

Spring IO Platform Reference Guide

1.1.5.RELEASE

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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 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](#).

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>1.1.5.RELEASE</version>
        <type>pom</type>
        <scope>import</scope>
      </dependency>
    </dependencies>
  </dependencyManagement>

  ...

</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>1.1.5.RELEASE</version>
    <relativePath/>
  </parent>

  ...

</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:0.5.3.RELEASE'
  }
}

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

repositories {
  mavenCentral()
}

dependencyManagement {
```

```
imports {  
    mavenBom 'io.spring.platform:platform-bom:1.1.5.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. Deprecation

A number of the Platform's components have been deprecated and will be removed in a future release. New applications should not use the deprecated components and, to ensure a smooth migration path to future releases of the Platform, existing applications should be updated.

6.1 platform-versions artifact

As of Spring IO Platform 1.1, the `platform-versions` properties artifact is deprecated. Maven users are unaffected by this change. If, however, you're using the Platform with Gradle, then you should start using the dependency management plugin and the Platform's bom instead. See [Section 4.2, "Using Spring IO Platform with Gradle"](#) for more information.

6.2 Codahale metrics

As of Spring IO Platform 1.1, dependency management for four Codahale metrics dependencies is deprecated. Those dependencies are:

- `com.codahale.metrics:metrics-core`
- `com.codahale.metrics:metrics-ganglia`
- `com.codahale.metrics:metrics-graphite`
- `com.codahale.metrics:metrics-servlets`

The preferred replacements are:

- `io.dropwizard.metrics:metrics-core`
- `io.dropwizard.metrics:metrics-ganglia`
- `io.dropwizard.metrics:metrics-graphite`
- `io.dropwizard.metrics:metrics-servlets`

6.3 net.java.dev.rome:rome

As of Spring IO Platform 1.1, the dependency management for `net.java.dev.rome:rome` is deprecated with `com.rometools:rome` being its preferred replacement.

6.4 net.java.dev.rome:rome-fetcher

As of Spring IO Platform 1.1, the dependency management for `net.java.dev.rome:rome-fetcher` is deprecated with `com.rometools:rome-fetcher` being its preferred replacement.

6.5 net.sf.ehcache:ehcache-core

As of Spring IO Platform 1.1, the dependency management for `net.sf.ehcache:ehcache-core` is deprecated with `net.sf.ehcache:ehcache` being its preferred replacement.

6.6 org.apache.cassandra:cassandra-all

As of Spring IO Platform 1.1, the dependency management for `org.apache.cassandra:cassandra-all` is deprecated.

6.7 org.apache.directory.server:apacheds-all

As of Spring IO Platform 1.1, the dependency management for `org.apache.directory.server:apacheds-all` is deprecated. Dependencies on the more finely grained `org.apache.directory.server` modules should be used instead.

6.8 org.apache.tomcat:tomcat7-websocket

As of Spring IO Platform 1.1, the dependency management for `org.apache.tomcat:tomcat7-websocket` is deprecated. Spring IO Platform 2.0 will move to Tomcat 8 at which time the `org.apache.tomcat:tomcat-websocket` dependency should be used instead.

6.9 org.eclipse.paho:mqtt-client

As of Spring IO Platform 1.1, the dependency management for `org.eclipse.paho:mqtt-client` is deprecated with `org.eclipse.paho:org.eclipse.paho.client.mqttv3` being its preferred replacement.

6.10 org.glassfish.tyrus:tyrus-websocket-core

Spring IO Platform 1.1 upgraded to Tyrus 1.3.5 (from 1.2.1) where the `tyrus-websocket-core` module no longer exists. Dependency management for `org.glassfish.tyrus:tyrus-websocket-core` remains at version 1.2.1 but it is deprecated and applications should be updated to use the repackaged 1.3.5 modules instead.

6.11 org.hibernate.javax.persistence:hibernate-jpa-2.0-api

As of Spring IO Platform 1.1, the dependency management for `org.hibernate.javax.persistence:hibernate-jpa-2.0-api` is deprecated due to the use of a version number in its artifact ID. `org.eclipse.persistence:javax.persistence` is its preferred replacement.

6.12 org.neo4j:neo4j-graph-collections

As of Spring IO Platform 1.1., the dependency management for `org.neo4j:neo4j-graph-collections` is deprecated.

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 using 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.

