

INSTALLATION INSTRUCTIONS FOR HOT FIX 41WARNTY04 ON AIX 64BIT

BEFORE DOWNLOADING:

The hot fix 41WARNTY04 addresses the issue(s) in 4.1 of SAS Warranty Analysis software on AIX 64BIT as documented in the "Issue(s) Addressed" section of the hot fix download page:

<http://ftp.sas.com/techsup/download/hotfix/warnty41.html#41WARNTY04>

IMPORTANT NOTE(S):

1. You must have SAS Warranty Analysis 4.1 installed on your system and hot fix 41warnty02 must already be applied before applying this hot fix.
2. The hotfix must be installed using the same userid that performed the initial SAS Warranty Analysis 4.1 installation.
3. You must have Administrator Privileges on your CLIENT or SERVER machine.
4. All currently active SAS sessions, daemons, spawners and servers must be terminated before applying this hot fix.

INSTALLING THIS HOT FIX:

1. Technical Support strongly suggests that you back up the files being replaced by this hot fix. You should always try to include the current date in the name of the backup file created to distinguish between versions of backup files. By doing this you will maintain a history of the file, which will be helpful when multiple iterations of a hot fix have been applied to the same file.

For example,

```
cp sas.foo.jar sas.foo.jar.09142009
```

where 09142009 is the date when the hot fix is applied.

The .<date> extension MUST be appended AFTER the .jar extension as it appears above.

The files that should be backed up for this hot fix are listed in Step #4 of installation instruction of 41wrtyanlmid01r6.tar.

2. Extract 41warnty04r6.tar into a temporary directory. For example,

```
> cd /tmp  
> tar -xf $HOME/41warnty04r6.tar
```

where \$HOME is the location of the downloaded tar file.

This extracts four components of this hot fix into /tmp/41warnty04r6. The four components extracted are:

41wrtyanlap04r6.tar
contains updates to the SAS Warranty Analysis for Analytics Platform on AIX

41wrtyanlmid04r6.tar
contains updates to the SAS Warranty Analysis Mid-Tier on AIX

41wrtyanlclnt04wn.exe
contains updates to the SAS Warranty Analysis client on WIN

41wrtyanlmva04r6.tar.Z
contains updates to the SAS Warranty Analysis Server on AIX

Use the instructions below to apply the individual components that apply to your system.

Updating Analytics Platform Tier.

Installing 41wrtyanlap04r6.tar:

The Analytics Platform component of the hot fix package is a tar file named 41wrtyanlap04r6.tar. 41wrtyanlap04r6.tar should be copied to and installed on the machine which is running SAS Analytics Platform.

41wrtyanlap04r6.tar Java installation file containing replacement or new files below:

sas.analytics.mfg.warranty.core.jar
sas.analytics.mfg.warranty.core.client_4.1.0.jar
sas.analytics.mfg.warranty.core.smartobj.jar

Execute these steps on the machine which is running SAS Analytics Platform.

1. Extract the contents of 41wrtyanlap04r6.tar into a temporary directory, for example /tmp/41warnty04r6.

```
$> mkdir /tmp/41warnty04r6  
$> cd /tmp/41warnty04r6  
$> tar -xf ./41wrtyanlap04r6.tar
```

The tar command will extract the following files to the temporary directory:

r64/Setup_AIX_Power
r64/media.inf
r64/setup.jar

2. Verify that Setup_AIX_Power has execute permission. If it does not, use the 'chmod' command to make it executable:

```
$> cd /tmp/41warnty04r6/r64
$> chmod 755 Setup_AIX_Power
```

3. Initiate the installation wizard

```
$> export DISPLAY=<nodename>:0          <==== set your display
$> cd /tmp/41warnty04r6/r64
$> ./Setup_AIX_Power
```

This will initiate the Java install wizard. Follow the prompts to complete the installation.

NOTE: During 41wrtyanlap04r6.tar installation with *-console* option, you may see the following error:

```
ServiceException: (error code = 200; message = "ERROR: could not read property value for bean
getAPLocationbecause the following error occurred:
java.lang.NullPointerException/apps/SASWarrantyAnalysis/lib/sas.analytics.mfg.warranty.core.clie
nt_4.1.0.jar (A file or directory in the path name does not exist."); severity = 0; exception =
[java.io.FileNotFoundException: ERROR: could not read property value for bean
getAPLocationbecause the following error occurred:
java.lang.NullPointerException/apps/SASWarrantyAnalysis/lib/sas.analytics.mfg.warranty.core.clie
nt_4.1.0.jar (A file or directory in the path name does not exist.)])
```

This is a known issue and can be ignored. This issue will not impact the installation of the hot fix

4. To verify the installation of the hot fix confirm that the file(s) in the location(s) below have been updated to the level indicated by the date provided:

