Configuring Java Access

When installing the BRIDGE all additional libraries (SQL Libraries, SAP Libraries, and Java Libraries) are being installed as well. After a successful installation, the BRIDGE is capable to use imported Java classes.
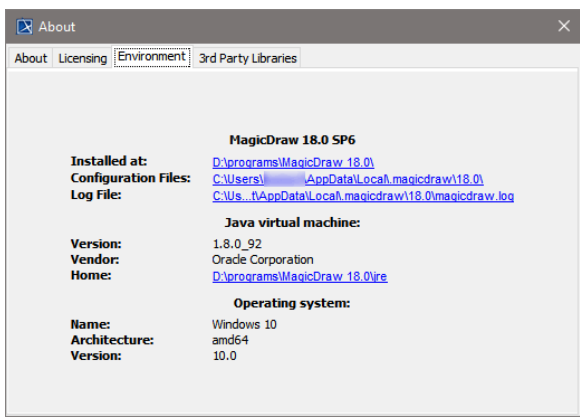In some cases, you may want the xUML RUNTIME to use a different Java version to run deployed services. This chapter describes how to change Java adapter preferences to run xUML services using Java classes with a particular Java version.

Prerequisites

the BRIDGE has been successfully installed. When running the BRIDGE in server mode (as opposed to workstation mode), the BRIDGE node instance has to be a member of an the BRIDGE domain (see Installation Modes and BRIDGE Domain).
The developing environment for xUML services (**Scheer PAS** *BUILDER* for MagicDraw) is based on Java.
Thus on the BRIDGE, compiled and deployed xUML services must be run with the **same or higher Java version**. The Java versions of released BUILDER and BRIDGE versions are always matching, unless you changed MagicDraw to run with another Java version.

In MagicDraw, navigate to **Help > About MagicDraw**. Switching to the tab **Environment**, you will find the **Version** of the used Java virtual machine.

In the navigation, select the BRIDGE item of the node instance you want to check the Java preferences of (in this example **e2ebridge.e2e.ch**) and switch to tab **Preferences**.
Select the **Java Adapter** from the drop down list.

The Java Home directory shows the version of the Java Runtime that is used by the xUML RUNTIME (see highlighted area above). The Java versions of MagicDraw and the BRIDGE are matching, as both use the same version 1.6.x.

> ⓘ In the **Runtime Components** section of the **Runtime** tab, you will find the version of the Java Runtime that is used by the BRIDGE (see highlighted area below). This version may differ from the Java version the xUML RUNTIME is using!

e2ebridge.e2e.ch

Preferences | **Logging** | **Runtime** | **Certificate**

System Information

| Scheer PAS BRIDGE | 7.5.1 [linux-64] |
| Operating System | Linux 3.10.0-862.14.4.el7.x86_64 |

Runtime Components

xUML Runtime	2019.6 [BASE,SAPNW]
Node.js	8.16.0
Apache Proxy	2.4.39
Java Runtime Environment	11.0.3 [amd64] [UTF-8]

Changing the Preferences of the Java Adapter

In a browser, open the Web-based user interface of the BRIDGE of the system, on which the Bridge is installed (see Checking the Installation). Enter a user id and password of a user with administration rights (the predefined user **admin**, for instance).
The welcome page is displayed.

In the Navigation, select the Bridge item of the node instance you want to define the Java preferences for (in this example **e2ebridge.e2e.ch**) and switch to tab **Preferences**.
In the drop down list, select the **Java Adapter**.

ⓘ After installation of the BRIDGE, the Java Virtual Machine that is used by the Bridge is initially defined.

You may now change the Java Home directory.

Key	Value

JAVA_HOME	Path to the Java Runtime, e.g. **C:\E2E_BRIDGE_PROG\j2re-11.0.3\win32-64** **Linux:** /opt/e2e_bridge_prog/j2re-11.0.3/linux-64

ⓘ We strongly recommend to use no Java Runtime older than the one that has been installed with the BRIDGE. This ensures that deployed xUML services will run properly.

Using Windows, you can copy the path from Windows Explorer (default directory **C:\E2E_BRIDGE_PROG\j2re-x.x.x\win32-64**).