

JBoss Tattletale 1.2 User's Guide

Betraying all your project's naughty little secrets

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About JBoss Tattletale

JBoss Tattletale is a tool that can help development teams getting an overview of the project they are working on or a product they depend on.

The tool generates reports that will show dependencies and general information that can help identify areas that needs attention such as minimizing the number of dependencies or eliminate duplicated class files from the class path.

JBoss Tattletale will help to improve the quality of your software project.

1.1. The team

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1.2. Thanks to

Jay Balunas, James Cobb, Torben Jaeger, Navin Surtani, Rostislav Svoboda and Steve Taranto.

Introduction

Have you ever found yourself frustrated with a ClassNotFoundException? Would you like to know what libraries are in your project and what they depend on? Would you like to get a full report on this stuff every time you run your ant build? If so you need to use the JBoss Tattletale project!

JBoss Tattletale is a tool that can help you get an overview of the project you are working on or a product that you depend on.

The tool will provide you with reports that can help you

- · Identify dependencies between JAR files
- Find missing classes from the classpath
- Spot if a class/package is located in multiple JAR files
- Spot if the same JAR file is located in multiple locations
- · With a list of what each JAR file requires and provides
- Verify the SerialVersionUID of a class
- Find similar JAR files that have different version numbers
- · Find JAR files without a version number
- Find unused JAR files
- · Identify sealed and signed JAR archives
- Locate a class in a JAR file
- · Get the OSGi status of your project
- · And generate the same reports for your .WAR and .EAR archives

JBoss Tattletale will recursive scan the directory pass as the argument for JAR files and then build the reports as HTML files.

JBoss Tattletale is licensed under GNU Lesser General Public License (LGPL) version 2.1 or later.

We hope that JBoss Tattletale will help you in your development tasks!

Please, visit the official JBoss Tattletale project page at http://www.jboss.org/tattletale/.

Getting started

3.1. Installation

JBoss Tattletale can be downloaded in its binary form for easy installation.

The download location is: http://www.jboss.org/tattletale/downloads

Once downloaded extract the files by executing:

```
unzip jboss-tattletale-1.2.0.Beta1.zip
```

or

```
tar xzf jboss-tattletale-1.2.0.Betal.tar.gz
```

depending on which archive type you downloaded.

JBoss Tattletale is now located in a folder under the directory you extracted the files into.

3.1.1. Maven

The JBoss Tattletale project is published in the JBoss Maven2 repository:

```
https://repository.jboss.org/nexus/content/groups/public/org/jboss/tattletale/
```

under the group id of: org.jboss.tattletale

The artifacts for the project are

• tattletale: The core library

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- tattletale-ant: The Apache Ant tasks
- tattletale-maven: The Apache Maven plugin

Developer snapshots are published on the JBoss Snapshots Maven2 server:

https://repository.jboss.org/nexus/content/repositories/snapshots/

3.1.2. Source code

If you want to experiment with the latest developments you may checkout the latest code from GitHub (formerly in SVN). Be aware that the information provided in this manual might then not be accurate.

You can clone the repository onto your computer by the following command. This automatically creates a directory 'tattletale' within your current directory. Please note that this would be a read-only directory.

git clone git://github.com/jesperpedersen/tattletale.git

Should you want to edit the sources yourself, it is best to create your own fork of the repository and then clone that particular fork on your command line. Should you need help with Git and GitHub then read the help files (http://help.github.com/)

The project is compiled using Java Development Kit 1.5 or higher, Apache Ant 1.8 or higher and Apache Ivy 2.2 or higher. Using

ant <target>

where target is one of

dist

Builds the distribution.

• release

Builds the release archives.

doc

Builds the documentation for the project.

• clean

Cleans the project of temporary files.

See the full list of targets in the main build.xml file.

3.2. Configuration

The configuration of JBoss Tattletale is done through its

jboss-tattletale.properties

file.

The current configuration parameters includes:

Table 3.1. JBoss Tattletale configuration

Key	Value
reports	A comma separated list of which reports that should be generated. The following reports are supported:
	• classdependants
	The "Class Dependants" report.
	• classdependson
	The "ClassDependsOn" report.
	• dependants
	The "Dependants" report.
	• dependson
	The "DependsOn" report.
	• graphviz
	The "Graphical dependencies" report.
	• transitivedependants
	The "Transitive Dependants" report.

