

## SAS® 9.1 z/OS

### Please Read Before Beginning Installation

#### Overview

**Note:** *z/OS is the successor to the OS/390 operating system. SAS 9.1 for z/OS runs on both z/OS and OS/390, and throughout this document (and any Alert notes from the Web site listed below) any reference to z/OS should be interpreted to refer equally to OS/390, unless otherwise stated. Likewise, any reference to z/OS also applies to z/OS.e unless otherwise stated.*

Alert Notes list problems that you need to be aware of before installing or using this software. Fixes and/or workarounds may be provided for the problems. While Alert Notes may be written about any aspect of your software, Alert Notes about Installation and General System Issues are the only ones included in this document.

For the latest Alert Notes, visit the following SAS Web site:

[http://support.sas.com/techsup/search/alert\\_search.html](http://support.sas.com/techsup/search/alert_search.html)

This Web page gives you the following search options:

- Operating System
- Release
- Sorted by
- Product
- Component

SAS recommends that you perform three searches, using these selections for *Component*:

- General System Issues
- Install Issues
- Installation Instructions

In addition, you may want to perform a fourth search in which *Component* is “All Components” and select a product to view product-specific Alert Notes.

After your initial query of Alert Notes through the application listed above, it is essential that one or more representatives at your site subscribe to TSNEWS-L in order to receive future Alert Notes concerning your software. To subscribe through e-mail, send e-mail to [LISTSERV@VM.SAS.COM](mailto:LISTSERV@VM.SAS.COM). The body of the e-mail should read SUBSCRIBE TSNEWS-L.

To subscribe through Technical Support's Web site, complete the Web form located at:

<http://support.sas.com/techsup/news/tsnews.html>

Should you need assistance with the software beyond the information provided by the Alert Notes or TSNEWS-L, we ask that only the SAS Installation Representative or SAS Support Consultant call our Technical Support Division. Sites in the U.S. and Canada may call (919) 677-8008. Other sites should contact their SAS Installation Representative or SAS Support Consultant for the nearest SAS office.

## Server Tier

### The Default SYSOUT Class for the Business Intelligence Architecture Servers May Generate Large Volumes of Unwanted Output

The default installation and deployment of the Business Intelligence Architecture servers on z/OS (via the `deploy_IA.sh` script) will create started task JCL that directs output DD names to the default SYSOUT class (`SYSOUT=*`). Your z/OS installation may have default SYSOUT classes set to print this output, which may be undesirable when a large volume of output is present. This was set intentionally to aid in the diagnostic process of bringing the different servers on line.

After the servers have been deployed successfully, you should evaluate and update the servers' JCL to redirect the SYSOUT to an appropriate class, disk file, DUMMY, etc. Note that the generated server started task JCL has commented out JCL statements with the SYSOUT directed to "DUMMY" to disable the creation of the unwanted output.

SAS Note SN-011252 documents this problem.

### Running Configured Business Intelligence (BI) Servers with Alternate Encodings (I)

After the Intelligence Architecture configuration process is complete, the foundation servers are configured by default with a W0 encoding (`OP_ED1047`). If your installation needs to run with an alternate encoding, a few simple modifications to the server started task JCL and the SASRX REXX exec will need to be performed (please refer to the *Installation Instructions for SAS 9.1 Foundation for z/OS* for a complete listing of encodings, languages, and installation codes).

As an example, to change from running with an `OP_ED1047` encoding (encode value of W0), to running with an `OP_ED1141` encoding (encode value of W3), perform the following:

- Started Task JCL - Edit the started task procedures for the OLAP, Metadata, and Share servers which can be found in `&prefix.SRVPROC` (the default server names, as specified in the `configuration.properties` file, are `LV1OLO1`, `LV1MDO1`, and `LV1SHO1` respectively). Find the definition for the CONFIG DD name, and change the file in the concatenation with a specified member name of `BATW0` to `BATW3`. Make sure that these changes are propagated to the appropriate started task library for your installation.
- SASRX REXX exec - Edit the SASRX REXX exec found in `&prefix.SRVREXX`. Near the top of the file, you will find the definition for `ConfigDefault` which will look something like

```
ConfigDefault = '&prefix.CNTL(tsow0)'
```

Change the member name `tsow0` to the appropriate encoding (`tsow3` in the example listed above).

