

CMS Snapshot Analysis Component

*Purpose

This page provides information and troubleshoot problems related to CMS Snapshot/Analysis.

CMS Snapshot/ Analysis is a component of CAST AIP that helps you to run analysis of an application and generate a snapshot.

How to generate a Snapshot?

1. Applications View : Right Click Applications View ->Click Take a Snapshot of the Application to generate a snapshot
2. Execute Tab : To generate snapshot,click Take a Snapshot of the Application

How to run Analysis?

1. Execute Tab : To run analysis on the application,Click Run Analysis only
2. Applications View : Right Click Applications View ->Click Run Analysis only
3. Analysis Unit Editor: Run Analysis on the current Analysis Unit will run an analysis on the current Analysis Unit (The analysis unit selected from the list of analysis units)

For more information, refer to:

- Official 8.0 Documentation - [Execute the Analysis](#)
- Official 8.1 Documentation - [Execute the Analysis](#)
- Official 8.2 Documentation - [Execute the Analysis](#)
- Official 8.3 Documentation - [Execute the Analysis](#)

CAST-MS help->How to -> Regular Audience ->Run Analysis only,Generate Snapshot

[Information Guides](#) > [CMS Snapshot Analysis](#)

*Observed in CAST AIP

Release	Yes/No
8.3.x	✓
8.2.x	✓
8.1.x	✓
8.0.x	✓
7.3.x	✓
7.2.x	✓
7.0.x	✗

*Observed on RDBMS

RDBMS	Yes/No
Oracle Server	✓
Microsoft SQL Server	✓
CSS3	✓
CSS2	✓
CSS1	✗

Action Plan

1. Identify the feature where the issue occurs
2. Navigate to the feature where the issue occurs:
 - [CMS Snapshot Analysis - Clean Dependency Dataset](#)
 - [CMS Snapshot Analysis - Compute Analysis Unit Full Content](#)
 - [CMS Snapshot Analysis - Compute Dependency Dataset](#)
 - [CMS Snapshot Analysis - Compute Snapshot](#)
 - [CMS Snapshot Analysis - Configure Snapshot into Dashboard Service](#)
 - [CMS Snapshot Analysis - Create Architecture Model](#)
 - [CMS Snapshot Analysis - Create Snapshot Definition](#)
 - [CMS Snapshot Analysis - Dashboard Automation](#)
 - [CMS Snapshot Analysis - Execute Linker](#)
 - [CMS Snapshot Analysis - Execution Summary](#)
 - [CMS Snapshot Analysis - Finalize Data Flow Security](#)
 - [CMS Snapshot Analysis - Generate Modules](#)
 - [CMS Snapshot Analysis - Run Analyzer](#)
 - [CMS Snapshot analysis - Run Copy Paste Metric Calculation](#)
 - [CMS Snapshot Analysis - Run CSV Generation](#)
 - [CMS Snapshot Analysis - Run Data Flow Security Analysis](#)
 - [CMS Snapshot Analysis - Run Dynamic Link Manager](#)
 - [CMS Snapshot Analysis - Run Escalated Links Calculation](#)
 - [CMS Snapshot Analysis - Run Extensions at Application Level](#)
 - [CMS Snapshot analysis - Run Metrics Calculation](#)
 - [CMS Snapshot Analysis - Run Path Builder](#)
 - [CMS Snapshot Analysis - Run reference pattern](#)
 - [CMS Snapshot Analysis - Synchronize Assessment Model](#)
 - [CMS Snapshot Analysis - Synchronize services](#)
 - [CMS Snapshot Analysis - Synchronize Snapshot List](#)
 - [CMS Snapshot Analysis - Transfer Sources](#)
 - [CMS Snapshot Analysis - Update Sources](#)
 - [CMS Snapshot Analysis - Update SQL XXL Table Size](#)
 - [CMS Snapshot Analysis - Upload snapshots from Dashboard service to measurement service](#)
3. If you do not find the feature that you are looking for above, contact [CAST Technical Support](#) with [Relevant Input](#)