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
bsf	bsf	2.4.0
ch.qos.logback	logback-classic	1.1.3
com.atomikos	transactions-jdbc	3.9.3
com.atomikos	transactions-jms	3.9.3
com.atomikos	transactions-jta	3.9.3
com.beust	jcommander	1.35
com.caucho	hessian	4.0.38
com.codahale.metrics	metrics-core	3.0.2
com.codahale.metrics	metrics-ganglia	3.0.2
com.codahale.metrics	metrics-graphite	3.0.2
com.codahale.metrics	metrics-servlets	3.0.2
com.couchbase.client	couchbase-client	1.4.11
com.datastax.cassandra	cassandra-driver-dse	2.0.12
com.esotericsoftware.kryo	kryo	2.22
com.fasterxml.jackson.core	jackson-annotations	2.4.6
com.fasterxml.jackson.core	jackson-core	2.4.6
com.fasterxml.jackson.core	jackson-databind	2.4.6
com.fasterxml.jackson.dataformat	jackson-dataformat-xml	2.4.6
com.fasterxml.jackson.dataformat	jackson-dataformat-yaml	2.4.6
com.fasterxml.jackson.datatype	jackson-datatype-hibernate4	2.4.6
com.fasterxml.jackson.datatype	jackson-datatype-jdk8	2.4.6
com.fasterxml.jackson.datatype	jackson-datatype-joda	2.4.6
com.fasterxml.jackson.datatype	jackson-datatype-jsr310	2.4.6
com.gemstone.gemfire	gemfire	7.0.2

Group	Artifact	Version
com.github.fge	json-patch	1.7
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.code.findbugs	jsr305	2.0.3
com.google.code.gson	gson	2.3.1
com.google.code.typica	typica	1.3
com.google.guava	guava	17.0
com.google.inject	guice	3.0
com.google.protobuf	protobuf-java	2.5.0
com.googlecode.json-simple	json-simple	1.1.1
com.googlecode.protobuf-java-format	protobuf-java-format	1.2
com.h2database	h2	1.4.190
com.ibm.jbatch	com.ibm.jbatch-tck-spi	1.0
com.ibm.websphere	uow	6.0.2.17
com.jamonapi	jamon	2.4
com.jayway.jsonpath	json-path	0.9.1
com.jcraft	jsch	0.1.53
com.lambdaworks	lettuce	2.3.3
com.lmax	disruptor	3.2.1
com.lowagie	itext	2.1.7
com.mchange	c3p0	0.9.5.2
com.mysema.querydsl	querydsl-apt	3.4.3
com.mysema.querydsl	querydsl-core	3.4.3
com.mysema.querydsl	querydsl-jpa	3.4.3
com.mysema.querydsl	querydsl-lucene3	3.4.3
com.mysema.querydsl	querydsl-mongodb	3.4.3
com.rabbitmq	amqp-client	3.4.4
com.rometools	rome	1.5.1
com.rometools	rome-fetcher	1.5.1

Group	Artifact	Version
com.samskivert	jmustache	1.10
com.splunk	splunk	1.3.0
com.sun.facelets	jsf-facelets	1.1.14
com.sun.faces	jsf-api	2.2.12
com.sun.faces	jsf-impl	2.2.12
com.sun.mail	imap	1.5.4
com.sun.mail	javax.mail	1.5.4
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.qdox	qdox	1.12.1
com.thoughtworks.xstream	xstream	1.4.8
com.zaxxer	HikariCP	2.2.5
com.zaxxer	HikariCP-java6	2.2.5
commons-beanutils	commons-beanutils	1.9.2
commons-beanutils	commons-beanutils-core	1.8.3
commons-cli	commons-cli	1.2
commons-codec	commons-codec	1.10
commons-collections	commons-collections	3.2.2
commons-configuration	commons-configuration	1.6
commons-dbcp	commons-dbcp	1.4
commons-digester	commons-digester	2.1
commons-fileupload	commons-fileupload	1.3.1
commons-httpclient	commons-httpclient	3.1
commons-io	commons-io	2.4
commons-lang	commons-lang	2.6
commons-logging	commons-logging	1.2
commons-net	commons-net	3.3
commons-pool	commons-pool	1.6
dom4j	dom4j	1.6.1

