

ACH - Check model



Starting from CAST AIP 8.3.23, **CAST Architecture Checker** will no longer be installed as part of the CAST AIP setup, whether installing CAST AIP from scratch or on a server where a previous release of CAST AIP exists. CAST Architecture Checker has evolved into a **standalone component** where all feature requests and bug fixes are now managed. This standalone component can be downloaded from **CAST Extend** (<https://extending.castsoftware.com/#/search-results?q=archchecker>).

Up-to-date documentation can be found here: [CAST Architecture Checker](#).

Check model

When [working online](#), you can use this option to check whether the source code of your application violates the Architecture Model you have defined with the CAST Architecture Checker. This is the primary goal of the application - i.e. to identify links between objects that may violate your architecture definition.

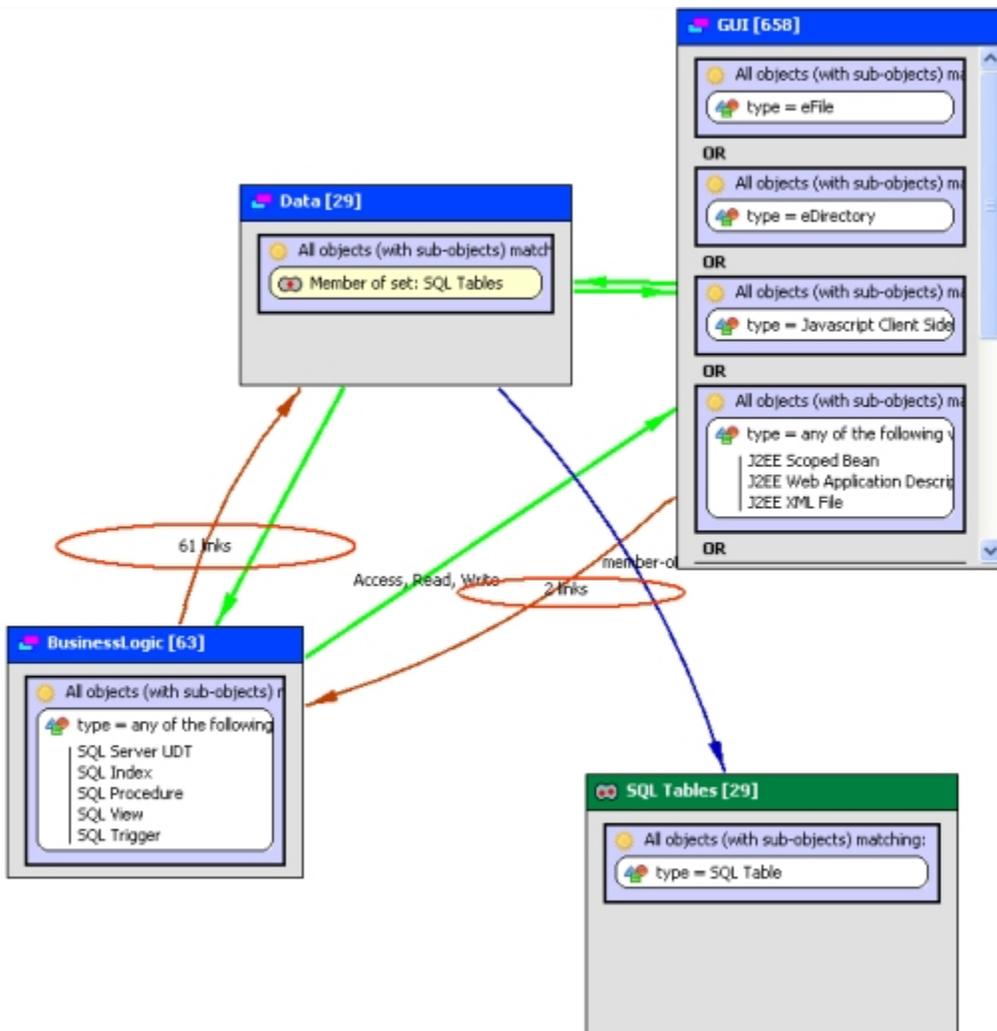
The option can be accessed:

- From the [Action](#) > **Check model** menu
- Using the **Toolbar** icon

When selected, the CAST Architecture Checker will query the CAST Analysis Service (via the current connection to the CAST Management Service) and display any violations to your architecture model using links between layers.

These link types (circled in red below) indicate that an object (or objects) in one layer violate the Architecture Model you have defined:

- The number indicates the number of links between the objects in the two layers that violate your model
- The direction of the arrow indicates the direction of violation (i.e. objects from one layer are calling objects in another layer and that is contrary to your model):



Notes - If you do not see any links between layers on completion of the **Check Model** option, either there are no violations, or the **Composition slider** (see [Options window / Content window](#)) is set to opaque to hide these link types.

Viewing information about the violation

If the **Check Model** option returns violations (links), you can then view information about the objects involved in the violation. To do so:

- Right click the violation link (you need to click the text that indicates the number of links: "XX links").
- A contextual menu will appear - select this option:



- The violation link will change to a colour to indicate that the link is being examined and a panel will appear at the bottom of the screen listing the links involved:

| List of links in model violation "Business" calling "Data" (4 links) | | | | | | | View source | Close |
|--|-------------|---|-------------|-------------|-------------------|---------------------|-------------|-------|
| Caller name | Caller type | Caller full name | Callee name | Callee type | Callee full name | Link type | | |
| getListeAuthors | Java Method | com.castsoftware.bookdemo.javabean.Aut... | authors | SQL Table | CEMAES.CASTPUB... | Use(select) | | |
| getListeAuthorsDelete | Java Method | com.castsoftware.bookdemo.javabean.Aut... | authors | SQL Table | CEMAES.CASTPUB... | Use(delete) | | |
| getListeAuthorsInsert | Java Method | com.castsoftware.bookdemo.javabean.Aut... | authors | SQL Table | CEMAES.CASTPUB... | Use(insert) | | |
| getListeAuthorsUpdate | Java Method | com.castsoftware.bookdemo.javabean.Aut... | authors | SQL Table | CEMAES.CASTPUB... | Use(update,delete) | | |

An explanation of each option is listed below:

| | | |
|------------------------|---|---|
| Column headings | Caller name | Calling object's short name as saved in the CAST Analysis Service |
| | Caller type | Calling object's type as defined by CAST's meta-model. |
| | Caller full Name | Calling object's full name as saved in the CAST Analysis Service |
| | Callee name | Called object's short name as saved in the CAST Analysis Service |
| | Callee type | Called object's type as defined by CAST's meta-model. |
| | Callee full name | Called object's full name as saved in the CAST Analysis Service |
| | Link type | Type of link between the calling and called objects. |
| View source | <p>Use this option to view the source code of the selected object as stored in the CAST Analysis Service. The source code will be displayed in the Source Code tab (see Main window for more information).</p> <p>Notes</p> <ul style="list-style-type: none"> - This option relies on the CAST Management Studio option Always upload Source Code for viewing in CAST Dashboard being set to true (this is the default position). - Some items listed are in fact folder items or maybe part of a compiled JAR file (for example), and as such their source code is not visible. | |
| | Closes the current panel. | |

Column filtering

You can also use the Filter icon in each column heading to sort and filter according to content:

Contains

Case sensitive

MEUDON

Clear Close

- Choose the filter type in the drop down list
- Choose whether the criteria will be applied using case sensitive text or not.
- Enter the filter text.

Only content that matches the chosen criteria will be displayed.

Notes - If you are not [working online](#), you will be prompted to [connect](#).