**Installation Instructions for Hot Fix F90012**

**Windows for x64**

**F90012** is a "container" hot fix that contains the following "member" hot fixes that will update the software components as indicated. See the ***Container Hot Fixes*** section in the Maintenance Install Tool (MIT) Usage Guide for more information about container hot fixes.

**G55010** for **SAS Detail Data Store for Insurance 5.4_M1**
**F88012** for **SAS Firmwide Risk Management for Insurance Server 2.1_M1**
**F89012** for **SAS Market Risk Management for Insurance Server 2.1_M1**
**F12013** for **SAS Risk Management for Insurance Server 2.1_M1**
**G54010** for **SAS Risk Reporting Repository 1.4_M1**
**F92012** for **SAS Underwriting Risk Management for Life Insurance Server 2.1_M1**
**F91012** for **SAS Underwriting Risk Management for P&C Insurance Server 2.1_M1**
**G61009** for **SAS Risk Management for Insurance Mid-Tier 2.1_M1**

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.

**IMPORTANT NOTES**

1.  Hot fix **F04002** for SAS Risk Dimensions 5.3_M1 is required prior to installing this hot fix.

    http://ftp.sas.com/techsup/download/hotfix/HF2/F04.html#F04002

2.  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.

3.  When applying this hot fix, you **MUST use the -silent and the -alwaysoverwrite** options. ANY customizations that may have been made to files included in the hot fix will be lost. The hot fix installer will automatically back up files for you. After the hot fix has been installed, use the backup copies to merge any of the customizations that you wish to retain. Links to manifests are provided in the section below to assist in determining which files will be overwritten.

4.  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.

5.  Configurations and related uncompiled macro files for the following reports will be

updated in this install:

- ASSETS-D1
- ASSETS-D1Q
- ASSETS-D1S
- ASSETS-D2O
- ASSETS-D2T
- ASSETS-D3
- ASSETS-D4
- ASSETS-D5
- ASSETS-D6
- BS- C1
- BS-C1D
- DurLiab
- Country-K1
- Cover-A1A
- Cover-A1Q
- G01
- G03
- G04
- IGT1
- IGT2
- IGT3
- IGT4
- Lapses
- MCR-B4A
- MCR-B4B
- OF-B1Q
- P&L
- RC
- RE-J1 Basic
- RE-J1 Shares
- RE-J2 Basic
- RE-J2 Shares
- REJ2 Group
- RE-J3
- RE-SPV
- SCR-B2A
- SCR-B2A_B2C
- SCR-B2B
- SCR-B2C
- SCR-B3A
- SCR-B3B
- SCR-B3C
- SCR-B3D
- SCR-B3E

- SCR-B3G
- TP-E1
- TP-E1Q
- TP-E2
- TP-E3
- TP-E4
- TP-E6
- TP-E7A
- TP-E7B
- TP-F1
- TP-F1Q
- TP-F2
- TP-F3
- TP-F3A
- TP-F3B
- TP-F4
- VA-C2A
- VA-C2B
- VA-C2C

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

- Assets-D1
- Assets-D1Q
- Assets-D1S
- Assets-D2O
- Assets- D2T
- Assets-D3
- Assets-D4
- Assets-D5
- Assets-D6
- BS- C1
- BS-C1D
- Country-K1
- Cover-A1A
- Cover-A1Q
- DurLiab
- G01
- G03
- G04
- IGT1
- IGT2
- IGT3
- IGT4
- Lapses

- MCR-B4A
- MCR-B4B
- OF-B1Q
- P&L
- RC
- RE-J1 Basic
- RE-J1 Shares
- RE-J2 Basic
- RE-J2 Shares
- RE-J2 Group
- RE-J3
- SCR-B2A
- SCR-B2A_B2C
- SCR-B2B
- SCR-B2C
- SCR-B3A
- SCR- B3C
- SCR-B3E
- SCR-B3G
- TP-E1
- TP-E1Q
- TP-E2
- TP-E3
- TP-E4
- TP-E7A
- TP-E7B
- TP-F1
- TP-F1Q
- TP-F2
- TP-F3
- TP-F3A
- TP-F3B
- TP-F4
- VA-C2B
- VA-C2C

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:

- Cover-A1
- C2_ANALYSIS_LF
- C2_ANALYSIS_NL
- C2_SUMMARY
- G10
- G15

- G20
- G30
- IGT5
- IGT6
- TP-E5
- TP-E7
- VA-C2D

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

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

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 tables and columns 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

## Columns for the newly added tables:

| Table Name | Column name |
| --- | --- |
| XBRL_COMPLEXTYPE | CONFIG_SET_ID |
| | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| | BASE_CD |
| | MAXINCLUSIVE |
| | MAXLENGTH |
| | MININCLUSIVE |
| | NAME_CD |
| | PATTERN_CD |
| | |
| XBRL_COMPLEXTYPE_ENUMERATION | CONFIG_SET_ID |
| | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| | NAME_CD |
| | VALUE_VAR |
| | |
| XBRL_DIMENSION | CONFIG_SET_ID |
| | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| | DIMENSION_CD |
| | REPORT_CD |
| | DIMENSIONTYPE |
| | FORMAT_CD |
| | MEMBERTAG |
| | VARIABLE_CD |
| | VARIABLESTAG |
| | |
| XBRL_FACTELEMENTS | CONFIG_SET_ID |
| | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| | BASETYPE_CD |
| | ELEMENTCODE |
| | ELEMENTNAME |
| | PERIODTYPE |
| | TAXONOMY |
| | |
| | TYPE_CD |
| XBRL_FMT | CONFIG_SET_ID |
| | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| | FMTNAME |
| | START |

REPORT_CD
DATATYPE
DECSEP
DEFAULT
DIG3SEP
EEXCL
END
FILL
FUZZ
HLO
LABEL
LANGUAGE
LENGTH
MAX
MIN
MULT
NOEDIT
PREFIX
SEXCL
TYPE

XBRL_REPORT
CONFIG_SET_ID
VALID_FROM_DTTM
VALID_TO_DTTM
DESCRIPTION
REPORT_CD
TEMPLATE_CD
ITEMVAR
VALUEVAR

XBRL_SCHEMA
CONFIG_SET_ID
VALID_FROM_DTTM
VALID_TO_DTTM
PREFIX_VAL
REPORT_CD

7. You must have Administrator Privileges on your CLIENT or SERVER machine.
8. All currently active SAS sessions, daemons, spawners and servers must be terminated before applying this hot fix.
9. This hot fix should be installed using the same userid that performed the initial software installation.
10. On UNIX systems, you may need to adjust file permissions on all new and updated files to meet with your sites security guidelines.