Group	Artifact	Version
io.dropwizard.metrics	metrics-core	3.1.2
io.dropwizard.metrics	metrics-ganglia	3.1.2
io.dropwizard.metrics	metrics-graphite	3.1.2
io.dropwizard.metrics	metrics-servlets	3.1.2
io.fastjson	boon	0.23
io.gatling	jsr166e	1.0
io.netty	netty-all	4.0.33.Final
io.undertow	undertow-core	1.1.9.Final
io.undertow	undertow-servlet	1.1.9.Final
io.undertow	undertow-websockets-jsr	1.1.9.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	ejb-api	3.0
javax.el	javax.el-api	2.2.5
javax.enterprise.concurrent	javax.enterprise.concurrent-api	1.0
javax.enterprise	cdi-api	1.0-SP4
javax.faces	javax.faces-api	2.2
javax.inject	javax.inject	1
javax.jdo	jdo-api	3.0.1
javax.jms	jms-api	1.1-rev-1
javax.mail	javax.mail-api	1.5.4
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	2.2.1
javax.servlet	javax.servlet-api	3.0.1
javax.servlet	jstl	1.2
javax.transaction	javax.transaction-api	1.2

Group	Artifact	Version
javax.validation	validation-api	1.1.0.Final
javax.websocket	javax.websocket-api	1.0
javax.ws.rs	jsr311-api	1.0
javax.xml.soap	saaj-api	1.3.5
jaxen	jaxen	1.1.6
jline	jline	2.11
joda-time	joda-time	2.5
junit	junit	4.11
ldapsdk	ldapsdk	4.1
log4j	log4j	1.2.17
mysql	mysql-connector-java	5.1.38
net.java.dev.rome	rome	1.0.0
net.java.dev.rome	rome-fetcher	1.0.0
net.openhft	chronicle	2.0.3
net.openhft	lang	6.1.4
net.sf.ehcache	ehcache	2.8.6
net.sf.ehcache	ehcache-core	2.6.11
net.sf.jasperreports	jasperreports	5.5.2
net.sf.jopt-simple	jopt-simple	4.8
net.sourceforge.jexcelapi	jxl	2.6.12
net.sourceforge.nekohtml	nekohtml	1.9.22
nz.net.ultraq.thymeleaf	thymeleaf-layout-dialect	1.2.9
opensymphony	ognl	2.6.11
org.apache.activemq	activemq-broker	5.10.2
org.apache.activemq	activemq-client	5.10.2
org.apache.activemq	activemq-jms-pool	5.10.2
org.apache.activemq	activemq-pool	5.10.2
org.apache.ant	ant	1.9.6
org.apache.ant	ant-antlr	1.9.6
org.apache.ant	ant-junit	1.9.6

Group	Artifact	Version
org.apache.ant	ant-launcher	1.9.6
org.apache.cassandra	cassandra-all	2.0.17
org.apache.commons	commons-dbc2	2.0.1
org.apache.commons	commons-lang3	3.3.2
org.apache.commons	commons-pool2	2.2
org.apache.derby	derby	10.10.2.0
org.apache.derby	derbyclient	10.10.2.0
org.apache.directory.server	apacheds-all	1.5.5
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.hadoop	hadoop-common	2.2.0
org.apache.hadoop	hadoop-distcp	2.2.0
org.apache.hadoop	hadoop-hdfs	2.2.0
org.apache.hadoop	hadoop-mapreduce-client-app	2.2.0
org.apache.hadoop	hadoop-mapreduce-client-core	2.2.0
org.apache.hadoop	hadoop-mapreduce-client-hs	2.2.0
org.apache.hadoop	hadoop-mapreduce-client-jobclient	2.2.0
org.apache.hadoop	hadoop-streaming	2.2.0
org.apache.hadoop	hadoop-yarn-client	2.2.0
org.apache.hadoop	hadoop-yarn-common	2.2.0
org.apache.hadoop	hadoop-yarn-server-tests	2.2.0
org.apache.hbase	hbase	0.96.2-hadoop2
org.apache.hbase	hbase-client	0.96.2-hadoop2
org.apache.hbase	hbase-common	0.96.2-hadoop2
org.apache.hive	hive-service	0.12.0
org.apache.httpcomponents	httpasyncclient	4.0.2

