

## Hotfix 913CDD03 – Visual Data Explorer and SAS Web OLAP Viewer for Java

### BEFORE DOWNLOADING:

The hot fix 913CDD03 addresses issue(s) in 9.1.3 of Component Design and Development Components on Windows as documented in the "Issue(s) Addressed" section of the hot fix download page:

<http://ftp.sas.com/techsup/download/hotfix/cdd913.html#913cdd03>

### IMPORTANT NOTE(S):

1. You must have SAS 9.1.3, Service Pack 3 installed on your machine before applying this hotfix.
2. The SAS metadata foundation repository must contain a BI root folder with the name 'BIP Tree'. This is the default BI root folder name used in SAS 9.1.3 installs. If this root folder does not exist, it can be created using the SAS Management Console Business Reports Manager

### 3. FOR SAS WEB OLAP VIEWER

Make back up copies of files being replaced:

--- Copy the current file  
sas.ads.iqueryutil.jar

from the

"<SASWebOLAPViewerForJava root install folder>/2.1/SASWebOLAPViewer/WEB-INF/lib"  
folder to a backup area.

--- Copy the current file  
sas.dataexplorer.jar

from the

"<SASWebOLAPViewerForJava root install folder>/2.1/SASWebOLAPViewer/WEB-INF/lib"  
folder to a backup area.

### 4. FOR SAS INFORMATION DELIVERY PORTAL

Make back up copies of files being replaced:

--- Copy the current file  
sas.ads.iqueryutil.jar

from the

"<Portal root install folder>/Portal/WEB-INF/lib"  
folder to a backup area.

--- Copy the current file  
sas.dataexplorer.jar

from the  
"<Portal root install folder>/Portal/WEB-INF/lib"  
folder to a backup area.

--- Copy the current file  
sas.dataexplorer.jar

from the  
"<Portal root install folder>/SASServices/WEB-INF/lib"  
folder to a backup area.

#### AFTER DOWNLOADING - INSTALLATION:

The hot fix package downloaded is a tar file named 913cdd03hx.tar.

STEP 1: Extract the contents of the downloaded file

Extract the contents of the tar file downloaded into a temporary directory, for example /tmp.

```
$> cd /tmp/
```

```
$> tar -xf $HOME/913cdd03hx.tar
```

where \$HOME is the location to where the tar file was downloaded.

This will create a directory called 913cdd03 in the current working directory, and in this directory will be the following two tar files containing installation files associated with the SAS products listed below:

913cdd03wik\_h6i.tar - SAS Information Delivery Portal  
913cdd03swovj\_h6i.tar - SAS Web Olap Server for Java

Each of the above files contains an installer:

```
Setup_HPUX_IA64  
media.inf  
setup.jar
```

Extract the contents of each file into separate temporary directory and continue with STEP 2.  
(still using /tmp for illustration purposes).

```
$> mkdir /tmp/913cdd03/wik /tmp/913cdd03/swovj
```

```
$> cd /tmp/913cdd03/wik
```

```
$> tar -xf /tmp/913cdd03/913cdd03wik_h6i.tar
$> cd /tmp/913cdd03/swovj
$> tar -xf /tmp/913cdd03/913cdd03swovj_h6i.tar
```

STEP 2: Initiate the installation wizard (for each of the products)

```
$> export DISPLAY=<nodename>:0      <===== set your display
$> cd /tmp/913cdd03/wik/h6i      <===== For SAS Information Delivery Portal hot fix
$> ./Setup_HPUX_IA64
```

Follow the prompts to complete the installation.

```
$> cd /tmp/913cdd03/swovj/h6i      <===== For SAS Web Olap Server for Java hot fix
$> ./Setup_HPUX_IA64
```

Follow the prompts to complete the installation.

## MANUAL POST-INSTALLATION STEPS:

After the hotfix, 913CDD03 , finishes execution, you should rebuild and redeploy the associated .war file by following the steps below:

### SAS WEB OLAP VIEWER

1. Run the "configure.bat" file in "<SASWebOLAPViewerForJava root install folder>/2.1" to create a new war file for deployment.
2. Follow the steps in the "<SASWebOLAPViewerForJava root install folder>/2.1/config.doc" file for redeploying the war file.

