

# Installation Instructions for Hot Fix A5T001

Hot fix **A5T001** addresses the issue(s) in *Compliance Solutions 7.1* as documented in the *Issue(s) Addressed* section of the hot fix download page:

<http://ftp.sas.com/techsup/download/hotfix/HF2/A5T.html#A5T001>

**A5T001** is a "container" hot fix that contains the following "member" hot fixes which will update the software components as needed.

**A5Q001** updates **SAS Compliance Solutions Mid-Tier 7.1**

**A5R001** updates **SAS Compliance Solutions Server 7.1**

**A6A001** updates **SAS Compliance Solutions LASR Configuration 7.1**

**A6H001** updates **SAS Compliance Solutions Mid-Tier LASR Configuration 7.1**

See [What is a container hot fix?](#) in the Hot Fix FAQ for more information about container hot fixes.

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, A5T001pt.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 A5T001pt.zip on each machine or save it in a network location that is accessible to all machines.

Do NOT extract the contents of A5T001pt.zip. The hot fix installation process will extract the contents as needed.

## IMPORTANT NOTES

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 A5T001 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 Compliance Solutions 7.1 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 A5T001pt.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:

### **A5R001 Updates SAS Compliance Solutions Server 7.1**

Important Note: For ease of completion of post-installation tasks, you can set the following environment variables:

#### **UNIX:**

*# This should be changed to the path where SAS was installed.*

```
export SASHOME=/install/SASHome
```

*# This should be changed to the configuration folder and level for this deployment.*

```
export SASCONFIG=/install/config/Lev1
```

*# This is the base folder where SAS Compliance Solutions and all business units are deployed.*

```
export FCFBASE=${SASCONFIG}/Applications/SASComplianceSolutions
```

*# This will add the location of the SAS ant executable to the PATH.*

```
export PATH=${SASHOME}/SASEnvironmentManager/2.5/installer/bin:${PATH}
```

#### **WINDOWS:**

*# This should be changed to the path where SAS was installed.*

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

*# This should be changed to the configuration folder and level for this deployment.*

```
set SASCONFIG=C:\SAS\Config\Lev1
```

*# This is the base folder where SAS Compliance Solutions and all business units are deployed.*

```
set FCFBASE=C:\SAS\Config\Lev1\Applications\SASComplianceSolutions
```

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

```
set PATH=%SASHOME%\SASEnvironmentManager\2.5\installer\bin;%PATH%
```

Important Note about **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.

The **A5R001** hotfix contains data model changes that, when executed, will drop the tables listed below. All data in the tables will be deleted, and the tables will be created again with new table definitions. This is a destructive process and if these tables contain data from previous releases of CDD, your data should be backed up before these steps are executed.

```
FCFKC.FSK_CDD_RULE  
FCFKC.FSK_CDD_RULE_PARAMETER  
FCFKC.FSK_CDD_RULE_GROUP  
FCFKC.FSK_CDD_SCORING_EVENT
```

The following tables will be created when the DDL is executed:

```
FCFKC.FSK_CDD_REVIEW  
FCFKC.FSK_CDD_REVIEW_EVENT  
FCFKC.FSK_CDD_EDD_REVIEW
```

The following table will be altered:

```
FCFKC.FSK_RC_FORM_CONFIG
```

The **A5R001** hotfix contains changed files that need to be applied to every business unit that is configured; for example: FCFBU1, FCFBU2, and FCFBU3. The following steps must be repeated for each business unit, substituting the business unit name wherever you see 'FCFBU1' in the steps below. Execute these steps for the first business unit, then change to the second business unit's **config** folder and execute the steps for the second business unit. Repeat as necessary until all business units have been configured.

1. It is vitally important that you back up your business unit folder before you proceed with the next step.

For UNIX, back up `$SASCONFIG/Applications/SASComplianceSolutions/FCFBU1` with its subdirectories.

for Windows, back up `%SASCONFIG%\Applications\SASComplianceSolutions\FCFBU1` with its subdirectories.