Group	Artifact	Version
org.apache.httpcomponents	httpclient	4.3.6
org.apache.httpcomponents	httpclient-cache	4.3.6
org.apache.httpcomponents	httpmime	4.3.6
org.apache.ibatis	ibatis-sqlmap	2.3.4.726
org.apache.ivy	ivy	2.3.0
org.apache.logging.log4j	log4j-api	2.1
org.apache.logging.log4j	log4j-core	2.1
org.apache.logging.log4j	log4j-slf4j-impl	2.1
org.apache.myfaces.core	myfaces-impl	2.1.17
org.apache.openjpa	openjpa	2.3.0
org.apache.openjpa	openjpa-persistence-jdbc	2.3.0
org.apache.pig	pig	0.12.1
org.apache.poi	poi	3.10.1
org.apache.solr	solr-core	4.7.2
org.apache.solr	solr-solrj	4.7.2
org.apache.taglibs	taglibs-standard-jstlel	1.2.5
org.apache.tiles	tiles-api	3.0.5
org.apache.tiles	tiles-core	3.0.5
org.apache.tiles	tiles-el	3.0.5
org.apache.tiles	tiles-extras	3.0.5
org.apache.tiles	tiles-jsp	3.0.5
org.apache.tiles	tiles-request-api	1.0.6
org.apache.tiles	tiles-servlet	3.0.5
org.apache.tomcat.embed	tomcat-embed-core	7.0.67
org.apache.tomcat.embed	tomcat-embed-el	7.0.67
org.apache.tomcat.embed	tomcat-embed-jasper	7.0.67
org.apache.tomcat.embed	tomcat-embed-logging-juli	7.0.67
org.apache.tomcat.embed	tomcat-embed-websocket	7.0.67
org.apache.tomcat	tomcat-catalina	7.0.67
org.apache.tomcat	tomcat-dbcp	7.0.67

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org.apache.tomcat	tomcat-jdbc	7.0.67
org.apache.tomcat	tomcat-jsp-api	7.0.67
org.apache.tomcat	tomcat7-websocket	7.0.67
org.apache.velocity	velocity	1.7
org.apache.velocity	velocity-tools	2.0
org.apache.ws.commons.axiom	axiom-api	1.2.14
org.apache.ws.commons.axiom	axiom-impl	1.2.14
org.apache.ws.security	wss4j	1.6.19
org.apache.ws.xmlschema	xmlschema-core	2.1.0
org.apache.xmlbeans	xmlbeans	2.6.0
org.aspectj	aspectjrt	1.8.7
org.aspectj	aspectjtools	1.8.7
org.aspectj	aspectjweaver	1.8.7
org.atteo	evo-inflector	1.1
org.beanshell	bsh	2.0b4
org.bouncycastle	bcpkix-jdk15on	1.47
org.codehaus.btm	btm	2.1.4
org.codehaus.castor	castor-xml	1.3.3
org.codehaus.fabric3.api	commonj	1.1.1
org.codehaus.gpars	gpars	1.2.1
org.codehaus.groovy	groovy	2.4.4
org.codehaus.groovy	groovy-all	2.4.4
org.codehaus.groovy	groovy-ant	2.4.4
org.codehaus.groovy	groovy-bsf	2.4.4
org.codehaus.groovy	groovy-console	2.4.4
org.codehaus.groovy	groovy-docgenerator	2.4.4
org.codehaus.groovy	groovy-groovydoc	2.4.4
org.codehaus.groovy	groovy-groovysh	2.4.4
org.codehaus.groovy	groovy-jmx	2.4.4
org.codehaus.groovy	groovy-json	2.4.4

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org.codehaus.groovy	groovy-jsr223	2.4.4
org.codehaus.groovy	groovy-nio	2.4.4
org.codehaus.groovy	groovy-servlet	2.4.4
org.codehaus.groovy	groovy-sql	2.4.4
org.codehaus.groovy	groovy-swing	2.4.4
org.codehaus.groovy	groovy-templates	2.4.4
org.codehaus.groovy	groovy-test	2.4.4
org.codehaus.groovy	groovy-testng	2.4.4
org.codehaus.groovy	groovy-xml	2.4.4
org.codehaus.jackson	jackson-core-asl	1.9.13
org.codehaus.jackson	jackson-mapper-asl	1.9.13
org.codehaus.janino	janino	2.6.1
org.codehaus.jettison	jettison	1.2
org.codehaus.woodstox	woodstox-core-asl	4.2.1
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	jetty-annotations	8.1.18.v20150929
org.eclipse.jetty	jetty-continuation	8.1.18.v20150929
org.eclipse.jetty	jetty-deploy	8.1.18.v20150929
org.eclipse.jetty	jetty-http	8.1.18.v20150929
org.eclipse.jetty	jetty-io	8.1.18.v20150929
org.eclipse.jetty	jetty-jmx	8.1.18.v20150929
org.eclipse.jetty	jetty-jsp	8.1.18.v20150929
org.eclipse.jetty	jetty-plus	8.1.18.v20150929

