

Installing EntireX Java Components under z/OS UNIX

This chapter describes how to install EntireX Java components under z/OS UNIX. It covers the following topics:

- Scope
 - Installation Steps
 - Configuring and Administering the Java Components
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Scope

The following EntireX Java components can be used under z/OS UNIX:

- Java RPC Server/Client
- XML/SOAP RPC Server/Client
- WebSphere MQ RPC Server
- WebSphere MQ Listener
- RPC-ACI Bridge
- XML/SOAP Listener
- CICS ECI RPC Server
- IMS Connect RPC Server

Installation Steps

➤ To install EntireX Java components under z/OS UNIX

1. Unload the delivered installation medium to your DASD device. See *Copying the Contents of the Installation Medium to Disk*.
2. On your UNIX system, create a directory for the installation. For example:

```
mkdir SoftwareAG; cd SoftwareAG;
```

3. Copy the file `hlq.EXXvrs.TAR` to the created directory, where `hlq` is your high-level qualifier and `vrs` is the product version, release and service pack:

```
tso "oput 'hlq.EXXvrs.TAR' 'exxvrs.tar' binary"
```

4. Unpack the TAR file:

```
tar xvf exxvrs.tar
```

Now you have created a folder structure with subdirectories `EntireX` and `WS-Stack` which contain all necessary files in several subdirectories. In the `EntireX/bin` directory you have an environment file `exx_zos_env.sh`, which you can source to set your environment. Before sourcing the environment, edit this file and set the environment variable `EXXDIR` to your `EntireX` directory. Then you can enter the following command (note the space after the initial period):

```
. ./exx_zos_env.sh
```

Check your Java installation and edit the file `exxjenv.sh` in the `EntireX/bin` directory. You need to set the `JAVA_HOME` environment variable to your corresponding Java installation.

Bourne shell scripts are provided in the `EntireX/bin` directory to start the different RPC servers.

To use the XML/SOAP RPC Server, configure the path to the `example.xmm` file. Edit the file `EntireX/config/entirex.xmlrpcserver.configuration.xml` and adapt the pathname in the `exx-xmm` tag. This file is already in EBCDIC format and the encoding has been set to CP037. If you need a different encoding, change this setting accordingly.

Configuring and Administering the Java Components

The following links provide more information on configuring and administering the `EntireX` Java components under UNIX.

EntireX Java Component	More Information
Java RPC Server	<i>Administering the EntireX Java RPC Server under UNIX Windows</i>
WebSphere MQ RPC Server and WebSphere MQ Listener	<i>EntireX WebSphere MQ RPC Server</i>
RPC-ACI Bridge	<i>EntireX RPC-ACI Bridge</i>
XML/SOAP RPC Server	<i>Administering the EntireX XML/SOAP RPC Server under UNIX Windows</i>
XML/SOAP Listener	<i>Configuring the XML/SOAP Listener under UNIX Windows</i>
CICS ECI RPC Server	<i>CICS ECI RPC Server</i>
IMS Connect RPC Server	<i>IMS Connect RPC Server</i>

The following table shows the provided start script and configuration file for each RPC server.

RPC Server	Script in EntireX/bin	Config File in EntireX/config
Java RPC Server	jrpcserver.bsh	entirex.javarpserver.properties
XML/SOAP RPC Server	jxmlrpcserver.bsh	entirex.xmlrpcserver.properties
WebSphere MQ RPC Server	wmqbridge.bsh	entirex.wmqbridge.properties
WebSphere MQ Listener	wmqlistener.bsh	entirex.wmqbridgelistener.properties
RPC-ACI bridge	jrpcacibridge.bsh	entirex.rpcacibridge.properties
CICS ECI RPC Server	cicseciserver.bsh	entirex.cicseeci.properties
IMS Connect RPC Server	imsconnectserver.bsh	entirex.imsconnect.properties

For the XML/SOAP Listener you need to set up a Web server and install Software AG Common Web Services Stack to this Web server. See *Deployment of Web Services Stack Web Application Runtime* in section *Administration* of the *Web Services Stack* documentation. After successful installation, copy or upload `<inst_dir>/EntireX/classes/entirex.jar` to the WEB-INF/lib folder in the Web Services Stack application folder.