INSTALLATION INSTRUCTIONS FOR MAINTENANCE RELEASE 32RO06 ON WINDOWS

BEFORE DOWNLOADING

Maintenance Release 32RO06 addresses the issue(s) in 3.2/1.2 of SAS Merchandise Intelligence software on a Windows system as documented in the "Issue(s) Addressed" section of the maintenance release download page:

http://ftp.sas.com/techsup/download/hotfix/ro32.html#32RO06

Important Notes

- You can use these installation instructions only if you belong to one of these groups:
  - **New installation**: You are installing this maintenance release as part of a new installation of the SAS Merchandise Intelligence 3.2/1.2 software, and you have not installed any of the previous maintenance releases.
  - **Existing installation**: You are already running the SAS Merchandise Intelligence software, and you have already installed **all** previous maintenance releases: 32RO01, 32RO02, 32RO04, and 32RO05.

  You cannot use these installation instructions if you are already running the SAS Merchandise Intelligence software but you have not already installed all previous maintenance releases. Contact SAS Technical Support for help.

  You must know whether you are a new installation or an existing installation when you perform the post-installation steps for the Mid-Tier, Workbench, and SAS Server Tier.
- Technical Support strongly suggests that you back up each file that is being replaced by this maintenance release. You should always try to include the current date in the name of the backup file created to distinguish between versions of backup files. By doing this, you will maintain a history of the file, which will be helpful when multiple iterations of a maintenance release have been applied to the same file. For example:

  ```
  copy com.sas.solutions.di.server.jar com.sas.solutions.di.server.jar.02232009
  ```

  where 02232009 is the date when the maintenance release is applied. The .<date> extension must be appended after the .jar extension, as it appears above. For a complete list of files to back up, see Appendix A on page 17.
- The SAS Merchandise Intelligence client, SAS Merchandise Solutions Configuration Workbench, and SAS Merchandise Intelligence Plug-ins for SAS Management Console components are available only on Windows.

- You must have SAS Merchandise Intelligence 3.2/1.2 installed on your system before applying this maintenance release.
- You must install all tiers of the maintenance release by using the same user ID that you used to install each tier of SAS Merchandise Intelligence 3.2/1.2. The vpd.properties file from the initial installation must be in the user's home directory.
- You must have the appropriate administrative privileges to perform the steps described in these instructions.
- Before applying this maintenance release, you must terminate all currently active SAS Merchandise Intelligence sessions (user and MI Mid-Tier Server), object spawners, and metadata servers. You must run the `ps` command to verify that all processes have terminated as expected. If any SASHOME/sasexe/sas processes are still running, you must terminate them manually.
- You must install this maintenance release immediately before your weekly offline period.
- The customer documentation has been updated for this maintenance release. Download the new guides and view update sheets that list important changes:
  - SAS Revenue Optimization: http://support.sas.com/software/revoptimization/
  - SAS Size Optimization: http://support.sas.com/software/sizeoptimization/

Installing this Maintenance Release

Table 1 describes the components of the maintenance release package.

Table 1: Maintenance Release 32RO06 Package Components

Name	Contents
32disvr06wn.exe	Updates to the SAS MI Mid-Tier Server for Windows
32diclnt06wn.exe	Updates to the SAS Merchandise Intelligence Client for Windows
32dimctool06wn.exe	Updates to the SAS Merchandise Solutions Configuration Workbench for Windows NOTE: This software must be installed where the SAS Management Console is installed.
32dismc06wn.exe	Updates to the SAS Merchandise Intelligence Plug-ins for SAS Management Console for Windows NOTE: This software must be installed where the SAS Management Console is installed.
32didata06wn.exe	Updates to the SAS Server Tier for Windows

You can install only the individual components that apply to your system by using these instructions:

- UPDATING THE MID-TIER
- UPDATING THE CLIENT TIER
- UPDATING THE WORKBENCH ON THE SAS MANAGEMENT CONSOLE MACHINE
- UPDATING THE PLUG-INS ON THE SAS MANAGEMENT CONSOLE MACHINE
- UPDATING THE SAS SERVER TIER

UPDATING THE MID-TIER

Installing 32disvr06wn.exe

The server component of the maintenance release package is a self-extracting executable file named 32disvr06wn.exe.

Unless otherwise noted, the following steps apply to both a new installation and an existing installation.

Perform the following steps:

1. Copy the 32disvr06wn.exe file to the mid-tier machine.
2. Launch the executable to start the InstallShield Wizard, which will guide you through the setup process. The files will be installed in the root location of the mid-tier installation. For example:

   `C:\Program Files\SAS\SASMerchandiseIntelligence\Server\3.2`
3. View the Mid-Tier Verification List on page 17 to verify the installation of the maintenance release by confirming that the specified file(s) in the specified location(s) have been updated. (Verify that your date stamps match those in the list.)
4. For a new installation only, add the icu4j.jar file to the DI Server classpath by editing the wrapper.conf file. Do the following:
   a. Change directory to the conf folder of the mid-tier installation. For example:

      `C:\Program Files\SAS\SASMerchandiseIntelligence\Server\3.2\conf`
   b. Open the wrapper.conf file in a text editor.
   c. Locate the last entry in the Java Classpath section. One way to find the last entry is to locate the beginning of the next section, which is the Java Library Path section. For example:

      If you are using DB2, your Java Classpath section looks similar to the following example, where the last entry is 110 (with red text added for emphasis):

```
wrapper.java.classpath.107=./com.sas.solutions.di.server.mri.api.jar
wrapper.java.classpath.108=./com.sas.solutions.di.server.prf.api.jar

# Selected RDBMS = DB2, include the following:
# wrapper.java.classpath.109=@DB2_JDBC_DRIVER_PATH@db2jcc.jar
```

```
# wrapper.java.classpath.110=@DB2_JDBC_DRIVER_PATH@/db2jcc_license_cu.j
ar

wrapper.java.classpath.109=C:\Program Files\IBM\SQLLIB\java\db2jcc.jar
wrapper.java.classpath.110=C:\Program Files\IBM/SQLLIB\java\db2jcc_lic
ense_cu.jar

# Java Library Path (location of Wrapper.DLL or libwrapper.so)
```

If you are using Oracle, your Java Classpath section looks similar to the following example, where the last entry is 109 (with red text added for emphasis):

```
wrapper.java.classpath.107=./com.sas.solutions.di.server.mri.api.jar
wrapper.java.classpath.108=./com.sas.solutions.di.server.prf.api.jar

# Selected RDBMS = DB2, include the following:
# wrapper.java.classpath.109=@DB2_JDBC_DRIVER_PATH@db2jcc.jar
# wrapper.java.classpath.110=@DB2_JDBC_DRIVER_PATH@/db2jcc_license_cu.j
ar

wrapper.java.classpath.109=C:\oracle\product\10.2.0\db_1\jdbc\lib\ojdbc
14.jar

# Java Library Path (location of Wrapper.DLL or libwrapper.so)
```

NOTE: Your classpath definition numbers might not exactly match the numbers shown in these examples.

d. Add a new classpath definition for icu4j.jar after the last entry in the Java Classpath section. You must increment the classpath definition number by one. For example:

If you are using DB2, your new classpath definition entry looks similar to the following example:

```
wrapper.java.classpath.111=./icu4j.jar
```

If you are using Oracle, your new classpath definition entry looks similar to the following example:

```
wrapper.java.classpath.110=./icu4j.jar
```

e. Save your changes.

5. For a new installation only, delete the EndInvAtRiskRetail element from the mdo-views.xml file. Do the following:

a. Change directory to the cfg folder of the mid-tier installation. For example:

```
C:\Program Files\SAS\SASMerchandiseIntelligence\Server\3.2\cfg
```

b. Open the mdo-views.xml file in an editor.

c. Locate and delete the EndInvAtRiskRetail element, which appears after the EndInvAtRiskUnits element. The text to be deleted is shown in ***red*** in the following example.

```
  <element id="EndInvAtRiskUnits" width="100" />     <!--
MarkdownPlan.result.endInvUnitsAtRisk -->
  <element id="EndInvAtRiskRetail" width="100" />    <!--
MarkdownPlan.result.endInvAtRiskRetail -->
  <element id="EndInvUnits" width="100" />           <!--
```

```
MarkdownPlan.result.endInvUnits -->
```

d. Verify that your file looks similar to the following example:

```
  <element id="EndInvAtRiskUnits" width="100" />     <!--
MarkdownPlan.result.endInvUnitsAtRisk -->
  <element id="EndInvUnits" width="100" />           <!--
MarkdownPlan.result.endInvUnits -->
```

e. Save your changes.

UPDATING THE CLIENT TIER

Installing 32diclnt06wn.exe

The client component of the maintenance release package is a self-extracting executable file named 32diclnt06wn.exe.

Perform the following steps:

1. Copy the 32diclnt06wn.exe file to all client machines.
2. Launch the executable to start the InstallShield Wizard, which will guide you through the setup process. The files will be installed in the root location of the client installation. For example:

   `C:\Program Files\SAS\SASMerchandiseIntelligence\Client\3.2`

3. View the Client Tier Verification List on page 18 to verify the installation of the maintenance release by confirming that the specified file(s) in the specified location(s) have been updated. (Verify that your date stamps match those in the list.)

UPDATING THE WORKBENCH ON THE SAS MANAGEMENT CONSOLE MACHINE

Installing 32dimctool06wn.exe

NOTE: This software must be installed where the SAS Management Console is installed.

The SAS Merchandise Solutions Configuration Workbench component of the maintenance release package is a self-extracting executable file named 32dimctool06wn.exe.

Perform the following steps on the SAS Management Console machine:

1. Back up the validations.xml file. You must back up this file before you continue updating the Workbench. The default location for the validations.xml file is:

   `<!SASHOME>\SASMerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\config\validations.xml`

2. Copy the 32dimctool06wn.exe file to the SAS Management Console machine.
3. Launch the executable to start the InstallShield Wizard, which will guide you through the setup process. The files will be installed in the root location of the SAS Merchandise Solutions Configuration Workbench installation. For example:

```
C:\Program Files\SAS\SASMerchandiseIntelligence\ConfigWorkbench\3.2
```

4. View the Workbench Verification List on page 20 to verify the installation of the maintenance release by confirming that the specified file(s) in the specified location(s) have been updated. (Verify that your date stamps match those in the list.)

Workbench Post-Installation Instructions

For an existing installation, there are no post-installation steps for the Workbench.

