Installation Instructions for Hot Fix K02004
Windows for x64

Foreward

K02004 is a "container" hot fix that contains the following "member" hot fixes which will update the software components as indicated.

J71005 updates **SAS Detail Data Store for Insurance 5.5**
J98004 updates **SAS Firmwide Risk Management for Insurance Server 2.12**
J99004 updates **SAS Market Risk Management for Insurance Server 2.12**
K26004 updates **SAS Risk Management for Insurance Mid-Tier 2.12**
J97004 updates **SAS Risk Management for Insurance Server 2.12**
K22004 updates **SAS Risk Reporting Repository for Insurance 2.12**
K01004 updates **SAS Underwriting Risk Management for Life Insurance Server 2.12**
K21004 updates **SAS Underwriting Risk Management for P&C Insurance Server 2.12**
K60001 updates **SAS Risk Dimensions Server Component 5.5**

Before applying this hot fix, follow the instructions in [SAS Note 35968](#) to generate a SAS Deployment Registry report, and then verify that the appropriate product releases are installed on your system. The software components and release numbers should match the list of software components updated by the individual hot fix installers.

The hot fix downloaded, K02004pt.zip, includes the updates required for all components listed above on all applicable operating systems. To apply this hot fix on multiple machines, you can either save K02004pt.zip on each machine or save it in a network location that is accessible to all machines.

Do NOT extract the contents of K02004pt.zip. The hot fix installation process will extract the contents as needed.

Pre-requisites
Risk Dimensions Hotfix K60001 should be installed (see Installation section)

Important Notes

1. Configurations and related uncompiled macro files for the following reports will be updated in this install.

ASSETS-D1	IGT4	SCR-B3D
ASSETS-D1Q	Lapses	SCR-B3E
ASSETS-D1S	MCR-B4A	SCR-B3G
ASSETS-D2O	MCR-B4B	TP-E1
ASSETS-D2T	OF-B1Q	TP-E1Q
ASSETS-D3	P&L	TP-E2
ASSETS-D4	RC	TP-E3
ASSETS-D5	RE-J1 Basic	TP-E4
ASSETS-D6	RE-J1 Shares	TP-E6
BS-C1	RE-J2 Basic	TP-E7A
BS-C1D	RE-J2 Shares	TP-E7B
Country-K1	RE-J3	TP-F1
Cover-A1A	RE-SPV	TP-F1Q
Cover-A1Q	REJ2 Group	TP-F2
DurLiab	SCR-B2A	TP-F3
G01	SCR-B2A_B2C	TP-F3A
G03	SCR-B2B	TP-F3B
G04	SCR-B2C	TP-F4
IGT1	SCR-B3A	V A-C2A
IGT2	SCR-B3B	V A-C2B
IGT3	SCR-B3C	V A-C2C

2. The following reports from the above list have been migrated to the EIOPA provided CP 11 Final QRT templates:

Assets-D1	IGT3	SCR-B3E
Assets-D1Q	IGT4	SCR-B3G
Assets-D1S	Lapses	TP-E1
Assets-D2O	MCR-B4A	TP-E1Q
Assets-D2T	MCR-B4B	TP-E2
Assets-D3	OF-B1Q	TP-E3
Assets-D4	P&L	TP-E4
Assets-D5	RC	TP-E7A
Assets-D6	RE-J1 Basic	TP-E7B
BS-C1	RE-J1 Shares	TP-F1
BS-C1D	RE-J2 Basic	TP-F1Q
Country-K1	RE-J2 Group	TP-F2
Cover-A1A	RE-J2 Shares	TP-F3
Cover-A1Q	RE-J3	TP-F3A
DurLiab	SCR- B3C	TP-F3B
G01	SCR-B2A	TP-F4
G03	SCR-B2A_B2C	V A-C2B
G04	SCR-B2B	V A-C2C
IGT1	SCR-B2C	
IGT2	SCR-B3A	

3. The following reports, if already existing on your system will not be available after this install as the reports have been dropped from the CP 11 Final QRT templates by EIOPA. Metadata and configurations for the reports have been removed:

C2_ANALYSIS_LF	G10	IGT5
C2_ANALYSIS_NL	G15	IGT6
C2_SUMMARY	G20	TP-E5
Cover-A1	G30	TP-E7
		V A-C2D

4. Following reports were added / updated in the metadata per CP9 and CP 11 Final EIOPA QRT lists:

Assets-D1Q	RE-J1 Basic
Assets-D1S	RE-J1 Shares
Assets-D2O	RE-J2 Basic
Assets- D2T	RE-J2 Shares
Cover-A1A	SCR_B2A_B2C
Cover-A1Q	TP-E7A
Duration liabilities	TP-E7B
Lapses	V A-C2A
Participations	V A-C2B
P&L Sharing	V A-C2C

5. Stored Process (STP) names and descriptions have been updated in the metadata for a large majority of the reports to align with changes per CP 9 and CP 11 Final EIOPA templates. These updates can be applied to the system by importing reports.spk. Details of the import process are available in the section Import updated .spk files.   If you need to retain previous versions of these files, they can be retrieved from backup locations as needed.

6. As part of this install, support for XBRL reporting has been added. In order to support this feature, the following new tables have been added to the static directory

   Newly added tables:
   - XBRL_COMPLEXTYPE
   - XBRL_COMPLEXTYPE_ENUMERATION
   - XBRL_DIMENSION
   - XBRL_FACTELEMENTS
   - XBRL_FMT
   - XBRL_REPORT
   - XBRL_SCHEMA

7. This hot fix should be installed using the same userid that performed the initial software installation.

8. On UNIX systems, you may need to adjust file permissions on all new and updated files to meet with your sites security guidelines.

9. Before commencing the installation, do check the the RMI wiki for any post release PU13 updates: http://smteam.sas.com/psd/rmi/KB/PU13.aspx

10. If you have any questions that you feel are not relevant for support@sas.com then they can be posted to the RMI questions board: http://smteam.sas.com/psd/rmi/Lists/q/AllItems.aspx

Installation

Log in as administrator

You must have Administrator Privileges on your CLIENT or SERVER machine.

Make backups

- Files delivered in this hot fix will be backed up during the installation process. However, it is good general practice to back up your system before applying updates to software.
- Take backups of all .spk files prior to importing newer versions or making any updates to the contents of an existing .spk file. This can be done by first logging into the SAS Management Console (SMC) using the Administrator (sasadm) user, navigating to the appropriate folder containing metadata and exporting the folder contents to a uniquely named .spk file.

Stop SAS servers

First – terminate all active SAS sessions, daemons, spawners and servers.

Install Risk Dimensions Hotfix

The following hotfix should be applied to update Risk Dimensions:

http://ftp.sas.com/techsup/download/hotfix/HF2/K60.html#K60001

Install Risk Management for Insurance ICF

Hot Fix K02004 must be installed on each machine where the updated components of the product, listed above, are installed. During the installation process you may see references to all operating systems for which updates are provided in the hot fix. The installation process will determine the operating system and which component(s) of Risk Management for Insurance 2.12 require updating on the machine. See SAS Note 44810 for more details.

The hot fix will be applied using the SAS Deployment Manager (SDM). By default, the SDM will search in the *<SASHOME>\InstallMisc\HotFixes\New* directory for hot fixes to be applied, but will also prompt for a location if you have downloaded hot fixes to a different directory.

After downloading K02004pt.zip, follow the instructions for applying hot fixes in the **SAS Deployment Wizard and SAS Deployment Manager 9.3: User's Guide**.

The hot fix installation process generates the log file:

<SASHOME>\InstallMisc\InstallLogs\IT_date-and-time-stamp.log

for example, IT_2011-10-31-13.18.21.log. Each attempt to apply a hot fix results in the creation of a new log file giving detailed information regarding the installation process.

Postexec log files are created after the installation is completed and identifies the files that were added, backed up, changed and removed. These log files include the 'member' hot fix

id in the name of the file and are also written to the *<SASHOME>\InstallMisc\InstallLogs* directory. There is one postexec log for each 'member' hot fix applied (member hot fixes are listed at the top of these instructions).

The content of this hot fix is listed in the hot fix manifest. This completes the installation of K02004. You must perform any "Post-Installation Instructions" documented below to successfully complete the deployment of this hot fix.

Post Installation Instructions

Initial tasks

Remove erroneous files
If it exists, the file **rmif_pm_cpty_risk.sas** should be deleted from the *SASFoundation\9.3\rmifirmmva\ucmacros* folder.

