* ----- */
private boolean getInitBoolean(String name, boolean dft)
{
    String value=getInitParameter(name);
    if (value==null || value.length()==0)
        return dft;
    return (value.startsWith("t")||
        value.startsWith("T")||
        value.startsWith("y")||
        value.startsWith("Y")||
        value.startsWith("1"));
}

/* ----- */
private int getInitInt(String name, int dft)
{
    String value=getInitParameter(name);
    if (value==null)
        value=getInitParameter(name);
    if (value!=null && value.length(>0))
        return Integer.parseInt(value);
    return dft;
}

```

```

}

/* ----- */
/** get Resource to serve.
 * Map a path to a resource. The default implementation calls
 * HttpContext.getResource but derived servlets may provide
 * their own mapping.
 * @param pathInContext The path to find a resource for.
 * @return The resource to serve.
 */
public Resource getResource(String pathInContext)
{
    Resource r=null;
    if (_relativeResourceBase!=null)
        pathInContext=URIUtil.addPaths(_relativeResourceBase,pathInContext);

    try
    {
        if (_resourceBase!=null)
        {
            r = _resourceBase.addPath(pathInContext);
        }
        else
        {
            URL u = _servletContext.getResource(pathInContext);
            r = _contextHandler.newResource(u);
        }

        if (LOG.isDebugEnabled())
            LOG.debug("Resource "+pathInContext+"="+r);
    }
    catch (IOException e)
    {
        LOG.ignore(e);
    }

    if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css"))
        r=_stylesheet;

    return r;
}

/* ----- */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    String servletPath=null;

```

```

String pathInfo=null;
Enumeration<String> reqRanges = null;
Boolean included =request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
if (included!=null && included.booleanValue())
{
    servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
    pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
    if (servletPath==null)
    {
        servletPath=request.getServletPath();
        pathInfo=request.getPathInfo();
    }
}
else
{
    included = Boolean.FALSE;
    servletPath = _pathInfoOnly?"":request.getServletPath();
    pathInfo = request.getPathInfo();

    // Is this a Range request?
    reqRanges = request.getHeaders(HttpHeaders.RANGE);
    if (!hasDefinedRange(reqRanges))
        reqRanges = null;
}

String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

// Can we gzip this request?
String pathInContextGz=null;
boolean gzip=false;
if (!included.booleanValue() && _gzip && reqRanges==null && !endsWithSlash )
{
    // Tell caches that response may vary by accept-encoding
    response.setHeader(HttpHeaders.VARY,HttpHeaders.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(HttpHeaders.ACCEPT_ENCODING);
    if (accept!=null && accept.indexOf("gzip")>=0)
        gzip=true;
}

// Find the resource and content
Resource resource=null;
HttpContent content=null;

try
{
    // Try gzipped content first

```

```

if (gzip)
{
    pathInContextGz=pathInContext+".gz";

    if (_cache==null)
    {
        resource=getResource(pathInContextGz);
    }
    else
    {
        content=_cache.lookup(pathInContextGz);
        resource=(content==null)?null:content.getResource();
    }

    if (resource==null || !resource.exists() || resource.isDirectory())
    {
        gzip=false;
        pathInContextGz=null;
    }
}

// find resource
if (!gzip)
{
    if (_cache==null)
        resource=getResource(pathInContext);
    else
    {
        content=_cache.lookup(pathInContext);
        resource=content==null?null:content.getResource();
    }
}

if (LOG.isDebugEnabled())
    LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content:");

// Handle resource
if (resource==null || !resource.exists())
{
    if (included)
        throw new FileNotFoundException("!" + pathInContext);
    response.sendError(HttpServletResponse.SC_NOT_FOUND);
}
else if (!resource.isDirectory())
{
    if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length(>1)
    {
        String q=request.getQueryString();

```



```

        pathInContext=pathInContext.substring(0,pathInContext.length()-1);
        if (q!=null&&q.length()!=0)
            pathInContext+="?" +q;
response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
else
{
    // ensure we have content
    if (content==null)
        content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()),response.get
BufferSize());

