

Configuring JAX-WS engine

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Apache Geronimo is distributed with two JAX-WS engines: [Apache Axis2](#) and [Apache CXF](#).

The Geronimo-Jetty assembly defaults to use CXF as its JAX-WS engine whereas the Geronimo-Tomcat assembly uses Axis2.

There are two ways to configure which JAX-WS engine should be used:

- [#Setting a system property](#)
- [#Changing the configuration file](#)

Setting a system property

To configure **Axis2** as Geronimo's JAX-WS engine, set the **org.apache.geronimo.jaxws.provider** system property to "axis2". For example:

On a Windows system: `set GERONIMO_OPTS=-Dorg.apache.geronimo.jaxws.provider=axis2`

On a Unix-like system: `export GERONIMO_OPTS=-Dorg.apache.geronimo.jaxws.provider=axis2`

To configure **CXF** as Geronimo's JAX-WS engine, set the **org.apache.geronimo.jaxws.provider** system property to "cxf". For example:

On a Windows system: `set GERONIMO_OPTS=-Dorg.apache.geronimo.jaxws.provider=cxf`

On a Unix-like system: `export GERONIMO_OPTS=-Dorg.apache.geronimo.jaxws.provider=cxf`

Changing the configuration file

To configure **Axis2** as Geronimo's JAX-WS engine, modify the `<GERONIMO_HOME>/var/config/config.xml` file in the following way:

1. Remove the **condition** attribute and add the **load="false"** attribute to **org.apache.geronimo.configs/cxf-deployer//car** module.
2. Remove the **condition** attribute and add the **load="true"** attribute to **org.apache.geronimo.configs/axis2-deployer//car** module.

To configure **CXF** as Geronimo's JAX-WS engine, modify the `<GERONIMO_HOME>/var/config/config.xml` file in the following way:

1. Remove the **condition** attribute and add the **load="false"** attribute to **org.apache.geronimo.configs/axis2-deployer//car** module.
2. Remove the **condition** attribute and add the **load="true"** attribute to **org.apache.geronimo.configs/cxf-deployer//car** module.

SAAJ engine

By default, CXF will use Sun's SOAP with Attachments API for Java (SAAJ) implementation. That implementation requires Sun JDK. There are a few options for platforms where Sun JDK is not available:

1. Switch to Axis2 SAAJ implementation. In Geronimo you can configure which SAAJ provider should be used by setting the **org.apache.geronimo.saa.provider** system property. To use Axis2 SAAJ implementation set the **org.apache.geronimo.saa.provider** system property to "axis2". For example:

On a Windows system: `set GERONIMO_OPTS=-Dorg.apache.geronimo.saa.provider=axis2`

On a Unix-like system: `export GERONIMO_OPTS=-Dorg.apache.geronimo.saa.provider=axis2`

2. Add Sun XML parser jar to the classpath. Download: <https://maven-repository.dev.java.net/nonav/repository/com.sun.xml.parsers/jars/jaxp-ri-1.4.2.jar> and put it in the `<GERONIMO_HOME>/lib/endorsed/` directory.

Please note that these options have not been tested.