You should also delete (or rename) the file map_regulatory_bond_type.sas found in the following locations:
     - SASFoundation\9.2\rmicomnsvr\sasmisc\solution_data_mart\sampledata\mapping
     - SASFoundation\9.2\rmicomnsvr\sasmisc\martddl\mapping

Run copy scripts

The hotfix provides script files, copy_files.bat and copy_files.sh for Windows and Unix-based operating systems respectively to enable versioning at the SAS product configuration level. The files are located at:

WIN: <SASHOME>\SASFoundation\9.3\rmicomnsvr\sasmisc\batch\hfscripts
UNIX: <SASHOME>/SASFoundation/9.3/misc/rmicomnsvr/batch/hfscripts

Depending upon the operating system where the hotfix is installed, use a command prompt (using administrator credentials) to change directory to the location of the appropriate script file above. Next, invoke the script file at the location and pass paths to the SASFoundation and SASCONFIG locations at the command line:

Note: Enclose within double quotes any path that contains spaces.

WIN: copy_files.bat <SASROOT> <SASCONFIG>

  e.g: copy_files.bat "C:\Program Files\SASHome\SASFoundation\9.3" "C:\SAS\Config\Lev1"

UNIX: copy_files.sh <SASROOT> <SASCONFIG>

  e.g. copy_files.sh /install/SASHome/SASFoundation/9.3 /install/sas/Config/Lev1

Successful script execution will result in copying of all files from SASFoundation under rmicomnsvr, rmifirmmva, rmilifemva, rmimktmva and rmipcmva to their respective folders under <SASCONFIG>. Prior to copying, the script will move the existing source folders and their contents to a new folder named *source-pre-hf-J97004* on Windows and *source-pre-J97004* on UNIX.

Note: On UNIX systems, the script will actually copy files from SASFoundation to a directory, source-J97004 and create a 'source' symbolic link to point to that directory. You should verify that the directory and file permissions for the source-J97004 directory and files are in compliance with your site's security policy

Restart SAS servers

Restart SAS servers & spawners (in the correct order).

J71005 for SAS Detail Data Store for Insurance 5.5

This hotfix (J71005) was already installed as part of this ICF (K02004pt.zip). However the POST-INSTALLATION INSTRUCTIONS (in document below) should be followed in order to update the physical tables and metadata.

http://ftp.sas.com/techsup/download/hotfix/HF2/J/J71/J71005/xx/wx6/J71005x6.pdf

Import SPK files

Before importing any of the SPK files, remember to backup existing metadata, and to log into SAS Management Console (SMC) as an Administrator. Then click on the Folders tab.

Import updated analysis.spk file for Firmwide Risk Server 2.12

1. Navigate to the folder Analysis under System -> Applications -> SAS Risk Management for Insurance -> Firmwide Risk Server 2.1
2. Next, right-click on the Analysis folder and select Import SAS Package from the menu
3. Browse to <SASHOME>\SASFoundation\9.3\rmifirmmva\sasmisc\Config\Deployment\Packages folder and select the analysis.spk file.
4. Select the radio button for All Objects and click Next.
5. You should see a list of STPs in the window. Click Next and then Next again.
6. Ensure that you have the correct mappings for the SAS Application Servers.
7. Click Next.   On this screen, map source application servers.
8. Choose the path to the <SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\source\firmwide\sasstp folder. Click Next.
9. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.   The next screen import was completed.
10. Click the View Log button and scan the log for any errors. If the import was successful, you should see messages such as "The import process completed successfully" in the log.   Click

Ok and then Finish.

Import updated configuration.spk file for Firmwide Risk Server 2.12

1. Navigate to the folder Configuration under System -> Applications -> SAS Risk Management for Insurance -> Firmwide Risk Server 2.12
2. Select all the STPs, right-click and select Delete.
3. Ensure that all STPs have been deleted from the Configuration folder. The group solvency stored process configuration has been removed.
4. Next, right-click on the Configuration folder and select Import SAS Package from the menu
5. Browse to <SASHOME>\SASFoundation\9.3\rmifirmmva\sasmisc\Config\Deployment\Packages and select the configuration.spk file.
6. Select the radio button for All Objects and click Next.
7. You should see a list of STPs in the window. Click Next and then Next again.
8. Ensure that you have the correct mappings for the SAS Application Servers.
9. Click Next.
10. On this screen, map source code repositories between original and target application servers.
11. Choose the path to the <SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\source\firmwide\sasstp folder. Click Next.
12. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.
13. The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see messages as "The import process completed successfully" in the log.
14. Click Ok and then Finish.

