

Enabling Web Service Development Support Through a Dedicated Facet

This approach is applicable if you are going to develop a Web service of one of the following types:

- *GlassFish/JAXWS2.X RI/Netro 1.X/JWSDP2.0.*
- *Apache Axis.*

IntelliJ IDEA creates the relevant Web services module structure, downloads and adds all the necessary libraries automatically through two **dedicated facets**:

- *Web* facet enables Web application development.
- *Web Services* facet enables development of the Web service's server side.

To enable Web Service development support through a dedicated facet, do one of the following

- **Start crating a Java module** with the dedicated *Web* and *Web Services* facets. Besides setting up the relevant module structure and providing all the necessary libraries automatically, IntelliJ IDEA will create a sample package with a `HelloWorld` class, which you can use as an example or populate it as necessary to develop your application.
- **Add the dedicated facets** to an existing module.

When you create a new module from scratch, the *Web* facet is created automatically as soon as you create the *Web Services* facet. When you add facets to an existing module, you need to create the *Web Application* facet first. In either case, IntelliJ IDEA will download the predefined WS engine implementation version.

To create a module for a web service application

1. Create a Java module from scratch.

On the first page of the wizard, select **Java Module**, not **Web Module**. (The Web module type is for developing web applications using programming languages other than Java, for example, **PHP**, or **JavaScript**, or **markup languages**.)


2. On the fourth, **Technologies**, page of the wizard, select the **Web Services** check box.

A *Web Services* facet requires a parent *Web* facet. The **Web Application** check box is selected automatically as soon as you select the **Web Services** check box.

3. In the **WebServices** area, select the desired WS engine implementation in the **Version** drop-down list. The available options are:

- *GlassFish/JAX-WS 2.X RI/Metro 1.X/JWSDP 2.0* for developing JAX-WS Web services.
- *Apache Axis* for developing Apache Axis Web services.
- *RESTful Web Services* for developing RESTful Web services.

4. The **Libraries** area shows all the files that are required for development but are currently missing in the module. To configure the required libraries, do one of the following:

- To have the missing files downloaded and arranged in a library, select the **Download Missing Files** to check box and specify the target location in the text box below. Type the path manually or click the **Browse** button  and choose the desired location in the **Directory for Downloaded Libraries** dialog box, that opens. Then specify the name of the library to be created and its level: *project*, *module*, or *global*.

The library constituted of the downloaded files will be available for using in other modules.

- To use one or several libraries, created from previously downloaded files, click the **Use Libraries** button and select the check boxes next to the desired WS engine implementation libraries in the **Select Libraries** dialog box, that opens.
- To have specific files from various locations used, click the **Pick files from disk** button and specify the desired files in the **Select Paths** dialog box, that opens.

For multiple selection, keep **Ctrl** pressed.

To add the dedicated facets to an existing module

1. Open the **Module Settings** dialog box.

2. In the **Modules** node, right-click the relevant module.

3. To add a *Web Application* facet, choose **New** from the context menu. In the drop-down list of available facets, select **Web**.

4. Right-click the **Web Facet** node and select **New** on its context menu.

5. From the **New** context menu, select **Web Services**.

6. In the **Choose WS Engine** drop-down list, select the desired Web service type. The available options are:

- *GlassFish/JAX-WS 2.X RI/Metro 1.X/JWSDP 2.0* for developing JAX-WS Web services.
- *Apache Axis* for developing Apache Axis Web services.
- *RESTful Web Services* for developing RESTful Web services.

7. If some additional libraries are required, the corresponding warning message is displayed. Click **Fix**. The necessary libraries will be downloaded and added automatically.

See Also

Concepts:

- [Facet](#)

Procedures:

- [Web Services](#)
- [Creating Projects](#)
- [Adding Modules to a Project](#)
- [Configuring Module Dependencies and Libraries](#)
- [Web Service Clients](#)
- [Web Services](#)

Reference:

- [Web Services Reference](#)
- [Project Structure](#)
- [New Project Wizard](#)
- [Web Services Facet Page](#)

Web Resources:

- [Developer Community](#) 