

SAS OpRisk Monitor 3.4.1

Windows Install Instructions for Hot Fix 341orm10

Introduction

This document describes the steps necessary to install and deploy the SAS OpRisk Monitor 3.4.1 Hot fix Release 341orm10 for a Windows environment. ***Please take a moment to read through this entire document before attempting to install the hot fix.*** There are four steps to this hot fix that must all be completed:

- 0) Preparing for the hot fix
- 1) Installation of the updates to the SAS OpRisk Monitor Admin and Web Components
- 2) Installation and configuration of the updates to the SAS OpRisk Monitor Server Component
- 3) Deployment of the SAS OpRisk Monitor Web Components update (optional)

Fix Details

0. Preparing for the Hot Fix

This hot fix contains new versions of files that you may have customized previously. To avoid losing your changes, make a backup copy of the following files:

- WEB-INF\classes\configdata.properties
- Any other file(s) that you have customized

After the hot fix is installed, you will be able to use the backup copy to help you apply the same customizations to the new version of the files.

1. Obtaining the Hot Fix

1.1 Download the Hot Fix Bundle

You should perform these installation steps for *each machine* where the following OpRisk Monitor components have been installed.

- SAS OpRisk Monitor Web Components
- SAS OpRisk Monitor Admin Tools Components
- SAS OpRisk Monitor Server Components

You should be logged in as a user that has file access (read/write permissions) to the environment where SAS OpRisk Monitor is currently installed. Since most of the updates will be on your mid-tier machine, you should begin on that server. Repeat these steps on other servers as needed.

Go to the SAS Technical Support Hot Fix web site

(<http://ftp.sas.com/techsup/download/hotfix/orm341.html>) and click on the link labeled “341orm10 for Windows” to download the hot fix bundle (341orm10wn.exe). Choose “Save” when the file download dialog window opens. Make note of the location where the .exe file is saved.

1.2 Install the Web and Admin Tools Components

The hot fix install uses a wizard to assist you with verification of the completion of each step.

To run the hot fix bundle locate the file called '**341orm10wn.exe**' from the previous step. Double-click that file or run it from the Start menu. This installer will in turn call separate installers for the SAS OpRisk Monitor web application and the SAS OpRisk Monitor admin tools. It does this by copying ormonitorweb.exe and ormonitoradm.exe to C:\341orm10 and then invoking each .exe separately. The installer will attempt to install both components of OpRisk Monitor regardless of what may be installed on your server.

The hot fix bundle will install updates to several files in the installation directory (typically C:\Program Files\SAS\OpRiskMonitor).

Important: Any customization applied to earlier installs should be re-applied at this point.

1.3 Update the database

If your current installed version is prior to hot fix 5, a patch is included in the hotfix code that does two things:

1.3.1. Creates tables and associated indexes to address the performance issue with the ORA Chooser component.

1.3.2. Increases the size of Aux_str* columns to 4000 bytes for Issues and Action plans.

To run this patch, access the admin tools and run patchdb after installing the hot fix. Alternately, you can deploy the new code, restart the OpRisk Monitor web application, and login to OpRisk Monitor using the admin account. You will then be prompted to patch the database using the OpRisk Monitor interface.

2. Install and Configure the Server Component

2.1 Installing the 341orm10 hotfix on the Server Tier

The 341orm10 hotfix contains files for the OpRisk Monitor Server Tier. An installer should have been downloaded to the machine where SAS Foundation is installed. When you ran 341orm10wn.exe in step 1.2, a new directory C:\341orm10 was created for you.