**INSTALLATION**

This hot fix must be installed on each machine where the updated components of the product, listed above, are installed. The installation process will determine which components of *SAS Risk Management for Insurance 2.1_M1* are installed on each machine, and apply the appropriate updates.

If the updated components of this product are installed on multiple operating systems, you

must download the hot fix for the appropriate operating system(s) and follow the installation instructions provided to complete the deployment of this hot fix.

The installer downloaded is *F90012x6.exe*.

When downloading SAS 9.2 hot fix packages, you must choose to *Save* the hot fix to disk, and then execute the install from the saved location. Attempting to install a hot fix directly from the download page results in the error documented in SAS Note 37104.

- To install this hot fix execute F90012x6.exe using both the *-alwaysoverwrite* and *–silent* options.

This will initiate the installation wizard, which will guide you through the hot fix installation process.

*Note:* If your Windows operating system is Windows Vista, Windows 7 or Windows Server 2008, it may be necessary to install with the "Run as administrator" option. Within the Start menu's Accessories folder, right-click the Command Prompt shortcut, and select "Run as Administrator" option. Next execute F90012x6.exe using the -alwaysoverwrite option.

See the Maintenance Install Tool (MIT) Usage Guide for more details on the installation of hot fixes. The content of this hot fix is listed in the hot fix manifest. This completes the installation of F90012. You must perform any "Post-Installation Instructions" documented below to successfully complete the deployment of this hot fix.

**POST-INSTALLATION INSTRUCTIONS**

**G55010** for **SAS Detail Data Store for Insurance 5.4_M1**
**F88012** for **SAS Firmwide Risk Management for Insurance Server 2.1_M1**
**F89012** for **SAS Market Risk Management for Insurance Server 2.1_M1**
**F12013** for **SAS Risk Management for Insurance Server 2.1_M1**
**G54010** for **SAS Risk Reporting Repository 1.4_M1**
**F92012** for **SAS Underwriting Risk Management for Life Insurance Server 2.1_M1**
**F91012 for SAS Underwriting Risk Management for P&C Insurance Server**
**G61009 for SAS Risk Management for Insurance Mid-Tier 2.1_M1**

**G55010 for SAS Detail Data Store for Insurance 5.4_M1**

1. If you have existing DDS physical tables, take a backup of the data in a different location.
2. Following is the summary of the changes in this hot fix:

   **Newly added tables:**

- ACCOUNTING_TRANS
- ACCOUNTING_TRANS_LINE_ITEM
- ACCOUNT_PERIOD
- ACCOUNT_PERIOD_ASSOC
- ASSET_PORTFOLIO_SEGMENT
- ASSET_SEGMENT_X_EXPOSURE
- BUSINESS_ENTITY
- CEDED_LOSS
- CLAIM_INJURED
- CLAIM_UNIT_X_INJURED
- CONTRACT_SECTION_X_RI_CARRIER
- CREDIT_FACILITY_CR_MITIGANT
- CURRENCY_CONVERSION_RATE
- EXPOSURE_PLEDGED
- EXTERNAL_ORG_INDUSTRY_CLASS
- FRA_INSURMENT_LEG
- GL_SEGMENT_BALANCE
- GL_SEGMENT_PARAMETER
- GL_SEGMENT_PARAM_GROUP
- REINSURANCE_COLLATERAL
- REINSURANCE_CONTRACT
- REINSURANCE_CONTRACT_SECTION
- REINSURANCE_COVERAGE
- REINSURANCE_COVERAGE_REFERENCE
- REINSURANCE_INTERMEDIARY
- REINSURANCE_PROGRAM
- REINSURANCE_RATE
- REINSURANCE_REINSTATEMENT
- RISK_DRIVER
- RISK_DRIVER_X_EXPOSURE
- RI_TRANS_X_CEDED_LOSS
- SUB_LEDGER
- SUB_LEDGER_BALANCE
- TRADE
- XL_LAYER
- XL_LAYER_X_RI_CARRIER

**Newly added columns:**

| Table Name | Column Name |
|---|---|
| ASSET_SEGMENT_X_EXPOSURE | FINANCIAL_POSITION_RK |
| BOND_INSTRUMENT | PRINCIPAL_EXCHANGE_FLG<br>CONVERTIBLE_FLG |
| CEDED_LOSS | CEDED_LOSS_AMT_CHANGE_DTTM |
| CLAIM_UNIT | CLAIM_UNIT_CURRENCY_CD<br>RECOVERY_ESTIMATED_AMT<br>RECOVERY_RECEIVED_AMT<br>APPLICATION_RK |
| COMML_PROP_DETAILS | APPLICATION_RK |
| COMML_VEHICLE_DETAILS | CEDED_LOSS |
| CONTRACT_SECTION_X_RI_CARRIER | ANNOTATION_TXT |
| CONVERSION_SCHEDULE | VALID_FROM_DTTM<br>VALID_TO_DTTM |
| COUNTERPARTY | MIN_CAPITAL_REQ_FLG<br>SINGLE_NAME_EXPOSURE_FLG<br>SOLVENCY2_STANDARD_ID |
| COVERED_PERILS | PERIL_RK |
| CREDIT_FACILITY | CIC_CD UNWIND_MAX_LOSS_AMT<br>UNWIND_TRIGGER_EVENT_TYPE_CD |
| CREDIT_RISK_MITIGANT | PRIM_COLL_ASSET_TYPE_CD |
| EMBEDDED_OPTIONS | EMBED_OPT_SCHEDULE_LOOKUP_FLG |
| FINANCIAL_ACCOUNT | CIC_CD<br>INT_PAYMENT_DAY_OF_MONTH_NO<br>PAYMENT_DAY_OF_MONTH_NO<br>PREPMT_PSA_SPEED_RT<br>RESET_DAY_OF_MONTH_NO<br>UNWIND_MAX_LOSS_AMT<br>UNWIND_TRIGGER_EVENT_TYPE_CD |
| FINANCIAL_FUND | PROFIT_PARTICIPATION_PCT<br>DERIVATVE_HELD_LINKED_FUND_FLG |
| FINANCIAL_INSTRUMENT | CIC_CD<br>INT_PAYMENT_DAY_OF_MONTH_NO<br>PAYMENT_DAY_OF_MONTH_NO<br>RESET_DAY_OF_MONTH_NO<br>UNWIND_MAX_LOSS_AMT<br>UNWIND_TRIGGER_EVENT_TYPE_CD |

