

Question

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How could we attach external libraries to generated code with Java Gateway Wizard: %ProcessErrorStatic+4^%Net.Remote.Proxy
java.lang.NoClassDefFoundError:

Hello,

We would need some help.

We have a Java project in Eclipse which uses two external libraries, which are referenced as a maven pom.xml dependency.

We created a JAR with all the dependencies included.

We have used the Java Gateway Wizard as follows:

In the image you could see that we have chosen the project's jar, written IP and PORT of Gateway and written all external dependencies' server path separated with semicolons.

It generates the following Ensemble class:

```
Class radarCovidcrearToken.CCAATokenGeneratorTest Extends java.lang.Object [ Procedur
```

```
eBlock ]
{

Parameter IMPORTTIMESTAMP As STRING = "1970-01-01 00:00:00.0";

Method %OnNew(ByRef p0 As %ObjectHandle) As %Status
{
    Quit:'$D(p0) $$$OK
    Quit ..%Constructor(p0,"radarCovidcrearToken.CCAATokenGeneratorTest",0)
}

ClassMethod main(ByRef p0 As %ObjectHandle, ByRef p1 As %ObjectHandle)
{
    Do ..%PreInvokeStatic(p0,"radarCovidcrearToken.CCAATokenGeneratorTest")
    Set x=$zobjexport("main",18)
    Set x=$zobjexport(-1,18)
    Do ..%WriteArray(p0,"[Ljava.lang.String;",p1)
    Set x=$zobjexport("Y1",8)
    Set id=$zobjexport(9),fun=$zobjexport(15)
    Do:fun'="Y1" ..%ProcessErrorStatic(p0,fun,id)
    Set:$zobjexport(17) p1=..%ReadArrayArgument(p0)
    Do:fun'="Y5" ..%PostInvokeStatic(p0)
}

}
```

We have written an Operation to call the previous code:

```
Include (%systemInclude, Ensemble)

Class Operaciones.JAVA.AppSeguimiento Extends EnsLib.JavaGateway.AbstractOperation [
ProcedureBlock ]
{

Parameter INVOCATION = "Queue";

Method generarToken(pRequest As Mensajes.Request.Seguridad.AutenticacionLDAP, Output
pResponse As %Library.String(MAXLEN="")) As %Status
{
    try{
        kill %objlasterror
        #dim tSC as %Status
        #dim tJavaGateway as EnsLib.JavaGateway.JavaGateway
        Set tSC = ..GetConnection(.tJavaGateway)
        If $$$ISOK(tSC)
        {
            set echo = ##class(radarCovidcrearToken.CCAATokenGeneratorTest).%New(.tJavaGateway)
            $$$LOGINFO("echo: "_echo)
            zwrite %objlasterror
            do echo.main(.tJavaGateway,.pResponse)
            zwrite %objlasterror
            $$$LOGINFO("pResponse: "_pResponse)
        }
    }catch ex{
        $$$LOGINFO("%objlasterror: "_%objlasterror)
```

```
}

Quit $$$OK
}

XData MessageMap
{
<MapItems>
    <MapItem MessageType="Mensajes.Request.Seguridad.AutenticacionLDAP">
        <Method>generarToken</Method>
    </MapItem>
</MapItems>
}

}
```