Import updated analysis.spk for Life Risk Server 2.12

1. Navigate to the folder Analysis under System -> Applications -> SAS Risk Management for Insurance -> Life Risk Server 2.12
2. Select all the STPs, right-click and select Delete. Ensure that all STPs have been deleted from the Analysis folder. The reason these STPs need to be deleted is that a parameter, RR_INPUTS has been added to most of the STPs. The parameter can be seen by expanding the System parameter group on the Parameters tab.
3. Next, right-click on the Analysis folder and select Import SAS Package from the menu
4. Browse to <SASHOME>\SASFoundation\9.3\rmilifemva\sasmisc\Config\Deployment\Packages and select the analysis.spk file.

5. Select the radio button for **All Objects** and click Next
6. You should see a list of STPs in the window. Click Next and then Next again.
7. Ensure that you have the correct mappings for the SAS Application Servers. Click Next.
8. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\so urce\life\sasstp folder.

Click Next.

9. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.

10. The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see messages such as "The import process completed successfully" in the log.

11. Click Ok and then Finish.

Import updated analysis.spk for Market Risk Server 2.12

1. Navigate to the folder Analysis under System -> Applications -> SAS Risk Management for Insurance -> Market Risk Server 2.12

2. Select all the STPs, right-click and select Delete. Ensure that all STPs have been deleted from the Analysis folder. The reason these STPs need to be deleted is that a parameter, RR_INPUTS has been added to most of the STPs. The parameter can be seen by expanding the System parameter group on the Parameters tab.

3. Next, right-click on the Analysis folder and select Import SAS Package from the menu

4. Browse to <SASHOME>\SASFoundation\9.3\rmimktmva\sasmisc\Config\Deployment\Packages and select the analysis.spk file.

5. Select the radio button for **All Objects** and click Next

6. You should see a list of STPs in the window. Click Next and then Next again.

7. Ensure that you have the correct mappings for the SAS Application Servers. Click Next.

8. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\source\market\sasstp folder. Click Next.

9. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see messages such as "The import process completed successfully" in the log.

10. Click Ok and then Finish.

Import updated analysis.spk for Property Casual Risk Server 2.12

1. Navigate to the folder Analysis under System -> Applications -> SAS Risk Management for Insurance -> Property Casual Risk Server 2.12

2. Select all the STPs, right-click and select Delete. Ensure that all STPs have been deleted from the Analysis folder. The reason these STPs need to be deleted is that a parameter, RR_INPUTS has been added to most of the STPs. The parameter can be seen by expanding the System parameter group on the Parameters tab.

3. Next, right-click on the Analysis folder and select Import SAS Package from the menu.

4. Browse to <SASHOME>\SASFoundation\9.3\rmipcmva\sasmisc\Config\Deployment\Packages and select

the analysis.spk file.

5. Select the radio button for **All Objects** and click Next.
6. You should see a list of STPs in the window. Click Next and then Next again.
7. Ensure that you have the correct mappings for the SAS Application Servers. Click Next.
8. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\so urce\nonlife\sasstp folder. Click Next.
9. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.
10. The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see messages such as "The import process completed successfully" in the log.
11. Click Ok and then Finish.

Import updated reports.spk for the RMI Common Server component

1. Navigate to the folder *Reports* under System -> Applications -> SAS Risk Management for Insurance -> Risk Management for Insurance Server 2.12
2. Select all the *Reports*, right-click and select Delete. Ensure that all *Reports* have been deleted from the Reports folder.
3. Next, right-click on the Reports folder and select **Import SAS Package**
4. from the menu
5. Browse to *<SASHOME>\SASFoundation\9.3\rmicomnsvr\sasmisc\Config\Deployment\Packages* and select the *reports.spk* file.
6. Select the radio button for **All Objects** and click Next
7. You should see a list of *Reports* in the window. Click Next and then Next again.
8. Ensure that you have the correct mappings for the SAS Application Servers. Click Next.
9. On this screen, map source code repositories between original and target application servers. Choose the path to the *<SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\so urce\common\sasstp* folder. Click Next.
10. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.
11. The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see a message such as "The import process completed successfully" in the log.
12. Click Ok and then Finish.
13. If required, selectively import metadata from the backup SPK (refer to Step 1) for only those QRTs that were customized earlier and are not delivered in the hot fix.

