

Version Notes 2.2.1

These are the notes for the Struts 2.2.1 distribution.

For prior notes in this release series, see [Version Notes 2.1.8.1](#)

- If you are a Maven user, you might want to get started using the [Maven Archetype](#).
- Another quick-start entry point is the **blank** application. Rename and deploy the WAR as a starting point for your own development.

Maven Dependency

```
<dependency>
  <groupId>org.apache.struts</groupId>
  <artifactId>struts2-core</artifactId>
  <version>2.2.1</version>
</dependency>
```

Snapshot Repository

```
<repositories>
  <repository>
    <id>apache.nexus</id>
    <name>ASF Nexus Staging</name>
    <url>https://repository.apache.org/content/groups/staging/</url>
  </repository>
</repositories>
```

Internal Changes

- XWork was moved to ASF and it's a part of Struts 2 now. With this release the new XWork 2.2.0 is also available! In the future version, the XWork will be merged into Struts 2.
- XWork Maven artifact is now under `<groupId>org.apache.struts.xwork</groupId>` - it's Nexus requirement
- The XWork is using the latest OGNL version 3.0, the OGNL source code repository is hosted at [Github](#)
- Javassist dependency was excluded in OGNL, you must remember to include it, except when you are launching an application on JBoss server
- Resolved critical XWork vulnerability, for more details please read [CVE-2010-1870: Struts2/XWork remote command execution](#)
- All the example applications (excluding jboss-blank) are including Javassist dependency
- The new jboss-blank example application was created to be used with JBoss server - it's excludes Javassist library as such library is already provided with a JBoss server
- New Freemarker cache options added that should significantly improve efficiency during tag rendering - [WW-3467](#), you can read more here [Freemarker](#)

Issue Detail

- [JIRA Release Notes 2.2.1](#) regarding Struts 2
- [JIRA Release Notes 2.2.1](#) regarding XWork 2

Issue List

- [Struts 2.2.1](#) DONE
- [XWork 2.2.1](#) DONE - please be aware that not all issues were moved from OpenSymphony.com to ASF JIRA
- [Struts 2.2.2](#) TODO
- [XWork 2.2.2](#) TODO

Other resources

- Commit Logs (Struts 1 and Struts 2)
- Source Code Repository (includes change browsing)