For a new installation, you must perform the following steps:

1. Replace your validations.xml file (which is located by default in the <!SASHOME>\SAS-MerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\ config folder) with the validations.xml file that is available from your SAS Consultant. Or you can manually apply the maintenance release changes that are described in Appendix B on page 23 to your validations.xml file.
2. Add the following line to the end of the mctsmc.ini file, which is located by default in the C:\Program Files\SAS\SASManagementConsole\9.1\plugins folder:

   ```
   -vmargs -Xms512M -Xmx1024M
   ```

3. Delete the last three lines in the dimctool.ini file, which is located by default in the C:\Program Files\SAS\SASMerchandiseIntelligence\ConfigWorkbench\3.2 folder:

   ```
   -vmargs
   -Xms768M
   -Xmx1024M
   ```

4. You must perform the steps in the following section even if you do not have the SAS Merchandise Intelligence Plug-ins installed on this machine because the SAS Merchandise Solutions Configuration Workbench requires one of those files.

UPDATING THE PLUG-INS ON THE SAS MANAGEMENT CONSOLE MACHINE

Installing 32dismc06wn.exe

NOTE: This software must be installed where the SAS Management Console is installed.

The SAS Merchandise Intelligence Plug-ins component of the maintenance release package is a self-extracting executable file named 32dismc06wn.exe.

Perform the following steps on the SAS Management Console machine:

1. Copy the 32dismc06wn.exe file to the SAS Management Console machine.
2. Launch the executable to start the InstallShield Wizard, which will guide you through the setup process. The files will be installed in the root location of the SAS Management Console installation. For example:

   ```
   C:\Program Files\SAS\SASManagementConsole\9.1
   ```

3. View the Plug-Ins Verification List on page 20 to verify the installation of the maintenance release by confirming that the specified file(s) in the specified location(s) have been updated. (Verify that your date stamps match those in the list.)

UPDATING THE SAS SERVER TIER

Installing 32didata06wn.exe

The SAS Server Tier component of the maintenance release package is a self-extracting executable file named 32didata06wn.exe.

Perform the following steps on the SAS Server machine:

1. Copy the 32didata06wn.exe file to the SAS Server machine.
2. Back up the existing version of all the files before extracting the contents of this maintenance release package.
3. Launch the executable to start the InstallShield Wizard, which will guide you through the setup process. The files will be installed in the root location of the SAS installation. For example:

   `C:\Program Files\SAS\SAS 9.1`
4. View the SAS Server Tier Verification List on page 21 to see the list of files that were updated. Ensure that you did not receive errors when you extracted the files.

SAS Server Tier Post-Installation Instructions

Ensure that the following prerequisites have been met:

- The SAS Merchandise Intelligence 3.2/1.2 system is already deployed.
- All servers except the SAS Metadata Server are shut down. The instructions will indicate when you should start the SAS Object Spawner (Workspace Server) and then later all remaining servers.
- All SAS sessions are started with the MI autoexec_batch.sas file, which is located by default in \SAS \<Config Dir>\Lev1\MIMain\Batch.
- To log in to SAS Management Console or SAS Data Integration Studio, use the SAS Administrator user ID (for example, sasadm).

To determine which files you need to run, you must know whether you have an existing installation or a new installation (as described in Important Notes on page 1). The alter scripts are not cumulative.

- For an existing installation, perform the steps in Table 4 on page 10.
- For a new installation, perform the steps in Table 5 on page 11.

NOTE: The files names for the Maintenance Release 32RO06 alter scripts end with _32hf5a.
The file names for the Maintenance Release 32RO05 alter scripts end with _32hf5.
The file names for the Maintenance Release 32RO04 alter scripts end with _32hf4.
The file names for the Maintenance Release 32RO02 end with _32hf2.
The file names for the Maintenance Release 32RO01 end with _32hf.

Table 2: Required Post-Installation Files

Purpose	**Required Files For an Existing Installation**	**Required Files For a New Installation**
Update SAS Tables	alter_data_32hf5a.sas	alter_data_32hf.sas alter_data_32hf2.sas alter_data_32hf4.sas alter_data_32hf5.sas alter_data_32hf5a.sas
Update RDBMS Tables	alter_trans_db2_32hf5a.sql alter_trans_orcl_32hf5a.sql	alter_trans_db2_32hf.sql alter_trans_db2_32hf2.sql alter_trans_db2_32hf4.sql alter_trans_db2_32hf5.sql alter_trans_db2_32hf5a.sql alter_trans_orcl_32hf.sql alter_trans_orcl_32hf2.sql alter_trans_orcl_32hf4.sql alter_trans_orcl_32hf5.sql alter_trans_orcl_32hf5a.sql
Update Monitor Tables	None	alter_ddl_monitor.sas
Update Staging Tables	None	STG_MDO_IMPORT_PLAN.sas
Update ETL Jobs	None	MI_ETL_32.spk
Update Reports	None	mireports.spk

Table 3: Location of the Post-Installation Files

File Name	File Location
alter_data_32hf.sas alter_data_32hf2.sas alter_data_32hf4.sas alter_data_32hf5.sas alter_data_32hf5a.sas	`!SASROOT\di\sasmisc\ddl`
alter_trans_db2_32hf.sql alter_trans_db2_32hf2.sql alter_trans_db2_32hf4.sql alter_trans_db2_32hf5.sql alter_trans_db2_32hf5a.sql alter_trans_orcl_32hf.sql alter_trans_orcl_32hf2.sql alter_trans_orcl_32hf4.sql alter_trans_orcl_32hf5.sql alter_trans_db2_32hf5a.sql	`!SASROOT\di\sasmisc\dbmsc`
alter_ddl_monitor.sas	`!SASROOT\di\sasmisc\ddlmon`
STG_MDO_IMPORT_PLAN.sas	`!SASROOT\di\sasmisc\ddlstage`
MI_ETL_32.spk	`!SASROOT\di\sasmisc\etl`
mireports.spk	`!SASROOT\di\sasmisc\Config\cfg`