Import updated system.spk for the RMI Common Server component

1. Navigate to the folder System under System -> Applications -> SAS Risk   M anagement
Insurance -> Risk Management for Insurance Server 2.12

2. Right-click on the System folder and select Import SAS Package from the menu
3. Browse to *<SASHOME>\SASFoundation\9.3\rmicomnsvr\sasmisc\Config\Deployment\Packages* and select the system.spk file.
4. Select the radio button for All Objects and click Next
5. You should see a list of STPs in the window. Click Next and then Next again.
6. Ensure that you have the correct mappings for the SAS Application Servers. Click Next.
7. On this screen, map source code repositories between original and target application servers. Choose the path to the *<SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\source\common\sasstp* folder. Click Next.
8. Review the Summary information and click Next if correct. Otherwise,
9. click on the Back buttons to make necessary corrections in earlier steps.
10. The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see a message such as "The import process completed successfully" in the log.
11. Click Ok and then Finish.
12. You should now see
    a. A new "Job name" parameter in the Parameters tab for the REPORT_OPTIONS STP if you had not installed F90004 or F90005.
    b. A new parameter for XBRL generation.
    c. A new "Verbose logging" parameter in the Parameters tab for the REPORT_OPTIONS STP

Import updated utilities.spk for the RMI Common Server component

1. Navigate to the folder *Utilities* under System -> Applications -> SAS Risk Management for Insurance -> Risk Management for Insurance Server 2.12
2. Delete all objects (customisations will be restored from backup SPK)
3. Right-click on the Utilities folder and select **Import SAS Package** from the menu
4. Browse to *<SASHOME>\SASFoundation\9.3\rmicomnsvr\sasmisc\Config\Deployment\Packages* and select the *utilities.spk* file.
5. Select the radio button for **All Objects** and click Next
6. You should see a list of STPs in the window. Click Next and then Next again .
7. Ensure that you have the correct mappings for the SAS Application Servers. Click Next.
8. On this screen, map source code repositories between original and target application servers.
9. Choose the path to the *<SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\source\common\sasstp* folder. Click Next.
10. Review the Summary information and click Next if correct. Otherwise, click on the Back buttons to make necessary corrections in earlier steps.
11. The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see a message such as "The import process completed successfully" in the log.
12. Click Ok and then Finish.
13. If required, selectively import metadata from the backup SPK (refer to Step 1) for only those STPs that were customized earlier and are not delivered in the hot fix.

Import updated rmi_etl_bridge_212_hf4.spk for the RMI Solution Data Mart (SDM) ETL jobs

Following is the summary of newly added, modified and excluded jobs in this hot fix:

Newly added jobs:

1. RMI_INT_100_I_ACCOUNT_CREDIT_RISK_MITIGANT
2. RMI_INT_100_I_CREDIT_FACILITY_CR_MITIGANT
3. RMI_INT_100_I_EXPOSURE_CR_MITIGANT_RANK
4. RMI_INT_100_I_FINANCIAL_POSITION_CR_MITIGANT
5. RMI_INT_100_I_FRA_INSTRUMENT_LEG
6. RMI_INT_100_I_RISK_FACTOR_X_RISK_FCTR_CURVE
7. RMI_STG_210_CLOSED_ASSET_DERIVATIVE
8. RMI_STG_210_CLOSED_ASSET_DERIVATIVE_TRADE
9. RMI_STG_210_EXPOSURE_CRM_LINK
10. RMI_STG_210_GL_ACCOUNT_BALANCE_LOOP
11. RMI_STG_210_GL_BAL_SEGMENT_ATTR_VAR
12. RMI_STG_210_GL_BALANCE_SEGMENT
13. RMI_STG_210_PORTFOLIO
14. RMI_STG_210_QUOTE_FUND
15. RMI_STG_210_RATE_PARAM_GROUP_X_PARAMETER
16. RMI_STG_210_RI_CONTRACT_COLLA TERAL
17. RMI_STG_210_SEGMENTED_GL_ACCOUNT_BALANCE
18. RMI_STG_210_SEGMENTED_GL_ACCOUNT_BALANCE_LOOP
19. RMI_STG_210_SUB_LEDGER
20. RMI_STG_210_ENTITY_SYSTEM_IDENTITY
21. RMI_STG_210_LINE_OF_BUSINESS_ASSOC
22. RMI_STG_230_CAPITAL_ALLOCATION
23. RMI_STG_230_CAPITAL_COST