| | |
|---|---|
| FINANCIAL_INSTRUMENT_ASSOC | PHYSICAL_ASSET_RK |
| FINANCIAL_INSTRUMENT_CHNG | PREM_PAID_PERIOD_TO_DATE_AMT<br>SWAP_INFLOW_PERIOD_TO_DATE_AMT<br>SWAP_OUTFLW_PERIOD_TO_DATE_AMT<br>SWAP_DELIVERED_CURRENCY_CD<br>SWAP_RECEIVED_CURRENCY_CD |
| FINANCIAL_POSITION | CUSTODIAN_COUNTERPARTY_RK |
| FUND_INSTRUMENT | LEVEL_OF_LOOKTHROUGH_CD<br>DELTA_RT |
| GENERAL_UNIT_OF_EXPOSURE | UNDERWRITING_MODEL_AMT<br>UNDERWRITING_MODEL_TYPE_CD |
| GL_ACCOUNT | CONTROL_ACCOUNT_FLG |
| GL_ACCOUNT_BALANCE | ACCOUNT_PERIOD_RK AS_OF_DATE<br>GL_BALANCE_BASE_CURRENCY_CD<br>GL_BALANCE_REPT_CURRENCY_CD<br>REPORTING_METHOD_CD<br>TAX_RT |
| GL_SEGMENT_BALANCE | AS_OF_DT<br>TAX_RT |
| GL_JRNL | REVERSAL_DESC<br>REVERSAL_REASON_CD<br>REVERSED_GL_JRNL_ID |
| GL_JRNL_DETAILS | ACCOUNT_PERIOD_RK |
| GL_SEGMENT_PARAM_GROUP | GL_SEGMENT_GROUP_DESC |
| GL_SEGMENT_PARAMETER | PARAMETER_DESC |
| INDIVIDUAL | DECEASED_DT |
| LEGAL_PROT_INSURED_SUBJECT | APPLICATION_RK |
| LIABILITY_INSURED_SUBJECT | APPLICATION_RK |
| OTHER_INSURED_SUBJECT | APPLICATION_RK |
| PERIL | PERIL_RK<br>VALID_FROM_DTTM<br>VALID_TO_DTTM |
| PERS_PROP_DETAILS | APPLICATION_RK |
| PERS_VEHICLE_DETAILS | APPLICATION_RK |
| PHYSICAL_ASSET | CIC_CD |

| | |
|---|---|
| PORTFOLIO | ASSET_PORTFOLIO_SEGMNT_TYPE_CD |
| REINSURANCE_CARRIER | PARTICIPATION_LIMIT_AMT |
| | RI_CARRIER_RK |
| | RI_CARRIER_TYPE_CD |
| | RI_NETWORK_ID |
| REINSURANCE_COLLATERAL | EFFECTIVE_DTTM |
| | EXPIRATION_DTTM |
| REINSURANCE_CONTRACT_SECTION | GROSS_RETENTION_PCT |
| REINSURANCE_EXPOSURE | CEDING_COMMISSION_AMT |
| | RI_AMT_SHARE |
| | RI_CONTRACT_SECTION_RK |
| | RI_EXP_EFFECTIVE_DT |
| | RI_EXP_EXPIRATION_DT |
| REINSURANCE_TRANS | RI_CONTRACT_RK |
| | RI_CONTRACT_SECTION_RK |
| | RI_REINSTATEMENT_RK |
| | XL_LAYER_RK |
| REINSURANCE_TRANS_LINE_ITEM | LINE_ITEM_TRANS_AMT |
| | RI_CONTRACT_RK |
| | RI_CONTRACT_SECTION_RK |
| REPO_INSTRUMENT | COLLATERAL_TYPE_CD |
| | ROLLOVER_STRATEGY_ID |
| RF_CURVE_X_RF_GROUP | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| RI_TRANS_X_RI_EXPOSURE | RI_CONTRACT_RK |
| | RI_EXP_TRANS_AMT |
| RISK_FACTOR | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| RISK_FACTOR_CURVE | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| RISK_FACTOR_GROUP | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| RSK_FCTR_X_ANAL_MDL_TRANS_METH | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| RISK_FACTOR_X_RISK_FCTR_CURVE | VALID_FROM_DTTM |
| | VALID_TO_DTTM |
| SECURITIZATION_INSTRUMENT | PREPAY_STRUCTURED_PRODUCT_FLG |
| SECURITIZATION_POOL | RESECURITIZATION_FLG |
| | UNDERLYING_PRODUCT_TYPE_CD |
| | UNDERLYING_COLLATERAL_TYPE_CD |

| | |
|---|---|
| SUB_LEDGER | AS_OF_DT |
| SWAP_INSTRUMENT_LEG | PAYMENT_DAY_OF_MONTH_NO<br>INT_PAYMENT_DAY_OF_MONTH_NO<br>RESET_DAY_OF_MONTH_NO |
| TECHNICAL_INSURED_SUBJECT | APPLICATION_RK |
| XL_LAYER | CAP_RANGE_1_AMT_TYPE_CD<br>CAP_RANGE_2_AMT_TYPE_CD<br>DEDUCTIBLE_1_AMT<br>DEDUCTIBLE_2_AMT<br>LIMIT_1_AMT LIMIT_2_AMT |
| XL_LAYER_X_RI_CARRIER | ANNOTATION_TXT |

## Renamed Columns:

The column ASSET_PORTFOLIO_X_EXPOSURE    RK from
ASSET_PORTFOLIO_SGMNT_X_EXPOSURE table had a typo. The column has been
renamed to ASSET_PORTFOLIO_X_EXPOSURE_RK.

## Deprecated tables and columns:

A few tables and columns were deprecated from previous versions. They are now
physically removed.

