SAS Marketing Automation 5.1

Unix Install Instructions for Hot Fix 51ma12

Introduction

This document describes the steps necessary to install and deploy the SAS Marketing Automation 5.1 Hot fix Release 51ma12 for a Unix environment. *Please take a moment to read through this entire document before attempting to install the hot fix.* There are six steps to this hot-fix that must all be completed:

- 1) Installation of the updates to the SAS Marketing Automation Components
- 2) Post-configuration and deployment of the SAS Marketing Automation Application Server
- 3) Post-configuration and deployment of the SAS Customer Intelligence Reporting Application
- 4) Post-configuration and deployment of the SAS Marketing Automation Web Components update (optional)
- 5) Install the changes to macros and stored processes on the SAS Compute Server
- 6) Customer Intelligence Reporting Common Data Model updates

Fix Details

The hot fix 51ma12 addresses the issue(s) in 5.1 of SAS Marketing Automation software on Windows as documented in the "Issue(s) Addressed" section of the hot fix download page:

http://ftp.sas.com/techsup/download/hotfix/ma51.html #51ma12

You may also access SAS Notes from the Technical Support Main page: http://support.sas.com/techsup/search/sasnotes.html

SAS Marketing Automation hot fixes are cumulative. Only the latest hot fix need be applied to install all fixes. The hot-fix needs to be applied to all tiers. Servers (Windows and/or Unix) and clients (Windows). Please be sure to use the hot fix installer appropriate to the server/client operating system.

Although the actual fixes incorporated in the hot fix are cumulative there are changes to the SAS Customer Intelligence Reporting Common Data Model (CDM) which depend on whether or not you have already installed any hot fixes. See **Section 7** and **Appendix A** of this document before making any CDM changes.

Please review SAS Note SN-018542, (<u>http://support.sas.com/kb/18/542.html</u>) as the hot-fix install can overwrite the lsfadmin password and prevent campaigns from being directly scheduled from Campaign Studio.

1. Obtaining the Hot Fix Bundle

Save the hot fix bundle (archive file) from the SAS Technical Support Hot Fix web site (<u>http://ftp.sas.com/techsup/download/hotfix/ma51.html</u>) to a work directory on the server using the SAS user account that originally installed SAS Marketing Automation. This is typically the 'sas' account. The name of the downloaded archive file will vary depending on the Unix platform. The downloaded file will be one of the following:

- 51ma12r6.tar for AIX
- 51ma12s6.tar for Solaris
- 51ma12hx.tar for HP Itanium

There are check boxes included at each step to assist you with verification of the completion of each step as you work through these instructions.

1.1 Installation

You should perform these installation steps for *each machine* where the following Marketing Automation components have been installed.

- SAS Customer Intelligence Core Mid-Tier
- SAS Customer Intelligence Web Components
- SAS Customer Intelligence Studio
- SAS Customer Intelligence Plug Ins for SAS Management Console
- SAS Marketing Automation Launcher
- SAS Marketing Automation Integration Utilities
- SAS Customer Intelligence Reporting Mid-Tier
- SAS Marketing Automation Server Processes (macros and stored processes)

Once the hot fix has been installed on your Unix servers you will need to download and install the Windows 51ma12 hot fix onto all of your client PCs

1.2 Unarchive the downloaded tar file

Unarchive the 51ma12xxx tar file using the following command:

tar -xvf 51ma12xxx.tar

where xxx is the appropriate suffix for your unix platform.

This will extract the following files into a new 51ma12_xxx directory. For example, the AIX tar file 51ma12r6.tar will extract into 51ma12_r64. Sample output from the above tar command is shown below. The sizes of the files will vary based on the Unix platform. The sample below shows messages from an AIX tar file extract.

x 51ma12_r64/emaauxdataio_r64.tar, 34672640 bytes x 51ma12_r64/emacore_r64.tar, 42054960 bytes x 51ma12_r64/emalauncher_r64.tar, 31641600 bytes x 51ma12_r64/emasmc_r64.tar, 34713600 bytes x 51ma12_r64/emawebnport_r64.tar, 34826240 bytes x 51ma12_r64/custintelmid_r64.tar, 34672640 bytes x 51ma12_r64/mktautor6.tar, 441344 bytes You can see from the tar files the following Marketing Automation Components will be updated by this hot fix:

- Marketing Automation Integration Utilities (eamauxdataio)
- Customer Intelligence Core Mid-Tier (emacore)
- Marketing Automation Launcher (emalauncher)
- Customer Intelligence Plugins to SAS Management Console (emasmc)
- Custom,er Intelligence Web Application (emawebnport)
- Customer Intelligence Reporting (custintelmid)
- Marketing Automation Server Processes (mktauto)

For each component on installed on your server, you'll need to unarchive the tar file and run the setup script. The files within the component archives are named similarly, so you will need to unarchive and execute the setup scripts one by one.

Sample AIX process shown below:

Step 1: Unarchive the component tar file

tar -xvf emaauxdataio_r64.tar

This creates 3 new files in r64 subdirectory:

-rwxr-xr-x 1 sas staff 27812035 Oct 31 10:01 Setup_AIX_Power

-rw-r--r-- 1 sas staff 13 Oct 31 10:01 media.inf

-rw-r--r-- 1 sas staff 7603287 Oct 31 10:01 setup.jar

Step 2: Run Setup script to lay down component files.

cd r64 chmod +x Setup*

Setup_AIX_Power

Note that you must turn on the execute bit for the setup script the first time you perform the unarchive.

This setup command runs an InstallShield wizard to lay down the SAS components. A series of three screens will appear by the Installer that you must click through.

Step 3: Repeat steps 1 and 2 (above) for each component except the Marketing Automation Server Processes (mktauto – Section 6 discusses applying the SAS Compute Server changes) until the setup scripts matching the components installed on your server have been run.

