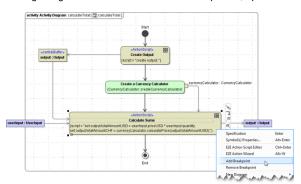
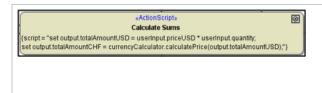
Managing Breakpoints and Exceptions

Having navigated to the action that is to be inspected, open the context menu of the concerning action.



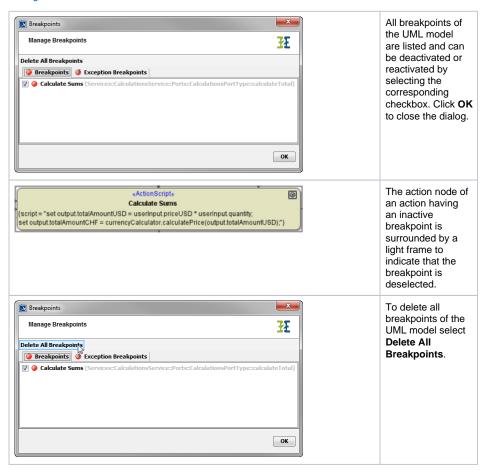
Select Add Breakpoint to add a breakpoint and Remove Breakpoint to remove one.

To set a breakpoints it is not relevant whether the service is running or not.



The action node of an action having an active breakpoint is surrounded by a dark frame to indicate the breakpoint.

To get an overview on all breakpoints defined open the Breakpoint Manager window by clicking in the Debug tab.

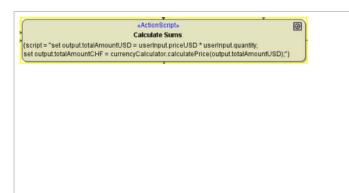


On this Page:

- Exception Breakpoints
- View Dump File

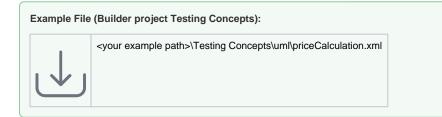
Related Pages:

- Using the Debug View
- Inspecting the Callstack
- xUML Service Dump



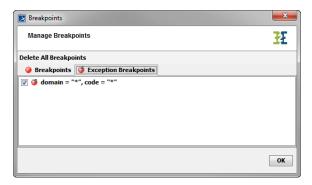
If the xUML Runtime stopped service execution on a breakpoint the corresponding activity diagram opens and the breakpoint halted on is indicated by a yellow frame. If the UML model of the service is not open in MagicDraw, the corresponding XML file will be opened as well.

Breakpoints may be set on all executable UML elements (such as action nodes, guards, call operation actions, ...) and on initial nodes. Breakpoints may not be set on parameters and objects, action flows, ... and on final nodes.



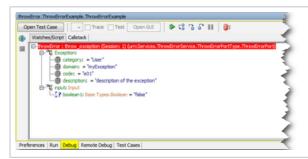
Exception Breakpoints

The Breakpoint Manager contains an additional tab to manage exception breakpoints. In the **Exception Breakpoints** tab, a default exception breakpoint is set:

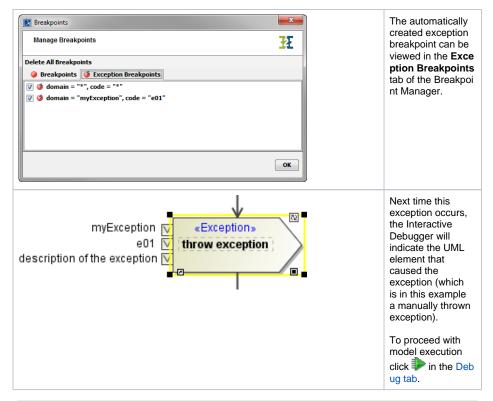


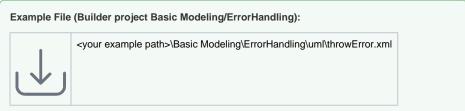
Disable the checkbox if you want to deactivate the default exception breakpoint.

If an exceptions is thrown during model execution in debug mode, the **Interactive Debugger** stops at that point and creates an exception breakpoint.



The topmost tree node shaded in red indicates, that the Interactive Debugger stopped on an exception. The exception details are displayed.

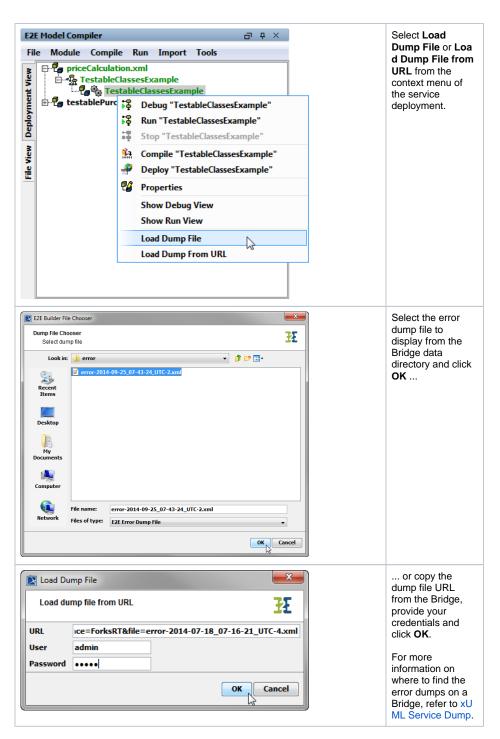




View Dump File

In the service preferences of xUML services running on the Bridge, it is possible to set the flag Dump Context on Error. Each time the xUML service throws an exception, actual call stack and data is logged in a trace file.

These dump information can be viewed with the Interactive Debugger as a sort of exception breakpoint snapshot.



The Embedded xUML Runtime window opens and shows an additional tab displaying the error dump information. The exception details can be inspected as described in section Exception Breakpoints and in Inspecting the Callstack. The erroneous action script statement is marked in red.



Additionally, the Debugger shows the UML element where the error occurred:

