

Reference Guide

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OpenEnterprise Maintenance Reference Guide (V2.83)

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1 OpenEnterprise Maintenance Manual

This user documentation is provided as a task-driven guide for OpenEnterprise SCADA system engineers who are responsible for maintaining a configured OpenEnterprise project.

1.1 Documenting all work done on the system:

- 1) How to create and maintain a system log file.
- 2) What is OEHook and how to configure it?

1.2 Caring for the Historical:

- 1) What do the symbols in archive file manager indicate?
- 2) How to move archive files online/offline
- 3) Removing archive files from the online folder manually.
- 4) Restoring Archive files from Back up media

1.3 Caring for Bristol licenses:

- 1) Dos and Don'ts for maintaining a workstation license.
- 2) How to kill a workstation license.
- 3) How to request a workstation license that has been broken - USA.
- 4) Using the Bristol License Manager.

1.4 Security:

- 1) Adding a New User to the System
- 2) Disabling a User
- 3) Removing a User

1.5 Growing the OE system:

- 1) Adding /Removing an RTU
 - a) Adding an RTU
 - b) Deleting an RTU
- 2) Adding/Removing Signals to the database
 - a) Adding signals to the Database
 - b) Deleting signals from the Database

1.6 Troubleshooting:

- 1) Version Mismatches

1.7 Maintaining a System Changes Log

Maintaining a system changes log is a recommended practice. Any time you make a significant change to the system (adding new hardware, installing new software, adding/deleting RTUs or signals, etc.) you should make note of the change in the system changes log.

1.7.1 Who Should Perform This Procedure?

A System Engineer should perform this procedure.

1.7.2 Creating the System Changes Log (1st time only)

Follow these steps to create a System Changes Log:-

1. On the OpenEnterprise Server, open an empty text file in Notepad, and enter the text: **.LOG** in UPPERCASE on the first line of the file, and press the [Enter] key to add a carriage return.
2. Save the System Changes Log file with the name *server_name*.TXT where *server name* is the name of your OpenEnterprise Server. Exit Notepad.
3. Re-start Notepad, and open the file you just created. Verify that the current date and time have been added to the file. This will happen each time you edit the log, thus maintaining a record of when you make system changes.
4. In Windows™ Explorer, create a shortcut for it by right-clicking on its icon, and choosing "**Create Shortcut**" from the pop-up menu; drag the shortcut onto the Windows™ desktop.
5. Rename the shortcut to 'System Log'.
6. Drag the shortcut to the Windows™ Start button (this will add it to your Start menu.)

1.7.3 Maintaining the System Changes Log

Follow these steps to maintain the System Changes Log:-

1. Each time you make significant changes to the system; call up the System Changes log file you created above, either through the shortcut, or from the Windows™ Start menu.
2. Make notes describing your changes, and save the file.

1.8 Using OEHook

The oehook.dll is a simple utility for Windows, which will log all program starts within Windows to the file C:\oehook.txt, with timestamps. Once installed, it will monitor all attempts to open files within Windows.

It can also (optionally) be configured to prevent any program being run for more than a specific number of instances.

To do this the file oehook.ini should be placed in the Windows directory (typically C:\Windows or C:\Winnt). It should contain an entry for each program you wish to control, as per the following example:

```
[D:\Program Files\Bristol\OpenEnterprise\bin\rtrdb.exe]
```

OpenCount=1

(Where OpenCount indicates the maximum number of instances that may exist)

If the utility prevents the starting of a program, it will indicate the system is out of memory, rather than indicating the actual reason.

Note: Setting an OpenCount=0 will prevent the program from running!

1.8.1 OE Hook Setup Procedure:

1. Unzip the files to the BBIUtil folder.
2. Simply double click on the setup.bat file to install

1.9 Archive File Tool Symbols

1. Archive files marked with a **blue check** with an "A" have been brought online automatically.
2. Files marked with just a **blue check** have been brought online manually.
3. Files marked with a **red X** are currently offline and will need to be brought online to view the data.
4. Files marked by a paper with a **red X** indicates that the file is currently unavailable.

1.10 Moving Files Online/Offline

Data in archive files is only accessible when the archive file is online, however, only a certain number of archive files can be kept online at the same time. Therefore, if you need access to an archive file that is offline, you may need to bring it online, and then subsequently take it offline.