Relevant Input

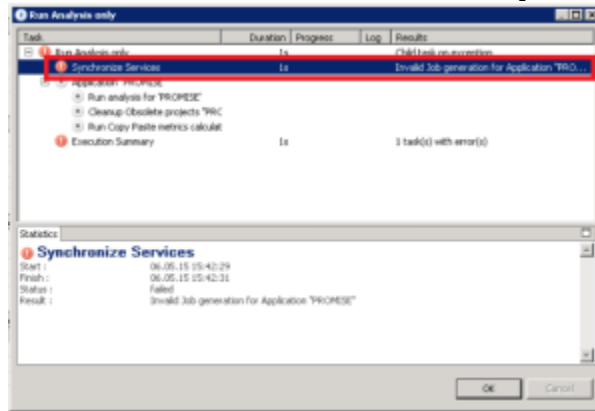
- [CAST Support Tool \(CST\)](#) - alias [Sherlock](#) export with the following options **CAST Bases Checker, Export Logs, Export Configuration files, Export Computer Environment, Export CAST Bases**
- Screenshot of **CAST Management Studio** user Interface describing the error/warning

Identify the feature where the issue occurs

1. If the issue is functional (missing objects, wrong links, defected module etc), you need to find out the CAST Component responsible to handle this functionality. Use [Official documentation](#), especially [Analysis Configuration and Execution](#) and [Measure the Application](#)
2. Else Use [CAST MS log file](#). The screenshot **Take a snapshot of the application** CAST-MS window may also help you identify the feature (Navigate to [Use CAST MS User Interface](#) to find out how to identify it) but you will need to confirm your conclusion by [Using CAST MS log file](#) anyway, as an issue may also occur in between two phases shown in the screenshot.

Use CAST MS log file

1. Open the CAST-MS log file located in [CAST MS Log file path](#).
2. Go to the end of the CAST-MS log file
3. Search for the first **ERR:** statement:
 - a. Move up and search for the first **starting Task**. The starting Task line give the feature where the issue occurs.
 - b. Make sure that between the line **ERR:** and the line **starting Task** there is no line giving the **Execution Result=success** status of a command line. If there is such line, then the issue occurs in the **CAST Management Studio task window** and not in the Feature define in the line **starting Task**. Here are two examples to illustrate the previous point:
 - i. The CAST task window shows that the issue occurs during the feature synchronize services:



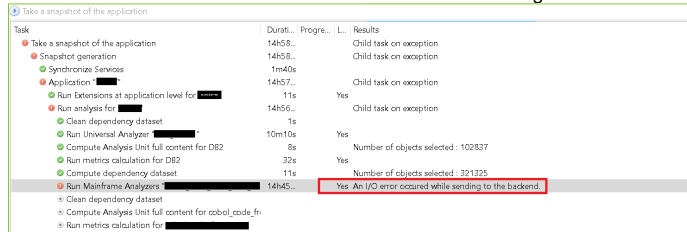
ii. In the CAST MS log file, the feature defined in the line starting Task is "Synchronize Services"

```

18 INF: 2015-05-06 15:49:11: Initializing logging context in a new thread. Logging.runInNewThreadContext should be used instead
19 INF: 2015-05-06 15:49:11: Initializing logging context in a new thread. Logging.runInNewThreadContext should be used instead
20 INF: 2015-05-06 15:49:11: starting Task Run Analysis only
21 INF: 2015-05-06 15:49:11: starting Task Synchronize Services The Starting feature Synchronize Services
22 INF: 2015-05-06 15:49:11: document saved
23 INF: 2015-05-06 15:49:11: document saved
24 INF: 2015-05-06 15:49:11: Loading ini file: c:\ProgramData\Application Data\CAST\CAST\7.2\CWPProfileConnection.INI
25 INF: 2015-05-06 15:49:11: UserProject: "PTES_TEST" saved in F:\PTES_TEST_Local
26 INF: 2015-05-06 15:49:11: document saved
27 ERR: 2015-05-06 15:49:13: Invalid Job generation for Application "PTES_TEST" The Error Message
28 com.castsoftware.java.exceptions.JobGenerationException: Invalid Job generation for Application "PTES_TEST"
29 com.castsoftware.pmc.actions.application.UpdateLocalDatabase.generateJobs(UpdateLocalDatabase.java:222)
30 com.castsoftware.pmc.actions.application.UpdateLocalDatabase.executeAtomic(UpdateLocalDatabase.java:151)
31 com.castsoftware.pmc.actions.localService.Synchronize.synchronizeUserProjects(Synchronize.java:318)
32 com.castsoftware.pmc.actions.localService.Synchronize.synchronizeDatabase(Synchronize.java:127)
  
