

# **Spring IO Platform Reference Guide**

Athens-RELEASE

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# Table of Contents

|                                                                |    |
|----------------------------------------------------------------|----|
| I. Spring IO Platform Documentation .....                      | 1  |
| 1. About the documentation .....                               | 2  |
| 2. Getting help .....                                          | 3  |
| II. Getting Started .....                                      | 4  |
| 3. Introducing Spring IO Platform .....                        | 5  |
| 4. Using Spring IO Platform .....                              | 6  |
| 4.1. Using Spring IO Platform with Maven .....                 | 6  |
| 4.2. Using Spring IO Platform with Gradle .....                | 7  |
| 5. Overriding Spring IO Platform's dependency management ..... | 9  |
| 5.1. Overriding a version using Maven .....                    | 9  |
| 5.2. Overriding a version using Gradle .....                   | 9  |
| 5.3. Logging .....                                             | 9  |
| III. Upgrading .....                                           | 10 |
| 6. Changes to dependency management .....                      | 11 |
| 6.1. Dependency management that has been removed .....         | 11 |
| 6.2. Dependency management that has been replaced .....        | 11 |
| IV. Maintenance .....                                          | 12 |
| 7. Adding dependencies .....                                   | 13 |
| 8. Release cycle .....                                         | 14 |
| V. Appendices .....                                            | 15 |
| A. Dependency versions .....                                   | 16 |

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# **Part I. Spring IO Platform Documentation**

This section provides a brief overview of Spring IO Platform reference documentation.

# 1. About the documentation

Spring IO Platform reference documentation is available as [html](#), [pdf](#) and [epub](#) documents. The latest copy is available at <http://docs.spring.io/platform/docs/current/reference>.

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## 2. Getting help

If you're having trouble with Spring IO Platform, we'd like to help:

- Learn the Spring basics — Spring IO Platform brings together many Spring projects, check the [spring.io](https://spring.io) website for a wealth of reference documentation. If you are just starting out with Spring, try one of the [guides](#).
- Report bugs with the Spring IO Platform at <https://github.com/spring-io/platform/issues>.

### Note

All of Spring IO Platform is open source, including this documentation. If you find problems with the documentation, or if you just want to improve them, please [get involved](#).

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# Part II. Getting Started

This section provides all you need to know to get started with Spring IO Platform.

## 3. Introducing Spring IO Platform

Spring IO Platform brings together the core Spring APIs into a cohesive platform for modern applications. It provides versions of numerous projects in the Spring portfolio along with their dependencies that are tested and known to work together.

## 4. Using Spring IO Platform

Spring IO Platform is primarily intended to be used with a dependency management system. It works well with both Maven and Gradle.

### 4.1 Using Spring IO Platform with Maven

The Platform uses Maven's support for [dependency management](#) to provide dependency versions to your application's build. To consume this dependency management you can import the Platform's pom into your application's pom:

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/
maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>com.example</groupId>
  <artifactId>your-application</artifactId>
  <version>1.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>io.spring.platform</groupId>
        <artifactId>platform-bom</artifactId>
        <version>Athens-RELEASE</version>
        <type>pom</type>
        <scope>import</scope>
      </dependency>
    </dependencies>
  </dependencyManagement>

  ...

  <!-- Add Spring repositories -->
  <!-- (you don't need this if you are using a .RELEASE version) -->
  <repositories>
  </repositories>

  <pluginRepositories>
  </pluginRepositories>
</project>
```

Alternatively, rather than importing the Platform's pom, you may prefer to use it as your pom's parent:

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/
maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>com.example</groupId>
  <artifactId>your-application</artifactId>
  <version>1.0.0-SNAPSHOT</version>

  <parent>
    <groupId>io.spring.platform</groupId>
    <artifactId>platform-bom</artifactId>
    <version>Athens-RELEASE</version>
    <relativePath/>
  </parent>
```



```

...

<!-- Add Spring repositories -->
<!-- (you don't need this if you are using a .RELEASE version) -->
<repositories>
</repositories>

<pluginRepositories>
</pluginRepositories>
</project>

```

Taking this approach, in addition to the dependency management that importing the pom provides, your application will also gain some plugin management that provides sensible defaults for a number of plugins, including [Spring Boot's Maven Plugin](#). To take advantage of this default configuration, all you then need to do is to include the plugin in the `<plugins>` section of your pom:

```

<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
  </plugins>
</build>

```

By using the Platform as your pom's parent, you will also be able to make use of the properties that it declares and to override those properties to change the version of a dependency, for example. See [Section 5.1, "Overriding a version using Maven"](#) for more information.

If you want to use the Platform and Spring Boot together, you don't have to use the Platform's pom as the parent. Instead, you can import the Platform's pom as described above and then perform the rest of the configuration manually. [Spring Boot's documentation on using it with Maven](#) will show you how.

Whichever approach you choose, no dependencies will be added to your application. However, when you do declare a dependency on something that's part of the Platform, you will now be able to omit the version number. For example:

```

<dependencies>
  <dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-core</artifactId>
  </dependency>
</dependencies>

```

For more details of what's included in the Platform and the versions that are provided, please refer to the [appendix](#).

## 4.2 Using Spring IO Platform with Gradle

To use the Platform with Gradle, you can use the Gradle [Dependency Management Plugin](#) and import the bom in much the same way as you would with Maven. The use of a plugin is necessary as Gradle does not provide an equivalent of Maven's built-in dependency management support.

To use the plugin, you configure your build to apply the plugin and then in the `dependencyManagement` configuration you import the Platform's bom:

```

buildscript {
  repositories {
    jcenter()
  }
}

```

```
    }
    dependencies {
        classpath 'io.spring.gradle:dependency-management-plugin:0.6.0.RELEASE'
    }
}

apply plugin: 'io.spring.dependency-management'

repositories {
    mavenCentral()
}

dependencyManagement {
    imports {
        mavenBom 'io.spring.platform:platform-bom:Athens-RELEASE'
    }
}
```

With this configuration in place you can then declare a dependency on an artifact that's part of the Platform without specifying a version:

```
dependencies {
    compile 'org.springframework:spring-core'
}
```

For more details of what's included in the Platform and the versions that are provided, please refer to the [appendix](#).

## 5. Overriding Spring IO Platform's dependency management

One of the major benefits of the Spring IO Platform is that it provides a set of versions that are known to work together, while also allowing you to override those versions to suit the needs of your project.

Both the Spring IO Platform bom, and the Spring Boot bom from which it inherits, use properties to define the versions of the managed dependencies. To change the version of a dependency the value of its version property can be overridden. To identify the property that you wish to override, consult the `<properties>` sections of the Spring IO Platform bom and the Spring Boot bom from which it inherits. Exactly how the property is overridden depends on whether your project is built with Maven or Gradle.

### 5.1 Overriding a version using Maven

To override a property in Maven you must use the Platform's bom as your pom's parent. You can then declare the property in your pom's `<properties>` section with the desired value:

```
<properties>
  <foo.version>1.1.0.RELEASE</foo.version>
</properties>
```

### 5.2 Overriding a version using Gradle

To override a property in Gradle, configure its value in your `build.gradle` script:

```
ext[ 'foo.version' ] = '1.1.0.RELEASE'
```

Or in `gradle.properties`:

```
foo.version=1.1.0.RELEASE
```

### 5.3 Logging

Spring IO Platform builds on top of Spring Boot which takes a somewhat opinionated view about logging in that it aims to prevent Commons Logging from being used by default. Instead, it encourages the use of Logback via its `spring-boot-starter-logging` module. Support for other logging frameworks, including Log4J and Log4J2, is also provided. Wherever possible, applications built using Spring IO Platform adopt this approach.