### SAS INFORMATION DELIVERY PORTAL

1. Run the "configure\_wik.bat" file in "<Portal root install folder>" to create a new Portal.war file for deployment.
2. Follow the steps in "Step 11: Deploy Web Application Files into the Servlet Container" in the "wik\_readme.html" file in the "<Portal root install folder>". This will redeploy the Portal.war file to the servlet container on your portal Web application's Web server machine.

## **Additional Usage Instructions:**

### **Securing User Folders**

Data explorations are saved views of Information Maps stored as metadata objects. Metadata objects can be organized and secured in folder structures in the metadata repository. Access permissions can be applied to folders containing objects to provide a secure framework to create and access metadata. The Read Metadata permission allows the viewing of a data exploration, and the Write Metadata permission allows the creation of a data exploration.

The SAS Visual Data Explorer (VDE) and the SAS Web OLAP Viewer for Java (SWOVJ) provide a File Save feature to store data explorations in user folders created in the 'BIP Tree' root folder, using the following pattern:

`/BIP Tree/Users/<userid>/`

For 9.1.3 SP3, these user folders were not secured by the application.

The 913CDD03 hot fix modifies these applications to programmatically secure the user folder to the owner when it is created. Access permissions are applied that grant Read Metadata and Write Metadata to the owning user, and deny Read Metadata and Write Metadata to the PUBLIC metadata group.

### **Limiting the File Save feature to the secure user folder location**

For the initial creation of user folders, VDE and SWOVJ users must have Write Metadata permissions at this folder location,

`/BIP Tree/Users/`,

and as a result, data explorations can be stored in this unsecured location. With this hot fix, the File Save feature will be restricted to the user's secure user folder.

To apply this hot fix successfully, the metadata repository must have a root BI Folder with the name 'BIP Tree'. This is the default name used in product installs. If this file does not exist, it can be created using the SAS Management Console Business Reports Manager.

### **Direct opens for cubes and generated information maps**

When VDE or SWOVJ open Cubes for viewing, the applications generate information maps for use by the query subsystem. These maps are created in a common, unsecured folder location,

/BIP Tree/SASGeneratedMaps/<OLAP Schema Name>/

where <OLAP Schema Name> refers to the OLAP schema for the cube.

All VDE and SWOVJ users must have Read Metadata and Write Metadata permissions to access this folder when accessing OLAP cubes, and the generated information maps created here are accessible to these users.

Although the information map cannot expose cube views restricted by access permissions on the cube metadata, customer application developers may wish to limit direct access to cubes and the potential to browse and access generated maps.

With this hot fix, the application code will support a new initialization parameter that controls the File Open dialog. When set, the parameter removes cubes from the File Open "Files of Type:" selection list.

To prevent the opening of cubes, an administrator would add the following xml to the web.xml file for the VisualDataExplorerServlet class is defined in the xml:

```
<init-param>
<param-name>allowOpeningCubes</param-name>
<param-value>>false</param-value>
</init-param>
```

The Portal uses the VisualDataExplorer servlet to view information maps and the web.xml to configure this servlet is located in the deployed web applications directory:

.webapps/Portal/WEB-INF

The XML would be placed as follows:

```
<servlet>
  <servlet-name>InformationMapViewServlet</servlet-name>
  <servlet-class>com.sas.servlet.util.VisualDataExplorerServlet</servlet-class>
  <init-param>
    <param-name>allowOpeningCubes</param-name>
    <param-value>>false</param-value>
  </init-param>
</servlet>
```

Modifying the deployed XML file and restarting the Portal application will have an immediate effect the servlet. However, it always a best practice to modify the web.xml file in the Portal's installation staging area, and then rebuild and redeploy the Portal WAR file. The web xml file in the Portal's installation staging area, depending on host, will have a path like this:

/<sas install root>/SAS/Web/Portal2.0.1/Portal/WEB-INF/web.xml.orig