In the directory C:\341orm10, click on ormonitorsrv.exe to install this part of the hotfix. Once the installer has finished, check that the following files have been updated:

file

```
<SAS Install Dir>\SAS 9.1 \ormonitormva\sashelp\ormonrpt.sas7bdat
<SAS InstallDir>\SAS9.1\ormonitormva\sasstp\risk_heatmap.sas
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc \control\columns.csv
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc \control\rm_code_labels_en.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_code_labels_pl.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_code_labels_ru.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_code_labels_uk.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_cube_labels_pl.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_cube_labels_ru.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_cube_labels_uk.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_flg_pl.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_flg_ru.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_flg_uk.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc \control\rm_labels_en.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_labels_pl.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_labels_ru.txt
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc\control\rm_labels_uk.txt
```

```
<SAS Install Dir>\SAS 9.1 \ ormonitormva \sasmisc \control\tables.csv
<SAS Install Dir>\SAS 9.1 \ ormonitormva\ucmacros\orm_dm_createtables.sas
<SAS Install Dir>\SAS 9.1 \ ormonitormva\ucmacros\orm_dm_createviews.sas
<SAS Install Dir>\SAS 9.1 \ ormonitormva\ucmacros\orm_export_to_var.sas
<SAS Install Dir>\SAS 9.1 \ ormonitormva\ucmacros\orm_kris_to_var.sas
<SAS Install Dir>\SAS 9.1 \ ormonitormva\ucmacros\orm_rm_createtables.sas
```

2.2 Removal of Control Files and Formats from Previous Runs

If the server tier code (aka the reporting code) has been run previously, delete the SAS data tables and catalogs in the OPCNTL and OPFMTS libraries. These files must be deleted before running the updated reporting code or the results will be incorrect. See the OpRisk Monitor Administrator's Guide for more information on the reporting code and the OPCNTL and OPFMTS libraries.

2.3 Updating Metadata for the Reporting Code

The reporting code also relies upon metadata about the database used by OpRisk Monitor. This metadata must be updated when the hot fix is applied. To do this, delete all entries from the "OpRisk Transactional Schema" under SAS Libraries in the Data Library Manager of the SAS Management Console. Then re-import the tables for the updated database. See SAS Management Console User's Guide for more information on how to work with SAS Libraries in the SAS Management Console.

3. Deployment of SAS OpRisk Monitor Web Components

3.1 Update the monitor.war file

Monitor.war will typically be located in C:\SAS\<plan name>\Lev1\web\webapps.
Paste the commands below into a batch file. Change the value for INSTALLDIR as necessary for your environment and then save the file.

```
set INSTALLDIR=C:\SAS913\SAS\OpRiskMonitor\3.2\monitor
jar uf monitor.war -C %INSTALLDIR% components\AdditionalInformation.jsp
jar uf monitor.war -C %INSTALLDIR% components\calendar\CalendarPopup.jsp
jar uf monitor.war -C %INSTALLDIR% components\ora\DimensionTreeChooser.jsp
jar uf monitor.war -C %INSTALLDIR% components\ora\OraEditor.jsp
jar uf monitor.war -C %INSTALLDIR% components\ora\OraEditorStaticScript.jsp
jar uf monitor.war -C %INSTALLDIR% components\ora\OraScript.jsp
jar uf monitor.war -C %INSTALLDIR% components\ora\OraViewer.jsp
jar uf monitor.war -C %INSTALLDIR% components\treechooser\SearchTreeChooser.jsp
jar uf monitor.war -C %INSTALLDIR% preWait.jsp
jar uf monitor.war -C %INSTALLDIR% script\common.jsp
jar uf monitor.war -C %INSTALLDIR% script\modalPopup.js
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\assessment\assessments.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\assessment\questionnairesScript.jspf
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\assessmentWizard\additionalInformation.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\assessmentWizard\questionnaires.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\controls.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\irm\inherentRisk.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\irm\RiskProfileEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\questionnaire\questionnaire.jsp
```