Table 4: Follow These Instructions for an Existing Installation

Purpose	Perform the following steps:
Have You Installed 32ROM502 Already?	1. If you have already installed 32ROM502, then you must skip steps 2 and 3 in this procedure. (If you have already installed 32ROM502, then you have already run the alter scripts that end with _32hf5a. You cannot run those scripts again.) To determine whether you have already installed 32ROM502, verify whether the following schema changes are already present in your data: • `UNIQUE INDEX PRICE_GRID_IX1 ON PRICE_GRID [RDBMS]` • `UNIQUE INDEX GEO_PROD_SET_IX2 ON GEO_PROD_SETTING [RDBMS]` • `INDEX PROD_HIER_SK ON DI_DM.ALLOWED_PRICE_CHG_DATE [SAS]`
Update SAS Tables	2. For the SAS tables in the Merchandise Intelligence Data Mart, run the required alter script: `%include "<path>\alter_data_32hf5a.sas";`
Update RDBMS Tables	3. For the RDBMS tables in the data mart, log into the DB client and alter the transactional data by running the required alter script as follows: • For DB2, run alter_trans_db2_32hf5a.sql. • For Oracle, run alter_trans_orcl_32hf5a.sql. 4. For SAS Revenue Optimization only, run your weekly back-end jobs.
Start SAS Object Spawner	5. Start the SAS Object Spawner for the SAS Workspace Server.
Update Metadata	6. In the SAS Management Console Server Manager plug-in, navigate to the appropriate MIMain – Stored Process Server and do the following: a. Right-click and select **Properties**. b. Select the **Options** tab. c. Select **Advanced Options**. d. Select the **Load Balancing Properties** tab. e. Enter 2 in the **Start Size** field. (The default value is 0.) f. Click **OK**. g. Click **OK**.
Finish	7. Start the client and perform the UI validation tests.

This completes the installation of Maintenance Release 32RO06 on Windows for an existing installation.

Table 5: Follow These Instructions for a New Installation

Purpose	Perform the following steps:

Update RDBMS Tables	1. For the RDBMS tables in the data mart, log into the DB client and alter the transactional data by running the required alter scripts as follows:
	• For DB2, run the required alter scripts in this order:
	• alter_trans_db2_32hf.sql
	• alter_trans_db2_32hf2.sql
	• alter_trans_db2_32hf4.sql
	• alter_trans_db2_32hf5.sql
	• alter_trans_db2_32hf5a.sql
	• For Oracle, run the required alter scripts in this order:
	• alter_trans_orcl_32hf.sql
	• alter_trans_orcl_32hf2.sql
	• alter_trans_orcl_32hf4.sql
	• alter_trans_orcl_32hf5.sql
	• alter_trans_orcl_32hf5a.sql
	2. On the database machine for your database type (DB2 or Oracle), do the following:
	• For Oracle, grant the following permissions:
	`GRANT SELECT, INSERT, UPDATE, DELETE ON DI_DM.MPLN_GEO_PROD_AGG TO MIDBUSER;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON DI_DM.MPLN_GEO_PROD_MTS TO MIDBUSER;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON DI_DM.PRF_ATTR TO MIDBUSER;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON DI_DM.PROCESS_PARAMETER TO MIDBUSER;`
	• For DB2, grant the following permissions:
	`SET CURRENT SCHEMA = DI_DM;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON MPLN_GEO_PROD_AGG TO MIDBUSER;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON MPLN_GEO_PROD_MTS TO MIDBUSER;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON PRF_ATTR TO MIDBUSER;`
	`GRANT SELECT, INSERT, UPDATE, DELETE ON PROCESS_PARAMETER TO MIDBUSER;`

Table 5: Follow These Instructions for a New Installation (continued)

Purpose	Perform the following steps:

	3. For DB2, for SAS Regular Price Optimization only, you must set the cache for the RPO_PLAN_MEMBER_SK column of the RPO_PLAN_MEMBER table:
	• Define a key cache of 1,000 as follows:
	`RPO_PLAN_MEMBER_SK INTEGER NOT NULL GENERATED BY DEFAULT AS IDENTITY(START WITH 1, INCREMENT BY 1, CACHE 1000 CYCLE)`
	• To set the CACHE of an identity column in a table that is already in use, modify the table with the following ALTER statement:
	`ALTER TABLE RPO_PLAN_MEMBER ALTER COLUMN RPO_PLAN_MEMBER_SK SET CACHE 1000;`

Update Monitor Tables	4. Run the alter_ddl_monitor script. Ensure that di_misc_path points to your SAS misc location. Ensure that truncate_x_tables = 1.
	`%include "<path>\alter_ddl_monitor.sas";`
	`%alter_ddl_monitor(`
	`LIBREF=DI_MON,`
	`di_misc_path=!SASROOT\di\sasmisc,`
	`DTTMFMT=NLDATM21.,`
	`DTFMT=DATE9.,`
	`FMTRK=12.,`
	`truncate_x_tables=1);`

Start SAS Object Spawner	5. Start the SAS Object Spawner for the SAS Workspace Server.