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org.eclipse.jetty	jetty-security	8.1.18.v20150929
org.eclipse.jetty	jetty-server	8.1.18.v20150929
org.eclipse.jetty	jetty-servlet	8.1.18.v20150929
org.eclipse.jetty	jetty-servlets	8.1.18.v20150929
org.eclipse.jetty	jetty-util	8.1.18.v20150929
org.eclipse.jetty	jetty-webapp	8.1.18.v20150929
org.eclipse.jetty	jetty-xml	8.1.18.v20150929
org.eclipse.paho	mqtt-client	0.4.0
org.eclipse.paho	org.eclipse.paho.client.mqttv3	1.0.2
org.eclipse.persistence	javax.persistence	2.1.0
org.eclipse.persistence	org.eclipse.persistence.core	2.5.2
org.eclipse.persistence	org.eclipse.persistence.jpa	2.5.2
org.elasticsearch	elasticsearch	1.1.2
org.erlang.otp	jinterface	1.5.6
org.flywaydb	flyway-core	3.1
org.freemarker	freemarker	2.3.23
org.fusesource.jansi	jansi	1.11
org.glassfish.jersey.containers	jersey-container-servlet	2.14
org.glassfish.jersey.containers	jersey-container-servlet-core	2.14
org.glassfish.jersey.core	jersey-server	2.14
org.glassfish.jersey.ext	jersey-bean-validation	2.14
org.glassfish.jersey.ext	jersey-spring3	2.14
org.glassfish.jersey.media	jersey-media-json-jackson	2.14
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
org.glassfish.tyrus	tyrus-spi	1.3.5
org.glassfish.tyrus	tyrus-websocket-core	1.2.1
org.glassfish	javax.el	3.0.0
org.grails	grails-dependencies	2.4.5

Group	Artifact	Version
org.hamcrest	hamcrest-all	1.3
org.hamcrest	hamcrest-core	1.3
org.hamcrest	hamcrest-library	1.3
org.hibernate.javax.persistence	hibernate-jpa-2.0-api	1.0.1.Final
org.hibernate	hibernate-core	4.3.11.Final
org.hibernate	hibernate-ehcache	4.3.11.Final
org.hibernate	hibernate-entitymanager	4.3.11.Final
org.hibernate	hibernate-envers	4.3.11.Final
org.hibernate	hibernate-jpamodelgen	4.3.11.Final
org.hibernate	hibernate-validator	5.1.3.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	3.2.1
org.igniterealtime.smack	smack-extensions	4.0.7
org.igniterealtime.smack	smack-resolver-javax	4.0.7
org.igniterealtime.smack	smack-tcp	4.0.7
org.igniterealtime.smack	smackx	3.2.1
org.jasig.cas.client	cas-client-core	3.2.2
org.javassist	javassist	3.18.1-GA
org.jdom	jdom2	2.0.6
org.jibx	jibx-run	1.2.6
org.jolokia	jolokia-core	1.2.3
org.jredis	jredis-core-api	06052013
org.jredis	jredis-core-ri	06052013
org.jruby	jruby	1.7.23
org.kitesdk	kite-data-core	0.13.0
org.liquibase	liquibase-core	3.3.5
org.mockito	mockito-core	1.10.19
org.mongodb	mongo-java-driver	2.12.5