## Deprecated Tables

CLAIM_INJURED_DETAILS

REINSURANCE_CLAIM

REINSURANCE_TREATY

REINSURER_X_TREATY

RI_TREATY_X_COVERAGE

RI_TREATY_X_PERILS

SCHEDULE_X_TREATY

## Deprecated Columns

| Table Name | Column Name |
|---|---|
| ASSET_SEGMENT_X_EXPOSURE | FINANCIAL_INSTRUMENT_RK |
| BOND_VOLATILITY_QUOTE | TERM_CD |
| COMMODITY_VOLATILITY_QUOTE | TERM_CD |
| COVERED_PERILS | PERIL_CD |

| | |
|---|---|
| CREDIT_SPREAD_QUOTE | TERM_CD |
| FX_FORWARD_QUOTE | TERM_CD |
| FX_VOLATILITY_QUOTE | TERM_CD |
| INDEX_VOLATILITY_QUOTE | TERM_CD |
| INTEREST_RATE_QUOTE | TERM_CD |
| INT_RATE_VOLATILITY_QUOTE | TERM_CD<br>UNDERLYING_TERM_CD |
| PHYSICAL_ASSET_QUOTE | TERM_CD |
| REINSURANCE_CARRIER | PARTICIPATION_LIMIT<br>REINSURANCE_CARRIER_CD<br>REINSURANCE_NETWORK_ID<br>REINSURER_RK |
| REINSURANCE_COLLATERAL | EFFECTIVE_DT<br>EXPIRATION_DT |
| REINSURANCE_EXPOSURE | CESSION_LOWER_AMT<br>CESSION_TYPE_CD<br>CESSION_UPPER_AMT<br>CURRENCY_CD<br>FACULTATIVE_REINSURER_RK<br>REINSURED_AMT_TYPE_CD<br>RETENTION_AMT RI_EFFECTIVE_DT<br>RI_EXPIRATION_DT<br>RI_PREMIUM_BASIS_CD<br>RI_RISK_BASIS_CD TREATY_RK<br>ULTIMATE_CEDED_AMT |
| REINSURANCE_TRANS | TREATY_RK |
| REINSURANCE_TRANS_LINE_ITEM | TREATY_RK |
| RI_TRANS_X_RI_EXPOSURE | TREATY_RK |

**Columns with changed attributes:**

| Table Name | Column Name |
|---|---|
| ACCOUNT_PERIOD_ASSOC | ORDER_NO |
| CEDED_LOSS | CEDED_LAE_CASE_RESERVE_AMT<br>CEDED_PAID_LAE_AMT |
| CURRENCY_CONVERSION_RATE | CONVERSION_RT |

| | |
|---|---|
| EXTERNAL_ORG | NAICS_CD |
| | SIC_CD |
| | |
| FINANCIAL_INSTRUMENT | FINANCIAL_INSTRUMENT_NM |
| | |
| FUND_INSTRUMENT | LEVEL_OF_LOOKTHROUGH_CD |
| | |
| INDEX_QUOTE | INDEX_CD |
| | |
| INTERNAL_ORG | NAICS_CD |
| | SIC_CD |
| | |
| MARKET_DATA | DATA_DTTM |
| | |
| REINSURANCE_CONTRACT | CEDENTS_CONTRACT_ID |
| | |
| REINSURANCE_CONTRACT_SECTION | MAX_COVER_PER_RISK_EVENT |
| | |
| REINSURANCE_EXPOSURE | RI_PREMIUM_DUE_DT |
| | RI_PREMIUM_PAID_TO_DT |
| | |
| RISK_FACTOR_X_RISK_FCTR_CURVE | VALID_TO_DTTM |
| | |
| RSK_FCTR_X_ANAL_MDL_TRANS_METH | CURR_NUM_UNITS |
| | |
| UNIT_OF_MEASURE | UOM_TYPE_DESC |

1. If you already have existing DDS physical tables, execute the ddls of the tables that have undergone changes as mentioned in point 2 above from the *<SASHOME>\SASFoundation\9.2\insurancedds\sasmisc\insurancedds_5.4M1\ddl\sas* folder.

2. If you do not have existing DDS physical tables, execute the *ddlgen.sas* file present in *<SASHOME>\SASFoundation\9.2\insurancedds\sasmisc\insurancedds_5.4M1\ddl\sas* folder.

3. If you already have existing DDS physical tables, migrate data for those tables which are updated in this hot fix.

4. Copy the files present in <SASHOME>/SASFoundation/9.2/misc/insurancedds/insurancedds_5.4M1/metadata/ folder to a location that can be accessed by DI studio client.

5. Open DI studio and logon as unrestricted user.

6. If you have existing metadata for DDS, backup the same.

7. If you do not have existing metadata for DDS, import insurancedds_54m1_sas.spk followed by insurancedds_54m1_hf1_sas.spk, insurancedds_54m1_hf2_sas.spk, insurancedds_54m1_hf3_sas.spk, insurancedds_54m1_hf4_sas.spk, and insurancedds_54m1_hf5_sas.spk, insurancedds_54m1_hf6_sas.spk and insurancedds_54m1_hf7_sas.spk, insurancedds_54m1_hf8_sas.spk and insurancedds_54m1_hf9_sas.spk.

Note that before importing the insurancedds_54m1_hf2_sas.spk, please delete the table SCHEDULE_X_TREATY from the destination metadata server using DI Studio from the folder /Products/SAS Detail Data Store For Insurance/DDS5.4_M1/01 INSURANCE PRODUCT.

8. If you have existing metadata for DDS hot fix1, 2, 3, 4, 5, 6, 7 and 8 on top of 5.4M1, import insurancedds_54m1_hf9_sas.spk.

   **Notes:**

   a. Table ASSET_PORTFOLIO_SGMNT_X_EXPOSURE has been renamed to ASSET_SEGMENT_X_EXPOSURE. The data if existing in the original table needs to be migrated to the newly created table. Please note that the column ASSET_PORTFOLIO_X_EXPOSURE_RK in the original table is represented as ASSET_SEGMENT_X_EXPOSURE_RK in the new table.

   b. Once all hot fixes have been installed, execute the below code in DI Studio to delete the metadata for the physically removed tables/columns. The code below will synchronize table/column metadata as per physical table structures.