1.10.1 Who Should Perform This Procedure?

A System Engineer should perform this procedure.

1.10.2 Before You Begin

1. You must have privileges to work with Archive Files.
2. The OE Database must be running.
3. The Archive File Tool (accessible from the "**Archive Files**" item in the OE Toolbox) must be running.
4. A program which supports the Archive File Tool (called OEArchiveFileManager.EXE) must be running. Normally it is started automatically as part of the OpenEnterprise Session, but if you haven't configured the Session Manager yet, you'll need to start it manually from the /Bristol/OpenEnterprise/bin folder.

1.10.3 Bringing an Offline Archive File Online

1. In the Archive File Tool, offline archive file names are preceded with a **red X**.
2. In the Archive File Tool, highlight the file or group of files to be brought online, and then click on the **[Bring Online]** button.
3. A message box will appear, asking you to confirm that you want to bring this Archive File online. Click **[Yes]**.

4. The Online Properties dialog box will appear. First, choose the Archive File you want to bring online.
5. You need to choose how long you want this Archive File to remain online.
 - a. **"Indefinitely"** the file will remain online until you manually take it offline.
 - b. **"For"** you can specify a time for which the archive file will remain online
 - c. **"Until"**, you can specify a date and time for which the Archive File will be taken offline by the system.
6. Click on **[OK]** and the Archive File will be brought online.
7. You will notice that the file will now be preceded with a blue check.

1.10.4 Taking Files Offline

1. In the Archive File Tool files that were brought on line manually are preceded with a **blue check**.
2. To take any of these files offline highlight the file or group of files and then click on the **[Take Offline]** button.
3. You will notice the file will now be preceded with a **red X**.

1.11 Removing Archive Files

As archive files are produced, there may come a time when some of the older files need to be removed from the server to make room for more archives. The following procedure will need to be performed if this is the case.

1.11.1 Who Should Perform This Procedure?

A System Engineer should perform this procedure.

1.11.2 Before You Begin

1. You must have privileges to work with Archive Files.
2. The OE Database must be running.
3. The Archive File Tool (accessible from the **"Archive Files"** item in the OE Toolbox) must be running.
4. A program which supports the Archive File Tool (called OEArchiveFileManager.EXE) must be running. Normally it is started automatically as part of the OpenEnterprise Session, but if you haven't configured the Session Manager yet, you'll need to start it manually from the /Bristol/OpenEnterprise/bin folder.

1.11.3 Removing unwanted Archive files from the server

1. Remove old realanalog archive files from the online folder
2. Create a list or lists of archive files that are no longer available. These are files in the archive file tool that appear to have a paper with a red **X** in the middle.
3. The following sql statement will create a list of the archive filenames that are unavailable from realanalog group 1 with a rate of 0s:-

```
SQL> writing 'oldarch-1-0s' select filename from archivecatalogue
where currentstate = 4 and control = 1 and rate = '0s';
```

4. The resulting file will be oldarch-1-0s.dat in the data folder. This file can be opened with notepad.
5. Using this list you will create a script for removing the unavailable archive file from the archivecatalogue:-

```
SQL> delete from archivecatalogue where filename
IN('1_0s_20031221093716_725_22.arch',
'1_0s_20031221093716_725_23.arch',
'1_0s_20031221093716_725_24.arch');Commit;
```

6. You should be able to copy and paste from the filename list created in step 2 directly into notepad. Then insert your archive filenames from the list as in the example. These files are separated by a comma and enclosed within parentheses. Save this file into the data folder with the .sql extension for example archdelete.sql.
7. Open the sql window and include the file you created:-

```
SQL> include 'archdelete';
```

1.11.4 Removing unwanted Event files from the server

1. To remove unavailable event files from the archivecatalogue repeat steps 1, 2, and 3 in the section above. But before these files can be removed from the archivecatalogue they must first be removed from the archiveindex.

```
SQL> delete from archiveindex where filename
IN('1_0s_20031221093716_725_22.arch',
'1_0s_20031221093716_725_23.arch',
'1_0s_20031221093716_725_24.arch');

Commit;
```

2. After the files have been removed from the archiveindex you can then delete these files from the archivecatalogue as described in step 5 of the 'Removing unwanted Archive Files from the Server' section above.

