

## INSTALLATION INSTRUCTIONS FOR HOT FIX 511RTDM01 ON WINDOWS

### BEFORE DOWNLOADING:

The hot fix 511RTDM01 addresses the issue(s) in SAS Real-Time Decision Manager 5.1.1 Software on Windows as documented in the "Issue(s) Addressed" section of the hot fix download page:

<http://ftp.sas.com/techsup/download/hotfix/rtdm.html#511rtdm01>

### IMPORTANT NOTE(S):

1. You must have SAS Real-Time Decision Manager 5.1.1 installed on your system before applying this hot fix.
2. You must install the hot fix by using the same user ID that you used to install the SAS Real-Time Decision Manager 5.1.1 product. The vpd.properties file from the initial installation must be in the user's home directory.
3. Before applying this hot fix, you must terminate all currently active SAS sessions, Object Spawners, and Metadata Servers.

### INSTALLATION:

The hot fix package downloaded is a self extracting executable named **511rtdm01wn.exe**. These instructions assume that SAS Real-Time Decision Manager has been installed in the default location:

C:\Program Files\SAS\SAS Real-Time Decision Manager\

If you have installed this product in a different location, you will need to modify the paths that are shown in these instructions.

1. Launching 511rtdm01wn.exe will extract five components into c:\511rtdm01. The extracted components are:

511policydesign01wn.exe

contains SAS Real-Time Decision Manager 5.1.1 design server updates on WIN

511policyengine01wn.exe

contains SAS Real-Time Decision Manager 5.1.1 engine server updates on WIN

511policyconfig01wn.exe

contains SAS Real-Time Decision Manager 5.1.1 SAS connection server updates on WIN

511policyadmin01wn.exe

contains SAS Real-Time Decision Manager 5.1.1 plugins for SMC updates on WIN

511rtdmfoundation01wn.exe

contains the SAS Foundation updates on WIN

2. Use the following instructions to install the individual components that apply to your system:

UPDATING THE DESIGN SERVER  
UPDATING THE ENGINE SERVER  
UPDATING THE SAS CONNECTION SERVER  
UPDATING THE PLUG-INS ON THE SAS MANAGEMENT CONSOLE MACHINE  
UPDATING THE SAS FOUNDATION

### **UPDATING THE DESIGN SERVER :**

Installing 511policydesign01wn.exe

The 511policydesign01wn.exe is a self-extracting executable. This Java installation file contains the following replacement files:

sas.analytics.ph.rt.jar  
sas.connection.jar

Perform the following steps on the Design Server machine:

1. Copy and install the 511policydesign01wn.exe file on the Design Server machine.
2. Launch the executable to initiate the Java installation wizard, which guides you through the extraction of the updated component(s).
3. Verify the installation of the hot fix by confirming that the file(s) in the location(s) below have been updated to the level indicated by the date provided:

<!SASHOME>\SASRealTimeDecisionManager\5.1\Design\war\WEB-INF\lib\  
sas.analytics.ph.rt.jar  
Date: 05/22/08 (EST)

<!SASHOME>\SASRealTimeDecisionManager\5.1\Design\war\WEB-INF\lib\  
sas.connection.jar  
Date: 05/22/08 (EST)

### ***Post-Installation Instructions to update the SAS Real-Time Decision Design Server:***

The SAS Real-Time Decision Manager Design Server provides a script called reconfigure\_RTDM\_Design.bat to enable you to easily modify the Design Server ear file. The initial install and configuration of the Design Server created a file called install.properties

which contains configuration property values specific to the install. The install.properties file must be in the same directory from which the reconfigure\_RTDM\_Design.bat script is executed.

Note: On both Windows and UNIX systems, the Java executable must be present in your path.

Follow these steps to update the Design Server ear:

1. Execute the reconfigure\_RTDM\_Design script, as follows:
  - \* Go to the setup directory and run reconfigure\_RTDM\_Design.bat.
  - \* The script generates a new sas.analytics.ph.designserver.ear file in the install directory.
2. Uninstall the old Design Server ear file in the WebSphere container.
3. Reinstall the new sas.analytics.ph.designserver.ear into the WebSphere container.
4. Store a copy of the install.properties file in a secure location.

The configuration script creates an ear file in the install location of your SAS Real-Time Decision Manager Design Server.

### **UPDATING THE ENGINE SERVER:**

Installing 511policyengine01wn.exe

The 511policyengine01wn.exe is a self-extracting executable. This Java installation file contains the following replacement files:

sas.analytics.ph.rt.jar  
sas.connection.jar

Perform the following steps on the Engine Server machine:

1. Copy and install the 511policyengine01wn.exe file on the Engine Server machine.
2. Launch the executable to initiate the Java installation wizard, which guides you through the extraction of the updated component(s).
3. Verify the installation of the hot fix by confirming that the file(s) in the location(s) below have been updated to the level indicated by the date provided:

<!SASHOME>\SASRealTimeDecisionManager\5.1\Engine\war\WEB-INF\lib\  
sas.analytics.ph.rt.jar  
Date: 05/22/08 (EST)

<!SASHOME>\SASRealTimeDecisionManager\5.1\Engine\war\WEB-INF\lib\sas.connection.jar  
Date: 05/22/08 (EST)

### ***Post-Installation Instructions to update the SAS Real-Time Decision Engine Server:***

Engine Server Reconfiguration

The SAS Real-Time Decision Manager Engine Server provides a script called reconfigure\_RTDM.bat to enable you to easily modify the Engine Server ear file. The initial

install and configuration of the Engine Server created a file called install.properties which contains configuration property values specific to the install. The install.properties file must be in the same directory from which the reconfigure\_RTDM.bat script is executed.

Note: On both Windows and UNIX systems, the Java executable must be present in your path.

Follow these steps to run the reconfigure script:

1. Execute the reconfigure\_RTDM script, as follows:
  - \* Go to the setup directory and run reconfigure\_RTDM.bat.
2. The script generates a new sas.analytics.rtdm.j2ee.server.ear file in the install directory.
3. Stop and uninstall the old ear file in the WebSphere container.
4. Reinstall this new ear sas.analytics.rtdm.j2ee.server.ear into the WebSphere container.
5. You should store a copy of the install.properties file in a secure location.

The configuration script creates an ear file in the install location of your SAS Real-Time Decision Manager Engine Server.

### **UPDATING THE SAS CONNECTION SERVER:**

Installing 511policyconfig01wn.exe

Prior to installing the 511policyconfig01wn.exe:

1. Make a copy of the objspawn.cfg file in the [install root]/SASRealTimeDecisionManager/5.1/ServerConfig directory.
2. Add a Request Queue and a Response Queue for the new Single Data Step version of the SAS Connection Server to your Websphere MQ Server.
3. Add a Request Queue for the Audit Log to your Websphere MQ server.

The 511policyconfig01wn.exe is a self-extracting executable. This Java installation file contains the following replacement files:

```
sc_close_queues.sas
sc_connect_queues.sas
sc_echo_test.sas
sc_get_msg.sas
sc_license_check.sas
sc_nexttoken.sas
sc_process_msg.sas
sc_process_input.sas
sc_process_output.sas
sc_programs.sas
sc_put_msg.sas
sc_read_table.sas
sc_single_data_step.sas
sc_variable_test.sas
sc_variables.sas
SCSingleDataStepStart.sas
objspawn.cfg.new
```

Perform the following steps on the SAS Connection Server machine:

1. Copy the 511policyconfig01wn.exe file on the SAS Connection Server machine.
2. Launch the executable to initiate the Java installation wizard, which guides you through the extraction of the updated component(s).
3. Verify the installation of the hot fix by confirming that the following file(s) have been placed in `<!SASHOME>\SASRealTimeDecisionManager\5.1\ServerConfig\SingleDataStep`:

```
sc_close_queues.sas
sc_connect_queues.sas
sc_echo_test.sas
sc_get_msg.sas
sc_license_check.sas
sc_nexttoken.sas
sc_process_msg.sas
sc_process_input.sas
sc_process_output.sas
sc_programs.sas
sc_put_msg.sas
sc_read_table.sas
sc_single_data_step.sas
sc_variable_test.sas
sc_variables.sas
SCSingleDataStepStart.sas
objspawn.cfg.new
```

***Post installation instructions to update SAS Connection Server:***

On each SAS Connection Server the following steps must be taken to update your configuration:

- 1) Edit the objspawn.cfg file found in the  
[install root]/SASRealTimeDecisionManager/5.1/ServerConfig directory:
  - a) Cut and Paste the contents of the objspawn.cfg.new file into the bottom of the objspawn.cfg file.
  - b) For each of the following tags, replace the tag with the value found in the install.properties file (use search & replace):
    - \$RTDM\_SERVER\_SAS\_EXECUTABLE\$
    - \$RTDM\_SERVER\_SAS\_CONFIG\$
    - \$RTDM\_SERVER\_ROOT\$
    - \$RTDM\_SERVER\_SASMACHINEDNSNAMES\$
    - \$RTDM\_SERVER\_QTRANSPORT\$
    - \$RTDM\_SERVER\_QTHRESHOLD\$
    - \$RTDM\_SERVER\_SASQWAIT\$
    - \$RTDM\_SERVER\_SASQSESSIONMAX\$

- c) Manually edit the following tags with the correct values:
- \$RTDM\_SERVER\_MO\_QUEUEMANAGER\_SDS\$ - The name of the queue manager to use for the SAS Connection Single Data Step version. Most commonly will be the same as the queue manager name set higher in the file. (Look for sasQManagerName)
  - \$RTDM\_SERVER\_MO\_REQUESTQ\_SINGLE\_SDS\$ - The name of the Request Queue to use for the SAS Connection Single Data Step version. Note: This must be different from the request queue used in the macro (original) version of the SAS Connection Server.
  - \$RTDM\_SERVER\_MO\_QUEUEMANAGER\_AUDIT\_LOG\$ - The name of the queue manager to use for the Audit Log. Most commonly will be the same as the queue manager name set higher in the file. (Look for sasQManagerName)
  - \$RTDM\_SERVER\_MO\_REQUESTQ\_AUDIT\_LOG\$ - The name of the Request Queue to use for the Audit Log. Note: This must be different from the request queue used in the macro (original) version and the Single Data Step version of the SAS Connection Server.

- 2) Move the SCSingleDataStepStart.sas file from  
[install root]/SASRealTimeDecisionManager/5.1/ServerConfig/SingleDataStep  
to  
[install root]/SASRealTimeDecisionManager/5.1/ServerConfig and edit the  
following:

- a) For each of the following tags, replace the tag with the value found in the  
install.properties file (use search & replace):

- \$RTDM\_SERVER\_LIBRARIES\$
- \$RTDM\_SERVER\_ROOT\$
- \$RTDM\_SERVER\_MO\_CLIENT\$
- \$RTDM\_SERVER\_MO\_MSG\_TIMEOUT\$

- b) Manually edit the following tags with the correct values:

- \$RTDM\_SERVER\_MO\_RESPONDQ\_SDS\$ - The name of the Response Queue to use for the SAS Connection Single Data Step version.

- 3) New Resources and Activities

With the initial install three SAS Connection Resources were created. These point to the original Macro version of SAS Connection. An additional resource should be created using the RTDM SMC plug-in that points to the queues used for the new Single Data Step version of SAS Connection. Name these queues RequestQSD and ResponseQSD. Use these names in the configuration step above.

Note: These resources correspond to the resources set up on the SAS Connection Server in the objspawn.cfg file. Different queues must be used for each resource however they can all use the same Queue Manager.

