Hot fix **A1I005** addresses the issue(s) in **SAS Compliance Solutions 6.3_M1** as documented in the *Issue(s) Addressed* section of the hot fix download page:

http://ftp.sas.com/techsup/download/hotfix/HF2/A1I.html#A1I005

A1I005 is a "container" hot fix that contains the following "member" hot fixes which will update the software components as needed.

A1G003 updates **SAS Compliance Solutions Mid-Tier 6.3_M1**
A1H005 updates **SAS Compliance Solutions Server 6.3_M1**
A2K002 updates **SAS High-Performance Anti-Money Laundering Server 6.3_M1**
B3H001 updates **SAS Compliance Solutions Mid-Tier LASR Configuration 6.3_M1**

See What is a container hot fix? in the Hot Fix FAQ for more information about container hot fixes.

PRE-INSTALLATION INSTRUCTIONS:

Before installing the SAS Compliance Solutions 6.3_M1 HF5 (A1I005), you must first install and configure the SAS Enterprise Case Management 6.3_M1 (B1Y005) hot fix.

Before applying this hot fix, follow the instructions in SAS Note 35968 to generate a SAS Deployment Registry report, then verify that the appropriate product releases are installed on your system. The release number information in the Registry report should match the 'member' release number information provided above for the software components installed on each machine in your deployment.

The hot fix downloaded, A1I005pt.zip, includes the updates required for all components listed above on all applicable operating systems. To apply this hot fix on multiple machines, you can either save A1I005pt.zip on each machine or save it in a network location that is accessible to all machines.

Do NOT extract the contents of A1I005pt.zip. The hot fix installation process will extract the contents as needed.

APPLYING HOTFIXES TO CUSTOMIZED SYSTEMS

Applying this hot fix on a customized environment will overwrite the customizations that have been made, and will revert certain files to their original state, plus any fixes made in this release. It is extremely important that you back up the web application configuration (in the /conf directory of the web application server), and the web applications themselves (in the /sas_webapps directory of the web application server). Specifically, when the web application is rebuilt and redeployed, any customizations made to system source code, custom queries, and server configuration will be overwritten and may need to be merged afterwards in order for the customized system to work as it should. It is also important to back up UI definitions and report configuration files that are stored in the Enterprise Case Management application, and merge the contents of those files with the customized copies, as some of these will be changed during the hotfix installation process.

1. 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.
2. You must have Administrator Privileges on your CLIENT or SERVER machine.
3. All currently active SAS sessions, daemons, spawners and servers must be terminated before applying this hot fix.
4. This hot fix should be installed using the same userid who performed the initial software installation.
5. CONFIGURATION: No automatic configuration scripting is included for this hot fix. If you have previously configured software installed, the SAS Deployment Manager may present a screen where you will see "Apply SAS Hot Fixes" and "Configure SAS Hot Fixes" options. On this screen, you must ensure that the "Configure SAS Hot Fix" option is *not* selected. If this option is automatically selected, please de-select it prior to proceeding with the SAS Deployment Manager Screens. Failure to do so could have unintended consequences when applying this hot fix.

INSTALLATION

Hot Fix A1I005 must be installed on each machine where the updated components of the product, listed above, are installed. During the installation process you may see references to all operating systems for which updates are provided in the hot fix. The installation process will determine the operating system and which component(s) of SAS Compliance Solutions 6.3_M1 require updating on the machine. See **SAS Note 44810** for more details.

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

After downloading A1I005pt.zip, follow the instructions for applying hot fixes in the **SAS Deployment Wizard and SAS Deployment Manager 9.4: User's Guide**.

Please review the CONFIGURATION Important Note above concerning proper selection of the "Configure SAS Hot Fix" option in the SAS Deployment Manager.

The hot fix installation process generates the log file:

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

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

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

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

The content of this hot fix is listed in the [hot fix manifest](#).

POST-INSTALLATION INSTRUCTIONS

A1H005 updates SAS Compliance Solutions Server 6.3 M1

Important Note:

For ease of completion of post-installation tasks, you can export the following:

```
# This should be the path that SAS was installed to.

UNIX:
export SASHOME=/install/SASHome

WINDOWS:
set SASHOME=C:\PROGRA~1\SASHOME

# This should be the path that SAS was installed to.

UNIX:
export SASROOT=/install/SASHome/SASFoundation/9.4

WINDOWS:
set SASROOT=C:\PROGRA~1\SASHOME

# This should be the SAS Configuration Path and Level

UNIX:
export FCFROOT=/install/config/Lev1/Applications/SASComplianceSolutions
Windows:
set FCFROOT=C:\SAS\Config\Lev1\Applications\SASComplianceSolutions

# This should add the location of ANT executable provided in the
SAS installation, to the PATH.

UNIX:
export PATH=${PATH}:${SASHOME}/SASEnvironmentManagerAgent/2.5/installer/bin

Windows:
set PATH=%SASHOME%\SASEnvironmentManagerAgent\2.5\installer\bin;%PATH%
```