1.12 Restoring Archive Files

You may need to bring archive files that have been manually removed from the online folder back online again to view their data. This requires two tasks:-

1. Copying the files back to the online folder
2. Restoring them into the archivecatalogue table in the database.

1.12.1 Who Should Perform This Procedure?

A System Engineer should perform this procedure.

1.12.2 Before You Begin

1. You must have privileges to work with Archive Files.

2. The OE Database must be running.
3. The Archive File Tool (accessible from the "**Archive Files**" item in the OE Toolbox) must be running.
4. A program which supports the Archive File Tool (called OEArchiveFileManager.EXE) must be running. Normally it is started automatically as part of the OpenEnterprise Session, but if you haven't configured the Session Manager yet, you'll need to start it manually from the /Bristol/OpenEnterprise/bin folder.

1.12.3 Restoring Offline Archive Files from Backup Media or a different Server

If you have Archive Files that are currently not visible in the Archive Catalog tree, you will need to add them in by following the following steps:-

1. First, copy them to the Online Archives folder (**archdirectory** in oelogdata) you specified during historical configuration.
2. If you are copying the files from a CD-ROM they will typically be read-only, even after you restore them to Online Archives folder the server. If this is the case, you must change their file attribute to read-write before you try to add them into the Archive Catalog.
3. Once you have copied them to the Online Archive folder, and adjusted the file attribute, as necessary, you need to add them into the Archive Catalog.
4. Open the *Toolbox* from the Windows Start button with **Start->All Programs->OpenEnterprise->Toolbox**. Then open the *Archive File Tool* from the Toolbox by double clicking on it.
5. Navigate to the proper dataset and rate for the archive files to be added.
6. Click on the **[Add Archives]** button in the Archive File Tool.
7. The Archive File Import dialog box will show a list of all archive files in the Online Archive folder that do not currently exist in the Archive Catalog tree.
8. If you want the files brought online automatically once they are added to the catalog, make sure you select the "**Keep files online after they are imported**" box.
9. You can now add the files into the catalog by selecting the file(s) you want to add, and clicking on **[OK]**.
10. Any files you selected will be added to the Archive Catalog tree.
11. If you didn't specify that they should be kept online after import, you should proceed to bring them online, when you need them.

1.13 Maintaining a Workstation License

Your OEGraphics Licensing Software uses special licensing files to control your product license. These files are hidden system files and must always reside in the same directory on the hard drive. These files are generated by the Iconics licensing tool that is installed with OpenEnterprise.

License verification of these files includes not only checking the information within the files, and ensuring that they are in the original installation directory, but also the physical position of the files on the hard drive of the installation PC.

This document is provided to help you to avoid certain actions that may destroy the OEGraphics licensing on PC's that have OpenEnterprise Workstation installed.

1.13.1 OEGraphics (ICONICS GraphworX32) Licensing – things you should NOT do...

ACTION	EXPLANATION
Do NOT Copy License Files from One PC to another.	Deleting, moving or even copying the License files on the hard drive will result in the loss of your license. NEVER copy licensing files.
Do NOT Move license files (or the folder they are in) from one location to another on the same PC	Moving the files (even temporarily) within the PC's folder/disc structure will destroy the license.
DO NOT change the name of a PC (as shown in Network Neighborhood)	Never change the name of a PC after the licensing tool has been installed.
Do NOT Uninstall the Software Licensing when uninstalling GraphworX32.	The ICONICS Software Licensing application is independent from the GraphworX32 application. Never uninstall Software Licensing unless instructed by Technical Support personnel.
Do NOT use Norton Utility to de-fragment the hard drive on the PC unless you follow the instructions shown on the right.	<p>Speed Disk is the de-fragmentation utility included in Symantec's Norton Utilities. Unfortunately, Speed Disk moves ICONICS licensing files, causing license loss.</p> <p>To prevent license loss:</p> <ol style="list-style-type: none"> 1. Open Speed Disk and choose File Options Customize Unmovable Files. 2. Specify that *.ENT, *.RST, *.KEY and *.41S files cannot be moved.
DO NOT Change the PC's file system from Fat32 to NTFS once the GraphworX32 License has been installed.	<p>Changing from Fat32 to NTFS will modify the file structure for every single file on the hard disk. (Warning – this can happen when upgrading from WINNT-> Win2000)</p> <p>As a result, every file will be read and re-written and the ICONICS license will be destroyed.</p> <p>The licensing files are linked to specific locations in the FAT. Once re-written, the license is lost.</p>
DO NOT Change the date on the PC (Temporary license only).	<p>The GraphworX32 demo license is a time-limited license. Changing the date on your PC will be noticed by the license utility and interpreted as tampering. Loss of the license will be the result.</p> <p>Starting the ICONICS Software License utility will generate a message stating that the time on the PC has been reset and the utility will not run. Resetting to the exact previous date may recover your license.</p> <p>However, changing the time within the same day of the same month of the same year will not affect a Temporary license.</p>