   In DI Studio, start the code editor from "Tools" menu and execute below code with appropriate values of parameters:

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

     proc metalib;
     omr (library="Detail Data Store"
     repname="foundation"); update_rule (delete);
     report;
     run;
   ```

For detailed instructions on creating physical table and importing metadata, please refer to *SAS® Detail Data Store for Insurance 5.4 Second Edition*.

**F88012 for SAS Firmwide Risk Management for Insurance Server 2.1_M1**

You should delete (or rename) the file rmif_pm_cpty_risk.sas found in SASFoundation/9.2/ucmacros/rmifirmmva/ folder. This file has been incorrectly delivered to this location. In this package, the most recent version of this file will be correctly delivered to the following location (misc/rmifirmmva/solution_data_mart/fw_env/methods/). If you do not delete/rename this file, it should not have any functional impact since the correct file is called

directly.

**F89012 for SAS Market Risk Management for Insurance Server 2.1_M1**

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


**F12013 for SAS Risk Management for Insurance Server 2.1_M1**

**Import updated .*spk* files:**

1. Backup existing metadata.

2. Import delivered SPK files using SAS MC Import/Export SAS Package wizard

    **a. Import updated *analysis.spk* for Firmwide Risk Server 2.1**

        i. Login to SAS Management Console (SMC) as the Administrator
          (sasadm) user
       ii. Click on the Folders tab
      iii. Navigate to the folder *Analysis* under System -> Applications -> SAS
          Risk Management for Insurance -> Firmwide Risk Server 2.1
      iv. Next, right-click on the *Analysis* folder and select **Import SAS Package**
          from the menu
       v. Browse to
          <SASHOME>\SASFoundation\9.2\rmifirmmva\sasmisc\Config\Deploy
          ment\Packages and select the analysis.spk file.
      vi. Select the radio button for **All Objects** and click Next.
      vii. You should see a list of STPs in the window. Click Next and then Next again.
     viii. Ensure that you have the correct mappings for the SAS Application
         Servers.
         Click Next.
      ix. On this screen, map source code repositories between original and
         target application servers. Choose the path to the
         <SASHOME>\SASFoundation\9.2\rmifirmmva\sasstp\ folder. Click Next.
      x. Review the Summary information and click Next if correct.
         Otherwise, click on the Back buttons to make necessary corrections
         in earlier steps.
      xi. 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.
      xii. Click Ok and then Finish.

**b. Import updated *configuration.spk* for FIRMWIDE Risk Server 2.1**

     i.   Login to SAS Management Console (SMC) as the Administrator (sasadm) user
    ii.   Click on the Folders tab
   iii.   Navigate to the folder Configuration under System -> Applications -> SAS Risk Management for Insurance -> Firmwide Risk Server 2.1
   iv.   Select all the STPs, right-click and select Delete.
    v.   Ensure that all STPs have been deleted from the Configuration folder.  The group solvency stored process configuration has been removed.
   vi.   Next, right-click on the Configuration folder and select Import SAS Package from the menu
  vii.   Browse to <SASHOME>\SASFoundation\9.2\rmifirmmva\sasmisc\Config\Deployment\Packages and select the configuration.spk file.
 viii.   Select the radio button for All Objects and click Next.
   ix.   You should see a list of STPs in the window. Click Next and then Next again.
    x.   Ensure that you have the correct mappings for the SAS Application Servers.
   xi.   Click Next.
  xii.   On this screen, map source code repositories between original and target application servers. Choose the path to the <SASHOME>\SASFoundation\9.2\rmifirmmva\sasstp\ folder. Click Next.
 xiii.   Review the Summary information and click Next if correct.  Otherwise, click on the Back buttons to make necessary corrections in earlier steps.
 xiv.   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.
  xv.   Click Ok and then Finish.


**c. Import updated *analysis.spk* for Life Risk Server 2.1**

    i.   Login to SAS Management Console (SMC) as the Administrator (sasadm) user
   ii.   Click on the Folders tab
  iii.   Navigate to the folder Analysis under System -> Applications -> SAS Risk Management for Insurance -> Life Risk Server 2.1
  iv.   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. You should also see a new STP, SLTH_SOLVENCY if not already added in a prior hotfix install.
   v.   Next, right-click on the Analysis folder and select Import SAS Package from the menu

vi. Browse to
<SASHOME>\SASFoundation\9.2\rmilifemva\sasmisc\Config\Deployment
/Packages and select the analysis.spk file.
vii. Select the radio button for **All Objects** and click Next
viii. You should see a list of STPs in the window. Click Next and then Next
again.
ix. Ensure that you have the correct mappings for the SAS Application Servers.
Click Next.

x. On this screen, map source code repositories between original and target
application servers. Choose the path to the
<SASHOME>/SASFoundation/9.2/sasstp/rmilifemva folder. Click Next.
xi. Review the Summary information and click Next if correct. Otherwise,
click on the Back buttons to make necessary corrections in earlier steps.
xii. 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.
xiii. Click Ok and then Finish.


d. **Import updated** *analysis.spk* **for Market Risk Server 2.1**

i. Login to SAS Management Console (SMC) as the Administrator (sasadm)
user
ii. Click on the Folders tab
iii. Navigate to the folder Analysis under System -> Applications -> SAS Risk
Management for Insurance -> Market Risk Server 2.1
