



Installation Instructions for Hot Fix 1 (N1G001)

Table of Contents

Overview	2
INSTALLATION	3
Post-InstallationInstructions:.....	4
Initial Notes	4
Database Changes by Hotfix.....	4
Hotfix 1 Database Changes	4
Capabilities Changes by Hotfix and Role	4
N1G001 Updates SAS Compliance Solutions Mid-Tier 7.2	4
Step 1: Re-build Web Applications.....	5
Step 2: Re-deploy Web Applications	5
Step 3: Set up the Multiple Business Unit Ant Configuration Script	6
Step 4: Reapply Business Unit Datasource Definitions.....	6
Concluding Steps:.....	7

Overview

Hot fix **N1G001** addresses the issue(s) in **Compliance Solutions 7.2** as documented in the *Issue(s) Addressed* section of the hot fix download page:

<http://hotfix.na.sas.com/itp4/cgi-bin/xitp4.pl?N1G001>

N1G001 for SAS Compliance Solutions Mid-Tier 7.2

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, N1G001pt.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 N1G001pt.zip on each machine or save it in a network location that is accessible to all machines.

Do NOT extract the contents of N1G001pt.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 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 N1G001 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 7.2 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 N1G001pt.zip, follow the instructions for applying hot fixes in the [SAS Deployment Wizard and SAS Deployment Manager 9.4: User's Guide](#).

Generally, it is not necessary to shut down any compute tier or metadata servers when executing the hotfix installation and post-installation steps for this hotfix. It is important, however, that SAS is not executing on the compute tier server, because it can lock access to the Compliance Solutions compiled macros library, which cannot be in use when the library gets replaced with the new version. The SAS Deployment Manager will check for files in use by other processes and will issue an error if any are found.

Please review the section **Important Notes #5: CONFIGURATION** 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_2023-10-31-13.18.21.log`. Each attempt to apply a hot fix will result in the creation of a new log file giving detailed information regarding the installation process.

Postexec log files are created in the `<SASHOME>/InstallMisc/InstallLogs` directory after the installation is completed and identifies the files that were added, backed up, changed, or removed. For example:

```
antimnylndin_lax_7.2_HN1G001_xx_Install_postexec.log
```

Post-Installation Instructions:

NOTE: If you are installing out of the box, please ensure that you have completed the configuration of the base product prior to performing these Post-Installation Instructions.

Initial Notes

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.

Database Changes by Hotfix

Hotfix 1 Database Changes

There are no changes to the database for HF1.

Capabilities Changes by Hotfix and Role

There are no capabilities changes for HF1.

N1G001 Updates SAS Compliance Solutions Mid-Tier 7.2

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=${SASHOME}/SASEnvironmentManagerAgent/2.5/installer/bin:${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%\SASEnvironmentManagerAgent\2.5\installer\bin;%PATH%
```

The **N1G001** 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: 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. 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: **Compliance Solutions Mid**
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`. The SAS Deployment Manager will back up the original `.ear` files to the directory below:

`<SASCONFIGDIR>/Web/Staging/Backup`

Step 2: Re-deploy Web Applications

Note: For this step to execute correctly, everything should be running: the Metadata Server, the compute tier servers, and all Mid-Tier web application servers.

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. On the *Stopping Application Server Warning* screen, check the box next to **Allow the application server to stop**.
7. Select the following WebApps: **Compliance Solutions Mid**

8. Verify the information on the Summary screen and select *Start*.
9. Select *Finish* when the deployment is complete.

Step 3: Set up the Multiple Business Unit Ant Configuration Script

To configure the mid-tier, you need to execute an Ant script for each business unit in the system.

1. On the mid-tier server machine, create the folder `$FCFBASE/FCFBU1/configmid`, if it doesn't already exist.
2. Copy `$$SASHOME/SASComplianceSolutionsMidTier/7.2/deploy/script/build.xml` there.
3. Create a `build.properties` file with these contents:

```
sashome.dir=/install/SASHome
sasconfig.dir=/install/config/Lev1
metadata.user=sasadm@saspw
metadata.password=password
dbms.segkc.userid=FCFBU1
dbms.segkc.passwd=password
```

For SQLServer databases, also add the following property and the correct value for your system:
`dbms.sqlserver.instance=AMLDB`

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:

```
sasconfig.dir=C:/install/config/Lev1
sasconfig.dir=C:\\install\\config\\Lev1
```

4. Ensure you are in the `$FCFBASE/FCFBU1/configmid` folder. Configure the Mid-Tier for **FCFBU1** using the command:

```
ant hotfix -logfile hotfix1.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.a
ml.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 in every `configmid` folder *except* the one for the first business unit (**FCFBU1**), which has already been configured by the Deployment Manager:

For UNIX:

```
cd $FCFBASE/FCFBU2/configmid
cp $$SASHOME/SASComplianceSolutionsMidTier/7.2/deploy/script/build.xml .
ant context_xml spring_xml spring_properties -logfile cf1.log
```

For Windows:

```
cd %FCFBASE%\FCFBU2\configmid
copy %SASHOME%\SASComplianceSolutionsMidTier\7.2\deploy\script\build.xml
.
ant context_xml spring_xml spring_properties -logfile cf1_web.log
```

Commented [C(T1): Should be -logfile

Perform Step 4 for FCFBU2, FCFBU3, and every other business unit except for the first.

When all business units have been reconfigured, restart the Compliance Solutions Mid-Tier web application server (usually SASServer8_1).

Concluding Steps:

For security reasons, after the configuration is complete you should modify your **build.properties** files to erase any clear text passwords stored in the file.

All users, when logging on to the AML application for the first time after the hotfix was applied, should clear the browser cache to make sure that any data that has been cached by the browser is discarded. Clear cache instructions are browser specific and can be found in the browser documentation or in the Help pages.

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