Step 4: Once InstallShield Components have been run, you can verify the updated files as follows:

Mid-Tier

SASMarketingAutomationCore/4.1/Config/emacore_hf.xml (01/29/08) SASMarketingAutomationCore/4.1/ear/sas.iquery.metadata.jar (06/04/09) SASMarketingAutomationCore/4.1/ear/sas.iquery.dataservices.jar (06/04/09)

Installation Ran Successfully

2. Post-configuration and Deployment of the SAS Marketing Automation Application Server

2.1 Download Ant to Run the Post Configuration Script

Apache Ant is needed to run the post-configuration script for the SAS Marketing Automation Application Server that is included in this hot fix. Download and install Ant 1.7 from <u>http://ant.apache.org/.</u> See the Apache Ant Documentation for any install details.

Run ant -version from your command prompt and verify that you are accessing ant 1.7

Be sure JAVA_HOME is set correctly with the location of your java installation. Failure to do so will result in errors when running the ant command.

____ Downloaded ANT and verified the version

2.2: Run the Post-configuration Ant script

The 51ma12 hot fix has installed a post-configuration script, emacore_hf.xml, that will repackage sas.analytics.crm.ma.core.ear with the updated code and the deployment descriptor (ejb-jar.xml) that has already been configured for your environment. You will find emacore_hf.xml in the sas installation directory: SASMarketingAutomationCore/4.1/Config/emacore_hf.xml.

Navigate to the bin subdirectory where ant is installed: Example: cd /usr/local/ant/apache-ant-1.7.0/bin

Set JAVA_HOME for session if needed for you specific installation: Example: export JAVA_HOME=/usr/java14

Stop the SAS Remote Services server before running the ant script.

Run this command to execute the emacore_hf.xml script (all on one line)

ant -f emacore_hf.xml -Dconfig.dir=<CONFIGDIR> -Dtemp.dir=<TEMPDIR> -Dinstall.loc=<INSTALL_DIR>

where

<CONFIGDIR> is the path to the Configuration Directory (eg. /saswork/MAplan) where the new sas.analytics.crm.ma.core.ear files are copied when the hot fix is applied by executing the ant scripts.

<TEMPDIR> is a path to an **empty** temporary directory for temp files. Make sure this location is empty so that the script can execute without errors when it performs the clean up.

<INSTALL_DIR> is the location of the product install (eg. /saswork/SAS/SASMarketingAutomationCore/4.1)

Helpful hint: create a .sh file with the command above in case you need to make corrections.

Example:

ant -f "/saswork/SAS/SASMarketingAutomationCore/4.1/Config/emacore_hf.xml" -Dconfig.dir="/saswork/MAplan" -Dtemp.dir="/saswork/hotfix_tmp" -Dinstall.loc="/saswork/SAS/SASMarketingAutomationCore/4.1" Final messages from the execution of the script should be similar to:

BUILD SUCCESSFUL

Total time: 11 seconds

Note: A complete log from the ant script can be found in the SAS installation directory SASMarketingAutomationCore/4.1/emacore_hf.log.

Successfully executed emacore_hf.xml script

Verify core-remote jar and restart RemoteServices

The ant script will copy an updated sas.analytics.crm.ma.core-remote.jar into the configuration directory at Lev1/web/Deployments/RemoteServices/WEB-INF\lib. The new file will have a size of 713575 kb.

Once you verify the jar has been updated, restart your StartRemoteServices.bat script to restart the SAS Application Services.

____ Restart Remote Services

2.3: Run the Post-configuration Ant script for Customer Intelligence Reporting

The 51ma12 hot fix has installed a post-configuration script, custintelmid_hf.xml, that will repackage sas.analytics.crm.ma.ccsservice.war with updated code. You will find custintelmid_hf.xml in the SAS installation directory: /saswork/SAS/SASCustomerIntelligenceReporting/5.1/Config. Note this directory will contain a log called custintelmid_hf.log after the execution of this script. As with the previous step, execute the custintelmid_hf.xml script by using Apache Ant.

Open a command window and navigate to the bin subdirectory where ant is installed: cd c:\apache-ant-1.7.0\bin

Run this command to execute the custintelmid_hf.xml script (all on one line)

```
ant -f custintelmid_hf.xml

-Dconfig.dir=<CONFIGDIR>

-Dtemp.dir=<TEMPDIR>

-Dinstall.loc=<INSTALL_DIR>
```

Helpful hint: create a .bat file with the command above in case you need to make corrections.

```
Example:
ant -f
"/saswork/SAS/SASCustomerIntelligenceReporting/5.1/Config/custintelmid_hf.xml
"
-Dconfig.dir="/saswork/SAS/MA51Plan" -Dtemp.dir="c:/temphf"
-Dinstall.loc="/saswork/SAS/SASCustomerIntelligenceReporting/5.1"
```

Verify sas.analytics.crm.ma.ccsservice.war

The ant script will copy an updated sas.analytics.crm.ma.ccservice.war into the configuration directory at Lev1/web/webapps. The script will have created a copy of the original war file suffixed with today's date.

The Customer Intelligence Reporting war module needs to be redeployed in its respective application server (Weblogic or Websphere) for the changes to take effect.

Successfully executed custintelmid hf.xml script

2.4: Deployment of the MA core Jar file

If you are deploying to **BEA WebLogic**, please now follow the instructions under section 2.4.1: Deployment Instructions for BEA WebLogic.

If you are deploying to **IBM WebSphere**, please now follow the instructions under section 2.4.2: Deployment Instructions for IBM WebSphere.

2.4.1: Deployment Instructions for BEA WebLogic.

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After logging into the Weblogic console, Navigate to Deployments==> Applications==> MAAppServer ==> sas.analytics.crm.ma.core.jar in the left panel. (Note that your application name may vary. The example below used the name MACore.) Click the Configuration tab to verify your deployment path is the Lev1/web/webapps/exploded directory where the updated jar now resides. (If you used some other path, you'll need to extract and copy the updated jar.)