1.13.2 OEGraphics (ICONICS GraphworX32) Licensing – things you CAN do...

ACTION	EXPLANATION
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<p>You CAN change the date/time on the PC, if you have a permanent (non demo) license</p>	<p>Doing this will not affect a Permanent GraphworX32 License.</p>
<p>You CAN change the time zone on the PC.</p>	<p>Doing this will not affect a Permanent or Temporary GraphworX32 License.</p>
<p>You CAN allow servers and workstations to change the time to adjust for daylight saving time changes automatically</p>	<p>Doing this will not affect a Permanent or Temporary GraphworX32 License.</p>
<p>You CAN use Microsoft Windows System Tools such as Disk Defragmenter to defragment the hard drive on the PC.</p>	<p>Windows Disk Defragmenter will work perfectly without harming the license.</p>
<p>You CAN transfer a license to another PC (Permanent or Temporary license). However, It is recommended that you KILL the license, send the KILL.TXT file to Bristol Babcock for a credit then request and install a license on the other machine.</p>	<p>The ICONICS License utility allows you to transfer the license by using a floppy disk. Just start the License Utility by selecting</p> <p><i>Programs</i>→<i>ICONICS Software Licensing</i> →<i>License Utility</i></p> <p>from the Windows Start button. The license utility will appear. Select</p> <p><i>Actions</i>→<i>Transfer License</i></p> <p>from the menu and follow the steps to transfer the license.</p>
<p>You SHOULD Make a Symantec Ghost image of the machine after the license is first installed.</p>	<p>Symantec 'Ghost' can make an image of the disc that can be restored, keeping the license intact. However, the image must be restored to an identical machine (physically and network configuration). Having a Ghost image of the machine is your backup if (for example) you need to reformat the machine to fix a virus infection. We strongly recommend that the ghost image is made to a bootable, writable CD and kept safely.</p>
<p>You <u>MUST</u> KILL the license FIRST if you have to do anything in the DON'T list! Send the KILL.TXT file to Bristol Babcock for a credit before continuing.</p>	<p>If you need to undertake one of the 'don't' actions described above (e.g. converting a FAT partition to NTFS) use the Iconics license utility to KILL the license before you start. Email the resulting kill.txt file to Bristol Babcock before continuing, and wait until you have a confirmed credit. The KILL.TXT file is your proof that you have destroyed the license. You may then request a new license once you have completed work on the machine.</p>

1.14 How to Kill a Workstation License

The license needs to be killed if the workstation is being taken out of service or if there is going to be some

1.14.1 Who Should Perform This Procedure?

The Security Administrator should perform these procedures.

1.14.2 Before You Begin

You must be logged onto the OpenEnterprise Server with Security Administrator's privileges.

1.14.3 Removing an OE Graphics License

If you are transferring a license from one workstation to another, you should realise that the license on the original machine will no longer be valid and cannot be used within your system.

The technique to remove a license is to carry out a 'kill license'.

Start the License Utility tool

Start→Programs→Iconics Software→ Licensing

Use the 'License Utility' tool and choose 'Kill License' from the 'Actions' drop-down menu. You will be prompted by several messages that will warn you that you are about to permanently lose the license from this machine.