In the initial install, an activity called SASGeneralIO is created that points to the macro version of SAS Connection. A second General IO activity must be created that points to the new single data step version of SAS Connection. The SASGeneralIO Activity will be used for updates and inserts and the new activity will be used for reads. Be sure to update the CI process nodes to use the appropriate activity.

Add permissions to the new single data step queues by executing the commands below. Be sure to substitute the following symbols with the values found from step 1c:

```
$RTDM_SERVER_MO_QUEUEMANAGER_SDS$  
$RTDM_SERVER_MO_REQUESTQ_SINGLE_SDS$  
$RTDM_SERVER_MO_QUEUEMANAGER_AUDIT_LOG$  
$RTDM_SERVER_MO_REQUESTQ_AUDIT_LOG$
```

Substitute \$RTDM\_SERVER\_MO\_RESPONDQ\_SDS\$ with the value found in step 2b and \$RTDM\_SERVER\_GROUP\_NAME\$ with the value found in the install.properties file.

```
setmqaut -m $RTDM_SERVER_MO_QUEUEMANAGER_SDS$ -n  
$RTDM_SERVER_MO_REQUESTQ_SINGLE_SDS$ -t q -g $RTDM_SERVER_GROUP_NAME$  
+allmqi  
setmqaut -m $RTDM_SERVER_MO_QUEUEMANAGER_SDS$ -n  
$RTDM_SERVER_MO_RESPONDQ_SDS$ -t q -g $RTDM_SERVER_GROUP_NAME$ +allmqi  
setmqaut -m $RTDM_SERVER_MO_QUEUEMANAGER_AUDIT_LOG$ -n  
$RTDM_SERVER_MO_REQUESTQ_AUDIT_LOG$ -t q -g $RTDM_SERVER_GROUP_NAME$  
+allmqi
```

### **UPDATING THE PLUG-INS ON THE SAS MANAGEMENT CONSOLE MACHINE:**

Installing 511policyadmin01wn.exe

The SAS Management Console Plug-In component of the hot fix package is a self-extracting executable named 511policyadmin01wn.exe. The file contains the following replacement files:

```
sas.connection.jar  
sas.analytics.ph.rt.jar  
sas.rdm.ui.mgrs.jar  
sas.smc.realtimedecisionmgr.jar
```

Perform the following steps on the SAS Management Console machine:

1. Copy the 511policyadmin01wn.exe file on the SAS Management Console machine.
2. Launch the executable to initiate the Java installation wizard, which guides you through the extraction of the updated component(s).
3. Verify the installation of the hot fix by confirming that the file(s) in the location(s) below have been updated to the level indicated by the date provided:

```
<!SASHOME>\SASManagementConsole\9.1\plugins\sas.analytics.ph.rt.jar  
Date: 05/22/08 (EST)
```

```
<!SASHOME>\SASManagementConsole\9.1\plugins\sas.connection.jar  
Date: 05/22/08 (EST)
```

<!SASHOME>\SASManagementConsole\9.1\plugins\sas.rdm.ui.mgrs.jar  
Date: 05/22/08 (EST)

<!SASHOME>\SASManagementConsole\9.1\plugins\sas.smc.realtimedecisionmgr.jar  
Date: 05/22/08 (EST)

### **UPDATING THE SAS FOUNDATION:**

Installing 511rtdmfoundation01wn.exe

The 511rtdmfoundation01wn.exe is a self-extracting executable and it contains the following updated files:

- \* mmutil.sas7bcat  
the replacement catalog containing the hot fix in !SASROOT\policymva\cmacros
- \* sasmacr.sas7bcat  
the replacement catalog containing the hot fix in !SASROOT\policymva\cmacros

Perform the following steps on the SAS Foundation machine:

1. Copy the 511rtdmfoundation01wn.exe file on the SAS Foundation machine.
2. Launch the executable to initiate the Java installation wizard, which guides you through the extraction of the updated component(s).

This completes the installation of hot fix 511RTDM01 on Windows.