Click the 'Deploy' tab at the top of the right window.

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<u>E</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp Links						
🙀 🍄 🏾 🏉 WebLogic Server Console				🙆 • 🔊 ·	- 🖶 - 🛃 Page - 🍥 T <u>o</u> c	ols + »
Console SASSolutions Servers	SASSolutions> Deployments> Applica	ations> MACore		#	🗖 ? 📲 🥢	p <mark>e</mark> a:
Glusters	Connected to : SASSolutions You are log	gged in as : weblogicadm	I <u>Loc</u>	<u>jout</u>		
🗉 🧰 Machines 🖃 📼 Deployments	Configuration Targets Deploy Notes					_
⊟ 🔁 Applications ⊞ 🚰 MACore 🛄 EJB Modules	This page allows you to view the deployment redeploy all modules within the application us targets for this application, click the Targets t	ing the buttons at the botto				
	Deployment status for EJB Modules					
☐ Startup & Shutdown	Module	Target	Target Type	Deployment Status	Status of Last Action	
🗀 Domain Log Filters 🗀 Tasks	sas.analytics.crm.ma.core.jar	<u>SASManagedServer</u>	Server	<mark>∕⊴Available</mark>	<u>Success</u>	
	Deployment Status for Web Application M	lodules				
	Module Target	Target Deployme Type Status		is of Action		
	ci51 SASManagedServer	Server Available	Succe	<u>955</u>		
	Stop Application Redept	oy Application				
Applet navapplet started				Local in	tranet 🔍 100%	6 • /

Click the 'ReDeploy' button under the Actions column. Mulahi agis Camusu Ca

This will cause the jar file to be redeployed within the Weblogic server.

Notes:

It is the **JAR** file that is being deployed not the **EAR** file. Once you run the hotfix setup program and extract the jar file, you're done with the ear. To verify the path to the deployed jar file, click on the Configuration tab.

___ Weblogic Application Server Deployed

This completes the application server deployment of the hot fix to Weblogic. Please now skip to section 3: Deployment Customer Intelligence Reporting War file.

2.4.2: Deployment Instructions for IBM WebSphere.

Deploying the Marketing Automation Application Server will involve uninstalling the current Marketing Automation Application, and reinstalling the ear file.

Before uninstalling the current Marketing Automation Application, make a back up copy of the current WAS.policy file. You can find the file in this directory.

```
<was_home>/profiles/AppSrv01/config/cells/<machine
name>/applications/Marketing Automation 5.1.ear/deployments/Marketing
Automation 5.1/META-INF
```

Where <was_home> is the 'home' directory location for WebSphere: For example: /saswork/IBM/WebSphere/AppServer

Stop the Marketing Automation 5.1 application from your Websphere console:

Enterpris	e Applications						
Enterp	Enterprise Applications						
Lists in	stalled applications. A single application can be deployed	onto multiple servers.					
⊞ Pref	erences						
Start	Stop Install Uninstall Update Rollout U	Jpdate Remove File Export					
Select	Name 🗘	Status 👲					
	<u>CICommonServices</u>	♦					
	DefaultApplication_	€					
	Marketing Automation 5.1	⇒					
	Portal war	⇒					
	RDM_	 ◆ 					
	RDMDesign_	€					

- Uninstall the Marketing Automation 5.1 application from your Websphere console
- Save the configuration
- Next, the newly configured Marketing Automation 5.1 application needs to be reinstalled.
- The deployed location of the configured ear file is typically on the mid-tier machine that hosts the

Marketing Automation Software. This machine should contain a directory or path named: <<u>config-dir</u>>/Lev1/web/webapps

Where **<config-dir>** is a directory name that represents the configuration directory used to originally configure the mid-tier environment through the SAS Software Navigator.

Deploy Application to Web Server

Deploy SAS Marketing Automation Application Server using the Websphere admin console

- a) Applications->Install New Application
 - Select "Local path" radio button
 - Select Browse button and navigate to the MA ear file (<config-dir>/Lev1/ web/webapps/sas.analytics.crm.ma.core.ear)
 - Choose Next
 - Choose Next
 - Choose Continue on the Application Security Warnings panel
 - Step 1: Choose Next
 - Step 2: Choose Next
 - Step 3: Choose Next
 - Step 4: Choose Next
 - Step 5: Choose Next
 - Step 6: Check the "Select" box for Web Module "SAS Customer Intelligence Servlets" then Choose Next
 - Step 7: Choose Next
 - Step 8: Choose Finish
 - Save

b) Applications->Enterprise Applications

- Select <u>Marketing Automation 5.1 link</u>
- Classloader Mode: PARENT_LAST
- Apply/Save

c) Locate your saved copy of the WAS.policy file, and copy it back to its original location at <was_home>/config/cells/<machine name>/applications/Marketing Automation 4.4/META-INF.

d) Applications->Enterprise Applications

Select <u>Marketing Automation 5.1</u> check box

Select Start button

___ Websphere Application Server Deployed

3. Deployment of the Customer Intelligence Reporting War file

If you are deploying to **BEA WebLogic**, please now follow the instructions under section 3.1.1 Deployment Instructions for BEA WebLogic.

If you are deploying to **IBM WebSphere**, please now follow the instructions under section 3.1.2: Deployment Instructions for IBM WebSphere.

3.1.1: Deployment Instructions for BEA WebLogic.