```

iii. There is no **Execution Result=success** status between the line ERR and the line starting Task, then the issue occurs in the feature "Synchronize Services"

iv. In the CAST task window shows that the issue occurs during the feature "Run Analyzer"



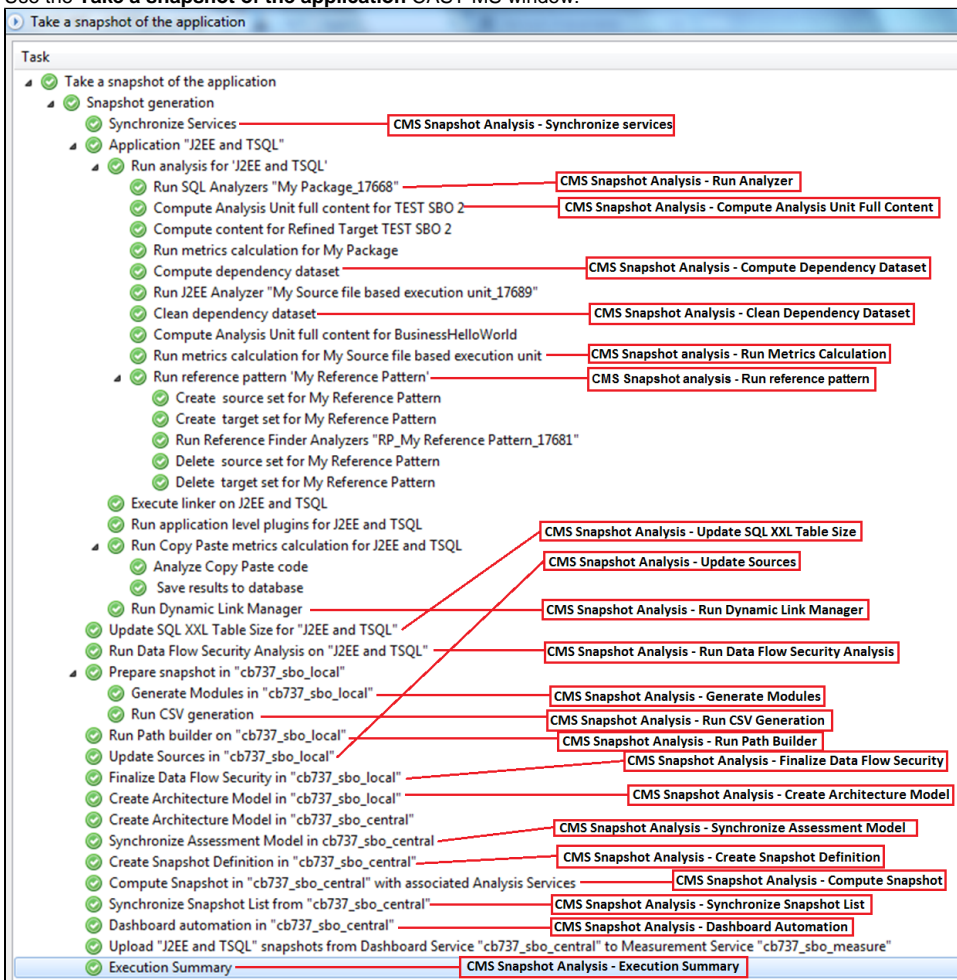
v. In the CAST MS log file, the feature defined in the line starting Task is "Run Analyzer", but between the line ERR: there is Execution Result=success, then the feature involved is CAST Management Studio

```

1987 INF: 2018-06-04 16:09:12: No associated log file
1988 INF: 2018-06-04 16:09:12: Running Task Compute Dependency dataset
1989 INF: 2018-06-04 16:09:12: Starting Task Run Mainframe Analyzers "cbcol_code_from_07N_34267" ← LINE Starting Task
1990 INF: 2018-06-04 16:09:12: C:\Program Files\CAST\7.3\amazon.exe -CONNECTION_PROFILE("MIDRICH-FFFF51312282 on CastStorageService.moller_local")
1991 -RUN_AU(151,453), C:\ProgramData\CAST\CAST\7.3\amazon.exe -CONNECTION_PROFILE("MIDRICH-FFFF51312282 on CastStorageService.moller_local") -MARRIED(453)
1992 -LOG(C:\ProgramData\CAST\CAST\7.3\amazon.exe, a snapshot of 1507\cbcol_code_from_07N_34267\20180606155654.cbcol_log, TRUNCATE)
1993 -TARGET_STORAGE("C:\ProgramData\CAST\CAST\7.3\amazon.exe", "C:\ProgramData\CAST\CAST\7.3\amazon.exe", "20180606155654.cbcol_log", TRUNCATE)
1994 -LOG(C:\ProgramData\CAST\CAST\7.3\amazon.exe, a snapshot of 1507\cbcol_code_from_07N_34267\20180606155654.cbcol_log, TRUNCATE)