Modified Jobs:

1. RMI_INT_100_I_ASSET_SGMNT_X_EXPOSURE
2. RMI_INT_100_I_BOND_INSTRUMENT
3. RMI_INT_100_I_COUNTERPARTY
4. RMI_INT_100_I_CREDIT_CARD_ACCOUNT
5. RMI_INT_100_I_CREDIT_FACILITY
6. RMI_INT_100_I_CREDIT_RISK_MITIGANT
7. RMI_INT_100_I_EXTERNAL_ORG
8. RMI_INT_100_I_FINANCIAL_INSTRUMENT
9. RMI_INT_100_I_FINANCIAL_POSITION
10. RMI_INT_100_I_FX_FORWARD_QUOTE
11. RMI_INT_100_I_FX_VOLA TILITY_QUOTE
12. RMI_INT_100_I_INT_RATE_VOLATILITY_QUOTE
13. RMI_INT_100_I_INTEREST_RATE_QUOTE
14. RMI_INT_100_I_PHYSICAL_ASSET
15. RMI_INT_100_I_RISK_FACTOR
16. RMI_INT_100_I_PORTFOLIO
17. RMI_INT_100_I_REPO_INSTRUMENT
18. RMI_INT_100_I_RISK_FACTOR_X_RISK_FCTR_CURV
19. RMI_INT_100_I_SW AP_INSTRUMENT_LEG
20. RMI_INT_100_I_COUNTERPARTY_CREDIT_ASSESSMENT
21. RMI_INT_105_I_FINANCIAL_ACCOUNT
22. RMI_INT_110_I_ACCT_POS_INST_FCLTY_APPEND
23. RMI_INT_110_I_QUOTE_VOLATILITY
24. RMI_STG_210_CEDED_LOSS
25. RMI_STG_210_CLAIM_HISTORY
26. RMI_STG_210_COUNTERPARTY_ASSOC
27. RMI_STG_210_COVERED_PERILS
28. RMI_STG_210_FINANCIAL_FUND
29. RMI_STG_210_JOIN_CUSTOMERS
30. RMI_STG_210_RI_CARRIER_X_RI_CONTRACT_SECTN
31. RMI_STG_210_FUND_INSTRUMENT

32. RMI_STG_210_GENERAL_INSURANCE_SUBJECT
33. RMI_STG_210_GENERAL_INSURANCE_UOE
34. RMI_STG_210_GL_ACCOUNT_ASSOC
35. RMI_STG_210_GL_ACCOUNT_BALANCE
36. RMI_STG_210_INSURANCE_SEGMENT
37. RMI_STG_210_INSURED_ITEM_LOCATION
38. RMI_STG_210_INTERNAL_ORG_ASSOC
39. RMI_STG_210_LIFE_INSURANCE_POLICY
40. RMI_STG_210_REINSURANCE_CONTRACT_SECTION
41. RMI_STG_210_REINSURANCE_COVERAGE
42. RMI_STG_210_RI_CARRIER_X_XL_LAYER
43. RMI_STG_210_SECURITIZATION_POOL_MART
44. RMI_STG_210_SUB_LEDGER
45. RMI_STG_210_XL_LAYER
46. RMI_STG_230_ASSET_SGMNT_X_EXPOSURE
47. RMI_STG_230_CDO_INSTRUMENT
48. RMI_STG_230_CASHFLOW_ACCOUNT
49. RMI_STG_230_CASHFLOW_FRA
50. RMI_STG_230_CASHFLOW_INSTRUMENT
51. RMI_STG_230_CONVERSION_SCHEDULE
52. RMI_STG_230_CONVERTIBLE_BOND_INSTRUMENT
53. RMI_STG_230_COUNTERPARTY
54. RMI_STG_230_COUNTERPARTY_RATINGS
55. RMI_STG_230_CREDIT_RISK_MITIGANT
56. RMI_STG_230_DISCRETE_CARRYING_COST
57. RMI_STG_230_EMBEDDED_OPTIONS
58. RMI_STG_230_FINANCIAL_CONTRACT
59. RMI_STG_230_FINANCIAL_CONTRACT_ISSUE
60. RMI_STG_230_FINANCIAL_EXPOSURE
61. RMI_STG_230_GL_ACCOUNT
62. RMI_STG_230_OPTION_INSTRUMENT
63. RMI_STG_230_OPTION_SCHEDULE
64. RMI_STG_230_QUOTE_FX
65. RMI_STG_230_QUOTE_INDEX
66. RMI_STG_230_QUOTE_IR
67. RMI_STG_230_QUOTE_IR
68. RMI_STG_230_QUOTE_VOLATILITY
69. RMI_STG_230_QUOTE_VOLATILITY
70. RMI_STG_230_REPO_INSTRUMENT
71. RMI_STG_230_RF_CURVE_X_RF_GROUP
72. RMI_STG_230_RISK_DRIVER
73. RMI_STG_230_RISK_DRIVER_X_FIN_CONTR
74. RMI_STG_230_RISK_FACTOR
75. RMI_STG_230_RISK_FACTOR_CURVE
76. RMI_STG_230_RISK_FACTOR_GROUP
77. RMI_STG_230_RISK_FACTOR_X_RISK_FCTR_CURVE
78. RMI_STG_230_SWAP_INSTRUMENT