If you choose not to use Spring Boot's `spring-boot-starter-logging` module but still wish to avoid the use of Commons Logging, using SLF4J and its `jcl-over-slf4j` module is recommended along with a logging backend such as Logback or Log4J2.

---

# Part III. Upgrading

This section provides all you need to know about upgrading to this version of Spring IO Platform.

## 6. Changes to dependency management

### 6.1 Dependency management that has been removed

The following table lists dependency management that has been removed. If your project uses one of these dependencies, you should configure your own dependency management as part of the upgrade process.

| Dependency                                               | Explanation                                                                                         |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <code>com.fasterxml.jackson:jackson-datatype-jdk7</code> | As of Jackson 2.7, functionality is provided by <code>com.fasterxml.jackson:jackson-databind</code> |
| <code>org.apache.zookeeper:zookeeper</code>              | No longer a direct dependency of any of the Platform's projects                                     |
| <code>org.igniterealtime.smack:smack</code>              | No longer a direct dependency of any of the Platform's projects                                     |
| <code>org.neo4j:neo4j-ogm-api</code>                     | No longer a direct dependency of any of the Platform's projects                                     |
| <code>com.github.fge:json-patch</code>                   | No longer a direct dependency of any of the Platform's projects                                     |
| <code>javax.xml.soap:saaj-api</code>                     | No longer a direct dependency of any of the Platform's projects                                     |

### 6.2 Dependency management that has been replaced

The following table lists dependency management that has been replaced. Where possible, as part of the upgrade process, you should update your project's dependencies to use the replacements.

| Dependency                                    | Replacement                            |
|-----------------------------------------------|----------------------------------------|
| <code>com.mysema.querydsl:querydsl-apt</code> | <code>com.querydsl:querydsl-apt</code> |
| <code>javax.ejb:ejb-api</code>                | <code>javax.ejb:javax.ejb-api</code>   |

---

# Part IV. Maintenance

This section describes the approach taken to the maintenance of the Platform.

## 7. Adding dependencies

The inclusion of a dependency in the Platform is triggered by its usage in one of the Platform's projects. When a new project is added to the Platform, or the Platform upgrades to a new version of an existing project, any of the project's dependencies that are not part of the Platform will be added to the Platform. Furthermore, when a new dependency is added to the Platform, any other modules that are part of the same project will typically also be added, even if they are not used by any of the Platform's projects. This helps to ensure that a consistent version is used across all modules of a third-party project.

## 8. Release cycle

A new maintenance release of the Platform occurs roughly every 6 to 8 weeks. There will, however, be occasions when a new release occurs more quickly than this; to address a security vulnerability, for example. This schedule will also slow down as a branch ages and has been superseded.

In addition to the general maintenance cycle described above, a maintenance release of the Platform will often be triggered by a maintenance release of Spring Boot. Furthermore, a new maintenance release of Spring Framework will often trigger a maintenance release of Spring Boot.

A key goal of the Platform is to provide its users with a stable set of versions that maintain backwards compatibility while also being as up-to-date as possible. To allow us to strike this balance there may be occasions when a bug in Spring Framework or Spring Boot causes the Platform to skip a version and wait for a release which resolves the issue.



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## Part V. Appendices

# Appendix A. Dependency versions

The table below provides details of all of the artifacts that are part of Spring IO Platform. When you declare a dependency on one of these artifacts without declaring a version, the version that is listed in the table will be used.

| Group                            | Artifact                 | Version     |
|----------------------------------|--------------------------|-------------|
| antlr                            | antlr                    | 2.7.7       |
| aopalliance                      | aopalliance              | 1.0         |
| biz.paluch.redis                 | lettuce                  | 3.5.0.Final |
| ch.qos.logback                   | logback-access           | 1.1.7       |
| ch.qos.logback                   | logback-classic          | 1.1.7       |
| ch.qos.logback                   | logback-core             | 1.1.7       |
| com.atomikos                     | transactions-jdbc        | 3.9.3       |
| com.atomikos                     | transactions-jms         | 3.9.3       |
| com.atomikos                     | transactions-jta         | 3.9.3       |
| com.caucho                       | hessian                  | 4.0.38      |
| com.couchbase.client             | couchbase-spring-cache   | 2.0.0       |
| com.couchbase.client             | java-client              | 2.2.8       |
| com.datastax.cassandra           | cassandra-driver-core    | 2.1.9       |
| com.datastax.cassandra           | cassandra-driver-dse     | 2.1.9       |
| com.datastax.cassandra           | cassandra-driver-mapping | 2.1.9       |
| com.esotericsoftware             | kryo                     | 3.0.3       |
| com.esotericsoftware             | kryo-shaded              | 3.0.3       |
| com.fasterxml.jackson.core       | jackson-annotations      | 2.8.3       |
| com.fasterxml.jackson.core       | jackson-core             | 2.8.3       |
| com.fasterxml.jackson.core       | jackson-databind         | 2.8.3       |
| com.fasterxml.jackson.dataformat | jackson-dataformat-cbor  | 2.8.3       |
| com.fasterxml.jackson.dataformat | jackson-dataformat-csv   | 2.8.3       |
| com.fasterxml.jackson.dataformat | jackson-dataformat-smile | 2.8.3       |
| com.fasterxml.jackson.dataformat | jackson-dataformat-xml   | 2.8.3       |
| com.fasterxml.jackson.dataformat | jackson-dataformat-yaml  | 2.8.3       |
| com.fasterxml.jackson.datatype   | jackson-datatype-guava   | 2.8.3       |

| Group                               | Artifact                        | Version |
|-------------------------------------|---------------------------------|---------|
| com.fasterxml.jackson.datatype      | jackson-datatype-hibernate4     | 2.8.3   |
| com.fasterxml.jackson.datatype      | jackson-datatype-hibernate5     | 2.8.3   |
| com.fasterxml.jackson.datatype      | jackson-datatype-jaxrs          | 2.8.3   |
| com.fasterxml.jackson.datatype      | jackson-datatype-jdk8           | 2.8.3   |
| com.fasterxml.jackson.datatype      | jackson-datatype-joda           | 2.8.3   |
| com.fasterxml.jackson.datatype      | jackson-datatype-json-org       | 2.8.3   |
| com.fasterxml.jackson.datatype      | jackson-datatype-jsr310         | 2.8.3   |
| com.fasterxml.jackson.jaxrs         | jackson-jaxrs-base              | 2.8.3   |
| com.fasterxml.jackson.jaxrs         | jackson-jaxrs-json-provider     | 2.8.3   |
| com.fasterxml.jackson.module        | jackson-module-jaxb-annotations | 2.8.3   |
| com.fasterxml.jackson.module        | jackson-module-kotlin           | 2.8.3   |
| com.fasterxml.jackson.module        | jackson-module-parameter-names  | 2.8.3   |
| com.fasterxml                       | classmate                       | 1.3.1   |
| com.gemstone.gemfire                | gemfire                         | 8.2.0   |
| com.github.ben-manes.caffeine       | caffeine                        | 2.3.3   |
| com.github.mxab.thymeleaf.extras    | thymeleaf-extras-data-attribute | 1.3     |
| com.github.spullara.redis           | client                          | 0.7     |
| com.goldmansachs                    | gs-collections                  | 5.1.0   |
| com.google.appengine                | appengine-api-1.0-sdk           | 1.9.42  |
| com.google.code.findbugs            | annotations                     | 2.0.3   |
| com.google.code.findbugs            | jsr305                          | 3.0.1   |
| com.google.code.gson                | gson                            | 2.7     |
| com.google.code.typica              | typica                          | 1.3     |
| com.google.guava                    | guava                           | 17.0    |
| com.google.inject                   | guice                           | 3.0     |
| com.google.protobuf                 | protobuf-java                   | 2.6.1   |
| com.googlecode.json-simple          | json-simple                     | 1.1.1   |
| com.googlecode.protobuf-java-format | protobuf-java-format            | 1.4     |