To verify the installation of the hot fix confirm that the following file:
sas.analytics.mfg.warranty.core.smartobj.jar

has been added in following locations indicated by the date provided:
<!SASHOME>/SASAPCore/apps/SASWarrantyAnalysis/lib
Date: 05/11/09 (EST)

To verify the installation of the hot fix confirm that the following file(s):
sas.analytics.mfg.warranty.core.client_4.1.0.jar
sas.analytics.mfg.warranty.core.jar

have been added in following locations indicated by the date provided:
<!SASHOME>/SASAPCore/apps/SASWarrantyAnalysis/lib
Date: 09/10/09 (EST)

Analytics Platform Tier Post-Installation Instructions:

After you have installed 41wrtyanlap04r6.tar and verified the above files in respective directories please go through the manual steps mentioned below:

1. Copy
<!SASHOME>/SASAPCore/apps/SASWarrantyAnalysis/lib/sas.analytics.mfg.warranty.core.client_4.1.0.jar to <!SASHOME>/SASAPCore/lib
2. Copy
<!SASHOME>/SASAPCore/apps/SASWarrantyAnalysis/lib/sas.analytics.mfg.warranty.core.smartobj.jar to <!SASHOME>/SASAPCore/lib

Modify app.config for performance improvements as follows:

1. Edit !SASInstall\SAS\SASAPCore\apps\SASWarrantyAnalysis\app.config
2. At the bottom of the file add:
 - a) midTier.dataCacheLocation=<Path_to_directory_for_storing_SWACache>
for example, midTier.dataCacheLocation=C:/SWACache/
 - b) (Optional) Setup this property if you don't want the default value of 5 days
midTier.dataCache.deleteAfterNDays=<Number_of_days>
for example, midTier.dataCache.deleteAfterNDays=10
 - c) Make sure that logging.xml is false to turn off analysis option retrieval logging.

NOTE: You have to restart Analytics Platform for the above modifications to take effect.

Updating Mid Tier:

Installing 41wrtyanlmid04r6.tar:

The Server component of the hot fix package is a tar file named 41wrtyanlmid04r6.tar. 41wrtyanlmid04r6.tar should be copied to and installed on all SAS Warranty Analysis Mid-Tier Server machine.

41wrtyanlmid04r6.tar Java installation file containing following files below:

- sas.analytics.mfg.warranty.webapp.jar
- sas.analytics.mfg.warranty.app_4.1.0.jar
- sas.analytics.mfg.warranty.core.client_4.1.0.jar
- org.eclipse.equinox.launcher_1.0.0.v20080924.jar
- JavaConf.xml
- SWA_Eclipse_RCP.jnlp.orig
- Eclipse_Signed_Extensions.jnlp.orig

Execute these steps on the SAS Warranty Analysis Mid-Tier Server machine..

1. Extract the contents of 41wrtyanlmid04r6.tar into a temporary directory, for example /tmp/41warnty04r6.

```
$> mkdir /tmp/41warnty04r6
$> cd /tmp/41warnty04r6
$> tar -xf ./41wrtyanlmid01r6.tar
```

The tar command will extract the following files to the temporary directory:

```
r64/Setup_AIX_Power
r64/media.inf
r64/setup.jar
```

2. Verify that Setup_AIX_Sparc has execute permission. If it does not, use the 'chmod' command to make it executable:

```
$> cd /tmp/41warnty04r6/r64
$> chmod 755 Setup_AIX_Power
```

3. Initiate the installation wizard

```
$> export DISPLAY=<nodename>:0          <==== set your display
$> cd /tmp/41warnty04r6/r64
$> ./Setup_AIX_Power
```

This will initiate the Java install wizard. Follow the prompts to complete the installation.

4. To verify the installation of the hot fix confirm that the following file(s):
sas.analytics.mfg.warranty.app_4.1.0.jar
sas.analytics.mfg.warranty.core.client_4.1.0.jar

have been added in following locations indicated by the date provided:
<SASHOME>/SASWarrantyAnalysis/4.1/MidTier/WebApp/SASWarrantyAnalysis/plugins
Date: 09/10/09 (EST)

The following file(s):
org.eclipse.equinox.launcher_1.0.0.v20080924.jar

has been added in following locations indicated by the date provided:
<SASHOME>/SASWarrantyAnalysis/4.1/MidTier/WebApp/SASWarrantyAnalysis/plugins
Date: 04/21/09 (EST)

The following file(s):

sas.analytics.mfg.warranty.webapp.jar

has been added in following locations indicated by the date provided:

<!SASHOME>/SASWarrantyAnalysis/4.1/MidTier/WebApp

Date: 09/10/09 (EST)

The following file(s):

sas.analytics.mfg.warranty.webapp.jar

sas.analytics.mfg.warranty.core.client_4.1.0.jar

have been added in following locations indicated by the date provided:

<!SASHOME>/SASWarrantyAnalysis/4.1/MidTier/WebApp/SASWarrantyAnalysis/WEB-INF/lib

Date: 09/10/09 (EST)

The following file(s):

JavaConf.xml

has been added in following locations indicated by the date provided:

<!SASHOME>/SASWarrantyAnalysis/4.1/MidTier/SystemAssembly

Date: 05/20/09 (EST)

The following file(s):

SWA_Eclipse_RCP.jnlp.orig

Eclipse_Signed_Extensions.jnlp.orig

have been added in following locations indicated by the date provided:

<!SASHOME>/SASWarrantyAnalysis/4.1/MidTier/WebApp/SASWarrantyAnalysis/jnlp

Date: 05/20/09 (EST)

Mid Tier Post-Installation Instructions:

After you have installed 41wrtyanImid04r6.tar and verified the above files in respective directories please go through the manual steps mentioned below:

1. Backup <!SASCONFIG>/Lev1/web/webapps/SASWarrantyAnalysis.war i.e., rename the file to SASWarrantyAnalysis.war.01062009, where 01062009 is the date when the hot fix is applied.
2. Run
<!SASHOME>/SASWarrantyAnalysis/4.1/MidTier/SystemAssembly/assembleWarFile.sh
This will create a new SASWarrantyAnalysis.war in <!SASCONFIG>/Lev1/web/webapps
3. Deploy the newly created SASWarrantyAnalysis.war in your application server.
Note: Before deploying the newly created SASWarrantyAnalysis.war, ensure that you have removed the previously deployed SASWarrantyAnalysis application from your application server. Also ensure that the application server cache is cleared. Please refer to the instructions manual of your Web Application Server for updating war files.

For Ex., if you are using Tomcat 4.1 as your application server, delete SASWarrantyAnalysis folder from <!TOMCATDIR>/webapps and clear <!TOMCATDIR>/work.

4. Follow this step if you are using WebLogic as your application server.
 - a. Backup <!SASCONFIG>/Lev1/web/webapps/exploded/SASWarrantyAnalysis.war i.e., rename the folder to SASWarrantyAnalysis.war.01062009, where 01062009 is the date when the hot fix is applied.
 - b. Copy <!SASHOME>/SASWarrantyAnalysis/4.1/MidTier/WebApp/SASWarrantyAnalysis to <!SASCONFIG>/Lev1/web/webapps/exploded/
 - c. Rename the newly copied SASWarrantyAnalysis folder to SASWarrantyAnalysis.war
 - d. Deploy <!SASCONFIG>/Lev1/web/webapps/exploded/SASWarrantyAnalysis.war in WebLogic.

Updating Client Tier:

Installing 41wrtyanlclnt04wn.exe:

The client component of the hot fix package is a self extracting executable named 41wrtyanlclnt04wn.exe. 41wrtyanlclnt04wn.exe should be copied to and installed on all client machines.

Launching the executable will initiate a Java install wizard, which will guide you through the extraction of the updated component(s).

41wrtyanlclnt04wn.exe Java installation file containing replacement files below:

sas.analytics.mfg.warranty.app_4.1.0.jar
sas.analytics.mfg.warranty.core.client_4.1.0.jar

To verify the installation of the hot fix confirm that the following file(s):

sas.analytics.mfg.warranty.app_4.1.0.jar
sas.analytics.mfg.warranty.core.client_4.1.0.jar

have been added in following locations indicated by the date provided:

<!SASHOME>\SASWarrantyAnalysis\4.1\Client\plugins

Date: 09/10/09 (EST)

Updating SAS Server Tier:

Installing 41wrtyanlmva04r6.tar.Z:

The SAS Server Tier component of the fix package is a tar file named 41wrtyanlmva04r6.tar.Z. 41wrtyanlmva04r6.tar.Z should be copied to and installed on all SAS Warranty Analysis Server Tier machines.

The file contains the following replacement files:

sasmacr.sas7bcacat

the replacement catalog containing the hot fix in !SASROOT/cmacros/wrtyanlmva

cnfg_buildworldmactable.sas

the replacement catalog containing the hot fix in

!SASROOT/misc/wrtyanlmva/install/configure

Perform the following steps on the SAS Server machine:

1. Copy the 41wrtyanlmva04r6.tar.Z to the /tmp/41WARNTY04r6 directory on the SAS Server machine.

NOTE: !SASROOT represents the directory where SAS 9.1.3 (9.1 TS1M3) is installed.