Update Staging Tables	6. Run a SAS session to run the STG_MDO_IMPORT_PLAN.sas as follows:
	`%let LIBREF = DIDM_STG;`
	`%let DTFMT = MMDDYY10.;`
	`Proc sql;`
	`%include "!SASROOT\di\sasmisc\ddlstage\STG_MDO_IMPORT_PLAN.sas";`
	`Quit;`

Table 5: Follow These Instructions for a New Installation (continued)

Purpose	Perform the following steps:

Update SAS Tables	7. For the SAS tables in the data mart, run the required alter scripts in this order:
	`%let LIBREF=DI_DM;`
	`%include "<path>\alter_data_32hf.sas";`
	`%include "<path>\alter_data_32hf2.sas";`
	`%include "<path>\alter_data_32hf4.sas";`
	`%include "<path>\alter_data_32hf5.sas";`
	`%include "<path>\alter_data_32hf5a.sas";`

Table 5: Follow These Instructions for a New Installation (continued)

Purpose	Perform the following steps:
Update Metadata	8. Log in to SAS Management Console as the SAS Administrator (for example, sasadm) and use the Data Library Manager to **Delete** and **Import Tables** metadata for the following tables in the following libraries: • DI_DM.MDO_IMPORT_PLAN • DIDM_STG.STG_MDO_IMPORT_PLAN NOTE: If you are prompted for additional credentials, specify the SAS MI User (for example, miuser) credentials 9. In the Data Library Manager plug-in, right-click the STG_MDO_IMPORT_PLAN table (from the DIDM_STG library) and select **Properties**. Select the **Columns** tab and verify that the value "No" appears under "Is Nullable" for the following columns only: • MDO_PLAN_NM • START_DT • ACTION_CD • PLAN_STATUS_CD All other columns in the STG_MDO_IMPORT_PLAN table should have a value of "Yes" under "Is Nullable." 10. In the Data Library Manager plug-in, right-click the DI_DM library, select **Import Tables**, and follow the prompts to import the PRF_SALES_DATA_SUMMARY table metadata. 11. In the SAS Management Console Server Manager plug-in, navigate to the appropriate MIMain – Stored Process Server and do the following: a. Right-click and select **Properties**. b. Select the **Options** tab. c. Select **Advanced Options**. d. Select the **Load Balancing Properties** tab. e. Enter 2 in the **Start Size** field. (The default value is 0.) f. Click **OK**. g. Click **OK**.

Table 5: Follow These Instructions for a New Installation (continued)

Purpose	Perform the following steps:
Update ETL Jobs	12. Log in to SAS Data Integration Studio as the SAS Administrator (for example, sasadm) and navigate to the **Repositories** > **Foundation** > **Jobs** folder**.** Perform these steps in this order: **Delete** the following jobs, **Import** the following jobs from the MI_ETL_32.spk file, and finally deploy **(Scheduling**) the following jobs: • Load_SRC2STG_Main • Load_STG2DM_Date_dm • Load_STG2DM_Geography_dm • Load_STG2DM_Product_dm • Load_DM_Product_hierarchy_history • Load_DM_Geo_hierarchy_history • Load_STG2DM_Prf_sales_fact • Load_STG2DM_Prf_stockout_fact • Load_STG2DM_Geo_date • Load_STG2DM_Promo_price_fact • Load_STG2DM_Mdo_import_plan • Load_STG2DM_Comp_price_fact • Load_STG_Product_hier_assoc_dm • Load_STG_Geography_hier_assoc_dm • Load_STG2DM_Product_hier_assoc_dm • Load_STGDM_Vehicle • Load_STG2DM_Vehicle_attr NOTE: If you are prompted for additional credentials, specify the MI ETL User (for example, mietlusr or another back-end user that is a member of the MI ETL Group) credentials. 13. Use SAS Data Integration Studio to **Import** and deploy (**Scheduling**) the new Load_DM_Prf_sales_data_summary job from the MI_ETL_32.spk file.
Update Reports	14. Log in to SAS Management Console as the SAS Administrator (for example, sasadm) and expand the BI Manager Plug-in. Right-click the **BIP Tree** and select **Import**. Import **All Objects** from the mireports.spk file. NOTE: If you are prompted for additional credentials, specify the SAS MI User (for example, miuser) credentials.

Table 5: Follow These Instructions for a New Installation (continued)

Purpose	Perform the following steps:
Finish	15. If you are already running the ETL jobs for SAS Size Profiling, run the Load_DM_Prf_sales_data_summary job. You must also add the Load_DM_Prf_sales_data_summary job into your weekly schedule of ETL jobs, after the Load_STG2DM_Prf_sales_fact job. NOTE: For the updated job dependency table and ETL job information, see the updated version of the *SAS Size Optimization Administrator's Guide*. 16. For SAS Revenue Optimization only, run your weekly back-end jobs. 17. Start all remaining servers. 18. From the SAS Size Profiling user interface, for all data projects, use the Profiling Data view to purge intermediate data (including cleansed data, size set data, and aggregated data) for each data project (before reprocessing the data project). For details, see the SAS Size Profiling online Help. NOTE: You are not required to delete data projects. You are required to purge the intermediate data for the data projects. 19. For all data projects that you plan to continue using, use the Generate Profiles view in the SAS Size Profiling user interface to generate profiles for each data project (for either Now or Overnight processing). NOTE: Before you run the overnight batch job, ensure that you have finished purging intermediate data for all data projects. 20. Start the client and perform the UI validation tests.

