Rhidmo® Installation Manual

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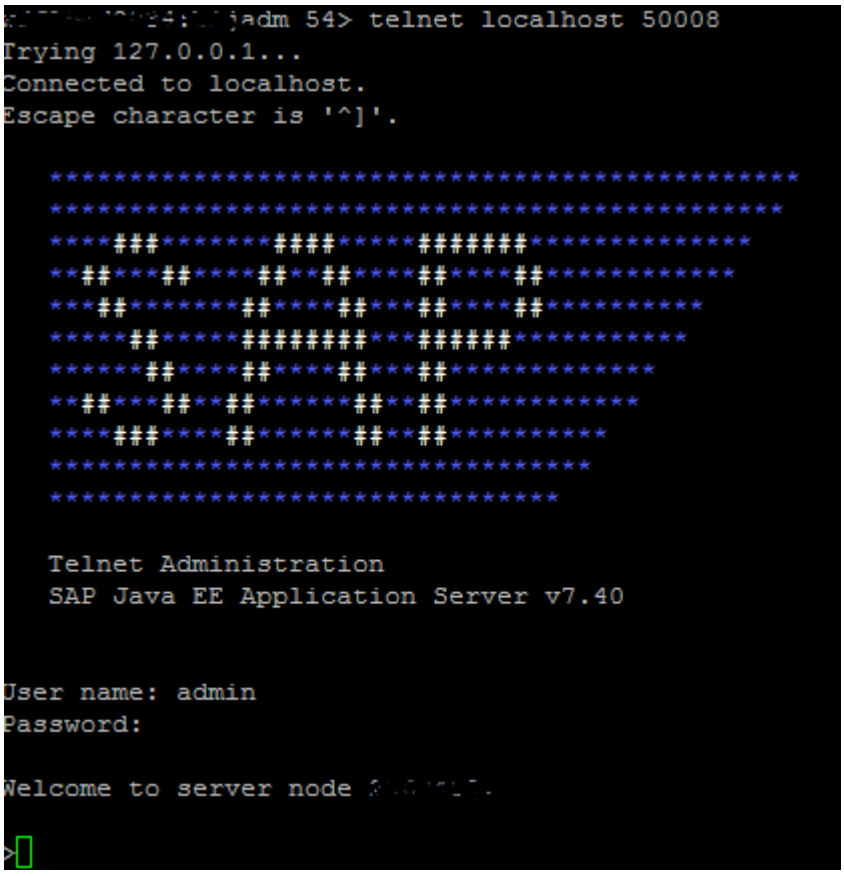
This chapter describes the installation of Rhidmo® on a SAP JAVA AS server. It assumes that the IDM WebDynPro GUI application (“IDM GUI”) is successfully installed on the same machine. It is possible to install the IDM GUI application on more than one machine. If so, please install Rhidmo® on all machines where the IDM GUI application is installed.