- After logging into the Weblogic console, Navigate to Deployments==> Web Application Modules ==> sas.analytics.crm.ma.ccsservice in the left panel. (Note that your Target name may vary. The example below used the name SASManagedServer.)
- Click the Configuration tab to verify your deployment path is the Lev1/web/webapps/directory where the updated war file now resides.
- Click the Deploy tab in order to redeploy the war file.
- 🛎 WebLogic Server Console Microsoft Internet Explorer provi - 🗆 × jile <u>E</u>dit <u>V</u>iew F<u>a</u>vorites <u>T</u>ools <u>H</u>elj 🔇 Back 🔹 🕘 👻 😰 🏠 🔎 Search 🛭 👷 Favorites 🛛 😥 🖘 😓 📼 🕶 🛄 🚉 Agdress 🎒 http://localhost:7501/console/actions/mbean/MBeanFramesetAction?bodyFrameId=wl_console_frame_1202394371818%isNew=false&frameId=wl_console_frame_1202394371814%isdebarFrameId=wl_console_frame_120239437181%isMeanFrameId=wl_console_frame_120239437181%isMeanFrameId=wl_console_frame_120239437181%isMeanFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frame_120239437181%isMeanFrameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_frameStAction?bodyFrameId=wl_console_FrameStAction?bodyFrameId=wl_console_FrameStAction?bodyFrameId=wl_console_FrameStAction?bodyFrameId=wl_console_FrameStAction?bodyFrameI Console SASSolutions> Web Applications> sas.analytics.crm.ma.webapp 🔏 be'a' SASSolutions 🗄 🖾 Servers Connected to : localhost :7501 | You are logged in as : weblogic Loaou 🔶 admin SASManagedServer Configuration Targets Deploy Monitoring Testing Notes Clusters 🗄 🚞 Machines This page allows you to view the deployment status of each Web application module, and to stop or redeploy individual Web application E Deployments modules. (To configure additional deployment targets for these Web application modules, click the Targets tab.) 🗄 🚞 Applications EJB Modules Module Target Status of Type Last Action Actions Target 🖃 🗐 Web Application Modules Status Portal
 sas.analytics.crm.ma.v Active SASManagedServer Server Success Stop Redeploy 🧕 SASPreferences SASSInredProcess 🧕 SASTheme_default SASTheme_winter 菌 sasweb SASWebReportStudio Sucal intranet 🞒 Applet navapplet started
- Click the 'ReDeploy' button under the Actions column.

Weblogic Customer Intelligence Reporting war Deployed

This completes the Customer Intelligence reporting war file deployment to Weblogic. Please now skip to Section 4.

3.1.2: Deployment Instructions for IBM WebSphere.

Re-deploy SAS Customer Intelligence Reporting war components using the Websphere Admin console.

- Navigate to Applications->Enterprise Applications
- Select the Stop button to stop CICommonServices

Enterprise Applications

Lists installed applications. A single application can be deployed onto multiple servers.

Uninstall Start Stop Install Update Rollout Update Remove File 0 1 👯 🗐 Select Name 🗘 Status 👲 8 CICommonServices DefaultApplication ♦ € Marketing Automation 5.1 Portal war 争 € <u>RDM</u>

- Select the *update* button to update CICommonServices
- On the next screen, fill in the path to the sas_analytics_crm_ma_ccsservice_war file (Lev1/web/webapps)
- Type /ccs as the Context Root

A	pplication update options
6	Full application
	Select this option to replace the enterprise archive (*.ear) file for an installed application. The uploaded enterprise archive replaces the existing installed application.
	Upload the replacement application.
	Cocal file system
	Specify path
	/SAS/ConfigDir/Lev1/web/wel Browse
	C Remote file system
	Specify path
	Browse
	Context root //CCS Used only for standalone Web modules (.war files)
	/ccs only for standalone web modules (.wai mes)

- Choose Next
- Choose Next
- Choose Continue on the Application Security Warnings panel
- Select Step 4 Summary
- Finish
- Save
- Navigate to Applications->Enterprise Applications
- Select CICommonServices link
- Change the Classloader Mode to Parent_Last
- Under the startup options section, enter 10 for the starting weight field.

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- Apply and Save
- Navigate to Applications->Enterprise Applications
- Select CICommonServices check box
- Select Start button

<u>Websphere Customer Intelligence Reporting war Deployed</u>

4. Changes required to the Customer Intelligence Reporting deployment

If you have already installed the 51MA05 hot fix you should have already reconfigured the JMS messaging. If so skip this section and continue to section 5.

JMS messages enqueued on the CICommonCHTricklingInsertQueue or the CICommonRHTricklingInsertQueue have reliable persistence. Changes were made as part of the MA5105 hotfix to make these transient. The deployment of the CI JMS messages needs to change due to this change in persistence.

If deployed to **BEA WebLogic**, please now follow the instructions under section 4.1.1 Changes for BEA WebLogic.

If deployed to **IBM WebSphere**, please now follow the instructions under section 4.1.2: Changes for IBM WebSphere.

4.1.1: Changes for BEA Weblogic

After logging into the Weblogic console, Navigate to Services==> JMS==> Servers ==> CICommonJMSServer in the left panel. (Note that your CICommonJMSServer name may vary. The example below uses the name CICommonJMSServer.)

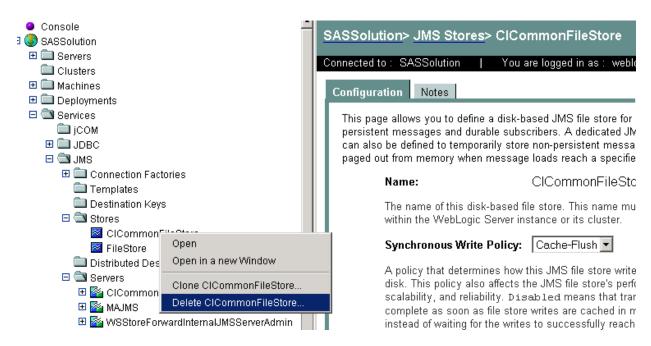
Double click on CICommonJMSServer and change