This completes the installation of Maintenance Release 32RO06 on Windows for a new installation.

APPENDIX A

This appendix enables you to verify the installation of the maintenance release by confirming that the file(s) in the location(s) below have been updated to the level that is indicated by the date stamp.

Mid-Tier Verification List

<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\icu4j.jar
Date: 2/8/2009 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.pko.adapter.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.pko.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.pko.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.prf.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.prf.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rcp.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rcp.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rpo.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rpo.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rpp.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rpp.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rpt.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\com.sas.solutions.di.server.rpt.jar
Date: 3/3/2010 (EST)

<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\common-table_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\mdo-table_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\mdo-table_ja.properties
Date: 8/14/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\mdo-table_ko.properties
Date: 10/7/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\mdo-views.xml
Date: 11/6/2007 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\prf-table_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\prf-table_ko.properties
Date: 10/7/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Server\3.2\cfg\promotion-table_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>/SASMerchandiseIntelligence/Server/3.2/cfg/rpo-table_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>/SASMerchandiseIntelligence/Server/3.2/cfg/rpo-table_ko.properties
Date: 10/7/2008 (EST)
<!SASHOME>/SASMerchandiseIntelligence/Server/3.2/cfg/rpo-views.xml
Date: 11/21/2007 (EST)

Client Tier Verification List

<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.mri.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.pko.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.prf.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.rcp.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.rpo.api.jar

Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.rpp.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.jars_3.2.0\lib\jars\com.sas.solutions.di.server.rpt.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.pko_3.2.0\com.sas.solutions.di.studio.pko.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.pko_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.prf_3.2.0\com.sas.solutions.di.studio.prf.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.prf_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.prf_3.2.0\plugin_ko.properties
Date: 9/23/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rcp_3.2.0\com.sas.solutions.di.studio.rcp.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rcp_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpo_3.2.0\com.sas.solutions.di.studio.rpo.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpo_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpp_3.2.0\com.sas.solutions.di.studio.rpp.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpp_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpp_3.2.0\plugin_ko.properties
Date: 9/5/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpt_3.2.0\com.sas.solutions.di.studio.rpt.jar
Date: 3/3/2010 (EST)

<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpt_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio.rpt_3.2.0\plugin_ko.properties
Date: 9/5/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio_3.2.0\com.sas.solutions.di.studio.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio_3.2.0\plugin_de.properties
Date: 11/20/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\Client\3.2\plugins\com.sas.solutions.di.studio_3.2.0\plugin_ko.properties
Date: 9/5/2008 (EST)

Workbench Verification List

<!SASHOME>\SASMerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\com.sas.solutions.di.tools.mct.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\plugins\config\mctool.xml
Date: 11/4/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\plugins\config\workflow.xml
Date: 11/14/2008 (EST)
<!SASHOME>\SASMerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\lib\jars\com.sas.solutions.di.server.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASMerchandiseIntelligence\ConfigWorkbench\3.2\plugins\com.sas.solutions.di.tools.mct_1.0.0\lib\jars\com.sas.solutions.di.server.jar
Date: 3/3/2010 (EST)

Plug-Ins Verification List

<!SASHOME>\SASManagementConsole\9.1\plugins\com.sas.solutions.di.server.api.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASManagementConsole\9.1\plugins\sas.solutions.di.smc.jar
Date: 3/3/2010 (EST)
<!SASHOME>\SASManagementConsole\9.1\plugins\sas.solutions.di.tools.mctsmc.jar
Date: 3/3/2010 (EST)

SAS Server Tier Verification List

NOTE: This list does not include dates because these files are assigned the current date when they are installed.

!SASROOT\dipca\sasexe\sasregpr.dll
!SASROOT\dipcl\sasexe\sasmdo.dll
!SASROOT\dippr\sasexe\sasevtpl.dll
!SASROOT\pkoptsassrv\sasexe\packopt.dll
!SASROOT\di\cmacros\sasmacr.sas7bcat
!SASROOT\dipca\cmacros\sasmacr.sas7bcat
!SASROOT\dipcl\cmacros\sasmacr.sas7bcat
!SASROOT\dippr\cmacros\sasmacr.sas7bcat
!SASROOT\pkoptsassrv\cmacros\sasmacr.sas7bcat
!SASROOT\sizepsassrv\cmacros\sasmacr.sas7bcat
!SASROOT\di\sasmisc\ddl\alter_data_32hf.sas
!SASROOT\di\sasmisc\ddl\alter_data_32hf2.sas
!SASROOT\di\sasmisc\ddl\alter_data_32hf4.sas
!SASROOT\di\sasmisc\ddl\alter_data_32hf5.sas
!SASROOT\di\sasmisc\ddl\alter_data_32hf5a.sas
!SASROOT\di\sasmisc\ddl\MDO_IMPORT_PLAN_DATA.SAS
!SASROOT\di\sasmisc\ddlstage\STG_MDO_IMPORT_PLAN.SAS
!SASROOT\di\sasmisc\ddlmon\alter_ddl_monitor.sas
!SASROOT\di\sasmisc\ddlmon\ddl_monitor.sas
!SASROOT\di\sasmisc\dbmsc\alter_trans_db2_32hf.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_db2_32hf2.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_db2_32hf4.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_db2_32hf5.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_db2_32hf5a.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_orcl_32hf.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_orcl_32hf2.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_orcl_32hf4.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_orcl_32hf5.sql
!SASROOT\di\sasmisc\dbmsc\alter_trans_orcl_32hf5a.sql
!SASROOT\di\sasmisc\seed\DI_Etl_Seed.sas
!SASROOT\di\sasmisc\seed\de\seed_process_message.properties
!SASROOT\di\sasmisc\seed\ko\seed_process_message.properties
!SASROOT\di\sasmisc\tool\di_mc_agg_forecast_eval.sas
!SASROOT\di\sasmisc\tool\di_mc_ppe_plot.sas
!SASROOT\di\sasmisc\tool\di_mc_price_distrib.sas
!SASROOT\di\sasmisc\tool\di_mc_price_distrib_reg_by.sas
!SASROOT\di\sasmisc\tool\di_mc_score_card.sas
!SASROOT\di\sasmisc\tool\di_mc_sf_md_plot.sas
!SASROOT\di\sasmisc \tool\di_mc_ts_decomp_plot.sas

