

# CMS Snapshot Analysis - Run Analyzer - Warnings - JEE with extension - JEE Analyzer - JAVA044 Syntax not recognized or JEE052 Syntax not recognized

## Purpose

This page describes how to deal with the warning **JAVA044: Syntax not recognized** or **JAVA052: Syntax not recognized** while performing a Java analysis.

```
2018-11-15 13:23:15.935923      Warning      MODULMSG ; Job execution      JAVA044: Syntax not
recognized :

                finally {
                    if (rs!=null) {
                        rs.close;
-----^
                    }
                    if (is!=null) {
                        is.close;
S:\Sources\Analyzed\Some.java
```

For more information refer to [JEE - Analysis messages](#)

## Observed in CAST Extension

Release	Yes/No
JEE 1.2.x	✓
JEE 1.1.x	✓
JEE 1.0.x	✓

## Applicable RDBMS

RDBMS	Yes/No
Oracle Server	✓
Microsoft SQL Server	✓
CSS3	✓
CSS2	✓

## Step by Step Scenario

Below is the step-by-step scenario leading to the problem:

1. Package and deliver the application.
2. Set as current version.
3. Run the analysis.
4. Validate analysis log file.
5. Warnings beginning with "JAVA044: Syntax not recognized: " or "JAVA052: Syntax not recognized" are generated.

## Action Plan

This kind of warning message is raised when the java analyzer is unable to recognize the syntax of a java file.

This can happen because:

- The java version that has been set in CAST-MS does not correspond to the java version of the file.
- The file that is being analysed is a .class file that has been wrongly de-compiled.
- The file that is being analysed is the java part of a .jsp which has been wrongly generated.
- The JEE analyzer does not follow the correct syntax standard for the selected Java version.
- This is a genuine java syntax error and the file cannot be compiled with any version of java.

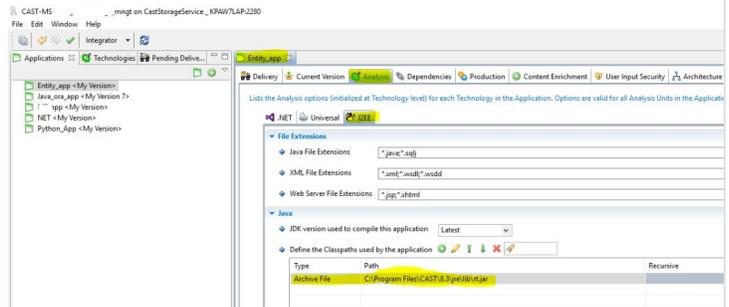
The steps to follow are

1. **Locate the file path and the source line/column, by checking the details of the syntax error message.** Open the detail view of the analysis log and retrieve the relevant information

Log Message	
Severity:	 Warning
Topic:	MODULMSG ; Job execution
Time stamp:	2018-11-15 13:23:15.935923
Source:	S:\Sor... at.java
Source line:	170
Source column:	14
Body:	<pre>JAVA044: Syntax not recognized :                  finally {                     if (rs!=null) {                         rs.close;                     }                     if (is!=null) {                         is.close;                     }                 }                 -----^</pre>

## 2. Check if the .java file is a CAST generated file

- a. If the file path points to the LISA folder then this file has been generated by the JEE analyzer. There are 2 different cases when the Java analyzer is creating .java files:
    - i. The .java file is de-compiled from a class file or a .jar file that has been added in the application as part of the [JEE Classpath](#) or from a .jar file that is provided from CAST in an Environmental Variable. In this case the de-compiled .java file will be located in **JavaExtractedFiles\Classes** folder.
      1. Locate the original file that has been used to create the de-compiled file. Open the analysis log and search with the same name to find the reference
      2. File can
        - a. belong to a .jar or .class that is part of the application **Parsing Java file (phase 2) :[api-something.jar] \com\somthinglv1\preferences\SomeClass.class**
        - b. belong to a .jar or .xml that is provided by CAST **Parsing Java file (phase 2) : [C:\ProgramData\CAST\CAST\Extensions\com.castsoftware.jee.1.2.6-funcne\EnvProf\J2EE\JSE\JSE 1.8\rt.jar.header.xml]\javalang\Boolean.class**
    - ii. If not then this is an issue of the CAST JEE de-compiler. If this is the issue then contact [CAST Technical Support](#) with the following [Relevant Input](#) to reproduce the issue.
  - b. If file is in .xml format (so originating from an Environmental Profile) then this can be due to a malformed .xml or a problem in CAST JEE de-compiler. Files provided by CAST are from public libraries:
    - i. Locate the .class file or .java file on the Web. If it is a class file use any of the available java de-compilers (for instance <http://jd.benow.ca/>) to de-compile the file
    - ii. Compare the .xml file method signature with the .java file method
      1. If they are the same then proceed to step 'Check if the Java file can be compiled'
      2. If not, either:
        - a. Edit the .xml file to have the correct signature(this is not possible in all cases) compared with the one in the decompiled .class.
        - b. Add the .class or .jar file that has been retrieved from the Web in the classpath on the application level:
- c. if none of a or b works, contact [CAST Technical Support](#) with the [Relevant Input](#) to reproduce issue
- ii. The .java file is created as the java part of a .jsp file. In this case the .java file will be located in **WebLayers** older. Proceed to next step



### 3. Check if the Java file can be compiled.

a. Open CAST-MS and check the Java version used to analyze the source code file

i. Go to **'Current Version'** tab and sort the analysis units by Project Path



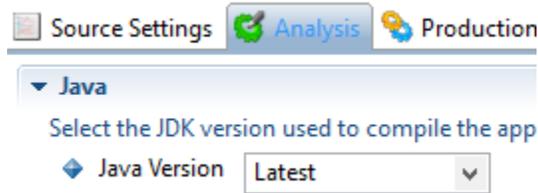
Name	Project Path
Analyzed	S:\Sources\... \Analyzed
HTML5	S:\Sources\... \Analyzed
Analyzed_SHELL	S:\Sources\... \Analyzed

ii. Locate the analysis unit where this source code file belongs, by referring to the project path. For user defined Analysis Units the Project path value is set as **'User Defined'** and the source codes included for analysis can be retrieved by opening the analysis unit and checking the path value in Source settingSources:



Permission	Path
Include	S:\Sources\... \Analyzed\..._SQL

iii. Open the Analysis UnitAnalysis tab and check the java version



iv. Check if the syntax error is genuine or if the Java version selected in the analysis unit is not correct

1. You can use one or several of the below resources to validate the syntax and Java version where this syntax has been introduced
  - a. Use Java documentation pages [Java Official Documentation](#)
  - b. Use online or offline java syntax checkers for example <https://www.compilejava.net/> or <http://www.beanshell.org/>
  - c. Use an IDE like Eclipse IDE, and try to compile the file
2. If the syntax is correct for some Java version then select the correct version in the AU or application level.
  - a. For user defined AU this is expected behavior since this an option manually selected and so the correct Java version should be verified during [JEE - Application qualification specifics](#)
  - b. For automatically created AU, then this may be a problem during application delivery, please check DMT and any alerts using [Delivery Manager Tool - Package - Validation](#)
3. If the syntax error is genuine for the , this is an expected behavior.
4. If the syntax error is not genuine, contact [CAST Technical Support](#) with the [Relevant Input](#) to reproduce issue, for root cause investigation.

#### Notes/comments

#### Related Pages