Important Note about Apache Ant: if there is another, competing installation of Ant on your system, it may not be suitable for the purposes of this procedure. It may use a version of Ant that does not match the configuration code delivered with SAS, or it may not be configured to include the **ant-apache-regexp** package, which is needed for proper operation of these steps. If you have another installation of Ant on your system, you need to temporarily remove it from the PATH and clear out the value of the ANT_HOME environment variable, so that the version installed with SAS will be used.

1. It is vitally important that you back up your AML databases.

2. It is vitally important that you back up your compute tier folder before you proceed with the next step.

For UNIX, back up **$SASCONFIG/Applications/SASComplianceSolutions** with its subdirectories.

for Windows, back up **%SASCONFIG%\Applications\SASComplianceSolutions** with its subdirectories.

3. It is fine to leave all the SAS servers running during the compute tier install procedure, so long as the SAS executable is not executing, and no Compliance Solutions stored processes are running. It is also fine to shut down all the SAS servers to guarantee a clean installation.

For all the following steps, however, the metadata server must be running. To start the metadata server, execute:

```
$SASCONFIG/SASMeta/MetadataServer/MetadataServer.sh start
```

4. Create a configuration folder for executing the Ant configuration script:
```
mkdir $FCFROOT/config
```

5. Change the current directory to the $FCFROOT/config folder:
```
cd $FCFROOT/config
```

6. Copy the configuration Ant script to the configuration folder:

for UNIX:
```
cp $SASHOME/SASFoundation/9.4/misc/antimnycmn/deploy/script/build.xml .
```
for Windows:
```
copy %SASHOME%\SASFoundation\9.4\antimnycmn\sasmisc\deploy\script\build.xml
.
```

7. Create a file called **build.properties** in the configuration folder with the following property values. Set the values to the correct settings for your AML installation:

```
UNIX:
sasconfig.dir=/install/config/Lev1
solr.dir=/install/solr-4.7.2
metadata.user=sasadm@saspw
metadata.password=password

Windows: (Note: must use either \\ or / for the path separator)
sasconfi.dir=C:\\SAS\\Config\\Lev1
solr.dir=C:/SAS/solr-4.7.2
metadata.user=sasadm@saspw
metadata.password=password
```

8. Execute the Ant configuration script:

If you are installing the A1H005 hotfix and have not previously installed A1H004 or later, you must execute the following step:
```
ant aml_hotfix4 -logfile aml_hotfix4.log
```

The script executes the following Ant targets as part of the aml_hotfix4 target:

- **ecm_form_template**: The script copies the form_template files to the configuration directory, as described in the **B1X003 Updating SAS Enterprise Case Management Server 6.3M1** hotfix install guide, replacing steps 1 and 2 with an automated process.
- **ecm_ucmacros**: The script copies the uncompiled SAS macros to the configuration directory, as described in the **B1X003 Updating SAS Enterprise Case Management Server 6.3M1** hotfix install guide, replacing the second step 2 parts a, b, and c with an automated process that renames the files as needed and substitutes the necessary tokens.
- **ecm_stp**: The script copies the stored process code to the configuration directory, renaming the files and substituting tokens as described in the **B1X003 Updating SAS Enterprise Case Management Server 6.3M1** hotfix install guide, replacing step 6g and 6h with an automated process.
- **ecm_stp_import**: The script imports the ECMvalidateStoredProcess.spk package, as described in the **B1X003 Updating SAS Enterprise Case Management Server 6.3M1** hotfix install guide, replacing steps 6a-6f with an automated process.
- **aml_sample**: The script copies the CTR sample programs to the configuration folder.
- **aml_install**: The script copies the fcf_rc_update program to the configuration folder, renaming the file and performing token substitution.
- **rc_update:** The script executes the fcf_rc_update.sas program and checks the return code for fatal errors (code 4).