    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
    {
        if (gzip)
        {
            response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
            String mt=_servletContext.getMimeType(pathInContext);
            if (mt!=null)
                response.setContentType(mt);
        }
        sendData(request,response,included.booleanValue(),resource,content,reqRanges);
    }
}
else
{
    String welcome=null;

    if (!endsWithSlash || (pathInContext.length()==1 &&
request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
    {
        StringBuffer buf=request.getRequestURL();
        synchronized(buf)
        {
            int param=buf.lastIndexOf(";");
            if (param<0)
                buf.append('/');
            else
                buf.insert(param, '/');
            String q=request.getQueryString();
            if (q!=null&&q.length()!=0)
            {
                buf.append('?');
                buf.append(q);
            }
        }
    }
}
}

```

```

        response.setContentLength(0);
        response.sendRedirect(response.encodeRedirectURL(buf.toString()));
    }
}
// else look for a welcome file
else if (null!=(welcome=getWelcomeFile(pathInContext)))
{
    LOG.debug("welcome={}",welcome);
    if (_redirectWelcome)
    {
        // Redirect to the index
        response.setContentLength(0);
        String q=request.getQueryString();
        if (q!=null&&q.length()!=0)
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
_servletContext.getContextPath(),welcome)+"?" +q));
        else
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
_servletContext.getContextPath(),welcome)));
    }
    else
    {
        // Forward to the index
        RequestDispatcher dispatcher=request.getRequestDispatcher(welcome);
        if (dispatcher!=null)
        {
            if (included.booleanValue())
                dispatcher.include(request,response);
            else
            {
                request.setAttribute("org.eclipse.jetty.server.welcome",welcome);
                dispatcher.forward(request,response);
            }
        }
    }
}
else
{
    content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()));
    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        sendDirectory(request,response,resource,pathInContext);
}
}
}
catch(IllegalArgumentException e)
{
    LOG.warn(Log.EXCEPTION,e);
}

```

```

        if(!response.isCommitted())
            response.sendError(500, e.getMessage());
    }
    finally
    {
        if (content!=null)
            content.release();
        else if (resource!=null)
            resource.release();
    }
}

/* ----- */
private boolean hasDefinedRange(Enumeration<String> reqRanges)
{
    return (reqRanges!=null && reqRanges.hasMoreElements());
}

/* ----- */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    doGet(request,response);
}

/* ----- */
/* (non-Javadoc)
 * @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
 */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
{
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ----- */
@Override
protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
throws ServletException, IOException
{
    resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
}

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

```

```

* Finds a matching welcome file for the supplied { @link Resource}. This will be the first entry in the list of
* configured { @link #_welcomes welcome files} that existing within the directory referenced by the
<code>Resource</code>.
* If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
* If there is none, then <code>null</code> is returned.
* The list of welcome files is read from the { @link ContextHandler} for this servlet, or
* <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.
* @param resource
* @return The path of the matching welcome file in context or null.
* @throws IOException
* @throws MalformedURLException
*/
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
{
    if (_welcomes==null)
        return null;

    String welcome_servlet=null;
    for (int i=0;i<_welcomes.length;i++)
    {
        String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
        Resource welcome=getResource(welcome_in_context);
        if (welcome!=null && welcome.exists())
            return _welcomes[i];

        if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
        {
            Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
            if (entry!=null && entry.getValue()!=_defaultHolder &&
                (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
                welcome_servlet=welcome_in_context;
        }
    }
    return welcome_servlet;
}

/* ----- */
/* Check modification date headers.
*/
protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {

```

```

String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
if (ifms!=null)
{
    //Get jetty's Response impl
    Response r = Response.getResponse(response);

    if (content!=null)
    {
        Buffer mdlm=content.getLastModified();
        if (mdlm!=null)
        {
            if (ifms.equals(mdlm.toString()))
            {
                r.reset(true);
                r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                r.flushBuffer();
                return false;
            }
        }
    }

    long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
    if (ifmsl!=-1)
    {
        if (resource.lastModified()/1000 <= ifmsl/1000)
        {
            r.reset(true);
            r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
            r.flushBuffer();
            return false;
        }
    }
}

// Parse the if[un]modified dates and compare to resource
long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

if (date!=-1)
{
    if (resource.lastModified()/1000 > date/1000)
    {
        response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
        return false;
    }
}
}
}

```