Console SASSolution Servers			CICommonJMSServer
	onnected t	o : SASSolution	You are logged in as : weblogic
 ■ Classicio ■ Machines ■ Deployments ■ Services 	Configura General	tion Target and Deple Thresholds & Quotas	
	This pag paramet connecti	e allows you to define th ers for this JMS server. A ons and message reque	e general configuration A JMS server manages sts on behalf of clients. (You
Templates Destination Keys	destinati		you can configure any JMS 🦷
E Stores		Name:	ClCommonJMSServer
 Distributed Destinations Servers Server Management Management Management 		The name of this JMS s Persistent Store:	
🖽 🌠 WSStoreForwardInternalJMSServerAdmin			her file-based or JDBC-based) ch will be used as a physical
🕀 🥅 Messaging Bridge	1	1 5 01	rsistent message data. In order
T XML			onfigure either a JMS file store or
● JTA ■ □ SNMP □ ₩TC		store cannot be the sam	MS > Stores node. The selected ne as the selected paging store, by any other JMS server.

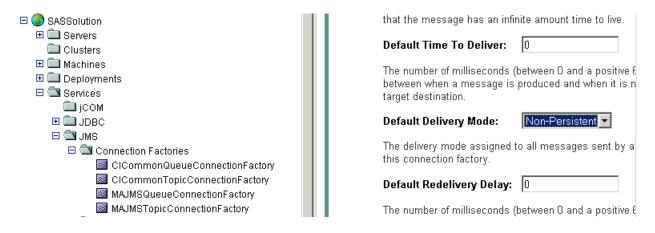
Persistent Store: to None

Then Navigate to Services==> JMS==> Stores ==> CICommonFileStore and right click and delete the

CICommonFileStore



Then Navigate to Services==> JMS==> ConnectionFactories ==> CICommonQueueConnectionFactory and double click and Change Default Delivery Mode to NON-Persistent

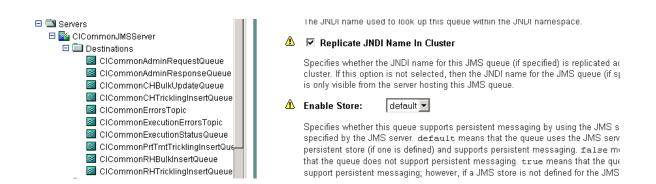


Then Navigate to Services==> JMS==> ConnectionFactories ==> CICommonTopicConnectionFactory and double click and Change Default Delivery Mode to NON-Persistent

E 🚯 SASSolution	that the message has an infinite amount time to live.
Servers Clusters	Default Time To Deliver: 0
 	The number of milliseconds (between 0 and a positive 6
🗆 🖾 Services	between when a message is produced and when it is n target destination.
☐ jCOM ⊞ ☐ JDBC	Default Delivery Mode: Non-Persistent
JMS Connection Factories	The delivery mode assigned to all messages sent by a this connection factory.
 ClCommonQueueConnectionFactory ClCommonTopicConnectionFactory MAJMSQueueConnectionFactory 	Default Redelivery Delay: 0
MAJMSGGedeconnectionFactory	The number of milliseconds (between 0 and a positive ${\mathfrak k}$

Then Navigate to Services==> JMS==> Servers ==> CICommonJMS==>Destinations ==> All Destinations shown e.g. CICommonCHTricklingInsertQueue

Leave the Enable Store setting to default (which means it will use the JMS servers Store settings)



You have now completed all changes needed for CICommon on Weblogic

_ Weblogic jms changes completed

Please now skip to Section 5.

4.1.2: Changes for IBM WebSphere

After logging into the WebShere console, Navigate to Service Integration==> Buses==> CICOMMONBUS ==> Destinations on right of the screen. (Note that your bus name may vary. The example below uses the name CICOMMONBUS.) You will see a list of CICommon Queue's and Topic's of which the CICommonCHTricklingInsertQueue CICommonRHTricklingInsertQueue Need to be edited

🔆 🎄 💮 WebSphere Administrative Con	ole			
Welcome Logout Support	Help			
Welcome	Buses			
⊞ Guided Activities	Buses			
	Buses > CIC	DMMONBUS > Destinations		
Applications	A bus destin	ation is a virtual place, within a se		n applic
🗄 Resources		onsumers, or both to exchange mo	essages.	
🗄 Security	Preference		7	
🗄 Environment	New Del	ete Mediate Unmediate		
System administration		**		
Monitoring and Tuning	Select Iden	ifier 🛟	Type 🗘	Descri
		mmonAdminRequestQueue	Queue	
Service integration		mmonAdminResponseQueue	Queue	
 Buses Web services 		mmonCHBulkUpdateQueue	Queue	
			· · ·	
		<u>mmonCHTricklingInsertQueue</u>	Queue	
		mmonErrorsTopic	Topic space	
		mmonExecutionErrorsTopic	Topic space	
		mmonExecutionStatusQueue	Queue	
		mmonPrtTmtTricklingInsertQueue	Queue	
		<u>mmonRHBulkInsertQueue</u>	Queue	
		mmonRHTricklingInsertQueue	Queue	

Double click on CICommonCHTrickingInsertQueue and

Under Quality of service section ensure

- a. Enable Producers to over-ride default reliability Should be checked
- b. Default Reliability Reliable Non Persistent
- c. Maximum Reliability Reliable Non Persistent

See example below:

Welcome		
∃ Guided Activities	Buses > <u>CICOMMONBUS</u> > <u>Destinations</u> > CICommo A queue for point-to-point messaging.	n i H Mckiing inserti Queue
🗄 Servers	Configuration	
E Applications		
🗄 Resources		
] Security	General Properties	
] Environment	Identifier CICommonCHTricklingInsertQueue	Queue points
3 System administration		Mediation points
] Monitoring and Tuning	UUID	Additional Properties
] Troubleshooting	EFD7223641567C75C4EE00EB	Context
Service integration	Туре	properties
Buses	Queue	
🗄 Web services	Description	
I UDU		
	Mediation	
	Quality of Service	
	Enable producers to override default reliability	
	Default reliability Reliable nonpersistent	
	Maximum reliability Reliable nonpersistent	