9. Examine the aml_hotfix4.log file and see if there are any errors reported there.

10. Execute the Ant configuration script:
```
ant aml_hotfix5 -logfile aml_hotfix5.log
```

The script executes the following Ant targets as part of the aml_hotfix5 target:

- **ecm_form_template**: The script copies the form_template files to the configuration directory, as described in the **B1X004 Updating SAS Enterprise Case Management Server 6.3M1** hotfix install guide, replacing step 3 with an automated process.
- **ecm_ucmacros**: The script copies the uncompiled SAS macros to the configuration directory, as described in the **B1X004 Updating SAS Enterprise Case Management Server 6.3M1** hotfix install guide, replacing the second step 2 parts a, b, and c with an automated process that renames the files as needed and substitutes the necessary tokens.
- **aml_install**: The script copies the fcf_rc_update and fcf_rc_update_2 programs to the configuration folder, renaming the files and performing token substitution.
- **rc_update_2**: The script executes the fcf_rc_update_2.sas program and checks the return code for fatal errors (code 4).

11. Examine the aml_hotfix5.log file and see if there are any errors reported there.

12. Configure XML Validator.

If you are installing the A1H005 hotfix and have not already installed A1H004 or later, you must execute

the following step:

Make sure your system is configured so that the JAVA_HOME environment variable points to your local JAVA instance, preferably $SASHOME/SASPrivateJavaRuntimeEnvironment/9.4/jre

13. Modify your database with the provided hotfix DDL scripts.

The A1H002 hot fix contains code to improve AGP performance that requires the addition of a new knowledge center table, FSK_ACCOUNT_KEYS_ACC, and its associated business unit knowledge center view of the same name. If you are installing the A1H005 hotfix and have not already installed A1H002 or later, you will need to execute the following steps:

You need to execute some DDL scripts, depending on which database management system you use. If you do not use the default FCFCORE, FCFKC, and FCFBU1 user/schema names, you will need to edit the scripts to change the schema names to the appropriate values, before they are executed.

For DB2:
Using the DB2 command line processor, execute the following commands:
```
db2 connect to <database> user <system userid> using <system password>
db2 –tf $SASROOT/misc/antimnycmn/ddl/db2/db2_6.3M1_to_6.3M1HF2_ddl.sql
```

For Oracle:
Using the SQLPlus command line utility, execute the following command:
```
sqlplus system/password@aml_sid @$SASROOT/misc/antimnycmn/ddl/oracle/oracle_6.3M1_to_6.3M1HF2_ddl.sql
```

For SQLServer:
In the $SASROOT/misc/antimnycmn/ddl/sqlserver folder, change the first line of the following two files, so that the "USE [LOCALDB]" command uses your SQLServer database name, for example "USE [MYDB]".

Using the SQLCMD command-line utility, execute the following command:
```
sqlcmd –U sa –P password –i $SASROOT/misc/antimnycmn/ddl/sqlserver/sqlserver_6.3M1_to_6.3M1HF2_ddl.sql
```

For Teradata:
Using SQL Assistant or BTEQ, execute the following script:
```
$SASROOT/misc/antimnycmn/ddl/teradata/teradata_6.3M1_to_6.3M1HF2_ddl.sql
```

This completes the installation of this hot fix.

A1G003 updates SAS Compliance Solutions Mid-Tier 6.3 M1
Step 1: Re-build Web Applications

For this step to execute correctly, at the very least the Metadata Server must be running. It is okay if all other servers are still running.

1.1 Invoke the SAS Deployment Manager 9.4.

For UNIX, from $SASHOME/SASDeploymentManager/9.4, execute sasdm.sh.
For Windows, from %SASHOME%\SASDeploymentManager\9.4, execute sasdm.exe.

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 the following WebApps:

SAS Compliance Solutions Mid 6.3

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 ear files in <SASCONFIGDIR>/Web/Staging.

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

<SASCONFIGDIR>/Web/Staging/Backup

Step 2: Re-deploy Web Applications

Note: In order for this step to execute correctly, everything should be running: the Metadata Server, the compute tier servers, and all Mid-Tier web application servers. The SAS Deployment manager will shut down and restart the necessary servers during the deployment step.

2.1 Invoke the SAS Deployment Manager 9.4.

For UNIX, from $SASHOME/SASDeploymentManager/9.4, execute sasdm.sh.
For Windows, from %SASHOME%\SASDeploymentManager\9.4, execute sasdm.exe.