Excluded Jobs (due to deprecated SDM tables):

1. RMI_INT_100_I_ASSET_SGMNT_X_EXPOSURE
2. RMI_STG_210_REINSURANCE_TREATY
3. RMI_STG_210_COUNTERPARTY_X_RI_TREATY
4. RMI_STG_210_CEDED_EXPOSURE
5. RMI_STG_210_RATE_PARAM_GROUP
6. RMI_STG_230_ASSET_PORTFOLIO_SEGMENT
7. RMI_STG_230_ASSET_SGMNT_X_EXPOSURE

Notes

If you already have existing RMI 2.12 ETL jobs, import the rmi_etl_bridge_212_hf4.spk file from *<SASHOME>\SASRiskManagementForInsuranceMidTier\2.12\ETL* folder as explained below.

If RMI 2.12 ETL does not exist, first import *rmi_etl_bridge.spk* from the same location.

    A.   Login to SAS DI Studio as the Administrator (sasadm) user
    B.   Click on the Folders tab
    C.   Navigate to the folder, Products
    D.   Right-click on the Products folder and select Import SAS Package from the menu
    E.   Browse to */SASRiskManagementForInsuranceMidTier/2.12/ETL* and select the *rmi_etl_bridge_212_hf4.spk* file.
    F.   Select the radio button for All Objects and click Next.
    G.   Select the objects to Import and click Next
    H.   Click Next on 'About metadata connections' Screen
    I.   Select the target libraries that correspond to original libraries. Click Next
    J.   Select the target tables that correspond to original tables. Click Next.
    K.   Ensure that you have the correct mappings for the SAS Application Servers. Click Next.
    L.   Review the Summary information and click Next.
    M.   The next screen should show that the import was completed. Click the View Log button and scan the log for any errors. If the import was successful, you should see a message such as "The import process completed successfully" in the log
    N.   Click Ok and then Finish.
    O.   Click Ok.

If required, selectively import metadata from the backup SPK (refer to Step 1) for only those QRTs that were customized earlier and are not delivered in the hot fix.

Regenerate the Solution Data Mart (SDM)

NOTE! This will erase the existing SDM (if there is one).

1. Run the following code in a SAS session with appropriate privileges, and appropriate parameters:

```
%let sysparm==
   <CONFIGDIR>/AppData/SASRiskManagementForInsurance/2.12/indata;
%let create_sdm_file_loc=
   <SASCONFIG>\Applications\SASRiskManagementForInsurance\2.12\source\common\
      solution_data_mart;
%inc "&create_sdm_file_loc/create_solution_data_mart.sas";
```

2. Check the SAS log for successful execution of the preceding macro.

Update RMI Staging metadata

If the ETL bridge has been installed, the following should be executed in order to synchronise the metadata for the RMI Staging library with the physical tables:

```
Options
   metapass="<password for metadata user>"
```

```
      metaport=<port number>
      metaprotocol=bridge
      metarepository="foundation"
      metaserver="<metadata server>"
      metauser="<metadata user id>";

   proc metalib;
      omr (library="RMI Staging" repname="foundation");
      update_rule (delete noadd);
      report;
   run;
```

Rebuild / Redeploy Web application

This hot fix requires that the Web Application be rebuilt and redeployed. Use the following steps to perform this post-installation task:

Step 1: Re-build Web Application

In order for this step to execute correctly, the Metadata Server must be running.

