

Creating VBI Transaction Studio Web Services Clients
Verastream Bridge Integration



Attachmate
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Verastream Bridge Integrator 5.0

How to Create VBI Web Services from the Transaction Studio

This is a brief overview of the VBI Web Services, with a focus on how to create clients for Java and .NET. Web services being what they are, you are not limited to Java and .NET; any modern language will have tools for creating Web service clients.

Where to get the WSDL

When you use VBI's Transaction Studio to access host transactions, the project generated is JAX-WS compliant. Verastream Process Designer R5 SP1 contains a Web services container that exposes any JAX-WS standard Java Web service. You can simply create a VBI project, drop your generated VBI JAR file (`project_name.jar`) along with the `BridgeAPI.jar` into the Process Designer Web services container, install `location/ProcessServer/services/wscontainer/lib` and restart the Process Server.

You can then use the Web service's WSDL to generate Web service Java or .NET clients. To access the required WSDL you would enter a URL like this:

```
http://vpdserver:9999/<project_name>Service?wsdl
```

Generating Java Code from the WSDL

To create Java code from a WSDL, you need to use JAX-WS (Java API for XML Web Services). The Reference Implementation of the JAX-WS (JAX-WS RI) is developed as part of an open source project called GlassFish. At the time of this writing, 4.1 was available for download here: <https://glassfish.java.net/>.

The download is an executable JAR file that extracts the JAX-WS RI binaries, documentation, and samples to a directory named `jaxws-ri`. In the `bin` subdirectory, is the `wsimport` tool, which generates Java portable artifacts from the WSDL.

The JAX-WS RI is now part of Java SE 6, but GlassFish includes additional documentation that you might find useful. The GlassFish installation also includes support for running `wsimport` as an Ant task. At this writing, 2.1 JAX-WS tool documentation can be found here: <http://docs.oracle.com/javase/7/docs/technotes/tools/share/wsimport.html>. Generate code by running the `wsimport` tool: `wsimport WebSvcBridgeAPI.wsdl`.

Generating .NET Code from the WSDL

The example code shown in this chapter was written and tested with .NET Framework 2.0. At the time of this writing, version 3.0 and 3.5 have been released. In these releases, there are improvements to Web services development that have not been explored in this document.

Generation of Web services code is done automatically by Visual Studio when you add a Web reference to your project. However, you can use `WSDL.exe` to generate code explicitly. In Visual Studio, when you import a Web reference, you may not see the newly generated code, by default.

How to Create VBI Web Services

You must click Show All Files in the Solution Explorer and expand the Web reference to see the datasource files and Reference.cs. However, typically you won't need access to these files.