iv. 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.
v. Next, right-click on the Analysis folder and select Import SAS Package
from the menu
vi. Browse to
<SASHOME>\SASFoundation\9.2\rmimktmva\sasmisc\Config\Deployment\P
ackages and select the analysis.spk file.
vii. Select the radio button for **All Objects** and click Next
viii. You should see a list of STPs in the window. Click Next and then Next
again.
ix. Ensure that you have the correct mappings for the SAS Application Servers.
Click Next.
x. On this screen, map source code repositories between original and target
application servers. Choose the path to the
<SASHOME>\SASFoundation\9.2\rmimktmva\sasstp folder. Click Next.
xi. Review the Summary information and click Next if correct. Otherwise,

click on the Back buttons to make necessary corrections in earlier steps.

xii. 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.

xiii. Click Ok and then Finish.

**e. Import updated *analysis.spk* for Property Casual Risk Server 2.1**

i. Login to SAS Management Console (SMC) as the Administrator (sasadm) user

ii. Click on the Folders tab

iii. Navigate to the folder Analysis under System -> Applications -> SAS Risk Management for Insurance -> Property Casual Risk Server 2.1

iv. 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. You should also see a new STP, NSLTH_SOLVENCY if not already added in a prior hotfix install.

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

vi. Browse to <SASHOME>\SASFoundation\9.2\rmipcmva\sasmisc\Config\Deployment\Pac kages and select the analysis.spk file.

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

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

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

x. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASHOME>\SASFoundation\9.2\rmipcmva\sasstpfolder. Click Next.

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

xii. 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.

xiii. Click Ok and then Finish.

**f. Import updated *reports.spk* for the RMI Common Server component**

i. Login to SAS Management Console (SMC) as the Administrator (sasadm) user

ii. Click on the Folders tab

iii. Navigate to the folder *Reports* under System -> Applications -> SAS Risk Management for Insurance -> Risk Management for Insurance Server 2.1

iv. Select all the *Reports*, right-click and select Delete. Ensure that all *Reports* have been deleted from the Reports folder.

v. Next, right-click on the Reports folder and select **Import SAS Package** from the menu

vi. Browse to *<SASHOME>\SASFoundation\9.2\rmicomnsvr\sasmisc\Config\Deployment\Packages* and select the *reports.spk* file.

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

viii. You should see a list of *Reports* in the window. Click Next and then Next again.

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

x. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasstp\ folder. Click Next.

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

xii. 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.

xiii. Click Ok and then Finish.

xiv. 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.

g. **Import updated *system.spk* for the RMI Common Server component**

i. Click on the Folders tab

ii. Navigate to the folder System under System -> Applications -> SAS Risk Management for Insurance -> Risk Management for Insurance Server 2.1

iii. Right-click on the System folder and select Import SAS Package from the menu

iv. Browse to <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasmisc\Config\Deployment\Packages and select the *system.spk* file.

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

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

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

viii. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasstp\ folder. Click Next.

ix. Review the Summary information and click Next if correct. Otherwise,

click on the Back buttons to make necessary corrections in earlier steps.

x. 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.

xi. Click Ok and then Finish.

xii. You should now see

    1. A new "Job name" parameter in the Parameters tab for the REPORT_OPTIONS STP if you had not installed F90004 or F90005.

    2. A new parameter for XBRL generation.

    3. A new "Verbose logging" parameter in the Parameters tab for the REPORT_OPTIONS STP

### h. Import updated *utilities.spk* for the RMI Common Server component

i. Login to SAS Management Console (SMC) as the Administrator (sasadm) user

ii. Click on the folders tab

iii. Navigate to the folder Utilities under System -> Applications -> SAS Risk Management for Insurance -> Risk Management for Insurance Server 2.1

iv. Depending on which hotfix was last installed, follow the steps in the appropriate section below followed by those in the **Common Steps** section to complete the import.

#### F90006 (or more recent) installed

v. Right-click on the folder named **Data Management** and click Delete

vi. Next, right-click on the Utilities folder and select **Import SAS Package** from the menu

vii. Browse to <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasmisc\Config\Deployment\ Packages and select the *utilities.spk* file.

viii. Select the radio button for **All Objects** and click Next. You should see a list of STPs in the window. Click Next and then Next again.

ix. Now, proceed with the Common Steps x. through xv.

#### F90006 not installed

v. Select the STPs listed below, right-click and click delete

- ACCOUNTING_MEASURES
- 
- 
- 
- 
-

RE_J1
RE_J2
RE_J3
TP_E4
TP_E6
TP_E7A
TP_E7B

The reason that these STPs need to be removed is to be able to consolidate them under a new **Data Management** folder (which will be installed from the *utilities.spk* files) and also because the .sas files they execute have been renamed.