| Group                  | Artifact               | Version       |
|------------------------|------------------------|---------------|
| com.h2database         | h2                     | 1.4.192       |
| com.hazelcast          | hazelcast              | 3.6.5         |
| com.hazelcast          | hazelcast-hibernate4   | 3.6.5         |
| com.hazelcast          | hazelcast-spring       | 3.6.5         |
| com.ibm.jbatch         | com.ibm.jbatch-tck-spi | 1.0           |
| com.ibm.websphere      | uow                    | 6.0.2.17      |
| com.jamonapi           | jamon                  | 2.81          |
| com.jayway.jsonpath    | json-path              | 2.2.0         |
| com.jayway.jsonpath    | json-path-assert       | 2.2.0         |
| com.jayway.restassured | rest-assured           | 2.9.0         |
| com.jcraft             | jsch                   | 0.1.54        |
| com.lowagie            | itext                  | 2.1.7         |
| com.mchange            | c3p0                   | 0.9.5.2       |
| com.querydsl           | querydsl-apt           | 4.1.4         |
| com.querydsl           | querydsl-collections   | 4.1.4         |
| com.querydsl           | querydsl-core          | 4.1.4         |
| com.querydsl           | querydsl-jpa           | 4.1.4         |
| com.querydsl           | querydsl-mongodb       | 4.1.4         |
| com.rabbitmq           | amqp-client            | 3.6.5         |
| com.rabbitmq           | http-client            | 1.0.0.RELEASE |
| com.rometools          | rome                   | 1.6.1         |
| com.rometools          | rome-fetcher           | 1.6.1         |
| com.samskivert         | jmustache              | 1.12          |
| com.sendgrid           | sendgrid-java          | 2.2.2         |
| com.splunk             | splunk                 | 1.3.0         |
| com.squareup.okhttp3   | okhttp                 | 3.3.1         |
| com.squareup.okhttp    | okhttp                 | 2.7.5         |
| com.sun.facelets       | jsf-facelets           | 1.1.14        |
| com.sun.faces          | jsf-api                | 2.2.13        |
| com.sun.faces          | jsf-impl               | 2.2.13        |

| Group                      | Artifact                  | Version |
|----------------------------|---------------------------|---------|
| com.sun.mail               | imap                      | 1.5.6   |
| com.sun.mail               | javax.mail                | 1.5.6   |
| com.sun.xml.messaging.saaj | saaj-impl                 | 1.3.25  |
| com.sun.xml.wss            | xws-security              | 3.0     |
| com.sun                    | ldapbp                    | 1.0     |
| com.thoughtworks.xstream   | xstream                   | 1.4.9   |
| com.timgroup               | java-statsd-client        | 3.1.0   |
| com.unboundid              | unboundid-ldapsdk         | 3.1.1   |
| com.yammer.metrics         | metrics-annotation        | 2.2.0   |
| com.yammer.metrics         | metrics-core              | 2.2.0   |
| com.zaxxer                 | HikariCP                  | 2.4.7   |
| com.zaxxer                 | HikariCP-java6            | 2.3.13  |
| commons-beanutils          | commons-beanutils         | 1.9.2   |
| commons-cli                | commons-cli               | 1.3.1   |
| commons-codec              | commons-codec             | 1.10    |
| commons-collections        | commons-collections       | 3.2.2   |
| commons-dbcp               | commons-dbcp              | 1.4     |
| commons-digester           | commons-digester          | 2.1     |
| commons-fileupload         | commons-fileupload        | 1.3.2   |
| commons-httpclient         | commons-httpclient        | 3.1     |
| commons-io                 | commons-io                | 2.5     |
| commons-lang               | commons-lang              | 2.6     |
| commons-logging            | commons-logging           | 1.2     |
| commons-net                | commons-net               | 3.5     |
| commons-pool               | commons-pool              | 1.6     |
| de.flapdoodle.embed        | de.flapdoodle.embed.mongo | 1.50.5  |
| dom4j                      | dom4j                     | 1.6.1   |
| io.dropwizard.metrics      | metrics-core              | 3.1.2   |
| io.dropwizard.metrics      | metrics-ganglia           | 3.1.2   |
| io.dropwizard.metrics      | metrics-graphite          | 3.1.2   |

| Group                       | Artifact                        | Version       |
|-----------------------------|---------------------------------|---------------|
| io.dropwizard.metrics       | metrics-servlets                | 3.1.2         |
| io.fastjson                 | boon                            | 0.33          |
| io.netty                    | netty-all                       | 4.0.41.Final  |
| io.projectreactor.spring    | reactor-spring-context          | 2.0.7.RELEASE |
| io.projectreactor.spring    | reactor-spring-core             | 2.0.7.RELEASE |
| io.projectreactor.spring    | reactor-spring-messaging        | 2.0.7.RELEASE |
| io.projectreactor.spring    | reactor-spring-webmvc           | 2.0.7.RELEASE |
| io.projectreactor           | reactor-bus                     | 2.0.8.RELEASE |
| io.projectreactor           | reactor-core                    | 2.0.8.RELEASE |
| io.projectreactor           | reactor-groovy                  | 2.0.8.RELEASE |
| io.projectreactor           | reactor-groovy-extensions       | 2.0.8.RELEASE |
| io.projectreactor           | reactor-logback                 | 2.0.8.RELEASE |
| io.projectreactor           | reactor-net                     | 2.0.8.RELEASE |
| io.projectreactor           | reactor-stream                  | 2.0.8.RELEASE |
| io.searchbox                | jest                            | 2.0.3         |
| io.undertow                 | undertow-core                   | 1.3.25.Final  |
| io.undertow                 | undertow-servlet                | 1.3.25.Final  |
| io.undertow                 | undertow-websockets-jsr         | 1.3.25.Final  |
| javax.activation            | activation                      | 1.1.1         |
| javax.annotation            | jsr250-api                      | 1.0           |
| javax.batch                 | javax.batch-api                 | 1.0.1         |
| javax.cache                 | cache-api                       | 1.0.0         |
| javax.ejb                   | javax.ejb-api                   | 3.2           |
| javax.el                    | javax.el-api                    | 2.2.5         |
| javax.enterprise.concurrent | javax.enterprise.concurrent-api | 1.0           |
| javax.enterprise            | cdi-api                         | 1.2           |
| javax.faces                 | javax.faces-api                 | 2.2           |
| javax.inject                | javax.inject                    | 1             |
| javax.interceptor           | javax.interceptor-api           | 1.2           |
| javax.jdo                   | jdo-api                         | 3.0.1         |