2. Change to the `$FCFBASE/FCFBU1/config` folder.

Copy the updated `build.xml` file from `SASHOME`:

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 .
```

3. There should already exist a file named **build.properties** in the current folder, that was used when configuring the system. The file might have been deleted after the business unit was initially configured, if sensitive login passwords needed to be protected. If that is the case, the `build.properties` file needs to be created according to the instructions provided in the SAS Anti-Money Laundering 7.1 Installation and Configuration Guide, Chapter 5, Post-Configuration, in the section titled "Configure Compute Tier Business Units."

If you have changed the default workspace server name from "SASApp" to another value (for example, SASSrv), you should add the following property to the `build.properties` file:

```
sasapp.name=SASSrv
```

NOTE for Windows: you should have the following properties in your `build.properties` file:

```
midtier.port=80  
va.midtier.port=80
```

By default these values are set to 7980 for UNIX platforms, but for Windows the default port should be 80. You should also include these properties if you use a port number different from the default on any platform.

4. **For the first business unit (FCFBU1) only:**

In this step you will deploy hotfix changes that are common to all business unit configurations. This step should be run **only one time** for the first business unit, FCFBU1 or whatever it may be named, and this step must be skipped for successive business units. The metadata server must be running in order for this step to succeed. To execute the common code deployment, run **ant** with these parameters:

```
ant hotfix_base -logfile hotfix_base.log
```

When the execution has completed, inspect the `hotfix_base.log` file and check it for errors. If any errors should occur, please contact SAS Technical Support.

5. In this step you will deploy the hotfix changes to your business unit folders. This step will replace a large number of files in the business unit configuration folder, including certain files in the custom/source folder. Execute the hotfix configuration for the current business unit by executing **ant** with these parameters:

```
ant hotfix -logfile hotfix.log
```

When the execution has completed, inspect the `hotfix.log` file and check it for errors. If any errors should occur, please contact SAS Technical Support.

6. For customers using SSL, you will need to change the protocol from "http" to "https" in the Compliance Solutions Mid-Tier 7.1 software configuration. To do this, log in to SAS Management Console, and on the plug-ins tab, expand the "Application Management" folder. Expand the "Configuration Manager" group. Expand the "SAS Application Infrastructure" group. Right-click on "Compliance Solutions Mid 7.1" and go to the "Internal Connection" tab. Set the "Communication Protocol" to HTTPS and press OK to save.

7. Start the compute tier servers:

```
 ${SASCONFIG}/sas.servers start
```

8. Restart the SOLR server after all business units have had the hotfix applied.

For UNIX, execute:

```
 ${SOLR_HOME}/bin/solr restart
```

For Windows, execute:

```
 %SOLR_HOME%\bin\solr.cmd restart -port 8983
```

9. Perform the steps under "Institution and Branch Setup for FinCEN Forms" in Chapter 5, "Regulatory Reports and E-Filing" from the [SAS Anti-Money Laundering 7.1: Administration Guide](#).
10. For security reasons, you should modify your build.properties file to erase any clear text passwords stored in the file.

This concludes the compute tier portion of the hotfix configuration.

### **A5Q001 Updates SAS Compliance Solutions Mid-Tier 7.1**

Important Note: For ease of completion of post-installation tasks, you can set the following environment variables:

#### **UNIX:**

*# This should be changed to the path where SAS was installed.*

```
 export SASHOME=/install/SASHome
```

*# This should be changed to the configuration folder and level for this deployment.*

```
 export SASCONFIG=/install/config/Lev1
```

*# This is the base folder where SAS Compliance Solutions and all business units are deployed.*

```
 export FCFBASE=${SASCONFIG}/Applications/SASComplianceSolutions
```

*# This will add the location of the SAS ant executable to the PATH.*

```
 export PATH=${SASHOME}/SASEnvironmentManager/2.5/installer/bin:${PATH}
```

#### **WINDOWS:**

*# This should be changed to the path where SAS was installed.*

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

*# This should be changed to the configuration folder and level for this deployment.*

```
 set SASCONFIG=C:\SAS\Config\Lev1
```

*# This is the base folder where SAS Compliance Solutions and all business units are deployed.*