Key	Value
	• transitivedependson
	The "Transitive DependsOn" report.
	• circulardependency
	The "Circular Dependency" report.
	• classlocation
	The "Class Location" report.
	• osgi
	The "OSGi" report.
	• sealed
	The "Sealed Information" report.
	• sign
	The "Signing Information" report.
	• eliminatejars
	The "Eliminate Jar files with different versions" report.
	• invalidversion
	The "Invalid version" report.
	• multiplejars
	The "Multiple Jar files" report.
	• multiplejarspackage
	The "Multiple Jar files (Package)" report.
	• multiplelocations
	The "Multiple Locations" report.
	• unusedjar
	The "Unused Jar" report.
	• blacklisted
	The "Black listed" report.

Key	Value	
	• noversion	
	The "No version" report.	
	• jar	
	The "Jar archive" report.	
	Default: All reports (reports=*)	
classloader	Specifies which classloader structure that should be used when scanning the archives. Can be one of the following:	
	• org.jboss.tattletale.reporting.classloader.NoopClassLoaderStructu	ure
	A no-operation classloader structure implementation that doesn't scope any archives.	
	• org.jboss.tattletale.reporting.classloader.JBossAS4ClassLoaderStr	ruct
	A classloader structure implementation that scopes based on JBoss Application Server 4.x directory structures.	
	• org.jboss.tattletale.reporting.classloader.JBossAS5ClassLoaderStr	ruct
	A classloader structure implementation that scopes based on JBoss Application Server 5.x directory structures.	
	• org.jboss.tattletale.reporting.classloader.JBossAS6ClassLoaderStr	ruct
	A classloader structure implementation that scopes based on JBoss Application Server 6.x directory structures.	
profiles	Specifies a comma separated list of profiles to resolve against. The following profiles are supported:	
	• java5	
	The Java 5 API.	
	• java6	
	The Java 6 API.	
	• ee5	
	The Java Enterprise Edition 5 API.	
	• ee6	

Key	Value
	The Java Enterprise Edition 6 API.
	• seam22
	The JBoss Seam 2.2 API.
	• cdi10
	The Contexts and Dependency Injection (CDI) 1.0 API.
	• spring25
	The Spring 2.5 API.
	• spring30
	The Spring 3.0 API.
excludes	A comma separated list of directories or files that should be excluded from the scan. F.ex.
	/server/,myjar.jar
blacklisted	A comma separated list of black listed classes or packages. F.ex.
	com.mycompany.forinternaluseonly, com.partner.forinternaluseonly
scan	A comma separated list of file extensions that should be scanned
	Default: .jar
enableDot	Should images be generated if the Graphviz DOT application is found
	Default: true
graphvizDot	The full path to the Graphviz DOT executable. This property is required if you want to generate PNG files and the Graphviz bin directory is not on your path. F.ex.
	<pre>graphvizDot=C:\\Graphviz2.26.3\\bin\\dot.exe or</pre>
	<pre>graphvizDot=/opt/graphiz/bin/dot</pre>

The load order for the configuration file is

- 1. ${\tt configuration}$ parameter in the Apache Ant / Maven task
- 2. -Djboss-tattletale.properties system property
- 3. jboss-tattletale.properties file in current directory
- 4. jboss-tattletale.properties file in class loader

NOTE: The classloader structure feature is currently based on directory structures and may therefore fail to identify archives that should be included in the reports. If you want to be sure that all archives are included use the NoopClassLoaderStructure plugin.

3.2.1. Filtering

JBoss Tattletale supports filtering of the warnings and errors that the reports generates.

This functionality allows the user to filter out any warnings or errors that should be ignored and thereby allow the application to successful terminate.

The format of the filter properties file is

Table 3.2. JBoss Tattletale filter

Key	Value
report id	The filter

An example:

myreport=myfilter

The load order for the filter file is

- 1. filter parameter in the Apache Ant / Maven task
- 2. -Djboss-tattletale-filter.properties system property
- 3. jboss-tattletale-filter.properties file in current directory

See the individual reports for filtering support.