```

catch(IllegalArgumentException iae)
{
    if(!response.isCommitted())
        response.sendError(400, iae.getMessage());
    throw iae;
}
return true;
}

/* ----- */
protected void sendDirectory(HttpServletRequest request,
    HttpServletResponse response,
    Resource resource,
    String pathInContext)
throws IOException
{
    if (!_dirAllowed)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN);
        return;
    }

    byte[] data=null;
    String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

    //If the DefaultServlet has a resource base set, use it
    if (_resourceBase != null)
    {
        // handle ResourceCollection
        if (_resourceBase instanceof ResourceCollection)
            resource=_resourceBase.addPath(pathInContext);
    }
    //Otherwise, try using the resource base of its enclosing context handler
    else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
        resource=_contextHandler.getBaseResource().addPath(pathInContext);

    String dir = resource.getListHTML(base,pathInContext.length(>1);
    if (dir==null)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN,
            "No directory");
        return;
    }

    data=dir.getBytes("UTF-8");
    response.setContentType("text/html; charset=UTF-8");
    response.setContentLength(data.length);

```

```

        response.getOutputStream().write(data);
    }

    /* ----- */
    protected void sendData(HttpServletRequest request,
        HttpServletResponse response,
        boolean include,
        Resource resource,
        HttpContent content,
        Enumeration reqRanges)
        throws IOException
    {
        boolean direct;
        long content_length;
        if (content==null)
        {
            direct=false;
            content_length=resource.length();
        }
        else
        {
            Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
            direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
            !(connector instanceof SslConnector);
            content_length=content.getContentLength();
        }

        // Get the output stream (or writer)
        OutputStream out =null;
        boolean written;
        try
        {
            out = response.getOutputStream();

            // has a filter already written to the response?
            written = out instanceof HttpOutput
                ? ((HttpOutput)out).isWritten()
                : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
        }
        catch(IllegalStateException e)
        {
            out = new WriterOutputStream(response.getWriter());
            written=true; // there may be data in writer buffer, so assume written
        }

        if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
        {

```

```

// if there were no ranges, send entire entity
if (include)
{
    resource.writeTo(out,0,content_length);
}
else
{
    // See if a direct methods can be used?
    if (content!=null && !written && out instanceof HttpOutput)
    {
        if (response instanceof Response)
        {
            writeOptionHeaders(((Response)response).getHttpFields());
            ((AbstractHttpConnection.Output)out).sendContent(content);
        }
        else
        {
            Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
            if (buffer!=null)
            {
                writeHeaders(response,content,content_length);
                ((AbstractHttpConnection.Output)out).sendContent(buffer);
            }
            else
            {
                writeHeaders(response,content,content_length);
                resource.writeTo(out,0,content_length);
            }
        }
    }
    else
    {
        // Write headers normally
        writeHeaders(response,content,written?-1:content_length);

        // Write content normally
        Buffer buffer = (content==null)?null:content.getIndirectBuffer();
        if (buffer!=null)
            buffer.writeTo(out);
        else
            resource.writeTo(out,0,content_length);
    }
}
else
{
    // Parse the satisfiable ranges
    List ranges =InclusiveByteRange.satisfiableRanges(reqRanges,content_length);

```



```

// if there are no satisfiable ranges, send 416 response
if (ranges==null || ranges.size()==0)
{
    writeHeaders(response, content, content_length);
    response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        InclusiveByteRange.to416HeaderRangeString(content_length));
    resource.writeTo(out,0,content_length);
    return;
}

// if there is only a single valid range (must be satisfiable
// since were here now), send that range with a 216 response
if ( ranges.size()== 1)
{
    InclusiveByteRange singleSatisfiableRange =
        (InclusiveByteRange)ranges.get(0);
    long singleLength = singleSatisfiableRange.getSize(content_length);
    writeHeaders(response,content,singleLength
        );
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        singleSatisfiableRange.toHeaderRangeString(content_length));
    resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
    return;
}

// multiple non-overlapping valid ranges cause a multipart
// 216 response which does not require an overall
// content-length header
//
writeHeaders(response,content,-1);
String mimetype=content.getContentType().toString();
MultiPartOutputStream multi = new MultiPartOutputStream(out);
response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