!SASROOT\dipcl\sasstp\dipcl_rpt_mkdn_appr_nonplan_stp.sas
!SASROOT\di\sasmisc\etl\MI_ETL_32.spk
!SASROOT\di\sasmisc\Config\cfg\mireports.spk
!SASROOT\di\sasmisc\tool\di_mc_forecast_error_plot.sas
!SASROOT\di\sasmisc\tool\di_mc_score_card_grph.sas

APPENDIX B

This appendix describes all maintenance release changes that have been made to the validations.xml file between the initial installation of SAS Revenue Optimization 3.2 and Maintenance Release 32RO06. To learn how to use this information, see step 1 in the Workbench Post-Installation Instructions.

1. Remove the DURATION global setting.

2. Add support for the FCST_BESTN_LIST model specification for subtype = 2 by adding the following XML code after the existing FCST_BESTN_LIST entry:

```
<validation class="MultiValueValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="yes" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>FCST_BESTN_LIST</name>
            <description></description>
            <subtype>2</subtype>
            <defaultval>BESTN</defaultval>
            <scope>FCST</scope>
            <delimiter>_</delimiter>
            <pvalue>SIMPLE</pvalue>
            <pmeaning>SIMPLE_model.txt</pmeaning>
            <pvalue>DOUBLE</pvalue>
            <pmeaning>DOUBLE_model.txt</pmeaning>
            <pvalue>LINEAR</pvalue>
            <pmeaning>LINEAR_model.txt</pmeaning>
            <pvalue>DAMPTREND</pvalue>
            <pmeaning>DAMPTREND_model.txt</pmeaning>
            <pvalue>IDM</pvalue>
            <pmeaning>IDM_model.txt</pmeaning>
            <pvalue>MA</pvalue>
            <pmeaning>MA_model.txt</pmeaning>
            <pvalue>BESTN</pvalue>
            <pmeaning>BESTN_model.txt</pmeaning>
</validation>
```

3. Add support for the FCST_BESTS_LIST model specification for subtype = 2 by adding the following XML code after the existing FCST_BESTS_LIST entry:

```
<validation class="MultiValueValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="yes" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>FCST_BESTS_LIST</name>
            <description></description>
            <subtype>2</subtype>
            <defaultval>BESTS</defaultval>
            <scope>FCST</scope>
            <delimiter>_</delimiter>
            <pvalue>SIMPLE</pvalue>
            <pmeaning>SIMPLE_model.txt</pmeaning>
            <pvalue>DOUBLE</pvalue>
            <pmeaning>DOUBLE_model.txt</pmeaning>
            <pvalue>LINEAR</pvalue>
            <pmeaning>LINEAR_model.txt</pmeaning>
            <pvalue>DAMPTREND</pvalue>
            <pmeaning>DAMPTREND_model.txt</pmeaning>
            <pvalue>IDM</pvalue>
            <pmeaning>IDM_model.txt</pmeaning>
            <pvalue>MA</pvalue>
            <pmeaning>MA_model.txt</pmeaning>
            <pvalue>BESTN</pvalue>
            <pmeaning>BESTN_model.txt</pmeaning>
            <pvalue>BESTS</pvalue>
            <pmeaning>BESTS_model.txt</pmeaning>
            <pvalue>BEST</pvalue>
            <pmeaning>BEST_model.txt</pmeaning>
</validation>
```

4. Add support for the FCST_MA_ORDER model specification for subtype = 2 by adding the following XML code after the existing FCST_MA_ORDER entry:

```
<validation class="Validation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>FCST_MA_ORDER</name>
            <description></description>
            <subtype>2</subtype>
```

```
            <defaultval>2</defaultval>
            <scope>FCST</scope>
            <valuetype>integer_pos</valuetype>
</validation>
```

5. Add support for the INT_DISAGG model specification by adding the following XML code after the existing HOLIDAY_1 entry:

```
<validation class="BooleanValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>INT_DISAGG</name>
            <description></description>
            <subtype>2</subtype>
            <defaultval>0</defaultval>
            <scope>FCST</scope>
            <truevalue>1</truevalue>
            <truemeans></truemeans>
            <falsevalue>0</falsevalue>
            <falsemeans></falsemeans>
</validation>
```