The Operation's configuration in the Production is:

```
<Item Name="Operaciones.JAVA.AppSeguimiento" Category="AppSeguimiento" ClassName="Operaciones.JAVA.AppSeguimiento" PoolSize="1" Enabled="true" Foreground="false" Comment="LogTraceEvents="true" Schedule="">
    <Setting Target="Host" Name="Port">19501</Setting>
    <Setting Target="Host" Name="AdditionalPaths">
/opt/contenedor/J
ava/AppSeguimientoAnadidaReferenci
aJARSExternos.jar,/opt/contenedor/Java/aether-api-1.7.jar,/opt/contenedor/Java/aether-impl-1.7.jar,/opt/contenedor/Java/aether-spi-1.7.jar,/opt/contenedor/Java/aether-util-1.7.jar,/opt/contenedor/Java/asm-6.2.jar,/opt/contenedor/Java/bcpkix-jdk15on-1.58.jar,/opt/contenedor/Java/bcprov-jdk15on-1.58.jar,/opt/contenedor/Java/classworlds-1.1.jar,/opt/contenedor/Java/commons-cli-1.0.jar,/opt/contenedor/Java/commons-codec-1.14.jar,/opt/contenedor/Java/commons-io-2.5.jar,/opt/contenedor/Java/jackson-annotations-2.10.3.jar,/opt/contenedor/Java/jackson-core-2.10.3.jar,/opt/contenedor/Java/jackson-databind-2.10.3.jar,/opt/contenedor/Java/java-jwt-3.10.3.jar,/opt/contenedor/Java/junit-3.8.1.jar,/opt/contenedor/Java/plexus-build-api-0.0.4.jar,/opt/contenedor/Java/plexus-cipher-1.4.jar,/opt/contenedor/Java/plexus-classworlds-2.2.3.jar,/opt/contenedor/Java/plexus-compiler-api-2.8.4.jar,/opt/contenedor/Java/plexus-compiler-javac-2.8.4.jar,/opt/contenedor/Java/plexus-compiler-manager-2.8.4.jar,/opt/contenedor/Java/plexus-component-annotations-1.7.1.jar,/opt/contenedor/Java/plexus-container-default-1.0-alpha-9-stable-1.jar,/opt/contenedor/Java/plexus-interactivity-api-1.0-alpha-4.jar,/opt/contenedor/Java/plexus-interpolation-1.13.jar,/opt/contenedor/Java/plexus-interpolation-1.14.jar,/opt/contenedor/Java/plexus-java-0.9.10.jar,/opt/contenedor/Java/plexus-sec-dispatcher-1.3.jar,/opt/contenedor/Java/plexus-utils-2.0.4.jar,/opt/contenedor/Java/plexus-utils-2.0.5.jar,/opt/contenedor/Java/qdox-2.0-M9.jar,/opt/contenedor/Java/sisu-guice-2.1.7-noaop.jar,/opt/contenedor/Java/sisu-inject-bean-1.4.2.jar,/opt/contenedor/Java/sisu-inject-plexus-1.4.2.jar</Setting>
    </Item>
```

When we execute the Operation from the Production, we observe the following exception:

```
%objlasterror: 0 ê
ÿ^java.lang.NoClassDefFoundError: org/bouncycastle/util/io/pem/PemReader
at radarCovidcrearToken.CCAATokenGeneratorTest.loadPrivateKeyFromPem(CCAATokenGenerat
```

```
orTest.java:76)
at radarCovidcrearToken.CCAATokenGeneratorTest.run(CCAATokenGeneratorTest.java:36)
at radarCovidcrearToken.CCAATokenGeneratorTest.main(CCAATokenGeneratorTest.java:31)
at sun.reflect.GeneratedMethodAccessor2.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:
43)
at java.lang.reflect.Method.invoke(Method.java:497)
at com.intersys.gateway.JavaGateway.executeInstanceMethod(JavaGateway.java:996)
at com.intersys.gateway.JavaGateway.executeMethod(JavaGateway.java:942)
at com.intersys.gateway.JavaGateway.processMessage(JavaGateway.java:559)
at com.intersys.gateway.JavaGateway.run(JavaGateway.java:548)
at com.intersys.gateway.JavaGateway.run(JavaGateway.java:519)
P ESBSSCCB/e^%ProcessErrorStatic+4^%Net.Remote.Proxy.1^1;d^zmain+7^radarCovidcrearTok
en.CCAATokenGeneratorTest.1^1(d^^Operaciones.JAVA.AppSeguimiento.1^0(e^^Operaciones.J
AVA.AppSeguimiento.1^0(e^^Operaciones.JAVA.AppSeguimiento.1^0e^zOnTask+42^En
```

We have also read this topic where Robert Cemper and Eduard Lebedyuk, explain how to show native code's exception:

<https://community.intersystems.com/post/processerror6-netremoteproxy1-er...>

How could we attach external libraries to generated code with Java Gateway Wizard?

EDIT: We have add in the Production's Operation's configuration:

```
"/opt/contenedor/Java/AppSeguimientoAnadidaReferenciaJARSexternos.jar
"
```

[#Java](#)

Source

URL:<https://community.intersystems.com/post/how-could-we-attach-external-libraries-generated-code-java-gateway-wizard>