SAS Note SN-011353 documents this problem.

## BAOPTS1 and BAOPTS2 Jobs Change the Attributes of SASHOST, SASXAL, SASXA1, and the Restricted Options Module Forcing Them to Be Loaded Below the 16 MB Line

SAS 9.1 TS1M0 and above ship the SASHOST, SASXAL, and SASXA1 modules with `AMODE=31` and `RMODE=ANY` which allows them to be loaded above the 16 MB line.

The link steps in the BAOPTS1 job for linking the default options table in each of the above modules has `AMODE=24` and `RMODE=24` parms specified. This will change the attributes of the modules causing them to be loaded below the 16 MB line. This, in turn, could cause virtual storage problems. The BAOPTS2 job which creates the restricted options module also has the `AMODE=24` and `RMODE=24` specification.

To prevent changing the attributes, edit the BAOPTS1 and BAOPTS2 jobs and code `AMODE=31` and `RMODE=ANY` for the necessary steps before running the jobs. You should also specify the `COMPAT=(LKED)` parm.

For example:

```
//*-----*/
//*          LINK DFLTOPTS INTO SASHOST          */
//*-----*/
//LKED1 EXEC PGM=IEWL,COND=(4,LT,ASM),
// PARM='LET,RENT,REUS,REFR,TERM,AMODE=31,RMODE=ANY,COMPAT=(LKED)'
```

If `COMPAT=(LKED)` is not added, the following message will be displayed:

```
ESD RMODE(24) CONFLICTS WITH USER-SPECIFIED RMODE(ANY) FOR SECTION
VVESAA@
```

This message can be ignored but will generate a `RC=4`. The message can be suppressed (the job should complete with a `RC=0`) by adding `COMPAT=(LKED)`.

When adding `COMPAT=(LKED)` to the BAOPTS2 job, the parm line will need to be split.

For example:

```
// PARM=('XREF,LET,LIST,MAP,RENT,REUS,REFR,TERM,AMODE=31,RMODE=ANY',
//      ',COMPAT=(LKED)')
```

SAS Note SN-012734 documents this problem.

## **SAS SVC is Required for SAS/CONNECT and Object Spawners**

In SAS 9.1 TS1M0 and above, the SAS SVC is now required for SAS/CONNECT Spawner and SAS/Integration Technologies Object Spawner.

To install the SVC follow the instructions in the section “Installing the SAS 9.1 Foundation SVC Routine” in the *Configuration Guide for SAS 9.1 Foundation for z/OS*.

When the SVC is installed, if the SVC number (default 109) and routing code (default 4) are changed there are additional configuration steps that must be completed.

SAS Note SN-012356 provides more detail and documents the additional required steps.

## ***Mid-Tier***

### **JAR Files and Their Parent Directory Have Write Permission**

In SAS 9.1, several of the mid-tier installation directories and their associated JAR files have write permission.

This may pose a security risk, because the JAR files in these directories could be removed or changed by any user.

SAS Note SN-012101 documents this issue.

### **SAS Java-based Products May Experience Problems When Run on a PC Using the ATI Rage XL Video Driver**

SAS Java-based products may experience problems when run on a PC using the ATI Rage XL video driver. Problems have been uncovered while using ATI Rage XL version 5.0.2195.5005 and version 5.0.2195.5012. SAS Java-based products include the SAS Software Navigator. Java installations can similarly be affected. These products and installations are dependent on the Sun Java 1.4.1 Runtime Environment. The problems occur between the JRE version 1.4.1 and the ATI Rage XL driver, affecting the SAS products.

The workaround is to upgrade the ATI Rage XL driver to the 5.0.2195.5022 or higher release.

SAS Note SN-012187 documents this issue.

## ***Client Tier***

### **SAS Java-based Products May Experience Problems When Run on a PC Using the ATI Rage XL Video Driver**

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The workaround is to upgrade the ATI Rage XL driver to the 5.0.2195.5022 or higher release.

SAS Note SN-012187 documents this issue.

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