3.3. Running

Running JBoss Tattletale is very easy

```
java -Xmx512m -jar tattletale.jar [-exclude=<excludes>] <sourcedir> [<outputdir>]
```

where the "sourcedir" is the directory that contains your Java archives and the optional "outputdir" parameter is the directory where you would like your reports to be generated. The "-exclude" option let you exclude directories or file on the command line - see the configuration file for syntax.

Tattletale can also be run against specific compiled Archives. These can be singular or multiple files provided in the command line and separated using a # delimeter.

java -Xmx512m -jar tattletale.jar myApp.jar#yourApp.war#amazingApp.ear report

The main file will be generated under the report directory as index.html.

JBoss Tattletale will scan for Java (.jar), Web (.war) and Enterprise (.ear) Archive files.

JBoss Tattletale requires Java Runtime Environment 5 or higher.

Apache Ant

JBoss Tattletale integrates with Apache Ant such that you can generate the reports directly from your build environment.

First, you need to add tattletale.jar, tattletale-ant.jar and javassist.jar to the Apache Ant classpath.

Second, you need to add the following to your project definition tag:

```
xmlns:tattletale="antlib:org.jboss.tattletale.ant"
```

That is it.

Alternative, you can do a taskdef for each task

```
<taskdef name="report"
    classname="org.jboss.tattletale.ant.ReportTask"
    classpathref="tattletale.lib.path.id"/>
```

See the Apache Ant documentation for additional instructions on installation.

4.1. report

Usage:

```
<tattletale:report source="${src.dir}" destination="${dest.dir}"/>
```

Table 4.1. Apache Ant: report

Key	Value
source	The directory that contains the Java archives. Multiple directories can be scanned by separating each with the File.pathSeparator character - f.ex. dir1:dir2 on Un*x.
	Default: Current directory
destination	The directory where the reports should be generated Default: Current directory
configuratio	nPath to the configuration file
00:1219414010	Default: No value
filter	Path to the filter file
	Default: No value
reports	A comma separated list of which reports that should be generated. All reports can be selected by specifying "*". The following reports are supported:
	• classdependants
	The "Class Dependants" report.
	• classdependson
	The "Class DependsOn" report.
	• dependants
	The "Dependants" report.
	• dependson
	The "DependsOn" report.
	• graphviz
	The "Graphical dependencies" report.
	• transitivedependants
	The "Transitive Dependants" report.
	• transitivedependson
	The "Transitive DependsOn" report.
	• circulardependency

Key Value The "Circular Dependency" report. • classlocation The "Class Location" report. • osgi The "OSGi" report. • sealed The "Sealed Information" report. • sign The "Signing Information" report. • eliminatejars The "Eliminate Jar files with different versions" report. • invalidversion The "Invalid version" report. • multiplejars The "Multiple Jar files" report. • multiplejarspackage The "Multiple Jar files (Package)" report. • multiplelocations The "Multiple Locations" report. • unusedjar The "Unused Jar" report. • blacklisted The "Black listed" report. • noversion The "No version" report. • jar

Key	Value	
	The "Jar archive" report.	
	Default: All reports	
classloader	Specifies which classloader structure that should be used when scanning the archives. Can be one of the following:	
	• org.jboss.tattletale.reporting.classloader.NoopClassLoaderStructure	3
	A no-operation classloader structure implementation that doesn't scope any archives.	
	• org.jboss.tattletale.reporting.classloader.JBossAS4ClassLoaderStruc	ctui
	A classloader structure implementation that scopes based on JBoss Application Server 4.x directory structures.	
	• org.jboss.tattletale.reporting.classloader.JBossAS5ClassLoaderStruc	ctur
	A classloader structure implementation that scopes based on JBoss Application Server 5.x directory structures.	
	• org.jboss.tattletale.reporting.classloader.JBossAS6ClassLoaderStruc	ctur
	A classloader structure implementation that scopes based on JBoss Application Server 6.x directory structures.	
	Default:	
	org.jboss.tattletale.reporting.classloader.NoopClassLoaderStructure	
profiles	Specifies a comma separated list of profiles to resolve against. All profiles can be selected by specifying "*". The following profiles are supported:	
	• java5	
	The Java 5 API.	
	• java6	
	The Java 6 API.	
	• ee5	
	The Java Enterprise Edition 5 API.	
	• ee6	
	The Java Enterprise Edition 6 API.	