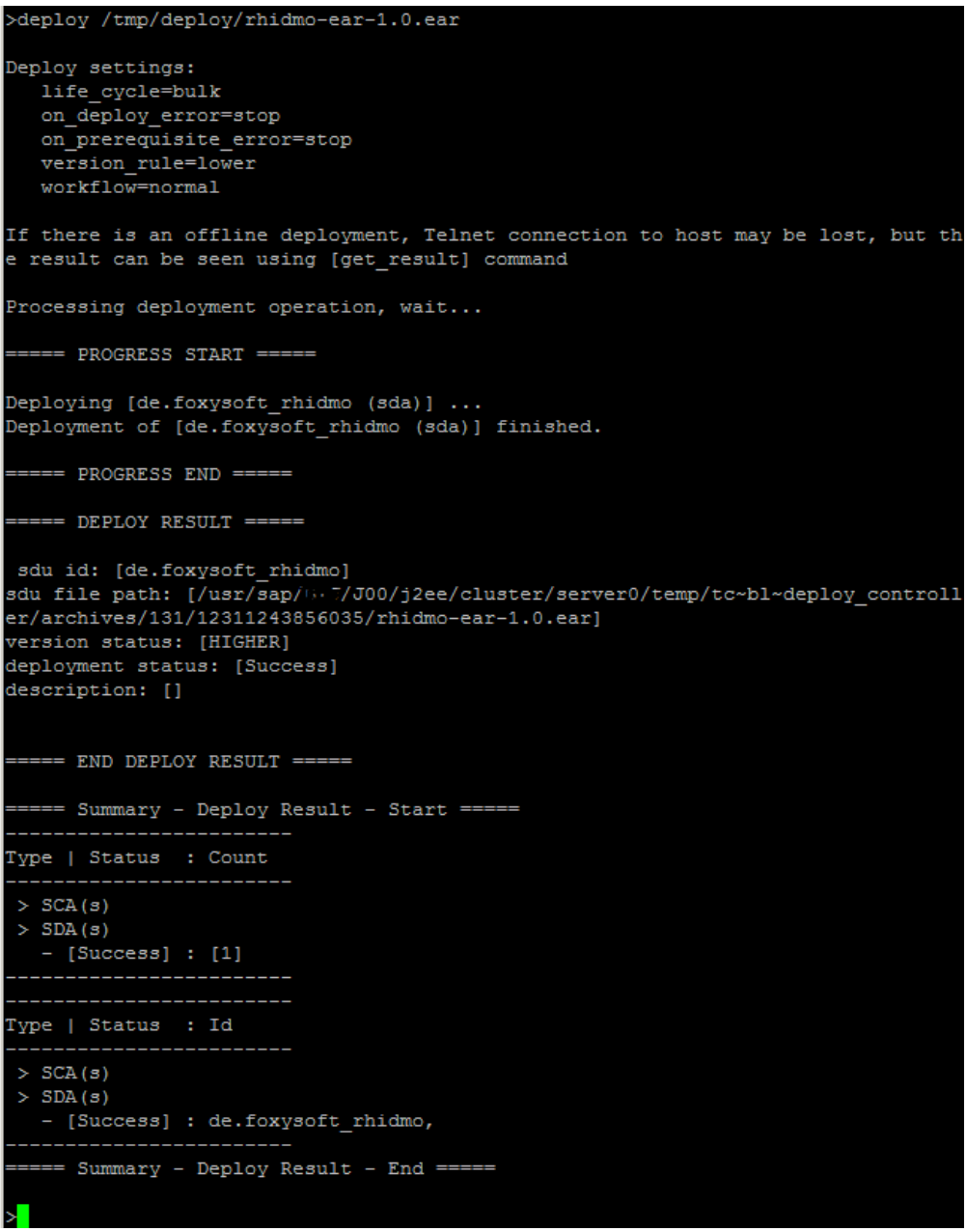
2.1 Deploy the EAR

There are several ways to deploy an EAR file to the SAP Java AS server. One of the easiest is probably using the telnet interface.

1. Copy the EAR file to the JAVA AS machine. Make sure that the <sid>adm user is able to read the file.
2. Use the telnet program to connect to the telnet port (usually 50008) and log in using administrative privileges (WARNING: the telnet protocol is not encrypted, it is best used locally as shown in the screenshot below):