Click on Apply and then Save

Double click on CICommonRHTrickingInsertQueue and

Under **Quality of service** section ensure

- a. Enable Producers to over-ride default reliability Should be checked
- b. Default Reliability Reliable Non Persistent
 c. Maximum Reliability Reliable Non Persistent

See example below:

Welcome	Buses > CICOMMONBUS > Destinations > CICommon	RHTrickling InsertQueue
🗄 Guided Activities	A queue for point-to-point messaging.	5 (
🗄 Servers	Configuration	
Applications		
🗄 Resources	Occurred Barrandian	
🗄 Security	General Properties	 Message points
🗄 Environment	CICommonRHTricklingInsertQueue	Queue points
E System administration		Mediation point
Monitoring and Tuning	UUID FF0A2BF0E0DEBC046433AB27	Additional Properties
Troubleshooting ■		Context
Service integration	Type	properties
Buses		
	Description	
IDDI 🕀		
	Mediation	
	Quality of Service Enable producers to override default reliability Default reliability	
	Reliable nonpersistent Maximum reliability Reliable nonpersistent	

Click on Apply and then Save

You have now completed all changes needed for CICommon on websphere

____ Websphere jms changes completed

5. Deployment of the SAS Marketing Automation Web Components Update

This section is optional for Marketing Automation customers. If Campaign Web Studio is not installed, you can skip to section 6. Campaign Management customers (which are not Marketing Automation packages) do not have this component and therefore, must skip this step.

5.1: Run the Post-configuration Ant script

The 51ma12 hot fix has installed a post-configuration script, emawebnport_hf.xml that will repackage sas.analytics.ma.webapp.war with the updated code. You will find emawebnport_hf.xml in the sas installation directory: /SAS/SASMarketingAutomationWeb/4.1/Config Note this directory will contain a log called emawebnport_hf.log after the execution of this script.

Use a similar ant script and methodology discussed in section 2.2 above to deploy the changes:

Example:

```
ant -f "/SAS/SASMarketingAutomationWeb/4.1/Config/emawebnport_hf.xml"
-Dconfig.dir="/SAS/MAPlan" -Dtemp.dir="/SAS/temphf"
-Dinstall.loc="/SAS/SASMarketingAutomationWeb/4.1"
```

5.2 Verify sas.analytics.crm.ma.webapp.war

The ant script will copy an updated sas.analytics.crm.ma.webapp.war into the configuration directory at Lev1/web/webapps. The script will have created a copy of the original war file suffixed with today's date.

The Marketing Automation Web Components web module needs to be redeployed in its respective application server (Weblogic or Websphere) for the changes to take effect.

5.3: Deployment of the SAS Campaign Web Studio war

If you are deploying to **BEA WebLogic**, please now follow the instructions under section 5.3.1: Deployment Instructions for BEA WebLogic.

If you are deploying to **IBM WebSphere**, please now follow the instructions under section 5.3.2: Deployment Instructions for IBM WebSphere.

5.3.1: Deployment Instructions for BEA WebLogic.

After logging into the Weblogic console, Navigate to Deployments==> Web Application Modules ==> sas.analytics.crm.ma.webapp in the left panel. (Note that your Target name may vary. The example below used the name SASManagedServer.) Click the Configuration tab to verify your deployment path is the Lev1/web/webapps/directory where the updated war file now resides.

Click the 'ReDeploy' button under the Actions column.

🔮 WebLogic Server Console - Microsoft Inter	net Explorer provid	led by The TRC Lab							X
<u>Eile E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp									221
🔇 Back 🝷 🕤 👻 😰 🐔 🔎 Search 😒	7 Favorites 🛛 🤗)+ 😓 🔜 + 🗔 🚉							
Address 🕘 http://localhost:7501/console/actions/r	mbean/MBeanFramese	tAction?bodyFrameId=wl_conso	le_frame_12	02394371813&isNew	=false&fra	meId=wl_console	_frame_12023943718148sidebarFram	ieId=💌 🛃 Go 🛛 Links	s »
		• Web Applications> :			webapı	p	#□?	BEA bea	
→ admin	Connected to : loca	alhost:7501 You ar	e logged i	n as : weblogic	1 <u>Lo</u>	<u>gout</u>			
SASManagedServer Clusters	Configuration 1	Targets Deploy Moni	toring T	esting Notes					
⊞		s you to view the deployme onfigure additional deployme					op or redeploy individual Web a	pplication	
Deployments Deployments Deployments Deployments	modules. (10 ct	onigure additional deploym	ent targets	Tor these web ap	plication	modules, click	- the rangets tab.)		
EJB Modules	Module Status	Target	Target Type	Status of Last Action	A	ctions			
 Portal sas.analytics.crm.ma.v 	Active	SASManagedServer	Server	Success	Stop	Redeploy			
 SASPreferences SASStoredProcess SASTherme_default SASTherme_winter 							-		
i sasweb i SASWebReportStudio ↓									
🙆 Applet navapplet started								😼 Local intranet	//.

Weblogic Campaign Web Studio Deployed

This completes the application server deployment of the hot fix to Weblogic. Please now skip to section 6.

5.3.2: Deployment Instructions for IBM WebSphere.

Re-deploy SAS Marketing Automation Web components using the Websphere Admin console.