vi. Next, right-click on the Utilities folder and select **Import SAS Package** from the menu

vii. Browse to <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasmisc\Config\Deployment\ Packages and select the *utilities.spk* file.

viii. Select the radio button for **All Objects** and click Next. You should see a list of STPs in the window. Click Next and then Next again.

ix. Now, proceed with the **Common Steps** x. through xv.

**Common Steps**

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

xi. On this screen, map source code repositories between original and target application servers. Choose the path to the <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasstp\ folder. Click Next.

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

xiii. 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:

xiv. Click Ok and then Finish.

xv. You should now see the following STPs in the Utilities folder in a new "Data Management" folder containing data management jobs:

- ACCOUNTING_MEASURES
- BSC1
- DMOTHER
- LOSS_TRIANGLE
- RE_J1
- RE_J2
- RE_J3

- TP_E4
- TP_E6
- TP_E7A
- TP_E7B

**i. Import updated *rmi_etl_bridge_m1_hf13.spk* for the RMI Solution Data Mart (SDM) ETL jobs**

    i. Following is the summary of the newly added and modified jobs in this hot fix:

    **Newly added jobs:**

    RMI_INT_100_I_ACCOUNT_CREDIT_RISK_MITIGANT
    RMI_INT_100_I_CREDIT_FACILITY_CR_MITIGANT
    RMI_INT_100_I_EXPOSURE_CR_MITIGANT_RANK
    RMI_INT_100_I_FINANCIAL_POSITION_CR_MITIGANT
    RMI_INT_100_I_FRA_INSTRUMENT_LEG
    RMI_INT_100_I_RISK_FACTOR_X_RISK_FCTR_CURVE
    RMI_STG_210_CLOSED_ASSET_DERIVATIVE
    RMI_STG_210_CLOSED_ASSET_DERIVATIVE_TRADE
    RMI_STG_210_EXPOSURE_CRM_LINK
    RMI_STG_210_GL_ACCOUNT_BALANCE_LOOP
    RMI_STG_210_GL_BAL_SEGMENT_ATTR_VAR
    RMI_STG_210_GL_BALANCE_SEGMENT
    RMI_STG_210_PORTFOLIO
    RMI_STG_210_QUOTE_FUND
    RMI_STG_210_RATE_PARAM_GROUP_X_PARAMETER
    RMI_STG_210_RI_CONTRACT_COLLATERAL
    RMI_STG_210_SEGMENTED_GL_ACCOUNT_BALANCE
    RMI_STG_210_SEGMENTED_GL_ACCOUNT_BALANCE_LOOP
    RMI_STG_210_SUB_LEDGER
    RMI_STG_210_ENTITY_SYSTEM_IDENTITY
    RMI_STG_210_LINE_OF_BUSINESS_ASSOC
    RMI_STG_230_CAPITAL_ALLOCATION
    RMI_STG_230_CAPITAL_COST

    **Modified Jobs:**

    RMI_INT_100_I_ASSET_SGMNT_X_EXPOSURE
    RMI_INT_100_I_BOND_INSTRUMENT
    RMI_INT_100_I_COUNTERPARTY
    RMI_INT_100_I_CREDIT_CARD_ACCOUNT
    RMI_INT_100_I_CREDIT_FACILITY
    RMI_INT_100_I_CREDIT_RISK_MITIGANT
    RMI_INT_100_I_EXTERNAL_ORG
    RMI_INT_100_I_FINANCIAL_INSTRUMENT
    RMI_INT_100_I_FINANCIAL_POSITION
    RMI_INT_100_I_FX_FORWARD_QUOTE

RMI_INT_100_I_FX_VOLATILITY_QUOTE
RMI_INT_100_I_INT_RATE_VOLATILITY_QUOTE
RMI_INT_100_I_INTEREST_RATE_QUOTE
RMI_INT_100_I_PHYSICAL_ASSET RMI_INT_100_I_RISK_FACTOR
RMI_INT_100_I_PORTFOLIO
RMI_INT_100_I_REPO_INSTRUMENT
RMI_INT_100_I_RISK_FACTOR_X_RISK_FCTR_CURV
RMI_INT_100_I_SWAP_INSTRUMENT_LEG
RMI_INT_100_I_COUNTERPARTY_CREDIT_ASSESSMENT
RMI_INT_105_I_FINANCIAL_ACCOUNT
RMI_INT_110_I_ACCT_POS_INST_FCLTY_APPEND
RMI_INT_110_I_QUOTE_VOLATILITY
RMI_STG_210_CEDED_LOSS
RMI_STG_210_CLAIM_HISTORY
RMI_STG_210_COUNTERPARTY_ASSOC
RMI_STG_210_COVERED_PERILS
RMI_STG_210_FINANCIAL_FUND
RMI_STG_210_JOIN_CUSTOMERS
RMI_STG_210_RI_CARRIER_X_RI_CONTRACT_SECTN
RMI_STG_210_FUND_INSTRUMENT
RMI_STG_210_GENERAL_INSURANCE_SUBJECT
RMI_STG_210_GENERAL_INSURANCE_UOE
RMI_STG_210_GL_ACCOUNT_ASSOC
RMI_STG_210_GL_ACCOUNT_BALANCE
RMI_STG_210_INSURANCE_SEGMENT
RMI_STG_210_INSURED_ITEM_LOCATION
RMI_STG_210_INTERNAL_ORG_ASSOC
RMI_STG_210_LIFE_INSURANCE_POLICY
RMI_STG_210_REINSURANCE_CONTRACT_SECTION
RMI_STG_210_REINSURANCE_COVERAGE
RMI_STG_210_RI_CARRIER_X_XL_LAYER
RMI_STG_210_SECURITIZATION_POOL_MART
RMI_STG_210_SUB_LEDGER RMI_STG_210_XL_LAYER
RMI_STG_230_ASSET_SGMNT_X_EXPOSURE
RMI_STG_230_CDO_INSTRUMENT
RMI_STG_230_CASHFLOW_ACCOUNT
RMI_STG_230_CASHFLOW_FRA
RMI_STG_230_CASHFLOW_INSTRUMENT
RMI_STG_230_CONVERSION_SCHEDULE
RMI_STG_230_CONVERTIBLE_BOND_INSTRUMENT
RMI_STG_230_COUNTERPARTY
RMI_STG_230_COUNTERPARTY_RATINGS
RMI_STG_230_CREDIT_RISK_MITIGANT
RMI_STG_230_DISCRETE_CARRYING_COST
RMI_STG_230_EMBEDDED_OPTIONS
RMI_STG_230_FINANCIAL_CONTRACT
RMI_STG_230_FINANCIAL_CONTRACT_ISSUE
RMI_STG_230_FINANCIAL_EXPOSURE
RMI_STG_230_GL_ACCOUNT
RMI_STG_230_OPTION_INSTRUMENT
RMI_STG_230_OPTION_SCHEDULE

RMI_STG_230_QUOTE_FX
RMI_STG_230_QUOTE_INDEX
RMI_STG_230_QUOTE_IR
RMI_STG_230_QUOTE_IR RMI_STG_230_QUOTE_VOLATILITY
RMI_STG_230_QUOTE_VOLATILITY
RMI_STG_230_REPO_INSTRUMENT
RMI_STG_230_RF_CURVE_X_RF_GROUP
RMI_STG_230_RISK_DRIVER
RMI_STG_230_RISK_DRIVER_X_FIN_CONTR
RMI_STG_230_RISK_FACTOR RMI_STG_230_RISK_FACTOR_CURVE
RMI_STG_230_RISK_FACTOR_GROUP
RMI_STG_230_RISK_FACTOR_X_RISK_FCTR_CURVE
RMI_STG_230_SWAP_INSTRUMENT


**Excluded Jobs:**

RMI_INT_100_I_ASSET_SGMNT_X_EXPOSURE
RMI_STG_210_REINSURANCE_TREATY
RMI_STG_210_COUNTERPARTY_X_RI_TREATY
RMI_STG_210_CEDED_EXPOSURE
RMI_STG_210_RATE_PARAM_GROUP
RMI_STG_230_ASSET_PORTFOLIO_SEGMENT
RMI_STG_230_ASSET_SGMNT_X_EXPOSURE

ii.   If you already have existing RMI21.M1 ETL jobs, import the
      *rmi_etl_bridge_m1_hf13.spk* file from
      <SASHOME>\SASFoundation\9.2\SASRiskManagementForInsuranceMid
      Tier\2.1\ETL folder as explained below.

      Note: If RMI21.M1 ETL is not existing then 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\2.1\ETL and
         select the *rmi_etl_bridge_m1_hf13.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. Execute the below code in DI Studio to delete the metadata for physically removed tables/columns.

The code below will synchronize table/column metadata as per physical structures. (Assumption: All DDLs for current hot fix have been executed.)

In DI Studio, start the code editor from "Tools" menu and execute below code with appropriate values of parameters.