3. Deploy the application using the deploy command:

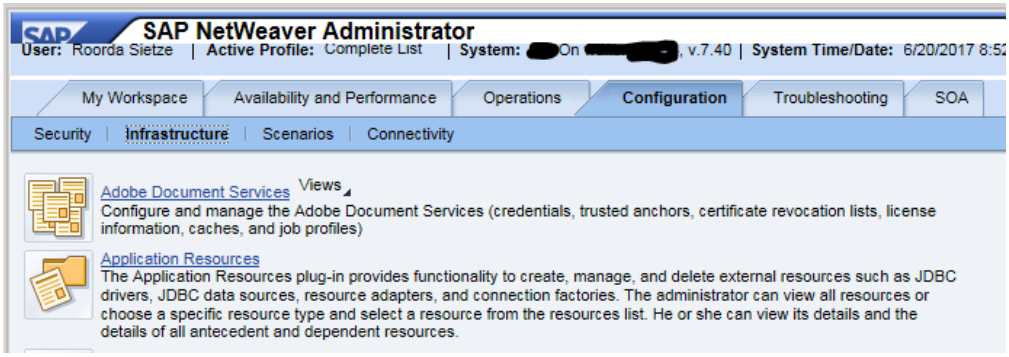


Watch for the “Success” message (as shown in the screenshot above). Correct any errors. Rhidmo® is now deployed and must be configured before use. This is explained in the following chapter.

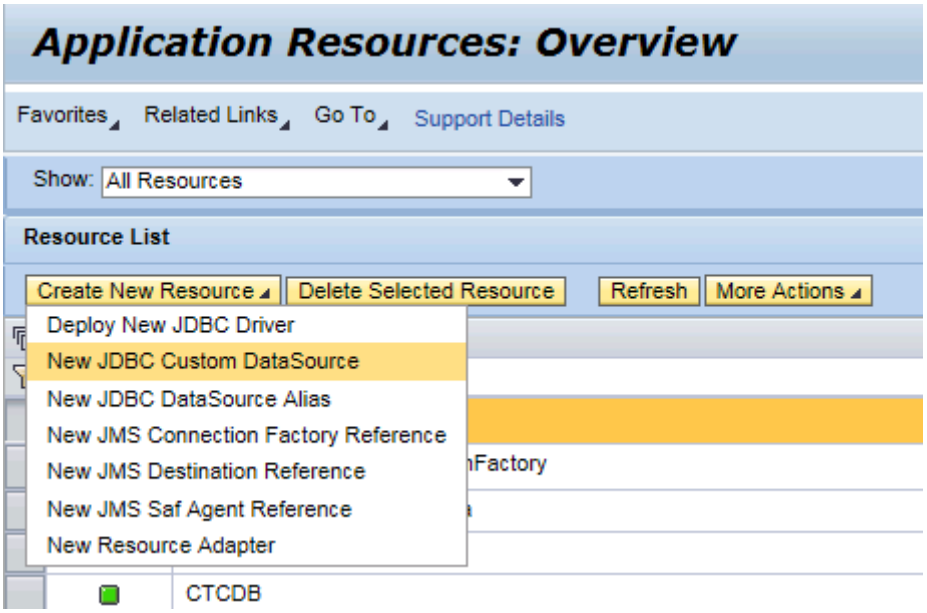
2.2 Create RHIDMO_RT Datasource

The standard IDM data source that is configured in JAVA AS uses the “<prefix>_prov” user which does not have sufficient privileges to be used with Rhidmo®. Consequently, another data source must be configured with the “<prefix>_rt” user:

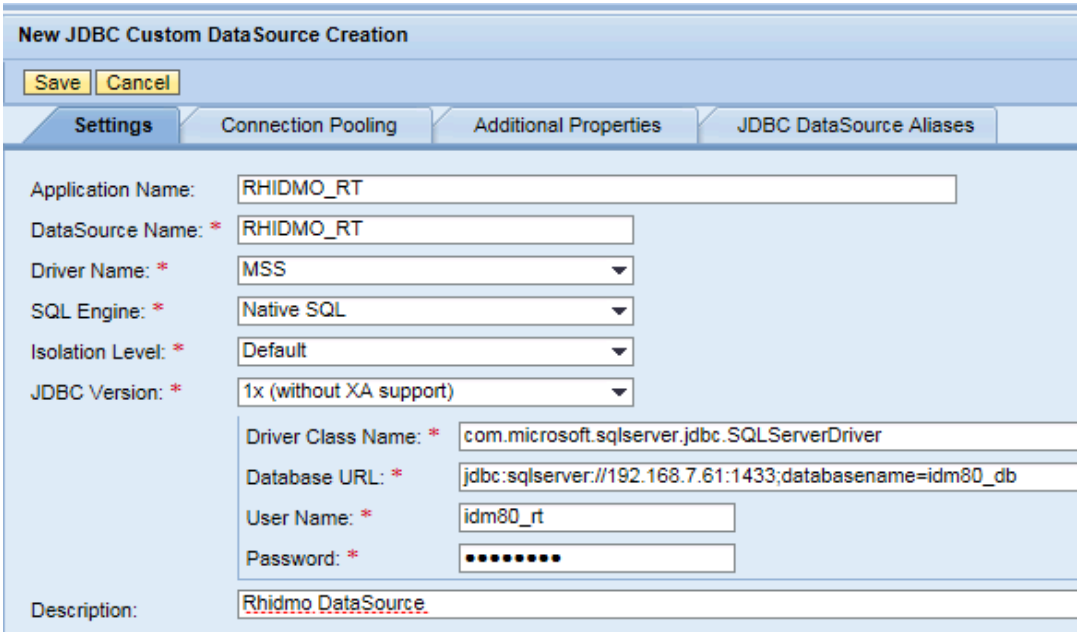
1. Log in with a SAP supported browser to the JAVA AS with a user with administrative privileges and start the Netweaver Administrator (URL: http://<machine>:<port>/nwa). Use https if available:



2. Go to “Configuration” → “Infrastructure” (as shown in the screenshot above) and click on the “Application Resources” link. Press the button “New JDBC Custom DataSource”:



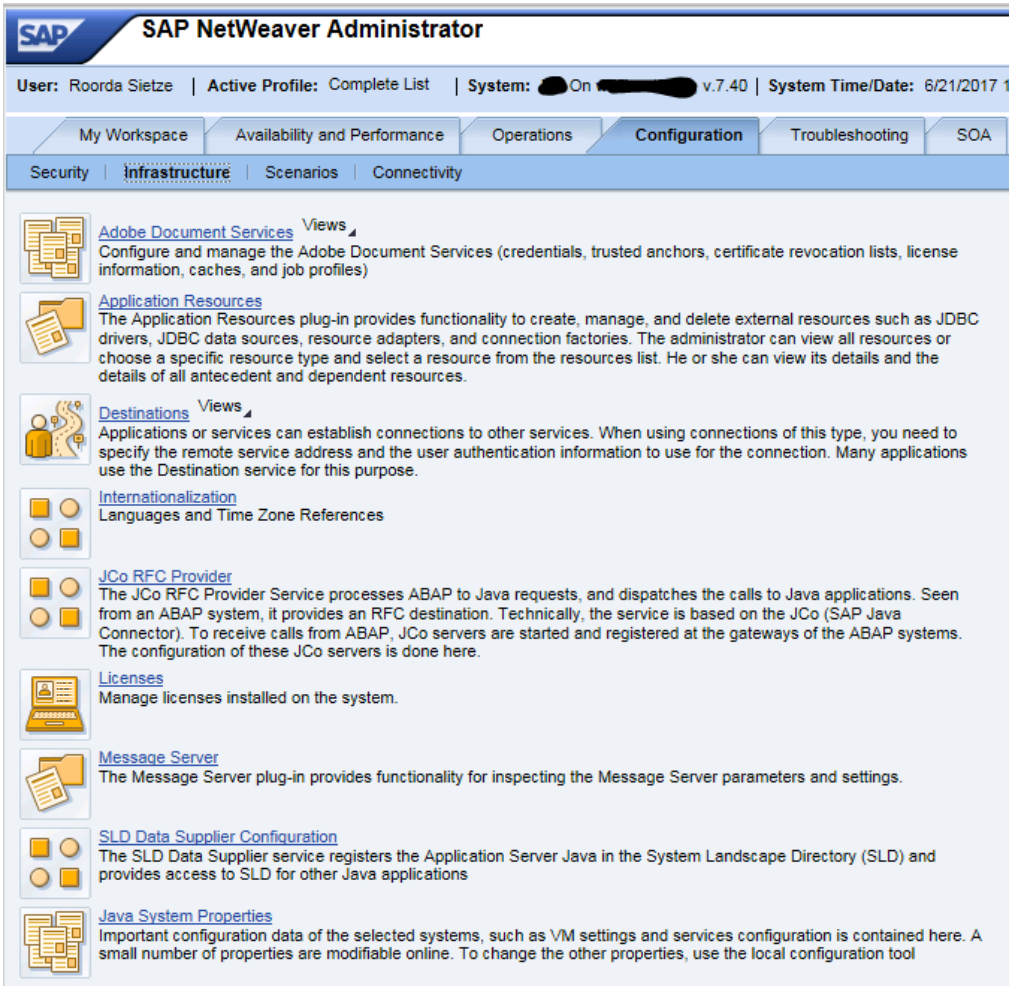
3. Fill in the form with the same values as for the “IDM_DataSource” Data Source. Please remember to exchange the “<prefix>_prov” user with the “<prefix>_rt” user (and adjust the password accordingly:



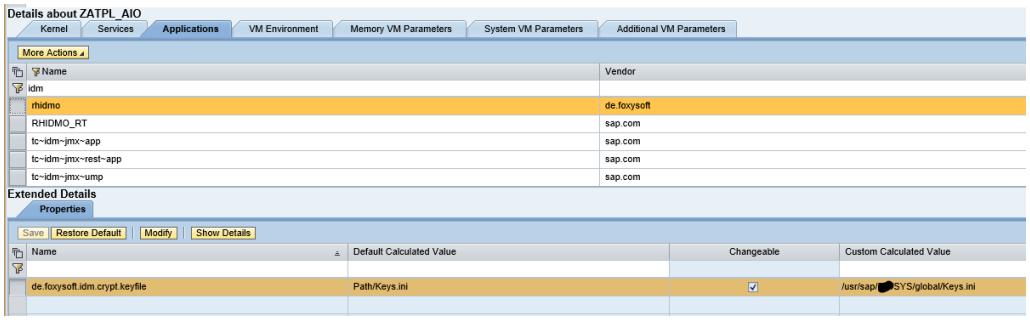
The screenshot above shows example values for the Microsoft SQL Server database using "idm80" as the prefix.

2.3 Set Application Parameters

1. While still in NWA, go to "Configuration" → "Infrastructure":



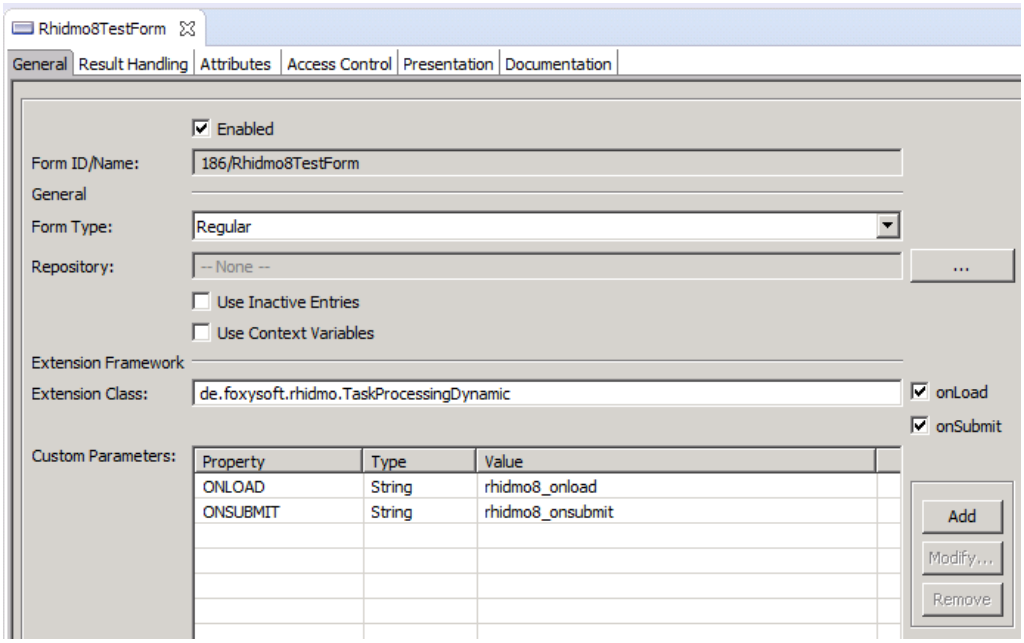
2. Press the link “Java System Properties” and find the tab “Applications” (somewhere in the middle. Filter on “idm” to see only SAP IDM relevant content:



3. Change the property “de.foxysoft.idm.crypt.file” to have the same value as the property “com.sap.idm.jmx.crypt.keyfile” of the “tc~idm~jmx~app” application. Press the “Save” button to store your changes.

3 Use Rhidmo®

Each form that needs to use Rhidmo® must be configured. Please enter the following values in the form properties:



Use the extension class “de.foxysoft.rhidmo.TaskProcessingDynamic”. The “ONLOAD” and “ONSUBMIT” parameters denote the javascript functions to be called during the corresponding events. Starting with Rhidmo® release 1.1.0, you can use scripts from the same package as the form and/or scripts from any other package.

For scripts from the same package as the form, use the following **simple syntax** for the value of properties:

```
<script_name>
```

For scripts from other packages, use the following **extended syntax**:

```
<package_name>/<script_name>
```

If your ONLOAD/ONSUBMIT script depends on other scripts, you need to specify these dependencies using properties REQ1 to REQn, where 1..n is an interval of contiguous integers which must start at 1.

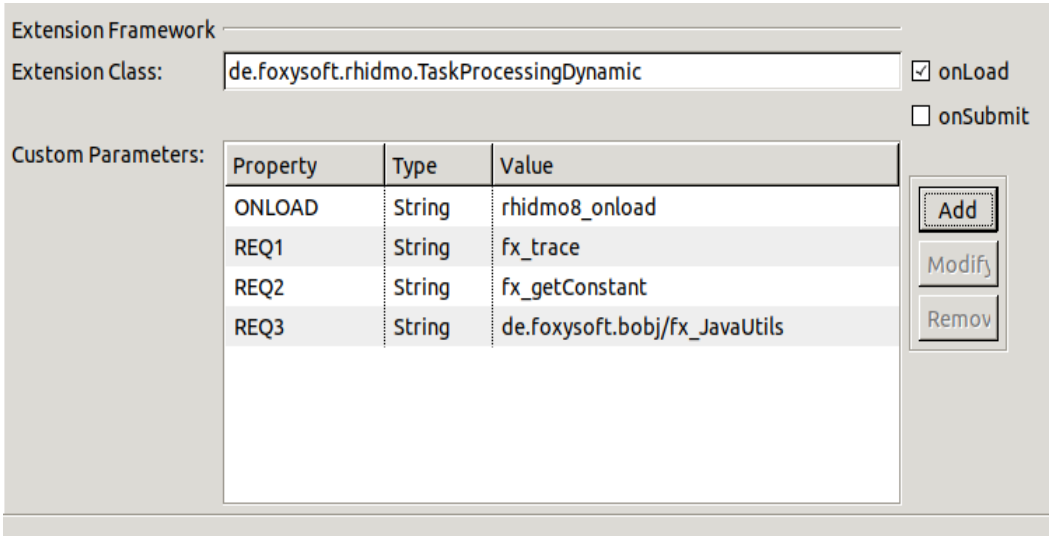
For instance, if your ONLOAD script which has 3 dependencies, you need to specify:

```
REQ1=<first dependency>

REQ2=<second dependency>

REQ3=<third dependency>
```