Key	Value	
	• seam22	
	The JBoss Seam 2.2 API.	
	• cdil0	
	The Contexts and Dependency Injection (CDI) 1.0 API.	
	• spring25	
	The Spring 2.5 API.	
	• spring30	
	The Spring 3.0 API.	
	Default: java5, java6	
excludes	A comma separated list of directories or files that should be excluded from the scan. F.ex.	
	/server/,myjar.jar	
	Default: Empty list	
blacklisted	A comma separated list of black listed classes or packages. F.ex.	
	com.mycompany.forinternaluseonly, com.partner.forinternaluseonly	
	Default: Empty list	
failOnInfo	Fail the build if a failed INFO report is found	
	Default: false	
failOnWarn	Fail the build if a failed WARN report is found	
	Default: false	
failOnError	Fail the build if a failed ERROR report is found	
	Default: false	
deleteOutputD Should the output directory be deleted		
	Default: true	
scan	A comma separated list of file extensions that should be scanned	
	Default: .jar	



Note

Note that defining a property in the task overrides the setting in the configuration file.

Apache Maven

JBoss Tattletale integrates with Apache Maven such that you can generate the reports directly from your build environment.

To be able to use the Tattletale Maven plugin in your Maven project, you will have to add the following plugin declaration in the pom.xml of your project:

```
<build>
 <plugins>
   <plugin>
     <groupId>org.jboss.tattletale</groupId>
     <artifactId>tattletale-maven</artifactId>
     <!-- The version of the plugin you want to use -->
     <version>1.1.0.Final
     <executions>
 <execution>
   <goals>
     <goal>report</goal>
   </goals>
 </execution>
     </executions>
     <configuration>
 <!-- This is the location which will be scanned for generating tattletale reports
 <source>/absolutepath/to/source/dir</source>
 <!-- This is where the reports will be generated -->
 <destination>/absolute/path/to/reports/dir</destination>
     </configuration>
   </plugin>
 </plugins>
</build>
```



Note

By default, the tattletale-maven plugin is attached to the "package" phase of Maven.

5.1. report

Usage:

Once you have configured your project's pom.xml to include the tattletale-maven plugin, as explained earlier, you can generate the report by running the package goal on your project

mvn clean package

Table 5.1. Apache Maven: report

Key	Value
source	The directory that contains the Java archives. Multiple directories can be scanned by separating each with the File.pathSeparator character - f.ex. dir1:dir2 on Un*x. Default: Current directory
destination	The directory where the reports should be generated Default: Current directory
configuratio	nPath to the configuration file
	Default: No value
filter	Path to the filter file
	Default: No value
reports	Contains nested report elements of which reports that should be generated. All reports can be selected by specifying "*". The following reports are supported:
	• classdependants
	The "Class Dependants" report.
	• classdependson
	The "Class DependsOn" report.
	• dependants
	The "Dependants" report.
	• dependson
	The "DependsOn" report.

Key Value • graphviz The "Graphical dependencies" report. • transitivedependants The "Transitive Dependants" report. • transitivedependson The "Transitive DependsOn" report. • circulardependency The "Circular Dependency" report. • classlocation The "Class Location" report. • osgi The "OSGi" report. • sealed The "Sealed Information" report. • sign The "Signing Information" report. • eliminatejars The "Eliminate Jar files with different versions" report. • invalidversion The "Invalid version" report. • multiplejars The "Multiple Jar files" report. • multiplejarspackage The "Multiple Jar files (Package)" report. • multiplelocations The "Multiple Locations" report.