```
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;
```

4. 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.

**Follow the steps below to regenerate the Solution Data Mart (SDM):**

1. Locate the *create_solution_data_mart.sas* file in your install: in a typical install, the macro resides under <SASHOME>\SASFoundation\9.2\rmicomnsvr\sasmisc\solution_data_mart

2. Open the *create_solution_data_mart.sas* file in a BASE SAS session on the installation server (where the SAS code resides)

3. Scroll to the bottom of the macro file and comment out the following line:

```
%create_solution_data_mart(
soln_data_mart_dir=&sysparm,
fca_c_lib_nm=FINCAD_Suite_32_2011,
```

```
      fea_c_lib_nm=intrlib,
      run_tps_fincad_flag=N,
      run_tps_fea_flag=N );
```

4. Compile the macro in the SAS session by clicking the **Submit** button on the menu

5. After successful compilation, execute the following macro below:

   %create_solution_data_mart(soln_data_mart_dir=<complete path to *indata* directory in your install>);

   Example of indata path:
   <CONFIGDIR>\AppData\SASRiskManagementForInsurance\2.1\indata

6. Check the SAS log for successful execution of the preceding macro.
   In addition, complete the following to recreate any shared entity data marts and user directories.

7. Delete all user folders found in
   <SASCONFIG>\Lev1\AppData\SASRiskManagementForInsurance\2.1\data\userdata

8. Login to **Risk Management for Insurance 2.1**

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

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

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

11. Repeat steps 8 and 9 for each Entity.


## G54010 for SAS Risk Reporting Repository 1.4_M1

Data model changes have been made to the SAS Risk Reporting Repository. You must update the structures of the private RRR location and Shared location.

There are different ways in which to apply the new structure. Please select one of the following methods that is applicable to your installation(s).

NB: In this release of the SAS Risk Reporting Repository previously marked deprecated 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 post-installation tasks for F12006 have been applied, the structures of the Private locations will be automatically updated with the latest reportmart structure for the F120089 post- installation tasks and the subsequent methods are not necessary for applying the data model changes to private RRR locations. The following methods can be applied to both the private and shared locations depending on the state of your installation.

## 1. <u>Updating via the provided sample data:</u>

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 RRR 14 m1 version of the RRR and are installing the sixth RRR hotfix, by creating the shipped sample data you do not need to install the "sample data for the previous hotfix". The shipped sample data is a snapshot of the given version.

Submit the following code with your installation specific information. (Note: This has changed from previous releases as you are now required to submit the *rmiinit;* prior to submitting the batch program.)

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

**%rmiinit;**
**%rmi_batch_create_rrr_sample_data(**
**ENTITY=MAIN,**
**USERNAME=<username>,**
**CONFIG_SET_ID = SOLVENCY2_LVL2_OCT2011,**
**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>,**
**CONFIG_SET_ID = SOLVENCY2_LVL2_OCT2011,**
**SCOPE=S);**

NOTE: It is <u>not recommended </u>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.

**2. <u>Updating an existing install with alter/migration scripts:</u>**

If you have existing data in your reportmart and wish to only apply the data model changes, execute the specific alter scripts for your given installations:

**A.** If the reportmart is the RRR14m1 version: execute *%run_rrr14m1_to_rrr14m1hf9*. Follow the instructions to execute this alter script in the PDF document *m1rrr14_to_m1rrr14hf9_instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:

Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/m1_to_hotfix9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/m1_to_hotfix9

**B.** If the reportmart is the RRR14m1hf1 version: execute *%run_rrr14m1hf1_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf1_to_m1rrr14hf8_instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:


Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix1_to_hotfix9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix1_to_hotfix9

**C.** If the reportmart is the RRR14m1hf2 version: execute *%run_rrr14m1hf2_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf2_to_m1rrr14hf*9_instructions.pdf that has been delivered with the alter scripts. These files will be typically located in the following directory:

Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix2_to_hotfix9
Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix2_to_hotfix9

**D.** If the reportmart is the RRR14m1hf3 version: execute *%run_rrr14m1hf3_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf3_to_m1rrr14hf8_instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:

Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix3_to_hotfix9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix3_to_hotfix9

**E.** If the reportmart is the RRR14m1hf4 version: execute *%run_rrr14m1hf4_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf4_to_m1rrr14hf*8_*instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:

Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix4_to_hotfix9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix4_to_hotfix9

**F.** If the reportmart is the RRR14m1hf5 version: execute *%run_rrr14m1hf5_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf5_to_m1rrr14hf*8_*instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:

Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix5_to_hotfix9


 Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix5_to_hotfix9

**G.** If the reportmart is the RRR14m1hf6 version: execute *%run_rrr14m1hf6_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf6_to_m1rrr14hf9_instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:
Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix6_to_hotfix9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix6_to_hotfix9


**H.** If the reportmart is the RRR14m1hf7 version: execute *%run_rrr14m1hf7_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document *m1rrr14hf7_to_m1rrr14hf9_instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:
Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9/hotfix7_to_hotfix9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9/hotfix7_to_hotfix9

**I.** If the reportmart is the RRR14m1hf8 version: execute *%run_rrr14m1hf8_to_rrr14m1hf*9. Follow the instructions to execute this alter script in the PDF document

*m1rrr14hf8_to_m1rrr14hf*9*_instructions.pdf* that has been delivered with the alter scripts. These files will be typically located in the following directory:

Win:
<SASHOME>/SASFoundation/9.2/rskrptmrtvrt/sasmisc/alterscripts/hotfix_9

Unix:
<SASHOME>/SASFoundation/9.2/misc/rskrptmrtvrt/alterscripts/hotfix_9

**3. Installing a new reportmart using the *ddls/createrrr.sas* script:**

If you would like to create a new RRR with the new data model, follow the instructions for installing a clear RRR in the **Installing and Configuring the SAS Risk Reporting Repository** section in the *SAS Risk Reporting Repository 1.4 Reference Guide, Second Edition*.

**F92012 for SAS Underwriting Risk Management for Life Insurance Server 2.1_M1**

NONE

**F91012 for SAS Underwriting Risk Management for P&C Insurance Server 2.1_M1**

NONE

**G61009 for SAS Risk Management for Insurance Mid-Tier 2.1_M1**

***If both F90006 and F90007 have been previously installed, the steps below can be skipped in their entirety.***

**Re-build and Re-deploy 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 9.2

From the SASDeploymentManager directory launch ***config.exe***.
SAS Deployment Manager is installed in the following default location:

*<SASHOME>/SASDeploymentManager/9.2*

**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.

Re-start the application (or the application server) using your application server's admin console.

Before accessing the web application, empty the Temporary Internet files location on the client machine used to access the web application from. This is a precautionary measure to avoid problems due to caching of older files in the internet browser.

This completes the installation of hot fix **F90012** on **Windows for x64**.