```
 set FCFBASE=C:\SAS\Config\Lev1\Applications\SASComplianceSolutions
```

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

```
 set PATH=%SASHOME%\SASEnvironmentManager\2.5\installer\bin;%PATH%
```

The **A5Q001** hotfix requires that the WebApps be rebuilt and redeployed. Use the following steps to perform this post-installation task:

#### **Step 1: Re-build Web Applications**

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

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. Select a language in the Choose Language box
3. Select Rebuild Web Applications
4. Select Configuration Directory or enter the Configuration Directory and Level that needs to be updated
5. Specify Connection Information, including the sasadm User ID and Password

6. Select the following WebApps:  
SAS Compliance Solutions Mid 7.1
7. Verify the information on the Summary screen and select Start
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

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. Select a language in the Choose Language box
3. Select Deploy Web Applications
4. Select Configuration Directory or enter the Configuration Directory and Level that needs to be updated
5. Specify Connection Information, including the sasadm User ID and Password
6. Select the following WebApps:  
SAS Compliance Solutions Mid 7.1
7. Verify the information on the Summary screen and select Start
8. Select Finish when the deployment is complete

### Step 3: Apply New Groups and Capabilities to Metadata

This hotfix contains changed metadata import data that needs to be applied to the first business unit that was configured when the product was deployed, usually FCFBU1. To configure the mid-tier, the antimnyIndin.appxml file needs to be deployed, token-substituted, and then loaded into the SAS Metadata Console. This step needs to be accomplished one time, for FCFBU1.

1. On the mid-tier server machine, create the folder \$FCFBASE/**FCFBU1**/configmid.
2. Copy \$SASHOME/SASComplianceSolutionsMidTier/7.1/deploy/script/build.xml there.
3. Start SAS Metadata Console.

From the command line on a UNIX machine, you can do this by typing:

```
$SASHOME/SASManagementConsole/9.4/sasmc &
```

From the command line on a Windows machine, you can do this by typing:

```
%SASHOME%\SASManagementConsole\9.4\sasmc.exe
```

Log in to the metadata server and wait for the application to load. Then, from the Plug-ins tab, navigate the tree from SAS Management Console -> Application Management -> Configuration Manager -> SAS Application Infrastructure. Right click on the Compliance Solutions Mid 7.1 software component and choose 'Properties' from the context menu. Make note of the ID, which will look something like **A5R0EK71.A900000R**. You must enter it into the **fcfmid.id** variable in the next step.

4. Create a build.properties file with these contents:
 

```
host.name=midtier.host.name
sashome.dir=/install/SASHome
sasconfig.dir=/install/config/Lev1
jdbc.driver.dir=/install/jdbc/oracle
fcfmid.id=A5QM2C8T.A900002B
metadata.user=sasadm@saspw
metadata.password=password
midtier.port=7980
dbms.core.userid=FCFCORE
dbms.kc.userid=FCFKC
dbms.segkc.userid=FCFBU1
dbms.core.passwd=password
dbms.kc.passwd=password
dbms.segkc.passwd=password
```

If you are configuring an Oracle database, make the following changes to the build.properties:

```
dbms.engine=oracle
dbms.oracle.sid=sid
dbms.oracle.servicename=servicename
dbms.system.userid=system
dbms.system.password=password
```

If you are configuring a DB2 database, make the following changes to the build.properties:

```
dbms.engine=db2
dbms.database=database
dbms.system.userid=db2admin
```

If you are configuring a Teradata database, make the following changes to the build.properties:

```
dbms.engine=teradata
dbms.host=dbms.company.com
dbms.database=database
dbms.system.userid=dbc
dbms.teradata.perm.size=1000000000
dbms.teradata.spool.size=50000000
```

If you are configuring a SQLServer database, make the following changes to the build.properties:

```
dbms.engine=odbc
dbms.sqlserver.instance=database
dbms.system.userid=sa
```

If you changed the default application name from “SASComplianceSolutionsMid” when deploying, to (for example), “AML,” you should add the following property:

```
fcfmid.application.name=AML
```

NOTE for Windows: you should have the following property in your build.properties file:

```
midtier.port=80
```

By default these values are set to 7980 for UNIX platforms, but for Windows the default port should be 80. You should also include these properties if you use a port number different from the default on any platform.

Note: On Windows platforms, all paths in the ANT property files must use double backslashes, or a single forward slash, in place of the single backslash character. These are both valid examples:

```
sashome.dir=C:/install/SASHome
sashome.dir=C:\\install\\SASHome
```

#### 5. Configure the Mid-Tier metadata for FCFBU1:

```
ant hotfix -logfile hotfix.log
```

### Step 4: Reapply Business Unit Datasource Definitions

When the Deployment Manager rebuilds and redeploys the web application WAR file, it overwrites all changes made to the following two files:

```
infrastructure_config.xml
spring-config.properties
```

The files are found in the following folder:

```
$$SASCONFIG/Web/WebAppServer/SASServer8_1/sas_webapps/sas.financialservices.aml.war/WEB-INF/spring-config
```

After the Deployment Manager redeploys the web application, only datasource definitions for the first bank (FCFBU1) will exist in the files listed above. You need to reapply the datasource information for the remaining business units back into the files. To do this, you will need to execute the following commands:

For UNIX:

```
cd $FCFBASE/FCFBU2/configmid
cp $$SASHOME/SASComplianceSolutionsMidTier/7.1/deploy/script/build.xml .
```

```
ant context_xml spring_config spring_properties
```

For Windows:

```
cd %FCFBASE%\FCFBU2\configmid
copy %SASHOME%\SASComplianceSolutionsMidTier\7.1\deploy\script\build.xml .
ant context_xml spring_config spring_properties
```

Perform Step 4 for FCFBU2, FCFBU3, and every other business unit except for the first. When all business units have been reconfigured, restart the web application server (usually SASServer8\_1).

For security reasons, you should modify your build.properties file to erase any clear text passwords stored in the file.

This concludes the metadata update portion of the mid-tier configuration.

### **A6A001 Updates SAS Compliance Solutions LASR Configuration 7.1**

Important Note: For ease of completion of post-installation tasks, you can set the following environment variables:

**UNIX:**

*# This should be changed to the path where SAS was installed.*

```
export SASHOME=/install/SASHome
```

*# This should be changed to the configuration folder and Level for this deployment.*

```
export SASCONFIG=/install/config/Lev1
```

*# This is the base folder where SAS Compliance Solutions and all business units are deployed.*

```
export FCFBASE=${SASCONFIG}/Applications/SASComplianceSolutions
```

*# This will add the location of the SAS ant executable to the PATH.*

```
export PATH=${SASHOME}/SASEnvironmentManager/2.5/installer/bin:${PATH}
```

**WINDOWS:**

*# This should be changed to the path where SAS was installed.*

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

*# This should be changed to the configuration folder and Level for this deployment.*

```
set SASCONFIG=C:\SAS\Config\Lev1
```

*# This is the base folder where SAS Compliance Solutions and all business units are deployed.*

```
set FCFBASE=C:\SAS\Config\Lev1\Applications\SASComplianceSolutions
```

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

```
set PATH=%SASHOME%\SASEnvironmentManager\2.5\installer\bin;%PATH%
```

The **A5R001** hotfix contains changed files that need to be applied to every business unit that is configured; for example: FCFBU1, FCFBU2, and FCFBU3. The following steps must be repeated for each business unit, substituting the business unit name wherever you see 'FCFBU1' in the steps below. Execute these steps for the first business unit, then change to the second business unit's **configrpt** folder and execute the steps for the second business unit. Repeat as necessary until all business units have been configured.

1. Create the `$FCFBASE/FCFBU1/configrpt` folder and change directory to that folder:

For UNIX:

```
mkdir $FCFBASE/FCFBU1/configrpt
cd $FCFBASE/FCFBU1/configrpt
```

For Windows:

```
mkdir %FCFBASE%\FCFBU1\configrpt
cd %FCFBASE%\FCFBU1\configrpt
```

2. Copy the `cslasrc.properties` file from `<FCFBASE>`.

For UNIX:

```
cp $FCFBASE/cslasrc.properties $FCFBASE/FCFBU1/configrpt
```

For Windows:

```
copy %FCFBASE%\cslasrc.properties %FCFBASE%\FCFBU1\configrpt
```

3. Copy the build.xml file from the SASComplianceSolutionsLASRConfiguration folder:

For UNIX:

```
cp $SASHOME/SASComplianceSolutionsLASRConfiguration/7.1/Configurable/deploy/script/build.xml .
```

For Windows:

```
copy %SASHOME%\SASComplianceSolutionsLASRConfiguration\7.1\Configurable\deploy\script\build.xml
```

Create a file in the current directory called **build.properties** and add the following properties to the file:

```
host.name=machine.company.com
```

The host.name value above must refer to the middle tier server.

If you are configuring an Oracle database, make the following additions to the build.properties:

```
dbms.engine=oracle
dbms.oracle.sid=ORCL
dbms.oracle.servicename=ORCL.COMPANY.COM
dbms.system.userid=system
dbms.system.password=password
dbms.core.userid=FCFCORE
dbms.kc.userid=FCFKC
dbms.segkc.userid=FCFBU1
```

If you are configuring a DB2 database, make the following additions to the build.properties:

```
dbms.engine=db2
dbms.database=database
dbms.system.userid=db2admin
```

If you are configuring a Teradata database, make the following additions to the build.properties:

```
dbms.engine=teradata
dbms.host=dbms.company.com
dbms.database=database
dbms.system.userid=dbc
dbms.teradata.perm.size=100000000
dbms.teradata.spool.size=50000000
```

If you are configuring a SQLServer database, make the following additions to the build.properties:

```
dbms.engine=odbc
dbms.sqlserver.instance=database
dbms.system.userid=sa
```

If the metadata server is located on a different machine from the mid-tier server, make the following additions to the build.properties file:

```
metadata.host=metadata.company.com
```

If the metadata server operates on a different port from the default, specify the changed port number in the build.properties file:

```
metadata.port=9999
```

4. Execute **ant** to configure the report files and create empty extraction datasets:

```
ant -logfile reports.log
```

5. Validate that the reporting installer created empty report data sets.

You can confirm that the reporting installer ran correctly by looking in \$SASCONFIG/AppData/SASComplianceSolutions/FCFBU1/AutoLoad. The following files should be there:

```
active_headers_data.sas7bdat
alert_investigation_extract.sas7bdat
cs_user_info_groups.sas7bdat
jobs_stats_detail.sas7bdat
jobs_stats_summary.sas7bdat
list_report_data.sas7bdat
```

```
risk_classifier_report_data.sas7bdat  
scenario_audit.sas7bdat  
scenario_change_history_data.sas7bdat  
scenarios_and_risk_data.sas7bdat  
user_group_role_totals.sas7bdat
```

6. Execute `$FCFBASE/FCFBU1/Autoload/runsas.sh`, to upload empty datasets to LASR.

Validate that the Autoload program executed correctly and copied the datasets to LASR. The Autoload log file is located in `$FCFBASE/FCFBU1/Autoload/Logs`.

7. For security reasons, you should modify your `build.properties` file to erase any clear text passwords stored in the file.

This concludes the LASR configuration portion of the configuration.

### ***A6H001 Updates SAS Compliance Solutions Mid-Tier LASR Configuration 7.1***

The **A6H001** hotfix contains an updated version of the `AMLReports.spk` file located in the following folder:

```
$SASHOME/SASComplianceSolutionsMidTierLASRConfiguration/7.1/Config/Deployment/Packages
```

From SAS Metadata Console, you need to re-import the `AMLReports.spk` package. For more detailed information on how to accomplish this, refer to the *SAS Anti-Money Laundering 7.1: Installation and Configuration Guide*, under Post-Configuration in the section “Configure Report Tier,” step 5.

This concludes the Mid-Tier LASR configuration portion of the configuration.