- Navigate to Applications->Enterprise Applications
- Select the Stop button to stop sas_analytics_crm_ma_webapp

Start Stop Install	Uninstall Update Export Export DDL
□ Name ≎	Status ≎_⊉
DefaultApplication	\$
Marketing Automation 4	<u>.</u> +
Portal_war	₽
SASDoc_war	⊕
SASPreferences_war	
SASStoredProcess_war	
SASTheme_default_war	
SASWebAnalytics_war	
SASWebReportStudio_v	ar
SCOUT	•
adminconsole	•
ivtApp_	₽
sas_analytics_crm_ma_	vebapp_war_

- Select the update button to update sas_analytics_crm_ma_webapp
- On the next screen, fill in the path to the sas_analytics_crm_ma_webapp_war file (Lev1/web/webapps)
- Type *ma* as the Context Root

eparing for the application installation	
Specify the EAR, WAR or JAR module to	upload and install.
- Path to the new application	
• Local file system	
Specify path	
/Lev1/web/webapps/	sas.anal Browse
O Remote file system	
Specify path	
	Browse
Context root	
ma	Used only for standalone Web modules (.war files)
Next Cancel	

- Choose Next
- Choose Next
- Choose *Continue* on the Application Security Warnings panel
- Step 1 Select Next
- Step 2 Select Next
- Step 3 Check the box for Web Module "sas.analytics.crm.ma.webapp.war" then Select Next
- Step 4 Summary, Select Finish
- Save

___ Websphere Campaign Web Studio Deployed

6. Installing 51ma12 hotfix on the Server Tier

The 51ma12 hotfix contains files for the Marketing Automation Server Tier.

The 51ma12_xxx directory under the directory containing the hot-fix tar file will contain a file: mktautox6.tar (where x is the appropriate suffix for the Unix platform. A for AIX etc.)

With the exception of HP Itanium, where the suffix will be 'hx', example below: Ex: mktauto**hx**.tar

Copy this file to the <SAS Install Dir>/SAS_9.1 then cd to that directory

Unarchive the file using tar –xvf mktautox6.tar. This will replace the necessary stored process and SAS macros with the hot fix versions

You can verify the updated files as follows

<sas dir="" install="">/SAS_9.1/cmacros/ma/sasmacr.sas7bcat</sas>	new date of Sep xx 2009
<sas dir="" install="">/SAS_9.1/sasstp/ma/ma_cdi_update_ch.sas</sas>	new date of Sep xx 2009
<sas dir="" install="">/SAS_9.1/sasstp/ma/ma_cdi_update_rh.sas</sas>	new date of Sep xx 2009
<sas dir="" install="">/SAS_9.1/misc/ma/mapublish.map</sas>	new date of Sep xx 2009

<SAS Install Dir>/SAS_9.1/misc/ma/mapublish.map needs to be copied to the MAMisc folder. To know the location of this folder open the file <Config Dir>/Lev1/SASMain/appserver_autoexec.sas. Copy the mapublish.map to the path specified in the line : "libname MAMisc '..\MAMisc';" (default location: <Config Dir>/Lev1/SASMain/Data/MAMisc).

SAS Compute Server updated

7. Common Data Model DDL and Alter Scripts

Released Version DDL and Alter Scripts

SAS Customer Intelligence is delivered with Data Description Language (DDL) scripts to be used at installation time to create the SAS Customer Intelligence reporting Common Data Model on the underlying database. (<SAS Install Dir>/SAS_9.1/misc/ma/ciddlxxx.sas)

The scripts that accompany the 5.1 release of Customer Intelligence do not include any changes introduced by subsequent hot-fixes. These updates have been provided through 'alter' DDL scripts that accompany the hot-fixes.

New customer sites that have not configured the Common Data Model should refer to the product documentation on how to configure the common data model for the first time. Then create it before running any of the alter DDL scripts. The alter scripts must then be applied in sequence following successful creation and configuration of the Common Data Model tables.

If you already have hot fixes applied then please skip to the hot fix after the latest you have installed. All DDL scripts are installed to <SAS Install Dir>/SAS_9.1/misc/ma

51MA01 Hot Fix

The Customer Intelligence hot-fix (51MA01) introduced alter scripts to modify the key of the CI_RESPONSE_HISTORY table and to add a new column to the CI_CAMPAIGN table: CAMPAIGN_FOLDER_TXT. These scripts are designed to alter a Customer Intelligence 5.1 Common Data Model that has already been installed using the DDL that was shipped with the Customer Intelligence 5.1 release. The following files are provided by the service-pack in the <SAS Install Dir>/SAS_9.1/misc/ma location

	File	Supported DB
1	cia01ora.sas	Oracle
2	cia01db2.sas	DB2
3	cia01trd.sas	Teradata
4	cia01sqs.sas	SQL Server
5	cia01spd.sas	SPDS

Appendix A: of this document provides specific guidance on how to apply the 51MA01 alter scripts.

51MA02 Hot Fix

The Customer Intelligence hot-fix (51MA02) introduced a new DDL script for support of the Netezza database platform. The script comprised a full DDL that can be used to create the physical data structures for the Common Data Model tables on Netezza. The script included changes and updates that were introduced in 51MA01 so no additional alter script is required for Netezza. The file is named as follows:

	File	Supported DB
6	ciddIntz.sas	Netezza

If you have already installed the 51ma01 hot fix and are not using Netezza as your database then this SAS Marketing Automation hot fix 51ma12 Page | 22

script need not be run

51ma12 Hot Fix

The 51ma12 hot fix contains a second set of alter scripts one for each supported platform as well as introducing a new DDL script for support of the Neoview database platform and an update to the Netezza DDL.

The alter scripts provide updates to add five new budget columns to the CI_COMMUNICATION table.

Again, these scripts are designed to alter a Customer Intelligence 5.1 Common Data Model that has already been installed using the DDL that was shipped with the Customer Intelligence 5.1. These scripts should only be applied after the scripts from 51MA01 have been applied. The second set of alter script files are named as follows:

	File	Supported DB
1	cia02ora.sas	Oracle
2	cia02db2.sas	DB2
3	cia02trd.sas	Teradata
4	cia02sqs.sas	SQL Server
5	cia02spd.sas	SPDS

The full Netezza DDL discussed under the 51MA02 hot fix has been superseded the new versions incorporates changes needed in 51ma12

A new DDL was added to support Neoview.