1.1 Invoke the SAS Deployment Manager 9.3

From the SASDeploymentManager directory, launch the *sasdm* executable SAS Deployment Manager is installed in the following default location:

<SASHOME>\SASDeploymentManager\9.3

1.2 Select a language in the *Choose Language* box

1.3 Select Rebuild Web Applications

1.4 Select Configuration Directory or Enter the Configuration Directory and Level that needs to be updated

1.5 Specify Connection Information, including the *sasadm* User ID and Password

1.6 Select *Risk Management for Insurance* as the Web Application to Rebuild

1.7 Verify the information on the Summary screen and select Start

1.8 Select Finish when the deployment is complete

This process will update the *Risk Management for Insurance* ear in *<SASCONFIGDIR>\Web\Staging*.

A backup of the original ear file will be placed in the directory below:

<SASCONFIGDIR>\Web\Staging\Backup

Step 2: Re-deploy Web Applications

Re-deploy the web applications based on the instructions for the web application server you are using.

Create Shared Entity Data Mart

1. Delete all user folders found in
   <SASCONFIG>/AppData/SASRiskManagementForInsurance/2.12/data/userdata

2. Login to **Risk Management for Insurance 2.12 (location can be found in instructions.html)**

3. Select **File > Select Entity**, choose an entity from the list, and click **OK**.

4. Re-create the shared data mart for that entity.

   a. Select **File > Manage Shared Data Mart** from the menu and click **Delete**, then click
   b. **Create** in the same **Manage Shared Data Mart** window.

5. Repeat previous step for each Entity.

K22004 for SAS Risk Reporting Repository for Insurance 2.12

No data model changes have been made in the latest hotfix. If the previous hotfix, K02003 is already installed, you just need to update the version information of the private RRR location and Shared location as described below.

Updating the version information:
The Risk Reporting Repository version information in contained as a row entry in the table rr_version_info. You can update the version information by opening up the dataset in a SAS session and editing the entry from "21_M2_HF3" to "21_M2_HF4". This step is necessary for both the private and shared locations.

If the previous hotfix, K02003 has not been installed, you must first update the structures of the private RRR and Shared locations as described below and then update the version information as described above.

NB: Some tables and/or columns have been removed from the model. The files for these structures may still exist on your installation due to the delivery mechanism; however, code has been added to ignore the pre-existing files when necessary.

NB: If the SDM has been recreated in the previous section, the structures of the Private locations will be automatically updated with the latest reportmart structure. If the SDM has not been recreated, then the following methods can be applied to both the private and shared locations depending on the state of your installation to update the reportmart to the latest structure.

Updating via the provided sample data:

If a given reportmart location has not been updated by another process, creating the shipped reportmart sample data in a given location will install the data model changes.

The shipped sample data scripts already contain the updates in the RRR data model/formats. If

you would like to utilize the shipped RMI sample data for the RRR without maintaining existing data, create the RRR sample data using the following steps.

Note: The sample data creation script does not depend on the version of the original RRR that is being overwritten. This script will overwrite the existing data and data model. For example, if you are have the RRRI 212 version of the RRR and are installing the RRR hotfix, by creating the shipped sample data you do not need to install the "sample data for the previous release". The shipped sample data is a snapshot of the given version.

Submit the following code with your installation specific information:

```
options metauser="<username>" metapass="<password>" metaserver="<server_name>"
metaport=<port_number> metarepository="Foundation";

%rmiinit;
%rmi_batch_create_rrr_sample_data(ENTITY=MAIN
      ,USERNAME=<username>
      ,SCOPE=P);
```

* If you need to install the reportmart sample data to the Global RRR with the sample data script, you must submit the following code with the additional information and changes:

```
%let rrr_user=<username>;
%let rrr_password=<Password>;

options metauser="<username>" metapass="<password>" metaserver="<server_name>"
metaport=<port_number> metarepository="Foundation";
%rmiinit;
%rmi_batch_create_rrr_sample_data(ENTITY=MAIN
      ,USERNAME=<username>
      ,SCOPE=S);
```

NOTE: It is not recommended that you use this process on the Global RRR unless you are absolutely certain of your specific installation needs. The script, as shown above, deletes the Global RRR and replaces the location with the new version of the RRR with the shipped sample data ONLY. All data in the Global location will be lost using this process.

This completes the installation of hot fix **K02004** on **Windows for x64**.