| Group                     | Artifact                   | Version     |
|---------------------------|----------------------------|-------------|
| javax.jms                 | jms-api                    | 1.1-rev-1   |
| javax.mail                | javax.mail-api             | 1.5.6       |
| javax.money               | money-api                  | 1.0.1       |
| javax.portlet             | portlet-api                | 2.0         |
| javax.resource            | connector-api              | 1.5         |
| javax.servlet.jsp.jstl    | javax.servlet.jsp.jstl-api | 1.2.1       |
| javax.servlet.jsp         | javax.servlet.jsp-api      | 2.3.1       |
| javax.servlet             | javax.servlet-api          | 3.1.0       |
| javax.servlet             | jstl                       | 1.2         |
| javax.transaction         | javax.transaction-api      | 1.2         |
| javax.validation          | validation-api             | 1.1.0.Final |
| javax.websocket           | javax.websocket-api        | 1.1         |
| javax.ws.rs               | javax.ws.rs-api            | 2.0.1       |
| jaxen                     | jaxen                      | 1.1.6       |
| jline                     | jline                      | 2.14.2      |
| joda-time                 | joda-time                  | 2.9.4       |
| junit                     | junit                      | 4.12        |
| ldapsdk                   | ldapsdk                    | 4.1         |
| log4j                     | log4j                      | 1.2.17      |
| mysql                     | mysql-connector-java       | 5.1.39      |
| net.java.dev.jna          | jna                        | 4.2.2       |
| net.openhft               | chronicle                  | 3.4.4       |
| net.openhft               | lang                       | 6.6.16      |
| net.sf.ehcache            | ehcache                    | 2.10.2.2.21 |
| net.sf.jasperreports      | jasperreports              | 6.3.0       |
| net.sf.jopt-simple        | jopt-simple                | 5.0.2       |
| net.sourceforge.htmlunit  | htmlunit                   | 2.21        |
| net.sourceforge.jexcelapi | jxl                        | 2.6.12      |
| net.sourceforge.jtds      | jtds                       | 1.3.1       |
| net.sourceforge.nekohtml  | nekohtml                   | 1.9.22      |

| Group                   | Artifact                    | Version |
|-------------------------|-----------------------------|---------|
| nz.net.ultraq.thymeleaf | thymeleaf-layout-dialect    | 1.4.0   |
| opensymphony            | ognl                        | 2.6.11  |
| org.apache.activemq     | activemq-amqp               | 5.13.4  |
| org.apache.activemq     | activemq-blueprint          | 5.13.4  |
| org.apache.activemq     | activemq-broker             | 5.13.4  |
| org.apache.activemq     | activemq-camel              | 5.13.4  |
| org.apache.activemq     | activemq-client             | 5.13.4  |
| org.apache.activemq     | activemq-console            | 5.13.4  |
| org.apache.activemq     | activemq-http               | 5.13.4  |
| org.apache.activemq     | activemq-jaas               | 5.13.4  |
| org.apache.activemq     | activemq-jdbc-store         | 5.13.4  |
| org.apache.activemq     | activemq-jms-pool           | 5.13.4  |
| org.apache.activemq     | activemq-kahadb-store       | 5.13.4  |
| org.apache.activemq     | activemq-karaf              | 5.13.4  |
| org.apache.activemq     | activemq-leveldb-store      | 5.13.4  |
| org.apache.activemq     | activemq-log4j-appender     | 5.13.4  |
| org.apache.activemq     | activemq-mqtt               | 5.13.4  |
| org.apache.activemq     | activemq-openwire-generator | 5.13.4  |
| org.apache.activemq     | activemq-openwire-legacy    | 5.13.4  |
| org.apache.activemq     | activemq-osgi               | 5.13.4  |
| org.apache.activemq     | activemq-partition          | 5.13.4  |
| org.apache.activemq     | activemq-pool               | 5.13.4  |
| org.apache.activemq     | activemq-ra                 | 5.13.4  |
| org.apache.activemq     | activemq-run                | 5.13.4  |
| org.apache.activemq     | activemq-runtime-config     | 5.13.4  |
| org.apache.activemq     | activemq-shiro              | 5.13.4  |
| org.apache.activemq     | activemq-spring             | 5.13.4  |
| org.apache.activemq     | activemq-stomp              | 5.13.4  |
| org.apache.activemq     | activemq-web                | 5.13.4  |
| org.apache.activemq     | artemis-amqp-protocol       | 1.3.0   |



| Group                       | Artifact                   | Version   |
|-----------------------------|----------------------------|-----------|
| org.apache.activemq         | artemis-commons            | 1.3.0     |
| org.apache.activemq         | artemis-core-client        | 1.3.0     |
| org.apache.activemq         | artemis-jms-client         | 1.3.0     |
| org.apache.activemq         | artemis-jms-server         | 1.3.0     |
| org.apache.activemq         | artemis-journal            | 1.3.0     |
| org.apache.activemq         | artemis-native             | 1.3.0     |
| org.apache.activemq         | artemis-selector           | 1.3.0     |
| org.apache.activemq         | artemis-server             | 1.3.0     |
| org.apache.activemq         | artemis-service-extensions | 1.3.0     |
| org.apache.avro             | avro                       | 1.8.1     |
| org.apache.avro             | avro-compiler              | 1.8.1     |
| org.apache.commons          | commons-dbcp2              | 2.1.1     |
| org.apache.commons          | commons-lang3              | 3.4       |
| org.apache.commons          | commons-pool2              | 2.4.2     |
| org.apache.curator          | curator-recipes            | 2.11.0    |
| org.apache.derby            | derby                      | 10.12.1.1 |
| org.apache.derby            | derbyclient                | 10.12.1.1 |
| org.apache.directory.server | apacheds-core              | 1.5.5     |
| org.apache.directory.server | apacheds-core-entry        | 1.5.5     |
| org.apache.directory.server | apacheds-protocol-ldap     | 1.5.5     |
| org.apache.directory.server | apacheds-protocol-shared   | 1.5.5     |
| org.apache.directory.server | apacheds-server-jndi       | 1.5.5     |
| org.apache.directory.shared | shared-ldap                | 0.9.15    |
| org.apache.httpcomponents   | httpasyncclient            | 4.1.2     |
| org.apache.httpcomponents   | httpclient                 | 4.5.2     |
| org.apache.httpcomponents   | httpcore                   | 4.4.5     |
| org.apache.httpcomponents   | httpmime                   | 4.5.2     |
| org.apache.ibatis           | ibatis-sqlmap              | 2.3.4.726 |
| org.apache.kafka            | kafka-clients              | 0.8.2.2   |
| org.apache.kafka            | kafka_2.10                 | 0.8.2.2   |

