JEE Analyzer - 1.0

On this page:

Target audience:

Users of the extension providing **JEE analysis** support**.**

ⓘ **Summary:** This document provides information about the extension providing **JEE analysis** support.

Description

This extension provides support for **JEE**.

What's new?

Please see the following pages for information about new features/changes, fixed bugs, changes that will impact results etc.:

- [JEE Analyzer - 1.0.0 - What's new](#)
- [JEE Analyzer - 1.0.1 - What's new](#)
- [JEE Analyzer - 1.0.2 - What's new](#)
- [JEE Analyzer - 1.0.3 - What's new](#)
- [JEE Analyzer - 1.0.4 - What's new](#)
- [JEE Analyzer - 1.0.5 - What's new](#)
- [JEE Analyzer - 1.0.6 - What's new](#)

Technology support

ⓘ Please also see [JEE Analyzer - Technology support notes](#) for additional information.

Language / Framework		Supported	Supported Versions
Java JDK		✅	- 1.1 - 1.8
Presentation layer frameworks	Java Server Faces (JSF)	✅	- 1.2 - 2.0, 2.1 This includes the support of the following third-party JSF libraries: - Richfaces - IceFaces - MyFaces (Apache) - PrimeFaces

	JSP	✅	• 1.1, 1.2 • 2.0 JSPX documents (JSP in XML format) are not supported.
	Apache Struts	✅	• 1.0, 1.1 (including Tiles 1.0 and STXX 1.0 - 1.2) • 2.0 - 2.5
	Struts Validator	✅	• 1.2, 1.3
	STXX	✅	• 1.0, 1.1, 1.2
Persistence layer frameworks	Hibernate	✅	• 2.x • 3.1, 3.2, 3.3, 3.4, 3.5, 3.6 • 4.0, 4.1, 4.2, 4.3-5.x
	JPA	✅	• 1.0 • 2.0, 2.1
	EJB	✅	• 2.0, 2.1 • 3.x (only @Stateless, @Stateful, @Local and @Remote annotations are supported)
Other frameworks	Spring IoC	✅	• 1.2.x • 2.x • 3.x • 4.x
	WSDL	✅	• 1.1
	CDI	✅	• 1.0, 1.1, 1.2
	Spring Batch	✅	-

Function Point, Quality and Sizing support

This extension provides the following support:

- **Function Points (transactions)**: a green tick indicates that OMG Function Point counting and Transaction Risk Index are supported
- **Quality and Sizing**: a green tick indicates that CAST can measure size and that a minimum set of Quality Rules exist

Function Points (transactions)	Quality and Sizing
✅	✅

CAST AIP compatibility

This extension is compatible with:

CAST AIP release	Supported
8.3.x	✅
8.2.x	❌
8.1.x	❌
8.0.x	❌
7.3.x	❌

Supported DBMS servers

This extension is compatible with the following DBMS servers:

CAST AIP release	CSS2	Oracle	Microsoft
All supported releases	✅	✅	✅

Prerequisites

✅	An installation of any compatible release of CAST AIP (see table above)

Required third-party software

The following section lists any third-party software that may be required to successfully deliver source code and run an analysis with the JEE Analyzer extension:

Install on workstation running DMT	Install on workstation running CMS
Nothing required ⓘ The CAST Delivery Manager Tool (DMT) only requires the location of the JEE application for extraction and packaging.	**Nothing required**

Dependencies with other extensions

Some CAST AIP extensions require the presence of other CAST AIP extensions in order to function correctly. The **JEE Analyzer** extension requires that the following other CAST AIP extensions are also installed:

- **Web services linker service** (internal technical extension)

ⓘ

Download and installation instructions

Please see:

- http://doc.castsoftware.com/display/EXTEND/Download+an+extension
- http://doc.castsoftware.com/display/EXTEND/Install+an+extension

Application qualification information

Please see: JEE Analyzer - Application qualification specifics

Packaging, delivering and analyzing your source code

Please see: JEE Analyzer - Packaging, delivering and analyzing your source code and all child pages:

- JEE Analyzer - Analysis configuration
  - JEE Analyzer - Analysis of pure Java applications
  - JEE framework analysis
    - EJB 3.x based application
    - JSF 1.2 based application
    - JSPX instead of JSP files
    - Spring based application
    - Struts 1.0 or 1.1 based application
    - Struts 2.0 and 2.1 based application
  - Advanced customization of a JEE analysis
    - Customize the cast-tag.extensions.xml
    - Manage annotations
    - Manage XML configuration files
      - FlexFramework - castscript Native Functions
      - FlexFramework - Description of the castscript language
      - FlexFramework - Hidden JEE Objects parent tree
      - JEE Analyzer - STXX support
    - Manage properties files
    - Manage JSP Tag Files
    - Manage JSP custom tags
- JEE Analyzer - Environment Profiles
  - JEE Analyzer - JEE custom Environment Profiles
- JEE Analyzer - Analysis messages

What analysis results can you expect?

Please see: JEE Analyzer - Analysis results

Current known limitations

ⓘ See also JEE Analyzer - Technology support notes.

Quality Rules

Avoid static field of type collection (7562)

When calculating a snapshot for applicationusing JSE 5.0, the Quality Rule "Avoid static field of type collection (7562)" does not list as "Very High Risk Objects" classes that are or inherit from a Generic collection. The Quality Rule lists only the non generic form of collections. For example **static attributes of type java.util.Collection<E>** will not be reported as a violation.

Persistence: Avoid table and column names that are too long (portability) (7706)

Situation:

- JEE application using the Java Persistence API (JPA), e.g. in the form of Hibernate.
- A table or column name is not specified in the annotations of the JPA entity.

Symptoms: The JPA entity is not listed as a "Very High Risk" object in the results.

No link bookmarks generated

When Java Methods are defined inside a JSP file, no link bookmarks are generated (bookmarks can be seen in CAST Enlighten or in the Dynamic Link Manager). Example of a Java Method defined in a JSP file:

```
<%@ page language="Java" %>
<%!
public void myMethod(String message)
{ System.out.println(message); }
%>
```