Group	Artifact	Version
org.neo4j	neo4j	2.0.5
org.neo4j	neo4j-cypher	2.0.5
org.neo4j	neo4j-cypher-dsl	2.0.1
org.neo4j	neo4j-graph-collections	0.7.1-neo4j-2.0.1
org.neo4j	neo4j-spatial	0.12-neo4j-2.0.1
org.neo4j	server-api	2.0.5
org.objenesis	objenesis	2.1
org.openid4java	openid4java-nodeps	0.9.6
org.projectlombok	lombok	1.14.8
org.projectreactor.spring	reactor-spring-context	1.1.3.RELEASE
org.projectreactor.spring	reactor-spring-core	1.1.3.RELEASE
org.projectreactor.spring	reactor-spring-messaging	1.1.3.RELEASE
org.projectreactor.spring	reactor-spring-webmvc	1.1.3.RELEASE
org.projectreactor	reactor-core	1.1.6.RELEASE
org.projectreactor	reactor-groovy	1.1.6.RELEASE
org.projectreactor	reactor-groovy-extensions	1.1.6.RELEASE
org.projectreactor	reactor-logback	1.1.6.RELEASE
org.projectreactor	reactor-net	1.1.6.RELEASE
org.quartz-scheduler	quartz	2.2.2
org.skyscreamer	jsonassert	1.2.3
org.slf4j	jcl-over-slf4j	1.7.13
org.slf4j	jul-to-slf4j	1.7.13
org.slf4j	log4j-over-slf4j	1.7.13
org.slf4j	slf4j-api	1.7.13
org.slf4j	slf4j-jdk14	1.7.13
org.slf4j	slf4j-log4j12	1.7.13
org.spockframework	spock-core	0.7-groovy-2.0
org.spockframework	spock-spring	0.7-groovy-2.0
org.springframework.amqp	spring-amqp	1.4.6.RELEASE
org.springframework.amqp	spring-erlang	1.4.6.RELEASE

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org.springframework.amqp	spring-rabbit	1.4.6.RELEASE
org.springframework.batch	spring-batch-core	3.0.6.RELEASE
org.springframework.batch	spring-batch-infrastructure	3.0.6.RELEASE
org.springframework.batch	spring-batch-integration	3.0.6.RELEASE
org.springframework.batch	spring-batch-test	3.0.6.RELEASE
org.springframework.boot	spring-boot	1.2.8.RELEASE
org.springframework.boot	spring-boot-actuator	1.2.8.RELEASE
org.springframework.boot	spring-boot-autoconfigure	1.2.8.RELEASE
org.springframework.boot	spring-boot-configuration-processor	1.2.8.RELEASE
org.springframework.boot	spring-boot-dependency-tools	1.2.8.RELEASE
org.springframework.boot	spring-boot-loader	1.2.8.RELEASE
org.springframework.boot	spring-boot-loader-tools	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-actuator	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-amqp	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-aop	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-batch	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-cloud-connectors	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-data-elasticsearch	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-data-gemfire	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-data-jpa	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-data-mongodb	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-data-rest	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-data-solr	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-freemarker	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-groovy-templates	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-hateoas	1.2.8.RELEASE

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org.springframework.boot	spring-boot-starter-hornetq	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-integration	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-jdbc	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-jersey	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-jetty	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-jta-atomikos	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-jta-bitronix	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-log4j	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-log4j2	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-logging	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-mail	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-mobile	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-mustache	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-redis	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-remote-shell	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-security	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-social-facebook	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-social-linkedin	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-social-twitter	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-test	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-thymeleaf	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-tomcat	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-undertow	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-velocity	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-web	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-websocket	1.2.8.RELEASE
org.springframework.boot	spring-boot-starter-ws	1.2.8.RELEASE
org.springframework.cloud	spring-cloud-cloudfoundry-connector	1.1.1.RELEASE