| Group                       | Artifact                 | Version |
|-----------------------------|--------------------------|---------|
| org.apache.logging.log4j    | log4j-api                | 2.6.2   |
| org.apache.logging.log4j    | log4j-core               | 2.6.2   |
| org.apache.logging.log4j    | log4j-slf4j-impl         | 2.6.2   |
| org.apache.myfaces.core     | myfaces-impl             | 2.2.11  |
| org.apache.openjpa          | openjpa                  | 2.4.1   |
| org.apache.openjpa          | openjpa-persistence-jdbc | 2.4.1   |
| org.apache.poi              | poi                      | 3.14    |
| org.apache.poi              | poi-ooxml                | 3.14    |
| org.apache.solr             | solr-core                | 5.5.3   |
| org.apache.solr             | solr-solrj               | 5.5.3   |
| org.apache.taglibs          | taglibs-standard-jstlel  | 1.2.5   |
| org.apache.tiles            | tiles-api                | 3.0.7   |
| org.apache.tiles            | tiles-core               | 3.0.7   |
| org.apache.tiles            | tiles-el                 | 3.0.7   |
| org.apache.tiles            | tiles-extras             | 3.0.7   |
| org.apache.tiles            | tiles-jsp                | 3.0.7   |
| org.apache.tiles            | tiles-request-api        | 1.0.6   |
| org.apache.tiles            | tiles-servlet            | 3.0.7   |
| org.apache.tomcat.embed     | tomcat-embed-core        | 8.5.5   |
| org.apache.tomcat.embed     | tomcat-embed-el          | 8.5.5   |
| org.apache.tomcat.embed     | tomcat-embed-jasper      | 8.5.5   |
| org.apache.tomcat.embed     | tomcat-embed-websocket   | 8.5.5   |
| org.apache.tomcat           | tomcat-catalina          | 8.5.5   |
| org.apache.tomcat           | tomcat-dbcp              | 8.5.5   |
| org.apache.tomcat           | tomcat-jdbc              | 8.5.5   |
| org.apache.tomcat           | tomcat-jsp-api           | 8.5.5   |
| org.apache.tomcat           | tomcat-websocket         | 8.5.5   |
| org.apache.velocity         | velocity                 | 1.7     |
| org.apache.velocity         | velocity-tools           | 2.0     |
| org.apache.ws.commons.axiom | axiom-api                | 1.2.19  |

| Group                       | Artifact                 | Version |
|-----------------------------|--------------------------|---------|
| org.apache.ws.commons.axiom | axiom-impl               | 1.2.19  |
| org.apache.ws.security      | wss4j                    | 1.6.19  |
| org.apache.ws.xmlschema     | xmlschema-core           | 2.2.1   |
| org.apache.wss4j            | wss4j-ws-security-common | 2.1.6   |
| org.apache.wss4j            | wss4j-ws-security-dom    | 2.1.6   |
| org.apache.xmlbeans         | xmlbeans                 | 2.6.0   |
| org.aspectj                 | aspectjrt                | 1.8.9   |
| org.aspectj                 | aspectjtools             | 1.8.9   |
| org.aspectj                 | aspectjweaver            | 1.8.9   |
| org.assertj                 | assertj-core             | 2.5.0   |
| org.atteo                   | evo-inflector            | 1.2.1   |
| org.beanshell               | bsh                      | 2.0b4   |
| org.bouncycastle            | bcpkix-jdk15on           | 1.54    |
| org.codehaus.btm            | btm                      | 2.1.4   |
| org.codehaus.castor         | castor-xml               | 1.4.1   |
| org.codehaus.fabric3.api    | commonj                  | 1.1.1   |
| org.codehaus.groovy         | groovy                   | 2.4.7   |
| org.codehaus.groovy         | groovy-all               | 2.4.7   |
| org.codehaus.groovy         | groovy-ant               | 2.4.7   |
| org.codehaus.groovy         | groovy-bsf               | 2.4.7   |
| org.codehaus.groovy         | groovy-console           | 2.4.7   |
| org.codehaus.groovy         | groovy-docgenerator      | 2.4.7   |
| org.codehaus.groovy         | groovy-groovydoc         | 2.4.7   |
| org.codehaus.groovy         | groovy-groovysh          | 2.4.7   |
| org.codehaus.groovy         | groovy-jmx               | 2.4.7   |
| org.codehaus.groovy         | groovy-json              | 2.4.7   |
| org.codehaus.groovy         | groovy-jsr223            | 2.4.7   |
| org.codehaus.groovy         | groovy-nio               | 2.4.7   |
| org.codehaus.groovy         | groovy-servlet           | 2.4.7   |
| org.codehaus.groovy         | groovy-sql               | 2.4.7   |

| Group                       | Artifact                    | Version             |
|-----------------------------|-----------------------------|---------------------|
| org.codehaus.groovy         | groovy-swing                | 2.4.7               |
| org.codehaus.groovy         | groovy-templates            | 2.4.7               |
| org.codehaus.groovy         | groovy-test                 | 2.4.7               |
| org.codehaus.groovy         | groovy-testng               | 2.4.7               |
| org.codehaus.groovy         | groovy-xml                  | 2.4.7               |
| org.codehaus.jackson        | jackson-core-asl            | 1.9.13              |
| org.codehaus.jackson        | jackson-mapper-asl          | 1.9.13              |
| org.codehaus.janino         | janino                      | 2.7.8               |
| org.codehaus.jettison       | jettison                    | 1.2                 |
| org.codehaus.woodstox       | woodstox-core-asl           | 4.4.1               |
| org.crashub                 | crash.cli                   | 1.3.2               |
| org.crashub                 | crash.connectors.ssh        | 1.3.2               |
| org.crashub                 | crash.connectors.telnet     | 1.3.2               |
| org.crashub                 | crash.embed.spring          | 1.3.2               |
| org.crashub                 | crash.plugins.cron          | 1.3.2               |
| org.crashub                 | crash.plugins.mail          | 1.3.2               |
| org.crashub                 | crash.shell                 | 1.3.2               |
| org.eclipse.jetty.orbit     | javax.servlet.jsp           | 2.2.0.v201112011158 |
| org.eclipse.jetty.websocket | javax-websocket-server-impl | 9.3.11.v20160721    |
| org.eclipse.jetty.websocket | websocket-client            | 9.3.11.v20160721    |
| org.eclipse.jetty.websocket | websocket-server            | 9.3.11.v20160721    |
| org.eclipse.jetty           | apache-jsp                  | 9.3.11.v20160721    |
| org.eclipse.jetty           | apache-jstl                 | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-annotations           | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-client                | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-continuation          | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-deploy                | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-http                  | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-io                    | 9.3.11.v20160721    |
| org.eclipse.jetty           | jetty-jmx                   | 9.3.11.v20160721    |