After accepting all of these dialog boxes, you will be prompted by a dialog box that should be filled with your personal information. Fill this in as appropriate and enter the password (*itisok*)

This will generate a 'kill.txt' on your hard drive. The file will usually be located within the bin folder of the 'License Tool'. Do not uninstall the license tool until you have safely made a copy of the kill.txt and sent it to the appropriate contact within Bristol Babcock.

Never send the information directly to Iconics, unless expressly told to by one of the OE Licensing Managers. Once you have removed the license from a workstation, you should uninstall the OE software from the machine.

See the OEMaintenance manual on the CD for a printable version of the Workstation License Request Form.

1.15 OpenEnterprise Workstation License Replacement Request

If you are currently running a licensed copy of OpenEnterprise Workstation and have lost the license code (normally due to hardware or machine failure), you must re-apply for a new license by completing the following form in full.

Please complete and fax this form to the OpenEnterprise Product Team at: +1 (413) 825-6360

We are unable to supply you with a new Site Key for your machine until the current license has been declared as no longer in use on this form. Each replacement license will be issued at the discretion of Bristol Babcock Inc. Note that if you plan to re-install or reconfigure a machine it is recommended that you use the 'Kill License' utility to generate a KILL.TXT file. If this is emailed to openenterprise@bristolbabcock.com a credit will be issued against the product, and a replacement license issued later upon request, removing the need to complete this form

I declare that Site Key #: _____

has been destroyed on the OpenEnterprise Workstation because of the following reason:

I hereby request that this license be replaced with a new license based on the following Site Code and associated information:

New Site Code: _____

Project Name: _____

Project Number: _____

Machine Name: _____

E-mail Address: _____

Name: _____

Company Name: _____

Date: _____

Signature: _____

Machine Name as it appears in Start->Settings->Control Panel->Network->Identification

1.16 How to use the Bristol License Manager

You will need to use this tool when licensing Bristol components.

1.16.1 Who Should Perform This Procedure?

The Security Administrator should perform these procedures.

1.16.2 Before You Begin

Be sure that the components to be licensed are already installed. And that you have purchased these components from Bristol.

1.16.3 Where is the Bristol License Manager?

The License Manager tool is installed when OpenBSI is installed on the machine.

To start the License Manager go to:

Start→Programs→Bristol Babcock Licensing→License Manager

This will bring up the License Manager.

1.16.4 Create a LRF file

This button is used to generate a new License Request File for this computer. When you click Save As a dialog box will open and you will need to specify the name and location of the request file. It is recommended that you take the default name.

1.16.5 Get Key

If you do not have Internet access or you are licensing an OpenEnterprise product you will not be able to use this function.

For OpenEnterprise product licensing you will need to email the LRF file to Steve Hill at Stephen.Hill@emersonprocess.com. Your request will be processed and the License Key file will be sent to you via email.

For non OpenEnterprise requests you should contact Product Support for assistance.

When selected this button will open up the internet Browser and locate the Bristol Licensing page.

You will need your Bristol Babcock Inc. Log in credentials and the LRF file you have created.

Upon completion there will be a License Key available for you to download.

1.16.6 Include Key

This button is used to apply the License Key file you have obtained.

After applying the key file the product will be licensed for this computer

Note: *The following functions are not currently supported for OpenEnterprise products.*

- Create Transfer
- Transfer License
- Install Transfer

1.17 Adding a New User to the System

When a new user needs to access the OpenEnterprise system, a new OpenEnterprise user account needs to be created.

1.17.1 Who Should Perform This Procedure?

The Security Administrator should perform these procedures.

1.17.2 Before You Begin

You must be logged onto the OpenEnterprise Server with Security Administrator's privileges.

1.17.3 Adding a New User to an existing Group

1. Start the OE Security Configuration Tool by selecting Start->All Program->OpenEnterprise->Toolbox, and double click the Security Config tool.
2. Just *right*-click on the group you want to add the user to, and choose "**New User in Group**" from the pop-up menu.
3. An empty box will appear in the right-hand pane of the Security Configuration Tool. Type the user name of the user into the box.
4. When you press the **[Enter]** key to complete the name, the Granting Privileges dialogue box will pop up and begin to run automatically. This will grant the table privileges associated with the group.

