

# BeSt-Address License Info

FPS BOSA DG DIS

Version 1.12.1

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# 1. Introduction

## 1.1. Description

This guide describes the licenses of the data served by, and software components used to develop, the BeSt-Address Web API.

The Belgian Streets and Addresses project (BeSt) combines the address data from the 3 Regions into one single database.

The service is developed and maintained by the Federal Public Service BOSA, and is provided "as-is", without warranty of any kind.

More info about this project can be found on the BOSA page [bosa.belgium.be/nl/services/best-address-services](https://bosa.belgium.be/nl/services/best-address-services)

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# 3. Software Component Licenses

## 3.1. Overview

The Web API is based on open source software components.

Component	License
Spring Boot	Apache v2.0
Spring Framework	Apache v2.0
Spring Data JPA	Apache v2.0
Antlr	Public Domain
Apache Commons Lang	Apache v2.0
Apache Log4j	Apache v2.0
Apache Tomcat Embed	Apache v2.0
ASM	BSD 3-clause
ByteBuddy	Apache v2.0
Checker Qual	MIT
Eclipse Angus Activation	BSD 3-Clause
Ehcache	Apache v2.0
FastDoubleParser	MIT
FasterXML ClassMate	Apache v2.0
FasterXML Jackson Core, Annotations, Databind, Modules Java8	Apache v2.0
Geolatte Geom	LGPL v3.0
Glassfish JAXB runtime	EDL v1.0
HdrHistogram	BSD 2-clause
Hibernate ORM, Commons Annotations, HikariCP, JCache	LGPL v2.1
Hibernate Spatial	LGPL v2.1 or later
HikariCP	Apache v2.0
Istack Common Utility Code Runtime	EDL v1.0
Jakarta Activation API	EDL v1.0
Jakarta Annotations API	EPL v2.0 / GPL v2 with the Classpath Exception
Jakarta Persistence API	EPL v2.0

Jakarta Transaction API	EPL v2.0 / GPL v2 with the Classpath Exception
Javax Cache API	Apache v2.0
JAXB Core, Runtime	EDL v1.0
JBoss Jandex	Apache v2.0
JBoss Logging	Apache v2.0
JUL-to-SLF4j	MIT
Junixsocket	Apache v2.0
Latency Utils	BSD 2-clause
LocationTech JTS Core	EPL v2.0 / EDL v1.0
LocationTech Proj4j	Apache v2.0
LocationTech Proj4j EPSG	EPSG Geodetic Parameter Dataset Terms of Use
Logback	EPL v1.0 / LGPL 2.1
Lombok	MIT
Micrometer Commons, Core, Jakarta9, Observation	Apache v2.0
Ongres SCRAM Client, Common	BSD 2-clause
Ongres SASL Prep, String Prep	BSD 2-clause
OsGen	BSD 2-Clause
Postgresql JDBC Driver	BSD 2-clause
SLF4j API, Simple	MIT

In addition, the Best-in-a-box dockerized solution uses:

AlmaLinux OS	GPLv2
Eclipse Temurin	GPL v2 2 with the Classpath Exception
Fedora EPEL	
Postgres	PostgreSQL license
PostGIS	GPL v2

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Version 3, 29 June 2007

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### 3.2.11. PostgreSQL

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(formerly known as Postgres, then as Postgres95)

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## 3.3. Notices

### 3.3.1. Angus Activation

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\* Project home: <https://projects.eclipse.org/projects/ee4j.angus>

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\* <https://github.com/eclipse-ee4j/angus-activation>

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### 3.3.7. Apache Tomcat Embed Core

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- 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
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

### 3.3.8. Apache Tomcat Embed EL, Websocket

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### 3.3.9. ByteBuddy

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### 3.3.10. Checker

Checker Framework qualifiers  
Copyright 2004-present by the Checker Framework developers

### 3.3.11. ClassMate

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

Other developers who have contributed code are:

\* Brian Langel

## Copyright

Copyright 2007-, Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi))

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- \* <https://github.com/eclipse-ee4j/angus-mail>

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Ehcache V3  
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### 3.3.14. FastDoubleParser

# FastDoubleParser

This is a Java port of Daniel Lemire's fast\_float project. This project provides parsers for double, float, BigDecimal and BigInteger values.