jar uf monitor.war -C %INSTALLDIR% tiles\CSA\riskDrivers.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\riskInstanceWizard\details.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\riskTypes.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\CSA\templates.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\dimension\DimensionNodeEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\dimension\DimensionNodeMappings.jspf
jar uf monitor.war -C %INSTALLDIR% tiles\iap\ActionPlanCommonContent.jspf
jar uf monitor.war -C %INSTALLDIR% tiles\iap\ActionPlanCosts.jspf
jar uf monitor.war -C %INSTALLDIR% tiles\iap\ActionPlanEditContent.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\iap\ActionPlanRequiredFields.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\iap\ActionPlanViewHeader.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\iap\IssueCommonContent.jspf
jar uf monitor.war -C %INSTALLDIR% tiles\iap\IssueEditContent.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\iap\IssueQuery.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\iap\IssueRequiredFields.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\iap\IssueViewHeader.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\insurancepolicy\InsurancePolicyEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\insurancepolicy\InsurancePolicyQuery.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\KRI\observations\observationEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\KRI\requests\requestEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\layout\footer.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\layout\menu.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\layout\menu.xml
jar uf monitor.war -C %INSTALLDIR% tiles\reports\heatmapViewEdit.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\roles\RoleEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\user\UserEditor.jsp
jar uf monitor.war -C %INSTALLDIR% tiles\yesno.jsp
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\application_pl.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\application_ru.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\application_uk.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\configdata.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages_ja.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages_ko.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages_pl.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages_ru.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages_uk.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\customMessages_zh_TW.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\framework_pl.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\framework_ru.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\framework_uk.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_ar.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_de.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_es.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_fr.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_it.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_ja.properties

```
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_ko.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_nl.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_pl.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_pt_BR.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_ru.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_uk.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\classes\server_zh_TW.properties
jar uf monitor.war -C %INSTALLDIR% WEB-INF\lib\sas.oprisk.framework.server.jar
jar uf monitor.war -C %INSTALLDIR% WEB-INF\lib\sas.oprisk.framework.server.tools.jar
jar uf monitor.war -C %INSTALLDIR% WEB-INF\lib\sas.oprisk.monitor.jar
jar uf monitor.war -C %INSTALLDIR% WEB-INF\lib\sas.oprisk.server.jar
jar uf monitor.war -C %INSTALLDIR% WEB-INF\lib\sas.oprisk.server.base.jar
jar uf monitor.war -C %INSTALLDIR% WEB-INF\struts-config.xml
jar uf monitor.war -C %INSTALLDIR% WEB-INF\tiles.xml
jar uf monitor.war -C %INSTALLDIR% WEB-INF\validation.xml
jar uf monitor.war -C %INSTALLDIR% WEB-INF\web.xml
```

Change your working directory to C:\SAS\

Run the batch file to update the monitor.war file.

3.2 Redeploy the web application

Tomcat:

Copy the updated monitor.war file to <TOMCAT_HOME>\webapps. If liveDeploy is off, you can reload the monitor application or restart Tomcat to redeploy SAS OpRisk Monitor.

WebLogic:

From the WebLogic Server Console, go to Deployments -> Web Application Modules and delete the monitor Web application. Then click on Deploy a New Web Application Module to redeploy SAS OpRisk Monitor.

WebSphere:

Please refer to the SAS note SN-33539 for a complete set of additional configuration steps if you are using Websphere 6.0.

For WebSphere 6.0.2.15, it may be necessary to reapply changes in your deployed SAS OpRisk Monitor web application's was.policy file. Review the was.policy information in monitor.war.ear\META-INF, or refer to your instructions.html document for details on how to update the was.policy file.

From the WebSphere Administrator's Console, stop the monitor application and then uninstall it.

Then redeploy from Applications -> Install New Application.

3.3 Register the SAS OpRisk Monitor Server stored processes for reporting in SAS Management Console

- 1) If changes have been made to any of the stored processes from a previous installation then please make a backup by exporting them to a new package file (.spk). Once this has been completed please skip step 2) and go to step 3).

- 2) If you have never registered SAS OpRisk Monitor stored processes then first, to set up the path, bring up the properties dialog on any stored process. Select the Execution tab click on the "Manage" button. Add a source code repository for the path:

C:\Program Files\SAS\SAS_9.1\sasstp\ormonitormva for a UNIX server

C:\Program Files\SAS\SAS 9.1\ormonitormva\sasstp for a Windows server

- 3) Next, right click on BI Manager, select import and import the package file OpRiskStoredProcesses.spk from the OpRisk Monitor Mid-Tier installation C:\Program Files\SAS\OpriskMonitor\3.2\Config.

If you have any questions or concerns regarding the installation of this hot fix, please do not hesitate to contact SAS Technical Support:

Phone: (919) 677-8008

Email: support@sas.com

Web: http://support.sas.com/techsup/contact/submit_emits2.html

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