2.2 Select a language in the Choose Language box.

2.3 Select Deploy Web Applications.

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

2.5 Specify Connection Information, including the sasadm User ID and Password.

2.6 Check the "Allow the application server to stop" checkbox.

2.7 Select the following WebApps:

Compliance Solutions Mid 6.3

2.8 Verify the information on the Summary screen and select Start.

2.9 Select Finish when the deployment is complete.

Step 3: Perform additional post-installation steps

3.1 Copy the file:

`$SASHOME/SASComplianceSolutionsMidTier/6.3/deploy/uidef/aml-alert-details-01.xml.orig`

to:

`$SASCONFIG/Web/Applications/SASComplianceSolutions/install/uidef/aml-alert-details-01.xml`

Edit the file and globally search and replace:

@fcf.software.component.name@ with Compliance Solutions Mid 6.3
@war.context.name@ with SASComplianceSolutionsMid

NOTE: If you made any customizations to your user interface definition file, download the customized file, back up the previous copy, then merge the customizations into the new files before you upload the new user interface definition file to the mid-tier web application.

Log into the Mid-Tier Web Application as the installation or administration user.

On the Menu bar, choose **Administration->UI Definitions**. For the field 'UI definition XML filename:' press the 'Choose File' button. Choose the full path to the modified aml-alert-details-01.xml file and then press the 'Validate XML' button. When the validation succeeds, press the 'Upload UI Definition' button.

3.2 Log into the Mid-Tier Web Application as the installation or administration user.

On the Menu bar, choose **Administration->UI Definitions**. For the field 'UI definition XML filename:' press the 'Choose File' button. Choose the full path to the modified "<report_type>.xml" file and then press the 'Validate XML' button. When the validation succeeds, press the 'Upload UI Definition' button.

If this is the initial configuration for CTRX regulatory report, the "<report_type>.xml" file name is "rr-fincen-ctrx-01.xml" and is in the
`$SASHome/SASEnterpriseCaseManagementMidTier/6.3/deploy/sample/UIDefinitions` directory.

If this configuration is for SARX regulatory report, the "<report_type>.xml" file name is "rr-fincen-sarx-01.xml" and is in the `$SASHome/SASEnterpriseCaseManagementMidTier/6.3/deploy/sample/UIDefinitions` directory.

If any customizations have been applied to these files, make sure to apply the site customizations to these shipped files before loading the UI file.

3.3 Login to the mid-tier web application (/SASEntCaseManagement) as an administrative user, using a web browser launched from the Mid-Tier server so that it can access the mid-tier installation files. On the Menu bar, choose **Administration->Report Configuration** to view the report configuration files in the system.

NOTE: If you made any customizations to your report configuration files, download the customized report configuration files, make a backup, and then merge the customizations into the new files before you upload the new report configuration file to the mid-tier web application.

Upload the following report configuration files:

`$SASHOME/SASComplianceSolutionsMidTier/6.3/deploy/reportconfig/fincen_ctr_config.xml`
`$SASHOME/SASComplianceSolutionsMidTier/6.3/deploy/reportconfig/fincen_doep_config.xml`
`$SASHOME/SASComplianceSolutionsMidTier/6.3/deploy/reportconfig/fincen_sar_config.xml`

Uploading may be accomplished by pressing the 'upload' icon and choosing the report configuration file, entering a description, then pressing the "Upload" button.

3.4 If you want to enable the new Hebrew language support, the preferred way to do it is to install the product, then install the most recent ECM and AML hot fixes, then deploy the product as documented in the **SAS Anti-Money Laundering 6.3 Installation, Configuration, and Administration Guide**. Choose Hebrew as the default locale when you perform the configuration.

It is also possible to upload the Hebrew language files to Enterprise Case Management. This allows users whose browser locale is set to Hebrew to view the web application in Hebrew. To do this, first concatenate the following three files:

```
$SASHOME/SASEnterpriseCaseManagementMidTier/6.3/custom.properties
$SASHOME/SASComplianceSolutionsMidTier/6.3/deploy/menu/menu_he.properties
$SASHOME/SASComplianceSolutionsMidTier/6.3/deploy/uidef/uidef_he.properties
```

Place the results into a file called:

```
$SASCONFIG/Web/Applications/SASComplianceSolutions/install/custom_he.properties
```

and upload that properties file to ECM. Perform the same step for the "*_iw.properties" files.

This completes the installation of this hot fix.

A2K002 updates SAS High-Performance Anti-Money Laundering Server 6.3_M1

Important Note:

For ease of completion of post-installation tasks, you can export the following:

```
# This should be the path that SAS was installed to.
export SASROOT=/install/SASHome/SASFoundation/9.4

# This should be the SAS Configuration Path and Level
export HPAMLROOT=/install/config/Lev1/Applications/SASHighPerformanceAntiMoneyLaundering
```

This hot fix contains code that needs to be copied into the $HPAMLROOT/custom/source folder:

```
$SASROOT/samples/hpamlsvr/pga_calculate_entity_history.sas
```