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org.springframework.cloud	spring-cloud-core	1.1.1.RELEASE
org.springframework.cloud	spring-cloud-heroku-connector	1.1.1.RELEASE
org.springframework.cloud	spring-cloud-localconfig-connector	1.1.1.RELEASE
org.springframework.cloud	spring-cloud-spring-service-connector	1.1.1.RELEASE
org.springframework.data	spring-cql	1.1.4.RELEASE
org.springframework.data	spring-data-cassandra	1.1.4.RELEASE
org.springframework.data	spring-data-commons	1.9.4.RELEASE
org.springframework.data	spring-data-couchbase	1.2.4.RELEASE
org.springframework.data	spring-data-elasticsearch	1.1.4.RELEASE
org.springframework.data	spring-data-gemfire	1.5.4.RELEASE
org.springframework.data	spring-data-hadoop	2.0.4.RELEASE
org.springframework.data	spring-data-hadoop-batch	2.0.4.RELEASE
org.springframework.data	spring-data-hadoop-core	2.0.4.RELEASE
org.springframework.data	spring-data-hadoop-store	2.0.4.RELEASE
org.springframework.data	spring-data-hadoop-test	2.0.4.RELEASE
org.springframework.data	spring-data-jpa	1.7.4.RELEASE
org.springframework.data	spring-data-mongodb	1.6.4.RELEASE
org.springframework.data	spring-data-mongodb-cross-store	1.6.4.RELEASE
org.springframework.data	spring-data-mongodb-log4j	1.6.4.RELEASE
org.springframework.data	spring-data-neo4j	3.2.4.RELEASE
org.springframework.data	spring-data-redis	1.4.4.RELEASE
org.springframework.data	spring-data-rest-core	2.2.4.RELEASE
org.springframework.data	spring-data-rest-webmvc	2.2.4.RELEASE
org.springframework.data	spring-data-solr	1.3.4.RELEASE
org.springframework.data	spring-yarn-batch	2.0.4.RELEASE
org.springframework.data	spring-yarn-boot	2.0.4.RELEASE
org.springframework.data	spring-yarn-core	2.0.4.RELEASE
org.springframework.data	spring-yarn-integration	2.0.4.RELEASE

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org.springframework.data	spring-yarn-test	2.0.4.RELEASE
org.springframework.hateoas	spring-hateoas	0.16.0.RELEASE
org.springframework.integration	spring-integration-amqp	4.1.8.RELEASE
org.springframework.integration	spring-integration-core	4.1.8.RELEASE
org.springframework.integration	spring-integration-event	4.1.8.RELEASE
org.springframework.integration	spring-integration-feed	4.1.8.RELEASE
org.springframework.integration	spring-integration-file	4.1.8.RELEASE
org.springframework.integration	spring-integration-flow	1.0.0.RELEASE
org.springframework.integration	spring-integration-ftp	4.1.8.RELEASE
org.springframework.integration	spring-integration-gemfire	4.1.8.RELEASE
org.springframework.integration	spring-integration-groovy	4.1.8.RELEASE
org.springframework.integration	spring-integration-http	4.1.8.RELEASE
org.springframework.integration	spring-integration-ip	4.1.8.RELEASE
org.springframework.integration	spring-integration-java-dsl	1.0.2.RELEASE
org.springframework.integration	spring-integration-jdbc	4.1.8.RELEASE
org.springframework.integration	spring-integration-jms	4.1.8.RELEASE
org.springframework.integration	spring-integration-jmx	4.1.8.RELEASE
org.springframework.integration	spring-integration-jpa	4.1.8.RELEASE
org.springframework.integration	spring-integration-mail	4.1.8.RELEASE
org.springframework.integration	spring-integration-mongodb	4.1.8.RELEASE
org.springframework.integration	spring-integration-mqtt	4.1.8.RELEASE
org.springframework.integration	spring-integration-redis	4.1.8.RELEASE
org.springframework.integration	spring-integration-rmi	4.1.8.RELEASE
org.springframework.integration	spring-integration-scripting	4.1.8.RELEASE
org.springframework.integration	spring-integration-security	4.1.8.RELEASE
org.springframework.integration	spring-integration-sftp	4.1.8.RELEASE
org.springframework.integration	spring-integration-splunk	1.1.0.RELEASE
org.springframework.integration	spring-integration-stream	4.1.8.RELEASE
org.springframework.integration	spring-integration-syslog	4.1.8.RELEASE
org.springframework.integration	spring-integration-test	4.1.8.RELEASE