For example:

```
/appl/sas/SAS_9.1
```

2. (Optional) Back up the existing version of all the files before extracting the contents of this hot fix package.
3. Extract the contents of the hot fix package.

```
$> cd /appl/sas/SAS_9.1
```

```
$> uncompress -c /tmp/41WARNTY04r6/41wrtyanlmva04r6.tar.Z | tar -xf -
```

4. Update the installation history file. Use the following commands to execute the script that updates the hot fix install history file. You *must* execute this script from the !SASROOT directory.

```
$> cd /appl/sas/SAS_9.1
```

```
$> install/admin/hotfix/histupd_41warnty04
```

SAS Tier Post-Installation Instructions:

1. **** MANDATORY **** Run the following script in an interactive SAS session on the server that contains the PARMSL library. This script will add a new column CONNECTSERVER to the parmsl.datasourcids_base table that will determine how a remote SPDS data mart will be accessed. The default value for this column is N, and hence, SAS sever will directly connect to the remote SPDS server without SAS/CONNECT. If you wish to use SAS/CONNECT, change the value of CONNECTSERVER to Y.

```
libname parmsl ' '; /* Define parmsl libref */
%let libname=parmsl;
%let viewlibname=&libname;
```



```

proc sql noprint;
alter table &libname..DATASOURCEIDS_BASE
  add CONNECTSERVER char(1) label='Y/N to use Connect Server
for Remote Datamart';

update &libname..DATASOURCEIDS_BASE
  set CONNECTSERVER="N" ;

create view &libname..DATASOURCEIDS as
  select a.DATASOURCEID,
        b.TEXT as NAME,
        a.DATASOURCEGROUP,
        a.LIBREF,
        a.LIBCONTENTTYPE,
        a.ENGINE,
        a.PATH,
        a.DATAPATHS,
        a.INDEXPATHS,
        a.SERVER,
        a.CONNECTPORT,
        a.SERVICEPORT,
        a.DOMAIN,
        a.USER,
        a.PASSWORD,
        a.CONNECTSERVER
  from &viewlibname..DATASOURCEIDS_BASE as a
  left join
  &viewlibname..DATASOURCEIDS_NLS as b
  on a.DATASOURCEID eq b.KEY and
     upcase(getpxlocale()) eq upcase(b.locale)
;
quit;

```

2. Execute the following steps if you would like to display Geographic Analysis results with the world map as the geographic area.
 - a. Run the script `cnfg_buildworldmactable.sas` in an interactive SAS session on the server that contains the PARM SL library to recreate the world map tables. This script can be found at `!SASROOT/misc/wrtyanlmva/install/configure`.
 - b. Verify the following settings in the `parmsl.analysisMacVars` table:
 - i. `analysisstype=GEOGRAPHIC` `macrovar=lowestArea` `macrostmt=state`
 - ii. `analysisstype=GEOGRAPHIC` `macrovar=mapHierarchy` `macrostmt=cont state segment`

	ANALYSISSTYPE	MACROVAR	MACROSTMT
199	GEOGRAPHIC	byVar	
194	GEOGRAPHIC	expCharType	CUMULATIVE
196	GEOGRAPHIC	findexpMeasurement	TRUE
201	GEOGRAPHIC	lowestArea	state
200	GEOGRAPHIC	mapHierarchy	country state segment
197	GEOGRAPHIC	mapByVar	20
198	GEOGRAPHIC	otherFormatLabelCriteria	TRUE
195	GEOGRAPHIC	uniqueValue	FALSE

- c. Replace the settings in the parmsl.Screenattrvalues_base table to:
 - i. attrname=geographicarea value=parmsl.proj_world

VIEWTABLE: Screen Attribute Values Base				
	ATTRNAME	ORDER	VALUE	ATTRCRITERIA
194	geographicarea	10	parmsl.proj_world	

- d. Replace the settings in the parmsl.Screenattrvalues_nls table to:
 - i. locale=en_US key=geographicarea10 text=World

VIEWTABLE: SCREENATTRSVALUES NLS				
	LOCALE	KEY	LINENO	TEXT
99	en_US	geographicarea10	1	World

For other locales, the TEXT column should contain the translation of 'World' in Unicode escape sequence (\uxxxxx). Unicode escape codes can be generated using the SAS function *unicoddec*.

- 3. If SAS Warranty Analysis 4.1 is configured to support multiple currencies, insure that the SAS_FORMAT column in the parmsl.exchange_rates_info_base table contains a valid SAS format such as NLMNYw.d (national language monetary) formats.

VIEWTABLE: Exchange Rates Information Base		
	CURRENCY_CD	SAS_FORMAT
1	GBP	NLMNLGBP32.2
2	INR	NLMNLINR32.2
3	SEK	NLMNLSEK32.2
4	USD	NLMNLUSD32.2

- 4. Mid-tier data caching was introduced in SAS Warranty Analysis Hot Fix 03 for performance improvement. Changes made to tables in the PARMSL library require clearing of memory cache. This can be done in the Diagnostic Client by selecting the link under Memory Cache Size (K) or the Cache View link, and selecting Clear.

This completes the installation of hotfix 41WARNTY04 on AIX 64BIT.