Key	Value
	• unusedjar
	The "Unused Jar" report.
	• blacklisted
	The "Black listed" report.
	• noversion
	The "No version" report.
	• jar
	The "Jar archive" report.
	Default: All reports
classloader	Specifies which classloader structure that should be used when scanning the archives. Can be one of the following:
	• org.jboss.tattletale.reporting.classloader.NoopClassLoaderStructure
	A no-operation classloader structure implementation that doesn't scope any archives.
	• org.jboss.tattletale.reporting.classloader.JBossAS4ClassLoaderStructure
	A classloader structure implementation that scopes based on JBoss Application Server 4.x directory structures.
	• org.jboss.tattletale.reporting.classloader.JBossAS5ClassLoaderStructure
	A classloader structure implementation that scopes based on JBoss Application Server 5.x directory structures.
	• org.jboss.tattletale.reporting.classloader.JBossAS6ClassLoaderStructure
	A classloader structure implementation that scopes based on JBoss Application Server 6.x directory structures.
	Default:
	org.jboss.tattletale.reporting.classloader.NoopClassLoaderStructure
profiles	Contains nested profile elements of profiles to resolve against. All profiles can be selected by specifying "*". The following profiles are supported:
	• java5

Key	Value
	The Java 5 API.
	• java6
	The Java 6 API.
	• ee5
	The Java Enterprise Edition 5 API.
	• ee6
	The Java Enterprise Edition 6 API.
	• seam22
	The JBoss Seam 2.2 API.
	• cdi10
	The Contexts and Dependency Injection (CDI) 1.0 API.
	• spring25
	The Spring 2.5 API.
	• spring30
	The Spring 3.0 API.
	<pre>Default: <report> java5</report> <report> java6</report></pre>
excludes	Contains nested $\mathtt{exclude}$ elements of directories or files that should be excluded from the scan. F.ex.
	<pre><exclude>**/server/**</exclude><exclude>myjar.jar</exclude></pre>
	Default: Empty list
blacklisted	Contains nested blacklist elements of black listed classes or packages.
	<pre>F.ex. <blacklist>com.mycompany.forinternaluseonly</blacklist></pre>
failOnInfo	Default: Empty list Fail the build if a failed INFO report is found
failOnWarn	Default: false Fail the build if a failed WARN report is found
rarronwarn	
	Default: false

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Key	Value
failOnError	Fail the build if a failed ERROR report is found
	Default: false
deleteOutput	D Sheuld ±lhe output directory be deleted
	Default: true
scan	A comma separated list of file extensions that should be scanned
	Default: . jar



Note

Note that defining a property in the task overrides the setting in the configuration file.

6 Reports

6.1. Dependency reports

6.1.1. Class Dependants

The class dependants report will lists which classes depends on a specific class.

Table 6.1. Class Dependants report

Class	Dependants
The class	A list of classes that depends on this class

6.1.2. Class Depends On report

The class depends on report will lists which classes that a class depends on.

Table 6.2. Class Depends On report

Class	Depends On
The class	A list of classes which the class depends on

6.1.3. Dependants

The dependants report will lists which archives depends on a specific archive.

Table 6.3. Dependants report

Archive	Dependants
The archive	A list of archives that depends on this archive

6.1.4. Depends On report

The depends on report will lists which archives that an archive depends on.

Table 6.4. Depends On report

Archive	Depends On
The archive	A list of archives which the archive depends on. Classes which can't be found are listed in italic

Filter key is: dependson

Filter definition is:

archive=[class|package](,[class|package])*;

An example:

dependson=myjar1.jar=org.eclipse.*;myjar2.jar=com.mycompany.MyClass,com.mycompany.OtherClass

6.1.5. Graphical dependencies report

The graphical dependencies report will create GraphViz dot files that show the dependencies as graphics.

As an example you can generate a PNG image using

dot -Tpng myarchive.dot > myarchive.png

See the GraphViz documentation for a full description on how to generate these images.

Table 6.5. Graphical dependencies report

Archive	Archives	Packages
The archive	GraphViz file that shows interarchive dependencies	GraphViz file that shows interpackage dependencies

6.1.6. Transitive Dependants

The transitive dependants report will lists all archives depends on a specific archive.

Table 6.6. Transitive Dependants report

Archive	Dependants
The archive	A list of all archives that depends on this archive

6.1.7. Package Dependants report

The package dependants report lists the packages that depend on a specific package within your archive that you are analyzing.

Table 6.7. Package Dependants Report

Package	Dependants
The package	A list of packages that depend on this package

6.1.8. Package Dependants report

The package dependants report lists the packages that your package depends on.

Table 6.8. Package Dependants Report

Package	Depends On
The package	A list of packages that your package depends on

6.1.9. Transitive Depends On report

The transitive depends on report will lists all archives that an archive depends on.