// If the request has a "Request-Range" header then we need to
// send an old style multipart/x-byteranges Content-Type. This
// keeps Netscape and acrobat happy. This is what Apache does.
String ctp;
if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
    ctp = "multipart/x-byteranges; boundary=";
else
    ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp+multi.getBoundary());

InputStream in=resource.getInputStream();
long pos=0;

```

```

// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    header[i]=ibr.toHeaderRangeString(content_length);
    length+=
        ((i>0)?2:0)+
        2+multi.getBoundary().length()+2+
        HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
        HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
        2+
        (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);

for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+" "+header[i]});

    long start=ibr.getFirst(content_length);
    long size=ibr.getSize(content_length);
    if (in!=null)
    {
        // Handle non cached resource
        if (start<pos)
        {
            in.close();
            in=resource.getInputStream();
            pos=0;
        }
        if (pos<start)
        {
            in.skip(start-pos);
            pos=start;
        }
        IO.copy(in,multi,size);
        pos+=size;
    }
    else
        // Handle cached resource
        (resource).writeTo(multi,start,size);
}
}

```

```

        if (in!=null)
            in.close();
        multi.close();
    }
    return;
}

/* ----- */
protected void writeHeaders(HttpServletRequest response,HttpContent content,long count)
throws IOException
{
    if (content.getContentType()!=null && response.getContentType()==null)
        response.setContentType(content.getContentType().toString());

    if (response instanceof Response)
    {
        Response r=(Response)response;
        HttpFields fields = r.getHttpFields();

        if (content.getLastModified()!=null)
            fields.put(HttpHeaders.LAST_MODIFIED_BUFFER,content.getLastModified());
        else if (content.getResource()!=null)
        {
            long lml=content.getResource().lastModified();
            if (lml!=-1)
                fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);
        }

        if (count != -1)
            r.setLongContentLength(count);

        writeOptionHeaders(fields);
    }
    else
    {
        long lml=content.getResource().lastModified();
        if (lml>=0)
            response.setDateHeader(HttpHeaders.LAST_MODIFIED,lml);

        if (count != -1)
        {
            if (count<Integer.MAX_VALUE)
                response.setContentLength((int)count);
            else
                response.setHeader(HttpHeaders.CONTENT_LENGTH,Long.toString(count));
        }

        writeOptionHeaders(response);
    }
}

```

```

    }
}

/* ----- */
protected void writeOptionHeaders(HttpFields fields) throws IOException
{
    if (_acceptRanges)
        fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER,HttpHeaderValues.BYTES_BUFFER);

    if (_cacheControl!=null)
        fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
}

/* ----- */
protected void writeOptionHeaders(HttpServletResponse response) throws IOException
{
    if (_acceptRanges)
        response.setHeader(HttpHeaders.ACCEPT_RANGES,"bytes");

    if (_cacheControl!=null)
        response.setHeader(HttpHeaders.CACHE_CONTROL,_cacheControl.toString());
}

/* ----- */
/*
 * @see javax.servlet.Servlet#destroy()
 */
@Override
public void destroy()
{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}
}

```

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1.153 kafka-clients 0.10.2.0

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1.185 metrics-core 3.1.5

1.186 MXP1: Xml Pull Parser 3rd Edition (XPP3) 1.1.4c

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1.187 netty project 3.7.0 :final

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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1.299 tomcat-embed-core 8.5.6

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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1.300 tomcat-embed-el 8.5.11

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1.301 tomcat-embed-el 8.5.6

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1.302 tomcat-embed-websocket 8.5.6

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1.303 tomcat-embed-websocket 8.5.11

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* license/LICENSE.webbit.txt (BSD License)

* HOMEPAGE:

* <https://github.com/joewalnes/webbit>

Apache log4j

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<https://jersey.dev.java.net/>
<https://grizzly.dev.java.net/>

1.314 zookeeper/jboss-logging 3.4.8

1.314.1 Available under license :

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Version 2.1, February 1999

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1.315 zookeeper/jtoaster+jersey+grizzly 3.4.8

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1.316 zookeeper/zooinspector-icons 3.4.8

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