6. Add support for the INT_BESTN_LIST model specification by adding the following XML code after the existing HOLIDAY_1 entry and before the new INT_DISAGG entry:

```
<validation class="MultiValueValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="yes" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>INT_BESTN_LIST</name>
            <description></description>
            <subtype>2</subtype>
            <defaultval>SIMPLE</defaultval>
            <scope>FCST</scope>
            <delimiter>_</delimiter>
            <pvalue>SIMPLE</pvalue>
            <pmeaning>SIMPLE_model.txt</pmeaning>
            <pvalue>DOUBLE</pvalue>
            <pmeaning>DOUBLE_model.txt</pmeaning>
            <pvalue>LINEAR</pvalue>
            <pmeaning>LINEAR_model.txt</pmeaning>
```

```
            <pvalue>DAMPTREND</pvalue>
            <pmeaning>DAMPTREND_model.txt</pmeaning>
            <pvalue>IDM</pvalue>
            <pmeaning>IDM_model.txt</pmeaning>
            <pvalue>MA</pvalue>
            <pmeaning>MA_model.txt</pmeaning>
            <pvalue>BESTN</pvalue>
            <pmeaning>BESTN_model.txt</pmeaning>
</validation>
```

7. Change < defaultval > value for the MAX_TIME_OPTIMIZE global setting to 30.

   Here is the XML code after you make the change (with red text added for emphasis):

```
<validation class="IntegerRangeValidation" type="global"
enabled="yes" editable="yes" required="yes" multiplevalues="no"
priority="no" auto="no" experimental="no" undocumented="no"
autogen="no">
            <name>MAX_TIME_OPTIMIZE</name>
            <description></description>
            <defaultval>30</defaultval>
            <scope>SZPK</scope>
            <categories>1</categories>
            <minvalue>0</minvalue>
            <maxvalue>100</maxvalue>
</validation>
```

8. Change < defaultval > value for the USE_ANCHOR_SCALING model specification to 0.

   Here is the XML code after you make the change (with red text added for emphasis):

```
<validation class="BooleanValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>USE_ANCHOR_SCALING</name>
            <description></description>
            <subtype>-1</subtype>
            <defaultval>0</defaultval>
            <scope>ALL</scope>
            <truevalue>1</truevalue>
            <truemeans>enable.txt</truemeans>
            <falsevalue>0</falsevalue>
```

```
            <falsemeans>disable.txt</falsemeans>
</validation>
```

9. Change <hierarchy> value for the SALES_AVG_PROD_LVL global setting to prod.

   Here is the XML code after you make the change (with red text added for emphasis):

```
<validation class="LevelValueValidation" type="global" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>SALES_AVG_PROD_LVL</name>
            <description></description>
            <defaultval>1</defaultval>
            <scope>ALL</scope>
            <categories>0</categories>
            <hierarchy>prod</hierarchy>
</validation>
```

10. Add support for the MAX_SUBPLAN_ILCNT global setting by adding the following XML code after the existing MAX_PROD_RULE_LVL entry for RPO scope:

```
<validation class="Validation" type="global" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>MAX_SUBPLAN_ILCNT</name>
            <description></description>
            <defaultval>15000</defaultval>
            <scope>RPO</scope>
            <categories>0</categories>
            <valuetype>integer_pos</valuetype>
</validation>
```

11. Change <defaultval> value for the INV_ADJ model specification from 0 to 1 in two places.

    Here is the XML code after you make the change (with red text added for emphasis):

```
<validation class="MultiValueValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>INV_ADJ</name>
            <description></description>
            <subtype>2</subtype>
            <defaultval>1</defaultval>
            <scope>ALL</scope>
```

```
            <allcomps>TS,REG</allcomps>
            <pvalue>0</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>do_NOT_include.txt</pmeaning>
            <pvalue>1</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>include_force.txt</pmeaning>
            <pvalue>2</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>auto_select.txt</pmeaning>
            <pvalue>4</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>force_effect_estimate.txt</pmeaning>
</validation>

<validation class="MultiValueValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>INV_ADJ</name>
            <description></description>
            <subtype>1</subtype>
            <defaultval>1</defaultval>
            <scope>ALL</scope>
            <allcomps>TS,REG</allcomps>
            <pvalue>0</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>do_NOT_include.txt</pmeaning>
            <pvalue>1</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>include_force.txt</pmeaning>
            <pvalue>2</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>auto_select.txt</pmeaning>
            <pvalue>3</pvalue>
            <pvscope>ALL,REG</pvscope>
            <pmeaning>use_TS_level_estimates.txt</pmeaning>
```

```
            <pvalue>4</pvalue>
            <pvscope>TS,ALL,REG</pvscope>
            <pmeaning>force_effect_estimate.txt</pmeaning>
</validation>
```

12. Change <defaultval> value for the MISC_ADJ_STATUS model specification from 1 to 2.

    Here is the XML code after you make the change (with red text added for emphasis):

```
<validation class="MultiValueValidation" type="mspec" enabled="yes"
editable="yes" required="yes" multiplevalues="no" priority="no"
auto="no" experimental="no" undocumented="no" autogen="no">
            <name>MISC_ADJ_STATUS</name>
            <description></description>
            <subtype>-1</subtype>
            <defaultval>2</defaultval>
            <scope>ALL</scope>
            <categories>1</categories>
            <pvalue>0</pvalue>
            <pmeaning></pmeaning>
            <pvalue>1</pvalue>
            <pmeaning></pmeaning>
            <pvalue>2</pvalue>
            <pmeaning></pmeaning>
</validation>
```

13. Change the version number in line 12 from R120 - 09/24/07 to R122mr5.