| Group                           | Artifact                       | Version           |
|---------------------------------|--------------------------------|-------------------|
| org.eclipse.jetty               | jetty-plus                     | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-security                 | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-server                   | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-servlet                  | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-servlets                 | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-util                     | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-webapp                   | 9.3.11.v20160721  |
| org.eclipse.jetty               | jetty-xml                      | 9.3.11.v20160721  |
| org.eclipse.paho                | org.eclipse.paho.client.mqttv3 | 1.1.0             |
| org.eclipse.persistence         | javax.persistence              | 2.1.1             |
| org.eclipse.persistence         | org.eclipse.persistence.core   | 2.6.4             |
| org.eclipse.persistence         | org.eclipse.persistence.jpa    | 2.6.4             |
| org.ehcache                     | ehcache                        | 3.1.2             |
| org.ehcache                     | ehcache-clustered              | 3.1.2             |
| org.ehcache                     | ehcache-transactions           | 3.1.2             |
| org.elasticsearch               | elasticsearch                  | 2.4.0             |
| org.firebirdsql.jdbc            | jaybird-jdk16                  | 2.2.11            |
| org.firebirdsql.jdbc            | jaybird-jdk17                  | 2.2.11            |
| org.firebirdsql.jdbc            | jaybird-jdk18                  | 2.2.11            |
| org.flywaydb                    | flyway-core                    | 3.2.1             |
| org.freemarker                  | freemarker                     | 2.3.25-incubating |
| org.glassfish.jersey.containers | jersey-container-servlet       | 2.23.2            |
| org.glassfish.jersey.containers | jersey-container-servlet-core  | 2.23.2            |
| org.glassfish.jersey.core       | jersey-server                  | 2.23.2            |
| org.glassfish.jersey.ext        | jersey-bean-validation         | 2.23.2            |
| org.glassfish.jersey.ext        | jersey-spring3                 | 2.23.2            |
| org.glassfish.jersey.media      | jersey-media-json-jackson      | 2.23.2            |
| org.glassfish.tyrus             | tyrus-container-servlet        | 1.3.5             |
| org.glassfish.tyrus             | tyrus-core                     | 1.3.5             |
| org.glassfish.tyrus             | tyrus-server                   | 1.3.5             |

| Group                    | Artifact                                 | Version      |
|--------------------------|------------------------------------------|--------------|
| org.glassfish.tyrus      | tyrus-spi                                | 1.3.5        |
| org.glassfish            | javax.el                                 | 3.0.0        |
| org.hamcrest             | hamcrest-all                             | 1.3          |
| org.hamcrest             | hamcrest-core                            | 1.3          |
| org.hamcrest             | hamcrest-library                         | 1.3          |
| org.hibernate            | hibernate-core                           | 5.0.11.Final |
| org.hibernate            | hibernate-ehcache                        | 5.0.11.Final |
| org.hibernate            | hibernate-entitymanager                  | 5.0.11.Final |
| org.hibernate            | hibernate-envers                         | 5.0.11.Final |
| org.hibernate            | hibernate-java8                          | 5.0.11.Final |
| org.hibernate            | hibernate-jpamodelgen                    | 5.0.11.Final |
| org.hibernate            | hibernate-validator                      | 5.2.4.Final  |
| org.hibernate            | hibernate-validator-annotation-processor | 5.2.4.Final  |
| org.hornetq              | hornetq-jms-client                       | 2.4.7.Final  |
| org.hornetq              | hornetq-jms-server                       | 2.4.7.Final  |
| org.hsqldb               | hsqldb                                   | 2.3.3        |
| org.igniterealtime.smack | smack-extensions                         | 4.1.8        |
| org.igniterealtime.smack | smack-java7                              | 4.1.8        |
| org.igniterealtime.smack | smack-resolver-javax                     | 4.1.8        |
| org.igniterealtime.smack | smack-tcp                                | 4.1.8        |
| org.infinispan           | infinispan-jcache                        | 8.2.4.Final  |
| org.infinispan           | infinispan-spring4-common                | 8.2.4.Final  |
| org.infinispan           | infinispan-spring4-embedded              | 8.2.4.Final  |
| org.jasig.cas.client     | cas-client-core                          | 3.4.1        |
| org.javassist            | javassist                                | 3.20.0-GA    |
| org.jboss.logging        | jboss-logging                            | 3.3.0.Final  |
| org.jboss.narayana.jta   | jdbc                                     | 5.3.4.Final  |
| org.jboss.narayana.jta   | jms                                      | 5.3.4.Final  |
| org.jboss.narayana.jta   | jta                                      | 5.3.4.Final  |
| org.jboss.narayana.jts   | narayana-jts-integration                 | 5.3.4.Final  |

| Group                   | Artifact               | Version       |
|-------------------------|------------------------|---------------|
| org.jboss               | jboss-transaction-spi  | 7.3.4.Final   |
| org.jdom                | jdom2                  | 2.0.6         |
| org.jibx                | jibx-run               | 1.2.6         |
| org.jolokia             | jolokia-core           | 1.3.4         |
| org.jooq                | jooq                   | 3.8.4         |
| org.jooq                | jooq-codegen           | 3.8.4         |
| org.jooq                | jooq-meta              | 3.8.4         |
| org.jredis              | jredis-core-api        | 06052013      |
| org.jredis              | jredis-core-ri         | 06052013      |
| org.jruby               | jruby                  | 1.7.26        |
| org.json                | json                   | 20140107      |
| org.liquibase           | liquibase-core         | 3.5.1         |
| org.mariadb.jdbc        | mariadb-java-client    | 1.4.6         |
| org.mockito             | mockito-core           | 1.10.19       |
| org.mongodb             | mongo-java-driver      | 3.2.2         |
| org.mongodb             | mongodb-driver         | 3.2.2         |
| org.mortbay.jasper      | apache-el              | 8.0.33        |
| org.neo4j               | neo4j-ogm-api          | 2.0.5         |
| org.neo4j               | neo4j-ogm-compiler     | 2.0.5         |
| org.neo4j               | neo4j-ogm-core         | 2.0.5         |
| org.neo4j               | neo4j-ogm-http-driver  | 2.0.5         |
| org.objenesis           | objenesis              | 2.4           |
| org.openid4java         | openid4java-nodeps     | 0.9.6         |
| org.postgresql          | postgresql             | 9.4.1211.jre7 |
| org.projectlombok       | lombok                 | 1.16.10       |
| org.quartz-scheduler    | quartz                 | 2.2.3         |
| org.reactivestreams     | reactive-streams       | 1.0.0         |
| org.seleniumhq.selenium | htmlunit-driver        | 2.21          |
| org.seleniumhq.selenium | selenium-api           | 2.53.1        |
| org.seleniumhq.selenium | selenium-chrome-driver | 2.53.1        |

