

Education Lesson 3 MD18

Goal of this Lesson

This document is one of three documents, which serves as a self learning program for developing a Web service with E2E Bridge®. The education leads you through a development process divided into three lessons, which will teach you to build services based on the E2E Bridge platform.

Welcome to lesson 3 of the E2E Education. By reading this document, you will learn

in the first iteration	<ul style="list-style-type: none">• how to draw more complex class diagrams• how to reuse activity diagrams• how to copy activity diagrams• how to use decisions• how to design a SOAP interface from scratch• how to work with arrays• how to use value pins• how to define iterations with an expansion region• how to use transformations• how to use static operations within action script• how to manage test cases
in the second iteration	<ul style="list-style-type: none">• how to read a file• how to use a backend adapter• how to use an alias• how to map XML data to objects• how to exchange messages with an external SOAP Service• how to use the E2E Action Wizard

The goal of this lesson is to model a Web service that receives a search request. The requested items are searched in an XML data source file. For each found record a currency conversion is performed. The necessary exchange rate is received from an external SOAP Service. If the search is successful, the Web service sends the search result back to the client.

Documentation Map

The BRIDGE is delivered with comprehensive documentation. Apart from this self-study, the BRIDGE also comes with many examples you can have a look at. Each feature is subject of an example that is ready to run.

This chapter provides an overview about all documentation available after installation. How to access the xUML examples is explained on [Unzipping Examples](#). The complete documentation is available [online](#).

Document		Content
BRIDGE Education Lesson 1-3		Comprehensive self-learning guide, which leads you through all steps of creating a Web service. Additionally, it provides conceptional information for each topic.
Bridge User Guide		Comprehensive guide explaining concepts and usage of the BRIDGE, which comprises all management tasks to run the BRIDGE and deployed xUML, Node.js and Java services.
Reference Guides	Reference Guide	Comprehensive reference guide for xUML modelers containing information about concepts, modeling, xUML Action Language, add-ons, and import/export mechanisms.
	Node.js Services Reference Guide	Guide to Scheer PAS Node.js modules that can be used by Node.js modelers in BRIDGE context.



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Utilities	<ul style="list-style-type: none"> • Dashboards • Monitoring Service With UI • RESTifier for SAP • WSDL Generator for SAP RFC 	Guides to BRIDGE utilities that may be helpful for modelers.	
Builder User Guide		Comprehensive guide explaining concepts and usage of BUILDER including all tools like xUML Model Compiler, xUML Model Debugger, and xUML Importers.	
Installation Guides	BRIDGE Installation Guide	<p>Description of the installation of BRIDGE including a troubleshooting chapter. This guide also contains a description of the following firmware installations:</p> <ul style="list-style-type: none"> • BRIDGE SQL Libraries to integrate SQL databases • BRIDGE SAP Libraries to integrate SAP systems • BRIDGE Java Libraries to use Java classes in your service 	
	BUILDER Installation Guide	Description of the installation of the BUILDER including a troubleshooting chapter.	
	ANALYZER Installation Guide	Description of the installation of the ANALYZER.	