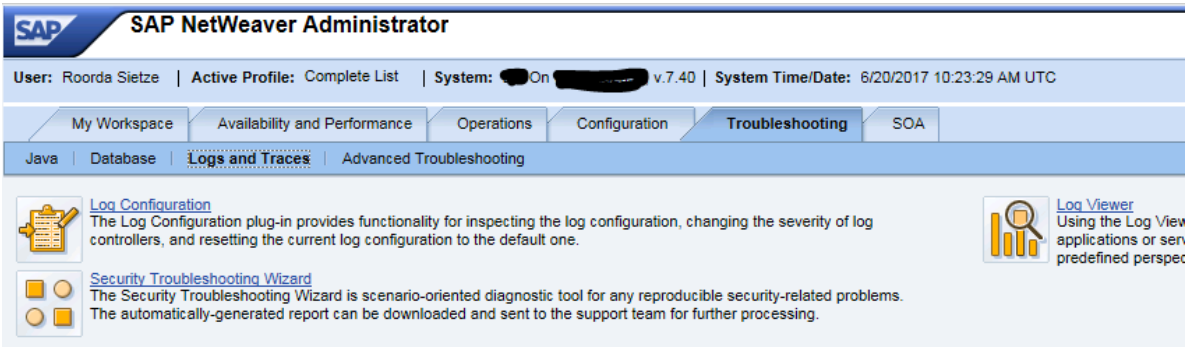
The following screenshot illustrates this. The main script ONLOAD has three dependencies. Two of these, REQ1 and REQ2, use the simple syntax (script name only). The third dependency, REQ3, uses the extended syntax to refer to a script from package de.foxysoft.bobj.



4 Trouble Shooting

Please check the JAVA AS log in case something goes wrong. If necessary, make sure that the log configuration shows the right amount of messages:

The log viewer can configured and accessed using the “/nwa” application (go to “Troubleshooting” → “Logs and Traces”):

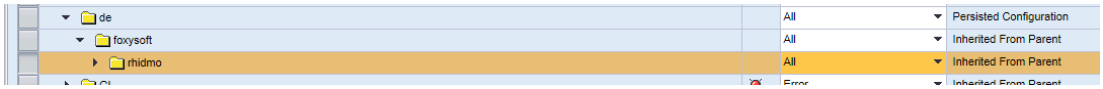


4.1 Configuration

By clicking on the link “Log Configuration” you can configure the amount of logging that Rhidmo® generates:

1. Select “Tracing Locations”:

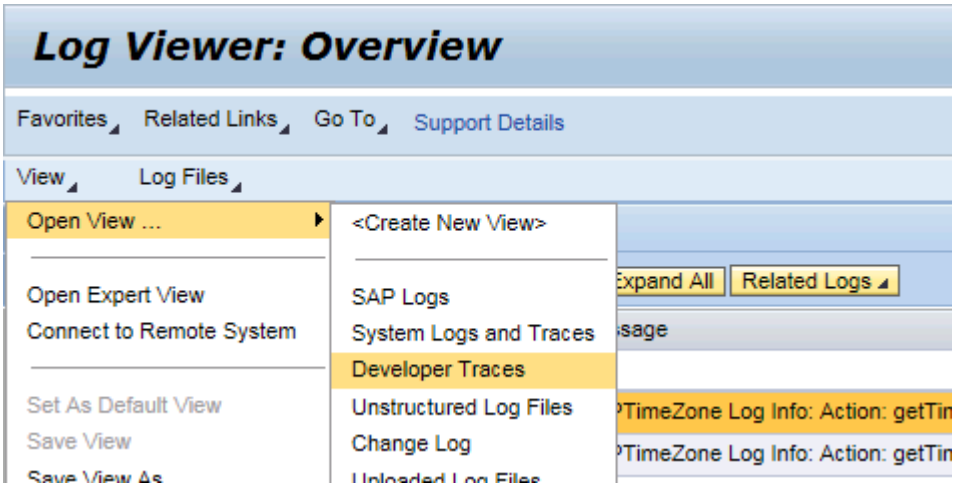
2. Then select “de.foxysoft.rhidmo” in the subtree below:



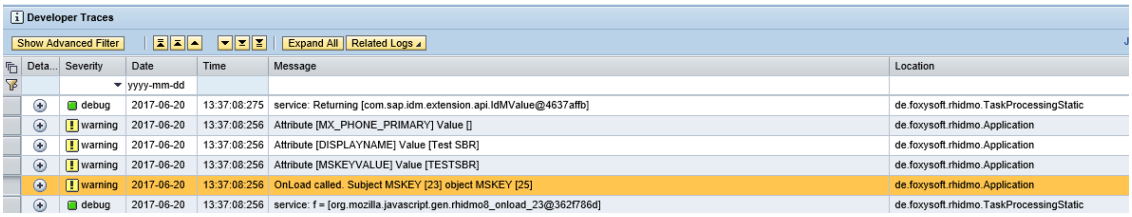
3. Select the log level you want from the dropdown box to the right and click on the “Copy to Subtree” button to copy this setting to all locations below.

4.2 Log Viewer

Click on the “Log Viewer” link to view the logs (Select the View “Developer Traces” to examine the Rhidmo® logs):


Log Viewer: Overview
Favorites
Related Links
Go To
Support Details
View
Log Files
Open View ...
Open Expert View
Connect to Remote System
Set As Default View
Save View
<Create New View>
SAP Logs
System Logs and Traces
Developer Traces
Unstructured Log Files
Change Log
Expand All
Related Logs
TimeZone Log Info: Action: getTi
TimeZone Log Info: Action: getTi

Example log:


Developer Traces
Show Advanced Filter
Expand All
Related Logs
Deta...
Severity
Date
Time
Message
Location
yyyy-mm-dd
debug 2017-06-20 13:37:08:275 service: Returning [com.sap.idm.extension.api.IdMValue@4637affb] de.foxysoft.rhidmo.TaskProcessingStatic
warning 2017-06-20 13:37:08:256 Attribute [MX_PHONE_PRIMARY] Value [] de.foxysoft.rhidmo.Application
warning 2017-06-20 13:37:08:256 Attribute [DISPLAYNAME] Value [Test SBR] de.foxysoft.rhidmo.Application
warning 2017-06-20 13:37:08:256 Attribute [MSKEYVALUE] Value [TESTSBR] de.foxysoft.rhidmo.Application
warning 2017-06-20 13:37:08:256 OnLoad called. Subject MSKEY [23] object MSKEY [25] de.foxysoft.rhidmo.Application
debug 2017-06-20 13:37:08:256 service: f = [org.mozilla.javascript.gen.rhidmo8_onload_23@362f786d] de.foxysoft.rhidmo.TaskProcessingStatic

5 FAQ

5.1 “Invalid Key size”

The following two messages appear in the log file and (en-) or decryption is not possible:

⊕	error	2018-03-18	10:23:41:130	java.security.InvalidKeyException: Illegal key size at javax.crypto.Cipher.a(DashoA13*..) at javax.crypto.Cipher.a(DashoA13*..) at javax.crypto.Cipher.a(DashoA13*..) at javax.crypto.Cipher.a(DashoA13*..)...
⊕	debug	2018-03-18	10:23:41:130	determineSecretKey: Keysize = 32 Maximum 16

The second message tells us that maximum supported key size is 16 bytes (or 128 bits). However, the string is encrypted with a key having 32 bytes (or 256 bits).

This means that the SAP JAVA AS is running with a Java version with limited cryptography capabilities. See SAP Note 1240081 for further details.