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.



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

Breakpoints	All breakpoints of
Manage Breakpoints Delete All Breakpoints Breakpoints Calculate Sums (Services:CalculationsService:Ports:CalculationsPortType::calculateTotal) OK	the UML model are listed and can be deactivated or reactivated by selecting the corresponding checkbox. Click OK to close the dialog.
<actionscripts Calculate Sums (script = "set output totalAmountUSD = userInput priceUSD * userInput quantity; set output totalAmountCHF = currencyCalculator.calculatePrice(output totalAmountUSD);"}</actionscripts 	The action node of an action having an inactive breakpoint is surrounded by a light frame to indicate that the breakpoint is deselected.
Image Breakpoints Image Breakpoints Image Breakpoints Image Breakpoints	To delete all breakpoints of the UML model select Delete All Breakpoints .

On this Page:

- Exception BreakpointsView Dump File

Related Pages:

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

Calculate Sums Calculate Sums (script = "set output totalAmountUSD = userInput, priceUSD * userInput, quantity; set output totalAmountCHF = currencyCalculator.calculatePrice(output.totalAmountUSD);")	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 n	odes, guards, call

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.

Example File	e (Builder project Testing Concepts):
↓	<your example="" path="">\Testing Concepts\uml\priceCalculation.xml</your>

Exception Breakpoints

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

Reakpoints	×
Manage Breakpoints	₹
Delete All Breakpoints	
Ø Breakpoints Streeption Breakpoints	
✓	
	ОК

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.



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.

E2E Model Compiler	Select Load
File Module Compile Run Import Tools Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example Image: Stable Classes Example <	Dump File or Loa d Dump File from URL from the context menu of the service deployment.
E2E Builder File Chooser Dump File Chooser Select dump file Look in: error Items Desktop Wy Documents With File name: error-2014-09-25_07-43-24_UTC-2.xml File name: error-2014-09-25_07-43-24_UTC-2.xml Itexvork File of type: E2E Error Dump File	Select the error dump file to display from the Bridge data directory and click OK
Load Dump File Load dump file from URL URL rce=ForksRT&file=error-2014-07-18_07-16-21_UTC-4.xml User admin Password •••••• OK Cancel	or copy the dump file URL from the Bridge, provide your credentials and click OK . For more information on where to find the error dumps on a Bridge, refer to xU ML Service Dump.

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.

E priceCalculation.Testable	ClassesExample.TestableClassesEx	ample		
priceCalculation.TestableClass	estxample.TestableClassesExampl			E ×
Watches/Script - Session: 3	Callstack - Session: 3			
Construction of the second secon	size (statement 1) (Session:3) (orm ternal" 4" Parameter #2 of the VarArg functio oast = "20"	Services Gilstinition Service (Lissees Gurren) n HuL_f1084569321h1140997025.5_2 return	et meditor = if (pitor.existi) and pitor >= 0.3) Une pitor = oilf.exchangelate alse =1.17	
Preferences Run Dehun R	emote Debug Test Cases WSDL	error-2014-09-25 07-43-24 UTC-2 vml -X	1	
Freierences Kan Debug K	choice being reac cases Habe	una 2014-03-25_07-45-24_01C-2.cm	1	

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