Table 6.9. Transitive Depends On report

Archive	Depends On
The archive	A list of all archives which the archive depends on. Classes which can't be found are listed in italic

Filter key is: transitivedependson

Filter definition is:

archive=[class|package](,[class|package])*;

An example:

transitivedependson=myjar.jar=com.mycompany.MyClass,com.mycompany.OtherClass

6.1.10. Circular Dependency report

The circular dependency report will lists all archives that has a circular dependency with another archive.

Archives that are marked with "(*)" has the circular dependency. Note, that the circular dependency can be through a transitive dependency and not a direct dependency.

Table 6.10. Circular Dependency report

Archive	Circular Dependencies
The archive	A list of all archives which the archive has a circular dependency on.

Filter key is: circulardependency

Filter definition is:

[archive](,[archive])*;

An example:

circulardependency=myjar1.jar,myjar2.jar

6.2. General reports

6.2.1. Class Location

The class location will lists which archives that contain a specific class file.

Table 6.11. Class Location report

Class	Jar file
The class	The list of archives that contains the class

Filter key is: classlocation

Filter definition is:

[class|package](,[class|package])*;

An example:

 $\verb|class|| ocation = \verb|org.eclipse.*|, \verb|com.mycompany.MyClass||$

6.2.2. OSGi

The OSGi report will display the OSGi state of your project.

Table 6.12. OSGi report

Archive	OSGi	Report	Manifest
The archive	The OSGi state of the archive	The OSGi report for the archive	A sample OSGi enabled MANIFEST file

Filter key is: osgi

Filter definition is:

[archive](,[archive])*;

An example:

osgi=myjar1.jar,myjar2.jar

6.2.3. Sealed information

The sealed information report will display the sealed status of your project.

Table 6.13. Sealed information report

Archive	Status
The archive	The status if the archive is sealed or unsealed

Filter key is: sealed

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[yes|on|true|no|off|false]

An example:

sealed=off

6.2.4. Signing information

The signing information report will display the signing status of your project.

Table 6.14. Signing information report

Archive	Status
The archive	The status if the archive is signed or unsigned

Filter key is: sign

Filter definition is:

[yes|on|true|no|off|false]

An example:

sign=off

6.2.5. Eliminate Jar files with different versions

The eliminate jar files with different versions lists archives that have the same name but has a different version identifier.

Table 6.15. Eliminate Jar report

Archive	Location
The archive	The list of locations that the archive is found

Filter key is: eliminatejars

Filter definition is:

```
[archive](,[archive])*;
```

An example:

```
eliminatejars=myjar1.jar,myjar2.jar
```

6.2.6. Invalid version

The invalid version report lists archives that doesn't have a valid OSGi version identifier.

Table 6.16. Invalid version report

Name	Location
The archive	The location and version identifier for the archive
name	

Filter key is: invalidversion

Filter definition is:

```
[archive](,[archive])*;
```

An example:

```
invalidversion=myjar1.jar,myjar2.jar
```

6.2.7. Multiple Jar files

The multiple jar files report will list classes that appear in multiple jar files.

Table 6.17. Multiple Jar files report

Class	Jar files
The class	The list of archives where this class is found

Filter key is: multiplejars

Filter definition is:

[package](,[package])*;

An example:

 $\verb|multiplejars=com.mycompany.mypackage1,com.mycompany.mypackage2|\\$

6.2.8. Multiple Jar files (Package)

The multiple jar files fpr packages report will list packages that appear in multiple jar files.

Table 6.18. Multiple Jar files report (Package)

Package	Jar files
The package name	The list of archives where this package is found

Filter key is: multiplejarspackage

Filter definition is:

[package](,[package])*;

An example:

 $\verb|multiplejarspackage=com.mycompany.mypackage1,com.mycompany.mypackage2|\\$

6.2.9. Multiple Locations

The multiple locations report will list archives that appear in multiple locations under the scanned source directory.

Table 6.19. Multiple Locations report

Name	Location
The archive	The list of locations where the archive is found
name	

Filter key is: multiplelocations

Filter definition is:

```
[archive](,[archive])*;
```

An example:

```
multiplelocations=myjar1.jar,myjar2.jar
```

6.2.10. Unused Jar

The Unused Jar report lists archives that isn't referenced from any other Jar archive in the distribution. This doesn't mean however that the archive isn't used since it could be referenced through Java Reflection or through metadata.