| Group                     | Artifact                            | Version        |
|---------------------------|-------------------------------------|----------------|
| org.seleniumhq.selenium   | selenium-firefox-driver             | 2.53.1         |
| org.seleniumhq.selenium   | selenium-ie-driver                  | 2.53.1         |
| org.seleniumhq.selenium   | selenium-java                       | 2.53.1         |
| org.seleniumhq.selenium   | selenium-remote-driver              | 2.53.1         |
| org.seleniumhq.selenium   | selenium-safari-driver              | 2.53.1         |
| org.seleniumhq.selenium   | selenium-support                    | 2.53.1         |
| org.skyscreamer           | jsonassert                          | 1.3.0          |
| org.slf4j                 | jcl-over-slf4j                      | 1.7.21         |
| org.slf4j                 | jul-to-slf4j                        | 1.7.21         |
| org.slf4j                 | log4j-over-slf4j                    | 1.7.21         |
| org.slf4j                 | slf4j-api                           | 1.7.21         |
| org.slf4j                 | slf4j-jdk14                         | 1.7.21         |
| org.slf4j                 | slf4j-log4j12                       | 1.7.21         |
| org.slf4j                 | slf4j-simple                        | 1.7.21         |
| org.spockframework        | spock-core                          | 1.0-groovy-2.4 |
| org.spockframework        | spock-spring                        | 1.0-groovy-2.4 |
| org.springframework.amqp  | spring-amqp                         | 1.6.2.RELEASE  |
| org.springframework.amqp  | spring-rabbit                       | 1.6.2.RELEASE  |
| org.springframework.batch | spring-batch-core                   | 3.0.7.RELEASE  |
| org.springframework.batch | spring-batch-infrastructure         | 3.0.7.RELEASE  |
| org.springframework.batch | spring-batch-integration            | 3.0.7.RELEASE  |
| org.springframework.batch | spring-batch-test                   | 3.0.7.RELEASE  |
| org.springframework.boot  | spring-boot                         | 1.4.1.RELEASE  |
| org.springframework.boot  | spring-boot-actuator                | 1.4.1.RELEASE  |
| org.springframework.boot  | spring-boot-actuator-docs           | 1.4.1.RELEASE  |
| org.springframework.boot  | spring-boot-autoconfigure           | 1.4.1.RELEASE  |
| org.springframework.boot  | spring-boot-configuration-metadata  | 1.4.1.RELEASE  |
| org.springframework.boot  | spring-boot-configuration-processor | 1.4.1.RELEASE  |
| org.springframework.boot  | spring-boot-devtools                | 1.4.1.RELEASE  |



| Group                    | Artifact                               | Version       |
|--------------------------|----------------------------------------|---------------|
| org.springframework.boot | spring-boot-loader                     | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-loader-tools               | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter                    | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-activemq           | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-actuator           | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-amqp               | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-aop                | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-artemis            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-batch              | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-cache              | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-cloud-connectors   | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-cassandra     | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-couchbase     | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-elasticsearch | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-gemfire       | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-jpa           | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-mongodb       | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-neo4j         | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-redis         | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-rest          | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-data-solr          | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-freemarker         | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-groovy-templates   | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-hateoas            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-hornetq            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-integration        | 1.4.1.RELEASE |

| Group                    | Artifact                            | Version       |
|--------------------------|-------------------------------------|---------------|
| org.springframework.boot | spring-boot-starter-jdbc            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-jersey          | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-jetty           | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-jooq            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-jta-atomikos    | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-jta-bitronix    | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-jta-narayana    | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-log4j2          | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-logging         | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-mail            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-mobile          | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-mustache        | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-redis           | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-remote-shell    | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-security        | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-social-facebook | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-social-linkedin | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-social-twitter  | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-test            | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-thymeleaf       | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-tomcat          | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-undertow        | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-validation      | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-velocity        | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-web             | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-web-services    | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-websocket       | 1.4.1.RELEASE |
| org.springframework.boot | spring-boot-starter-ws              | 1.4.1.RELEASE |

| Group                           | Artifact                              | Version        |
|---------------------------------|---------------------------------------|----------------|
| org.springframework.boot        | spring-boot-test                      | 1.4.1.RELEASE  |
| org.springframework.boot        | spring-boot-test-autoconfigure        | 1.4.1.RELEASE  |
| org.springframework.cloud       | spring-cloud-cloudfoundry-connector   | 1.2.3.RELEASE  |
| org.springframework.cloud       | spring-cloud-core                     | 1.2.3.RELEASE  |
| org.springframework.cloud       | spring-cloud-heroku-connector         | 1.2.3.RELEASE  |
| org.springframework.cloud       | spring-cloud-localconfig-connector    | 1.2.3.RELEASE  |
| org.springframework.cloud       | spring-cloud-spring-service-connector | 1.2.3.RELEASE  |
| org.springframework.data        | spring-cql                            | 1.4.3.RELEASE  |
| org.springframework.data        | spring-data-cassandra                 | 1.4.3.RELEASE  |
| org.springframework.data        | spring-data-commons                   | 1.12.3.RELEASE |
| org.springframework.data        | spring-data-couchbase                 | 2.1.3.RELEASE  |
| org.springframework.data        | spring-data-elasticsearch             | 2.0.3.RELEASE  |
| org.springframework.data        | spring-data-envers                    | 1.0.3.RELEASE  |
| org.springframework.data        | spring-data-gemfire                   | 1.8.3.RELEASE  |
| org.springframework.data        | spring-data-jpa                       | 1.10.3.RELEASE |
| org.springframework.data        | spring-data-keyvalue                  | 1.1.3.RELEASE  |
| org.springframework.data        | spring-data-mongodb                   | 1.9.3.RELEASE  |
| org.springframework.data        | spring-data-mongodb-cross-store       | 1.9.3.RELEASE  |
| org.springframework.data        | spring-data-mongodb-log4j             | 1.9.3.RELEASE  |
| org.springframework.data        | spring-data-neo4j                     | 4.1.3.RELEASE  |
| org.springframework.data        | spring-data-redis                     | 1.7.3.RELEASE  |
| org.springframework.data        | spring-data-rest-core                 | 2.5.3.RELEASE  |
| org.springframework.data        | spring-data-rest-hal-browser          | 2.5.3.RELEASE  |
| org.springframework.data        | spring-data-rest-webmvc               | 2.5.3.RELEASE  |
| org.springframework.data        | spring-data-solr                      | 2.0.3.RELEASE  |
| org.springframework.hateoas     | spring-hateoas                        | 0.20.0.RELEASE |
| org.springframework.integration | spring-integration-amqp               | 4.3.2.RELEASE  |
| org.springframework.integration | spring-integration-core               | 4.3.2.RELEASE  |

| Group                           | Artifact                     | Version       |
|---------------------------------|------------------------------|---------------|
| org.springframework.integration | spring-integration-event     | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-feed      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-file      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-flow      | 1.0.0.RELEASE |
| org.springframework.integration | spring-integration-ftp       | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-gemfire   | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-groovy    | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-http      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-ip        | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-java-dsl  | 1.1.3.RELEASE |
| org.springframework.integration | spring-integration-jdbc      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-jms       | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-jmx       | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-jpa       | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-kafka     | 1.3.1.RELEASE |
| org.springframework.integration | spring-integration-mail      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-mongodb   | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-mqtt      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-redis     | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-rmi       | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-scripting | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-security  | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-sftp      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-splunk    | 1.1.0.RELEASE |
| org.springframework.integration | spring-integration-stomp     | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-stream    | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-syslog    | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-test      | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-twitter   | 4.3.2.RELEASE |
| org.springframework.integration | spring-integration-websocket | 4.3.2.RELEASE |

