

# Using the EntireX Web Services Wrapper

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## Introduction

The EntireX Web Services Wrapper is a wizard that generates Web services from Software AG IDL, XML/SOAP mapping files or Natural subprogram files. The generated result is a Web service archive (.aar) that contains the relevant artifacts of the Web service such as an XML/SOAP mapping file (.xmm), WSDL file and additional configuration files. The Web service archive can be deployed for execution by the wizard or - in an extra deployment step - in a Web Services Stack with the EntireX XML/SOAP Listener runtime.



The format of the generated descriptions is compliant with the Web Services Description Language (WSDL 1.1 - <http://www.w3.org/TR/wsdl>).

### Note:

If the WSDL generation format document/literal is used, the generated Web service is compliant with WS-I Basic Profile 1.1 (see <http://www.ws-i.org>).

Before the wizard is started for the first time, you should initialize the preference pages **Window > Preferences > Software AG > EntireX** and **Window > Preferences > Software AG > EntireX > Web Service Wrapper** with values appropriate for your environment.

Note also that some of the preferences of the XML Mapping Editor are applicable to Web service generation, in particular WSDL style and namespace definitions. See *Mapping Parameters Page* under *Using the XML Mapping Editor*.

## Generate Web Services from Software AG IDL File

### > To generate a Web service

1. Select the IDL file to be processed. If there is a related client-side mapping file (Natural | COBOL), this is also used (internally).
2. From the context menu of the IDL file, choose **Properties**.
  - Change the EntireX settings if necessary.
  - If necessary, change the Web service generation settings using the WSDL tab (**Service Name** and **Service URL**).
  - Choose **OK** to leave the **Properties** dialog.
3. From the context menu of the IDL file, choose **Web Service > Generate Web Service**.
4. You can enter a service name. The default name is the name of the selected IDL file.
5. If you deselect **Use defaults** for the **Configure EntireX service** section, you can select the following configuration items:
  - If you select **general service parameters** (XML-INIT.xml), an additional configuration page will be appended. The parameters on this page are described in *Administering the EntireX XML/SOAP Listener* under UNIX | Windows.
  - If you select **Set connection and security parameters in mapping file**, an additional configuration page will appear by clicking **Next**.
  - If you select **Send connection and security parameters with SOAP message**, an additional configuration page will be appended. The selected parameters will be generated into the SOAP header section of the generated WSDL file. A Web service client will then be able to set these parameters in the SOAP header of the SOAP message.
6. If you select **Deploy service**, an additional configuration page will be appended. See *Deploying EntireX Web Services* under *Writing Web Services Applications* for this dialog.
7. If you select **Register service to CentraSite**, a configuration page will be appended. See *CentraSite Integration* for this dialog.
8. Choose **Next**, enter your configuration parameters and select the methods for which the Web service is to be generated.
9. Choose **Finish** to generate the Web service (mapping file, WSDL file and service archive).

### Note:

You can select more than one IDL file. All selected methods will be merged into one Web service. As result you will get multiple mapping files, one WSDL file and one service archive. Merging does not support the use of the same program name in different libraries.