

CAST Architecture Checker - CLI

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Summary: This section of documentation provides an explanation of how to use the CAST Architecture Checker in an automated and repeatable way.

How does it work?

The CAST Architecture Checker CLI can perform the following actions:

- Check an **Architecture Model** against an Application (its not possible to run automated actions relating to Quality Rule models)

To execute an action via the command line, you must specify the **CAST-ArchiChecker-CLI.exe** executable (rather than the CAST-ArchiChecker.exe executable which is used for the GUI). Command arguments are expressed as verbs introduced by a dash (-), followed by various mandatory arguments that must be enclosed with double quotes (") if containing blank spaces. Some command arguments should appear only once (such as **-connectionProfile** for example), whereas others can appear as many times as necessary.

For options which require a **file path**, if the given path is not absolute, the file will be created into, or read from, the same CAST AIP temporary directory as used by the CAST Management Studio.

Miscellaneous information

- Boolean format: [YES|NO|CANCEL]
- String format: enclose with double quotes if containing blank spaces
- The examples listed below should be placed on one line if they are being used in a batch file.

Command arguments

-checkModel

This option allows you to run a **check model** action (the same action available in the GUI) against an Application. Results are displayed in text format.

Available options

Option	Mandatory	Description
-connectionProfile ["<connection-profile-name>"]	✓	Specifies the name of connection profile to use to connect to the Management schema on which your Application is stored.
-application ["<application-name>"]	✓	Specifies the Application you want to check the Architecture model against.
-model ["<path to Architecture model>"]	✓	Specifies the location (full path) on disk/network storage of the .CASTArchitect file containing the Architecture model you want to check.
-noGUI	✓	Forces the command line to be run without the GUI.

Examples

```
CAST-ArchiChecker-CLI.exe -checkModel -connectionProfile ["<connection-profile-name>"] -application ["<application-name>"] -model ["<path to Architecture model>"] -noGUI
```

```
CAST-ArchiChecker-CLI.exe -checkModel -connectionProfile "back_office_mngt on CastStorageService _ localhost:2282" -application "back_office" -model "C:\CAST\sample.CASTArchitect" -noGUI
```

Results with violations

The **-checkModel results** (i.e. the violations to the Architecture Model) will be printed in the **standard output**, using the following format (note that all the lines containing a violation element will have the prefix "VIOLATION:"). The **separator** that will be used between the different fields **will be a tabulation** ('\t'):

```
(potentially other log lines)
...
Number of violations: X
callerLayer callerId callerName callerType callerFullname calleeLayer calleeId calleeName calleeType
calleeFullname linkId linkType
VIOLATION:callerLayer1 callerId1 callerName1 callerType1 callerFullname1 calleeLayer1 calleeId1
calleeName1 calleeType1 calleeFullname1 linkId1 linkType1
VIOLATION:callerLayer2 callerId2 callerName2 callerType2 callerFullname2 calleeLayer2 calleeId2
calleeName2 calleeType2 calleeFullname2 linkId2 linkType2
...
(potentially other log lines)
```

Results without violations

If the **-checkModel** action does not return any violations, this will be displayed:

```
(potentially other log lines)
...
Number of violations: 0
...
(potentially other log lines)
```

Error codes

Error	Description
EXIT_SUCCESS(0)	Action ran successfully.
EXIT_CONNECTION_FAILURE(1)	An error was raised while attempting to connect to the Management Service schema defined in the connection profile.
EXIT_FAILURE(2)	General error code.
EXIT_INIT_FAILURE(3)	An error occurred during the initialization phase.
EXIT_OPEN_MODEL_FAILURE(4)	An error occurred while attempting to access the Architecture model file (.CASTArchitect).
EXIT_SELECT_APP_FAILURE(5)	An error occurred while attempting to access the Application.
EXIT_SPA_FAILURE(6)	An error occurred during the prepare snapshot operation (this will only occur when running the action against an Application that does not contain any snapshots).
EXIT_CHECK_MODEL_FAILURE(7)	An error occurred during the check model operation.

Logs

All logs for the **-checkModel** action are stored in:

```
%PROGRAMDATA%\CAST\CAST\Logs\ArchiChecker
```