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org.springframework.integration	spring-integration-twitter	4.1.8.RELEASE
org.springframework.integration	spring-integration-websocket	4.1.8.RELEASE
org.springframework.integration	spring-integration-ws	4.1.8.RELEASE
org.springframework.integration	spring-integration-xml	4.1.8.RELEASE
org.springframework.integration	spring-integration-xmpp	4.1.8.RELEASE
org.springframework.ldap	spring-ldap-core	2.0.4.RELEASE
org.springframework.ldap	spring-ldap-core-tiger	2.0.4.RELEASE
org.springframework.ldap	spring-ldap-ldif-batch	2.0.4.RELEASE
org.springframework.ldap	spring-ldap-ldif-core	2.0.4.RELEASE
org.springframework.ldap	spring-ldap-odm	2.0.4.RELEASE
org.springframework.ldap	spring-ldap-test	2.0.4.RELEASE
org.springframework.mobile	spring-mobile-device	1.1.5.RELEASE
org.springframework.plugin	spring-plugin-core	1.1.0.RELEASE
org.springframework.plugin	spring-plugin-metadata	1.1.0.RELEASE
org.springframework.retry	spring-retry	1.1.2.RELEASE
org.springframework.security.oauth	spring-security-oauth	2.0.8.RELEASE
org.springframework.security.oauth	spring-security-oauth2	2.0.8.RELEASE
org.springframework.security	spring-security-acl	3.2.9.RELEASE
org.springframework.security	spring-security-aspects	3.2.9.RELEASE
org.springframework.security	spring-security-cas	3.2.9.RELEASE
org.springframework.security	spring-security-config	3.2.9.RELEASE
org.springframework.security	spring-security-core	3.2.9.RELEASE
org.springframework.security	spring-security-crypto	3.2.9.RELEASE
org.springframework.security	spring-security-jwt	1.0.3.RELEASE
org.springframework.security	spring-security-ldap	3.2.9.RELEASE
org.springframework.security	spring-security-openid	3.2.9.RELEASE
org.springframework.security	spring-security-remoting	3.2.9.RELEASE
org.springframework.security	spring-security-taglibs	3.2.9.RELEASE
org.springframework.security	spring-security-web	3.2.9.RELEASE
org.springframework.session	spring-session	1.0.2.RELEASE

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org.springframework.session	spring-session-data-redis	1.0.2.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	2.4.2.RELEASE
org.springframework.webflow	spring-faces	2.4.2.RELEASE
org.springframework.webflow	spring-js	2.4.2.RELEASE
org.springframework.webflow	spring-js-resources	2.4.2.RELEASE
org.springframework.webflow	spring-webflow	2.4.2.RELEASE
org.springframework.ws	spring-ws-core	2.2.3.RELEASE
org.springframework.ws	spring-ws-security	2.2.3.RELEASE
org.springframework.ws	spring-ws-support	2.2.3.RELEASE
org.springframework.ws	spring-ws-test	2.2.3.RELEASE
org.springframework.ws	spring-xml	2.2.3.RELEASE
org.springframework	spring-aop	4.1.9.RELEASE
org.springframework	spring-aspects	4.1.9.RELEASE
org.springframework	spring-beans	4.1.9.RELEASE
org.springframework	spring-context	4.1.9.RELEASE
org.springframework	spring-context-support	4.1.9.RELEASE
org.springframework	spring-core	4.1.9.RELEASE
org.springframework	spring-expression	4.1.9.RELEASE
org.springframework	spring-instrument	4.1.9.RELEASE
org.springframework	spring-instrument-tomcat	4.1.9.RELEASE
org.springframework	spring-jdbc	4.1.9.RELEASE
org.springframework	spring-jms	4.1.9.RELEASE

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org.springframework	spring-messaging	4.1.9.RELEASE
org.springframework	spring-orm	4.1.9.RELEASE
org.springframework	spring-oxm	4.1.9.RELEASE
org.springframework	spring-test	4.1.9.RELEASE
org.springframework	spring-tx	4.1.9.RELEASE
org.springframework	spring-web	4.1.9.RELEASE
org.springframework	spring-webmvc	4.1.9.RELEASE
org.springframework	spring-webmvc-portlet	4.1.9.RELEASE
org.springframework	spring-websocket	4.1.9.RELEASE
org.springframework	springloaded	1.2.5.RELEASE
org.testng	testng	6.8.21
org.thymeleaf.extras	thymeleaf-extras-conditionalcomments	2.1.1.RELEASE
org.thymeleaf.extras	thymeleaf-extras-springsecurity3	2.1.2.RELEASE
org.thymeleaf	thymeleaf	2.1.4.RELEASE
org.thymeleaf	thymeleaf-spring4	2.1.4.RELEASE
org.xerial.snappy	snappy-java	1.1.1.7
org.yaml	snakeyaml	1.14
org.zeromq	jeromq	0.3.5
redis.clients	jedis	2.5.2
velocity-tools	velocity-tools-view	1.4
wSDL4J	wSDL4J	1.6.3
xmlunit	xmlunit	1.5
xom	xom	1.2.5