

COM JAVA BRIDGE FOR ECLIPSE

Short description

Manual to install JACOB (Java COM Bridge) for Eclipse

Requirements

PTV Vissim Modules: COM Interface

Install Eclipse

Download and install standard version of Eclipse:

- Go to <https://eclipse.org/downloads/>
- Download standard Eclipse IDE for Java Developers

Create new Java project

Create a new project in eclipse and project environment:

- Eclipse Menu: **File > New > Java Project**
- Right click on your project in **package explorer > New > Folder > Create new folder** with name LIBS
- Right click on your project in **package explorer > New > Folder > Create new folder** with name NATIVES



Download JACOB COM Library

To use COM in java you need a native COM-bridge like JACOB:

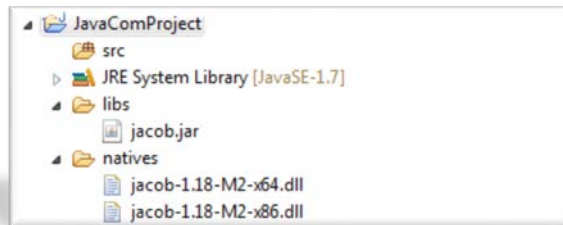
- Go to <http://sourceforge.net/projects/jacob-project/>
- Download current JACOB version
- Extract JACOB-XXX.ZIP

docs	12.01.2015 10:45	Dateiordner	
jacob.jar	28.05.2014 00:49	Executable Jar File	49 KB
jacob-1.18-M2-x64.dll	28.05.2014 00:53	Anwendungserwe...	200 KB
jacob-1.18-M2-x86.dll	28.05.2014 00:53	Anwendungserwe...	164 KB
LICENSE.TXT	11.09.2008 22:42	Textdokument	27 KB
README.txt	06.11.2010 22:14	Textdokument	1 KB

Import JACOB natives into Java Project

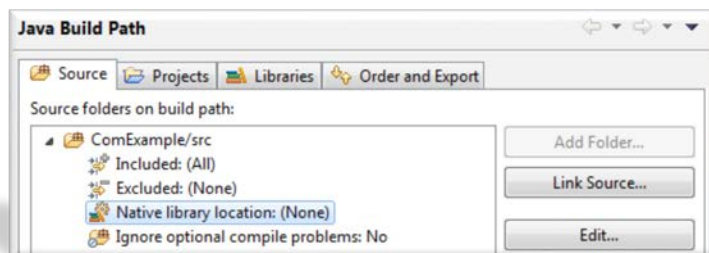
After extracting the JACOB files, we have to import these correctly:

- Copy JACOB.JAR into your libs folder
- Copy all *.DLL from the JACOB archive into your natives folder
(You can copy & paste the files to the package explorer)

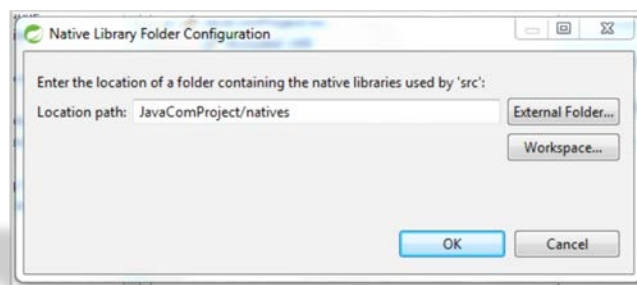


Now we must add the natives folder to the java build path:

- Right click on **java project > Build Path > Configure Build Path**
- Expand **Project > Source folder** (click the small arrow)
- Select Native Library location: **(None)**
- Click **Edit > Button**



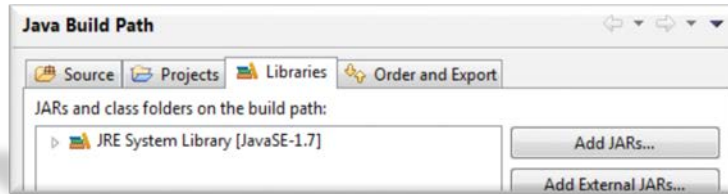
- Click **Workspace...** in Native Library Folder Configuration dialog.
- Select the natives folder from your java project.
- Click **Ok**



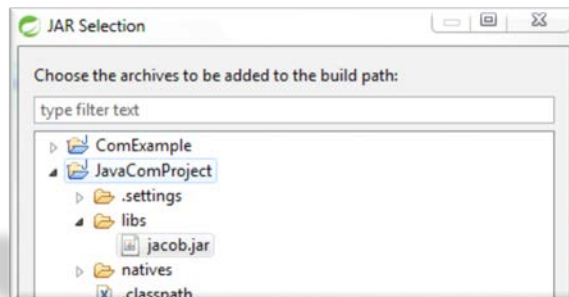
Import JACOB libs into Java Project

After setting the native folder, we have to add the jacob.jar to the build path:

- Open build path configuration again
- Select **Libraries** and click **Add JARs..**



- Select the JACOB.JAR from our libs folder



- Done!

Create Example Java file

Finally we can create a java class with COM functions:

- Right click **Java-Project > New > Class**

Now add some lines to test if our project setup is working:

```
import com.jacob.activeX.ActiveXComponent;
public class JavaComTest
{
    public static void main(String[] args)
    {
        //Create new COM Connection
        ActiveXComponent vissim = new ActiveXComponent("VISSIM.Vissim.800");
        //Call Method BringToFront() to focus VISSIM Window
        vissim.invoke("BringToFront");
    }
}
```

Click **Run** to launch the class.

(Your class name can differentiate, but don't forget the import of com.jacob.activeX.ActiveXComponent)