Customers who wish to use the Common Data Model with either Netezza or Neoview should refer to the product documentation on how to configure the common data model for the first time and apply these scripts accordingly. No alter scripts are provided for these two database platforms.

The Netezza and Neoview DDL scripts are named as follows:

	File	Supported DB
6	ciddIntz.sas	Netezza
7	ciddlneo.sas	Neoview

Appendix A: Instructions for applying changes to the Common Data Model

The 51ma12 hotfix has supplied Alter DDL scripts for the Customer Intelligence 5.1 Common Data Model. New customer sites that have not configured the Common Data Model should refer to the product documentation on how to configure the common data model for the first time before running the Alter DDL scripts.

The hot fix delivers Alter table DDL to modify the key of the CI_RESPONSE_HISTORY table and to add a new column to the CI_CAMPAIGN table: CAMPAIGN_FOLDER_TXT. These Alter Table DDLs will alter a Customer Intelligence 5.1 Common Data Model that has already been installed using the DDL that was shipped with the Customer Intelligence 5.1 product. The following files are downloaded with the hotfix.

Oracle DDL:	cia01ora
DB2 DDL:	cia01db2
SQL Server DDL:	cia01sqs
SPD Server DDL:	cia01spd
Teradata DDL:	cia01trd

PLEASE NOTE: Prior to running any Alter table DDL, you must apply an update to the data in your CI_RESPONSE_HISTORY table(s). The primary key is being changed to add two columns: TREATMENT_SK and CELL_PACKAGE_SK. TREATMENT_SK was delivered in the original DDL script with a setting of "NULL". TREATMENT_SK will now be set to "NOT NULL" to comply with the requirements of being a member of the primary key. All rows of data that contain a null value in the TREATMENT_SK column must be updated to a 'NOT NULL" value (-1).

Sample code to update TREATMENT_SK in the CI_RESPONSE_HISTORY table:

PROC SQL; UPDATE <YOUR CI_RESPONSE_HISTORY TABLE> SET TREATMENT_SK = -1 WHERE TREATMENT_SK IS NULL; QUIT;

Overall code changes required before executing the DDL scripts:

- 1. If the CI_RESPONSE_HISTORY table was renamed when initially created, to allow for multiple subjects or business contexts, rename the table specified in the alter table statements to match the table created by your install.
- 2. If the CONSTRAINT names were renamed when initially created to allow for multiple subjects or business contexts, rename the constraint names in the alter table statements to match the constraints created by your install.
- 3. Modify the SUBJECT_ID column in the list of primary key columns in the execute statement, to match the modifications that were made when the table was initially created. The SUBJECT_ID column was a placeholder column name in the original CI 5.1 CI_RESPONSE_HISTORY DDL and should have been modified with key columns to a customer specific subject.
- 4. If multiple CI_RESPONSE_HISTORY tables were created to accommodate multiple subjects and business contexts, copy and repeat all EXECUTE statements that contain the alter table code. Make the changes listed in 1, 2 and 3 above to each set of alter table code for each Response History table that you have uniquely created in your schema.

*** This completes the changes to CI_RESPONSE_HISTORY ***

Install specifics for Teradata customers:

Since the change to the CI_RESPONSE_HISTORY table requires a change to the primary key of the table, the above alter table instructions do not apply to Teradata. Teradata will not allow a primary key to be dropped and dropping the key is necessary to accomplish this modification to the table.

Prior to running the supplied Teradata code, perform the following tasks:

- If data exists in your CI_RESPONSE_HISTORY table, save the data to another table. This hot fix requires deletion of the CI_RESPONSE_HISTORY table, so saving the data is essential.
- Drop the existing CI_RESPONSE_HISTORY table.

Make the following changes to the supplied code for the CI_RESPONSE_HISTORY table:

- 1. If the CI_RESPONSE_HISTORY table was renamed when initially created to allow for multiple subjects or business contexts, rename the table specified in the create table statements to match the table created by your install.
- 2. If the primary key constraint name was renamed when initially created to allow for multiple subjects or business contexts, rename the constraint name in the create table code statements to match the constraints created by your install.
- 3. Modify the SUBJECT_ID column in the list of primary key columns in the execute statement, to match the modifications that were made when the table was initially created. The SUBJECT_ID column was a placeholder column name in the original CI 5.1 CI_RESPONSE_HISTORY DDL and should have been modified with key columns to a customer specific subject.
- 4. If multiple CI_RESPONSE_HISTORY tables were created to accommodate multiple subjects and business contexts, copy and repeat all EXECUTE statements that contain the create table code. Make the changes listed in 1, 2 and 3 above to each set of create table code for each Response History table that you have uniquely created in your schema.
- 5. Reload the saved data from your existing CI_RESPONSE_HISTORY table to the newly created CI_RESPONSE_HISTORY table.
 - *** This completes the changes to the CI_RESPONSE_HISTORY table. ***

Install specifics for DB2 customers:

The DB2 Alter table code has to be run in two passes. First make the changes listed above in the section titled: **Overall code changes required before executing the DDL scripts**. Next, after the primary key is dropped and the TREATMENT_SK column in the CI_RESPONSE_HISTORY table has been set to NULL in the first section of SQL code, you must have your DBA *REORG* the CI_RESPONSE_HISTORY table. This is a DB2 requirement and you cannot continue until this is done!

After your DBA has run the *REORG* on the CI_RESPONSE_HISTORY table, you must un-comment the final set of Proc SQL code statements provided in the last section of the DDL script and run only this SQL code to create the new primary key on the CI_RESPONSE_HISTORY table. This completes the changes to your DB2 CI_RESPONSE_HISTORY table.