1995 INF: 2018-06-06 16:09:17: #PMD>About to run JOB_MAINFRAME_ANALYZER job "cbcol_code_from_07N_34267".
1996 INF: 2018-06-06 16:09:17: About to run JOB_MAINFRAME_ANALYZER job "cbcol_code_from_07N_34267".
1997 INF: 2018-06-06 17:46:39: Initializing logging context in a new thread for parent thread 1. Logging.runInNewThreadContext should be used instead
1998 INF: 2018-06-07 06:54:02: ParameterizationHandler: ParameterizationHandler: startElement: unknown element scope
1999 INF: 2018-06-07 06:54:02: #PMD# Execution date=2018/06/07 06:53
2000 INF: 2018-06-07 06:54:02: Execution date=2018/06/07 06:53
2001 INF: 2018-06-07 06:54:02: #PMD# Execution duration=0 days, 14 hours, 45 mins, 45 secs
2002 INF: 2018-06-07 06:54:02: Execution duration=0 days, 14 hours, 45 mins, 45 secs
2003 INF: 2018-06-07 06:54:02: Execution result=success ← Status of the Execution
2004 INF: 2018-06-07 06:54:02: Execution result=success ← Status of the Execution
2005 INF: 2018-06-07 06:54:02: Execution result=success ← Status of the Execution
2006 INF: 2018-06-07 06:54:02: Execution result=success ← Status of the Execution
2007 INF: 2018-06-07 06:54:02: An I/O error occurred while sending to the backend. ← The Error message
2008 ERR: 2018-06-07 06:54:03: An I/O error occurred while sending to the backend. ← The Error message
2009 com.castsoftware.java.jdbc.Connection.throwException(JdbcConnection.java:1243)
2010 com.castsoftware.connection.JdbcConnection.executeQuery(JdbcConnection.java:827)
2011
  