Table 6.20. Unused Jar report

Archive	Used
The archive	Status if the archive is used or not

Filter key is: unusedjar

Filter definition is:

[archive](,[archive])*;

An example:

unusedjar=myjar1.jar,myjar2.jar

6.2.11. Black listed

The black listed report will list archives that uses black listed APIs.

Table 6.21. Black listed report

Archive	Usage
The archive	The list of packages that uses black listed APIs
name	

Filter key is: blacklisted

Filter definition is:

[archive](,[archive])*;

An example:

blacklisted=myjar1.jar,myjar2.jar

6.2.12. No version

The no version report will list archives that doesn't have a version identifier.

Table 6.22. No version report

Name	Location
The archive	The list of locations where the archive is found
name	

Filter key is: noversion

Filter definition is:

```
[archive](,[archive])*;
```

An example:

```
noversion=myjar1.jar,myjar2.jar
```

6.2.13. JBoss AS7

The JBoss AS7 report will list the jboss-deployment-structure.xml file for archives.

Table 6.23. JBoss AS7 report

Name	File
The archive	The XML file
name	

6.3. Archive reports

6.3.1. Java ARchive (JAR)

The Java ARchive (JAR) report will provide you with an overview of the archive.

Table 6.24. No version report

Key	Value
Name	The archive name
Class Version	The version identifier for the class files
Locations	The list of locations for the archive
Manifest	The manifest file
Signing information	The signing information for the archive
Requires	The list of required classes
Provides	The list of provided classes - including SerialVersionUID (if present)

6.3.2. Web ARchive (WAR)

The Web ARchive (WAR) report will provide you with an overview of the archive, like the JAR report.

6.3.3. Java Enterprise ARchive (EAR)

The Java Enterprise ARchive (EAR) report will provide you with an overview of the archive, like the JAR report.

6.4. Custom Reports

As a user, you can define your own custom report types to tattletale. However, there are some restrictions to this and there is some required configuration. These are as follows:

- Your custom report class has to be an implementation of org.jboss.tattletale.reporting.Report
- You have to define your required reports in jboss-tattletale.properties. Each key string has to be of the form 'customreport.{int}' where int has to start with 1 and increase by 1 with each extra custom report that is required.

For example

customreport.1=my.custom.package.customreport

• At runtime, as long as your custom jar file is in the classpath your custom report will be generated. If you were running from the command line for example:

java -classpath tattletale.jar:customreporting.jar org.jboss.tattletale.Main [directory-ofsource-jar] [output-directory]

Troubleshooting

7.1. JBoss Tattletale generates empty reports

JBoss Tattletale generates its reports based on Java archives and not source code. Make sure that sourcedir you specify when running JBoss Tattletale contains the Java archives (f.ex. .JAR files) that you need scanned.

7.2. JBoss Tattletale throws an OutOfMemoryException

JBoss Tattletale needs to process the information it gathers in memory, so you need to provide enough memory for that to happen. You can ajust the -Xmx parameter of the command line below if you are using Sun's Java Runtime Environment.

java -Xmx1024m -jar jboss-tattletale.jar <sourcedir> [<outputdir>]

7.3. I would like to implement a feature

So you have found an area where you are missing a feature and would like to submit a patch for it, great!

There are a couple of steps to get a feature included

First, you should create a new thread in our *development forum* [http://community.jboss.org/en/tattletale/dev] where you describe the feature, its design and implementation.

Once there is an agreement on the feature and the design you should proceed with creating the patch.

To maximize your chances of getting the feature in the official build as soon as possible make sure that you run <code>checkstyle</code> to make sure that the code is correctly formatted:

ant clean checkstyle

when there are no errors, create a JIRA task (Feature) in our *JIRA environment* [https://issues.jboss.org/browse/TTALE] and attach the patch. See the developer guide for additional details.

Happy Coding!

7.4. How do I?

We can't cover every single issue in this guide, so feel free to drop by our forums to see if a solution has already been provided. Otherwise feel free to ask your question there.

Our forum is located at http://community.jboss.org/en/tattletale.