| Group                              | Artifact                     | Version        |
|------------------------------------|------------------------------|----------------|
| org.springframework.integration    | spring-integration-ws        | 4.3.2.RELEASE  |
| org.springframework.integration    | spring-integration-xml       | 4.3.2.RELEASE  |
| org.springframework.integration    | spring-integration-xmpp      | 4.3.2.RELEASE  |
| org.springframework.integration    | spring-integration-zookeeper | 4.3.2.RELEASE  |
| org.springframework.ldap           | spring-ldap-core             | 2.1.0.RELEASE  |
| org.springframework.ldap           | spring-ldap-core-tiger       | 2.1.0.RELEASE  |
| org.springframework.ldap           | spring-ldap-ldif-batch       | 2.1.0.RELEASE  |
| org.springframework.ldap           | spring-ldap-ldif-core        | 2.1.0.RELEASE  |
| org.springframework.ldap           | spring-ldap-odm              | 2.1.0.RELEASE  |
| org.springframework.ldap           | spring-ldap-test             | 2.1.0.RELEASE  |
| org.springframework.mobile         | spring-mobile-device         | 1.1.5.RELEASE  |
| org.springframework.plugin         | spring-plugin-core           | 1.2.0.RELEASE  |
| org.springframework.plugin         | spring-plugin-metadata       | 1.2.0.RELEASE  |
| org.springframework.restdocs       | spring-restdocs-core         | 1.1.2.RELEASE  |
| org.springframework.restdocs       | spring-restdocs-mockmvc      | 1.1.2.RELEASE  |
| org.springframework.restdocs       | spring-restdocs-restassured  | 1.1.2.RELEASE  |
| org.springframework.retry          | spring-retry                 | 1.1.4.RELEASE  |
| org.springframework.security.oauth | spring-security-oauth        | 2.0.11.RELEASE |
| org.springframework.security.oauth | spring-security-oauth2       | 2.0.11.RELEASE |
| org.springframework.security       | spring-security-acl          | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-aspects      | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-cas          | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-config       | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-core         | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-crypto       | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-data         | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-jwt          | 1.0.5.RELEASE  |
| org.springframework.security       | spring-security-ldap         | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-messaging    | 4.1.3.RELEASE  |
| org.springframework.security       | spring-security-openid       | 4.1.3.RELEASE  |

| Group                        | Artifact                    | Version       |
|------------------------------|-----------------------------|---------------|
| org.springframework.security | spring-security-remoting    | 4.1.3.RELEASE |
| org.springframework.security | spring-security-taglibs     | 4.1.3.RELEASE |
| org.springframework.security | spring-security-test        | 4.1.3.RELEASE |
| org.springframework.security | spring-security-web         | 4.1.3.RELEASE |
| org.springframework.session  | spring-session              | 1.2.2.RELEASE |
| org.springframework.session  | spring-session-data-gemfire | 1.2.2.RELEASE |
| org.springframework.session  | spring-session-data-mongo   | 1.2.2.RELEASE |
| org.springframework.session  | spring-session-data-redis   | 1.2.2.RELEASE |
| org.springframework.session  | spring-session-jdbc         | 1.2.2.RELEASE |
| org.springframework.social   | spring-social-config        | 1.1.4.RELEASE |
| org.springframework.social   | spring-social-core          | 1.1.4.RELEASE |
| org.springframework.social   | spring-social-facebook      | 2.0.3.RELEASE |
| org.springframework.social   | spring-social-facebook-web  | 2.0.3.RELEASE |
| org.springframework.social   | spring-social-linkedin      | 1.0.2.RELEASE |
| org.springframework.social   | spring-social-security      | 1.1.4.RELEASE |
| org.springframework.social   | spring-social-twitter       | 1.1.2.RELEASE |
| org.springframework.social   | spring-social-web           | 1.1.4.RELEASE |
| org.springframework.webflow  | spring-binding              | 2.4.4.RELEASE |
| org.springframework.webflow  | spring-faces                | 2.4.4.RELEASE |
| org.springframework.webflow  | spring-js                   | 2.4.4.RELEASE |
| org.springframework.webflow  | spring-js-resources         | 2.4.4.RELEASE |
| org.springframework.webflow  | spring-webflow              | 2.4.4.RELEASE |
| org.springframework.ws       | spring-ws-core              | 2.3.0.RELEASE |
| org.springframework.ws       | spring-ws-security          | 2.3.0.RELEASE |
| org.springframework.ws       | spring-ws-support           | 2.3.0.RELEASE |
| org.springframework.ws       | spring-ws-test              | 2.3.0.RELEASE |
| org.springframework.ws       | spring-xml                  | 2.3.0.RELEASE |
| org.springframework          | spring-aop                  | 4.3.3.RELEASE |
| org.springframework          | spring-aspects              | 4.3.3.RELEASE |
| org.springframework          | spring-beans                | 4.3.3.RELEASE |

| Group                | Artifact                             | Version       |
|----------------------|--------------------------------------|---------------|
| org.springframework  | spring-context                       | 4.3.3.RELEASE |
| org.springframework  | spring-context-support               | 4.3.3.RELEASE |
| org.springframework  | spring-core                          | 4.3.3.RELEASE |
| org.springframework  | spring-expression                    | 4.3.3.RELEASE |
| org.springframework  | spring-instrument                    | 4.3.3.RELEASE |
| org.springframework  | spring-instrument-tomcat             | 4.3.3.RELEASE |
| org.springframework  | spring-jdbc                          | 4.3.3.RELEASE |
| org.springframework  | spring-jms                           | 4.3.3.RELEASE |
| org.springframework  | spring-messaging                     | 4.3.3.RELEASE |
| org.springframework  | spring-orm                           | 4.3.3.RELEASE |
| org.springframework  | spring-oxm                           | 4.3.3.RELEASE |
| org.springframework  | spring-test                          | 4.3.3.RELEASE |
| org.springframework  | spring-tx                            | 4.3.3.RELEASE |
| org.springframework  | spring-web                           | 4.3.3.RELEASE |
| org.springframework  | spring-webmvc                        | 4.3.3.RELEASE |
| org.springframework  | spring-webmvc-portlet                | 4.3.3.RELEASE |
| org.springframework  | spring-websocket                     | 4.3.3.RELEASE |
| org.springframework  | springloaded                         | 1.2.6.RELEASE |
| org.testng           | testng                               | 6.9.10        |
| org.threeten         | threetenbp                           | 1.3.2         |
| org.thymeleaf.extras | thymeleaf-extras-conditionalcomments | 2.1.2.RELEASE |
| org.thymeleaf.extras | thymeleaf-extras-java8time           | 2.1.0.RELEASE |
| org.thymeleaf.extras | thymeleaf-extras-springsecurity4     | 2.1.2.RELEASE |
| org.thymeleaf        | thymeleaf                            | 2.1.5.RELEASE |
| org.thymeleaf        | thymeleaf-spring4                    | 2.1.5.RELEASE |
| org.webjars          | hal-browser                          | 9f96c74       |
| org.webjars          | json-editor                          | 0.7.21        |
| org.webjars          | webjars-locator                      | 0.32          |
| org.xerial.snappy    | snappy-java                          | 1.1.2.6       |

| Group          | Artifact            | Version  |
|----------------|---------------------|----------|
| org.xerial     | sqlite-jdbc         | 3.8.11.2 |
| org.yaml       | snakeyaml           | 1.17     |
| org.zeromq     | jeromq              | 0.3.4    |
| redis.clients  | jedis               | 2.8.1    |
| velocity-tools | velocity-tools-view | 1.4      |
| wsdl4j         | wsdl4j              | 1.6.3    |
| xml-apis       | xml-apis            | 1.4.01   |
| xmlunit        | xmlunit             | 1.6      |
| xom            | xom                 | 1.2.5    |