```

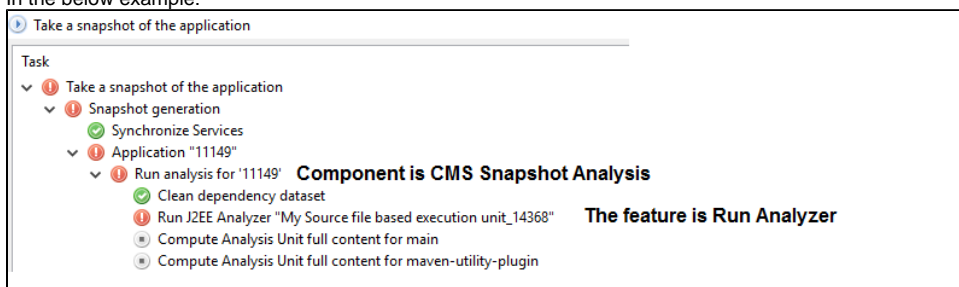
Use CAST MS User Interface

1. Use the **Take a snapshot of the application** CAST-MS window:



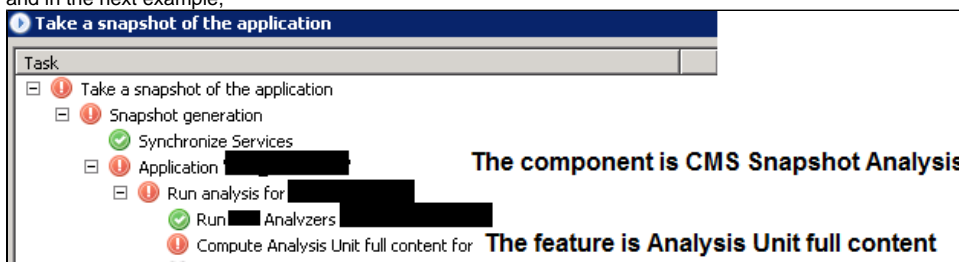
2. To identify the feature(s) where the issue occur(s), proceed as follows: Note that the feature always follows the Component.
 - a. Identify the feature(s) that have failed by checking those which have red icon with exclamation marks.
 - b. Then identify the feature(s) that have succeeded but having non fatal error or warning by checking those which have yellow icon.
 - c. Finally identify the feature that has performance issue, by checking the white icon currently in process for which the time taken for execution is too much high.
3. The icons present just before the title of the feature during snapshot/analysis gives the status of the feature.
 - a. If there is a green icon, the feature has run successfully
 - b. If there is a red icon with exclamation mark, the feature has failed.
 - c. If there is a yellow icon, a feature has succeeded with non fatal error or warning.

4. In the below example:



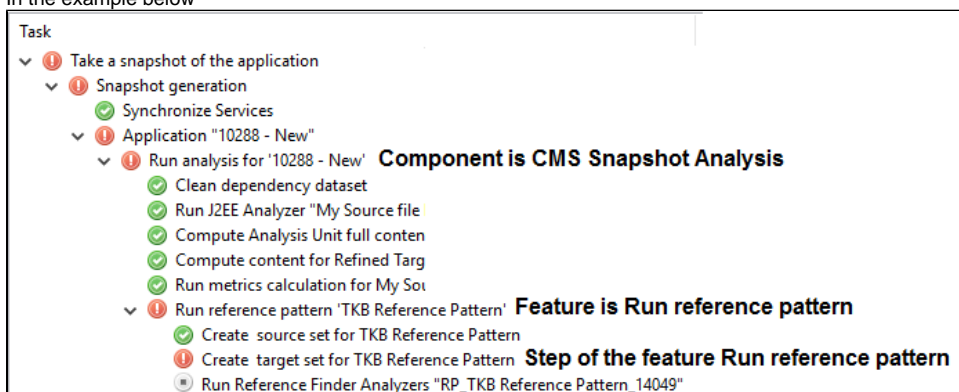
The feature in this example is **Run Analyzer**

and in the next example,



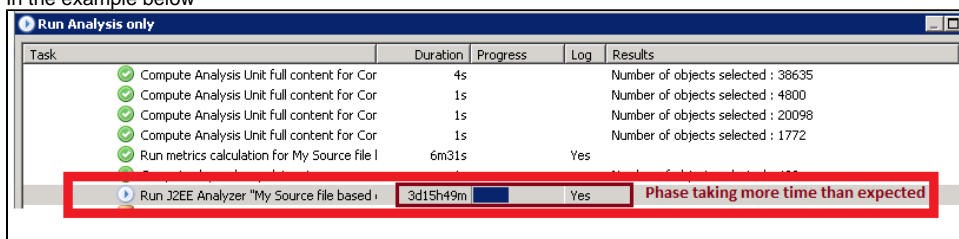
The feature in this example is **Compute Analysis Unit full content**

In the example below



The failure occurs during the step of a feature, the feature in this example is **Run reference pattern**

In the example below



The performance issue in this example is in the feature **Run Analyzer**.

Notes/comments

To get information about different log files, their locations and to understand and explore log files as per the feature, refer to [CAST Management Studio - Information - How to find logs](#)

Related Pages