## Copyright

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### 3.3.15. HdrHistogram

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Copyright (c) 2014 Matt Warren

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### 3.3.16. Jackson Annotations, Databind, Datatype, Module Parameter Names

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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### 3.3.17. Jackson Core

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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## ## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser

<https://github.com/wrandelshofer/FastDoubleParser>

That code is available under an MIT license

<https://github.com/wrandelshofer/FastDoubleParser/blob/main/LICENSE>

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See FastDoubleParser-NOTICE for details of other source code included in FastDoubleParser

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[https://github.com/fastfloat/fast\\_float](https://github.com/fastfloat/fast_float)

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<https://github.com/tbukt/bigint/tree/floatfft>

<https://github.com/tbukt/bigint/blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE>

<https://github.com/wrandelshofer/FastDoubleParser/blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE>

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#### ## Source Code

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\* <https://github.com/jakartaee/jaf-api>

\* <https://github.com/jakartaee/jaf-tck>

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jsoup (1.10.2)

\* License: MIT

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\* Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

\* Source: <http://hg.openjdk.java.net/code-tools/jtharness/>

JUnit (4.12)

\* License: Eclipse Public License

normalize.css (3.0.2)

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\* Project: <http://necolas.github.io/normalize.css/>

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\* Project: <https://wiki.openjdk.java.net/display/CodeTools/sigtest>

\* Source: <http://hg.openjdk.java.net/code-tools/sigtest/file/c57f97e2ac2f>

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### 3.3.19. Jakarta Annotations

#### # Notices for Jakarta Annotations

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<https://github.com/eclipse-ee4j/injection-api>  
<https://github.com/eclipse-ee4j/injection-spec>  
<https://github.com/eclipse-ee4j/injection-tck>

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None

## Cryptography

None

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## Source Code

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## Third-party Content

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### 3.3.22. Jakarta Transactions

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#### ## Source Code

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- \* <https://github.com/jakartaee/jaxb-api>
- \* <https://github.com/jakartaee/jaxb-tck>

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- \* <https://github.com/eclipse-ee4j/jaxb-istack-commons>
- \* <https://github.com/eclipse-ee4j/jaxb-dtd-parser>
- \* <https://github.com/eclipse-ee4j/jaxb-fi>
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- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/shared/file-management/>
- \* Source:  
<https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/>

JUnit (4.12)

\* License: Eclipse Public License

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maven-compat (3.5.2)

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\* Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>

\* Source: <https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

\* License: Apache-2.0

\* Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>

\* Source:

<https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

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maven-resolver-api (1.1.1)

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maven-resolver-api (1.1.1)

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\* Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>

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<https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

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\* License: Apache-2.0

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

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plexus-archiver (3.5)

\* License: Apache-2.0

\* Project: <https://codehaus-plexus.github.io/plexus-archiver/>

\* Source: <https://github.com/codehaus-plexus/plexus-archiver>

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plexus-utils (3.1.0)

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testng (6.14.2)

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\* Project: <https://testng.org/doc/index.html>

\* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

\* License: Pending

\* Project: <https://maven.apache.org/wagon/>

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

xz for java (1.8)

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### 3.3.28. Ongres SASL Prep, String Prep

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=====

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-- liblwgeom/lookup3.c is released under Public Domain by Bob Jenkins, May 2006.

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Data used in documentation falls in one of the following categories

- Many of the examples in the topology and tiger geocoder section utilize data from US Census Tiger data 2010  
<https://www.census.gov/geo/www/tiger/tgrshp2010/tgrshp2010.html>
- data or snapshots generated by community
- many images autogenerated by PostGIS documentation generator (which utilizes ImageMagick) as described  
<http://trac.osgeo.org/postgis/wiki/DevWikiDocNewFeature>
- PostGIS raster output functions such as the ST\_AsPNG etc.
- raster/vector data from MassGIS: <http://www.mass.gov/mgis/laylist.htm>

### 3.3.32. SLF4J API

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### 3.3.34. Spring Boot

Spring Boot 3.5.11  
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