5. When complete the User Properties dialog box will appear. Enter text in these fields to describe the user. You can now customize the information for that user, such as their name, etc.
6. Enter the initial password for the user in the field. **"Password"** and **"Verify Password"**

Notice that the group is already defined, because we added the user under the group name.

All of the privileges are pre-defined, because we added the user directly into an existing group. When you have finished click on **[OK]** to exit the Group / User Properties dialog box, an icon will have been created for that user.

1.18 Disabling a User's Account

User accounts may be disabled when someone leaves your plant staff, either temporarily or permanently.

1.18.1 Who Should Perform This Procedure?

The Security Administrator should perform these procedures.

1.18.2 Before You Begin

You must be logged onto the OpenEnterprise Server with Security Administrator's privileges.

1.18.3 Disabling a User's Account

1. If a user is going away on vacation, or will be away for an extended period, you can disable their account. While the account is disabled, this user will not be able to log into the system.
2. To do this, start the Security Configuration Tool and call up the Group / User Properties page for this user, by double-clicking on the icon for this user.
3. Select the **"Account Disabled"** box, and click on **[OK]**.
4. Later, to re-activate the account, simply de-select this box and click on **[OK]**.

1.19 Removing a User

User accounts are removed when someone leaves your plant staff, permanently.

NOTE: In most cases, we recommend you disable accounts, instead of removing them.

1.19.1 Who Should Perform This Procedure?

The Security Administrator should perform these procedures.

1.19.2 Before You Begin

You must be logged onto the OpenEnterprise Server with Security Administrator's privileges.

1.19.3 Removing a User

1. To permanently remove a user from your system, first start the Security Configuration Tool from the OE Toolbox.
2. *Right-click* on the icon for the user you want to remove, and choose **"Delete"** from the pop-up menu.

3. You will be prompted to confirm the deletion.
4. Click on **[Yes]** and the user will be removed from the system.

1.19.4 Sometimes you can't delete a user...

Let's say one of your Operators named ANDY quits his job and goes to work for another company, so you decide you want to delete ANDY from the system. You try to delete the user, according to the example above, but the system doesn't allow it. Why?

Well, the OpenEnterprise Server maintains records about who performs certain actions in the system. For example, if ANDY acknowledged several alarms, and those alarms have not been cleared entirely from the OpenEnterprise Database, you will NOT be allowed to delete ANDY, since the database still needs to identify who he is.

If this comes up, we suggest you disable the user's account. That way, their name remains in the system for record-keeping purposes, but they are unable to log in and do anything.

1.20 Adding an RTU

This would be performed if a new controller (RTU) is added to the system.

1.20.1 Who Should Perform This Procedure?

A System Engineer should perform this procedure.

1.20.2 Before You Begin:

Communications with the controller network must be active.□

The OE Database must be running.

1.20.3 Adding an RTU:

1. In Open BSI's NetView program (which runs on the OE Server computer) start the RTU Wizard to add the RTU to your existing network. This is done by *right*-clicking on the network icon, and choosing Add _ RTU from the pop-up menus. Follow the instructions in Chapter 6 of the *Open BSI Utilities Manual* (document#D5081) if you need help on using the RTU Wizard. It must have a proper local address, and must be able to use one of the communication lines for that network.
2. In ACCOL Workbench or ControlWave Designer (as appropriate to the RTU type), modify the control strategy file for that RTU to mark any signal(s) you are adding as alarms, global, or RBE.
3. Compile the control strategy file, and download it into the controller.
4. Edit POST_DBB scripts, as appropriate: This RTU must be added to the NW3000DEVICE table via the POST_SETDEVICECOLLECTION.SQL script. If you want signals from this RTU collected via the Historian, assign them to the appropriate Logging Group by specifying the dataset number in the POST_SETHISTORICALGROUPING.SQL file. If you want some signals from this RTU assigned to a different scan time class than the default for their RTU (as specified previously in the POST_SETDEVICECOLLECTION.SQL), set timeclass numbers for them in POST_SETSIGNALCOLLECTION.SQL. If you want to assign descriptive text to these signals from this RTU, do so by editing the POST_SIGNALDESCR.SQL file.
5. Run Database Builder (DBB) to update the OE Database.

6. If the Database Builder (DBB) was NOT configured to run the post-DBB scripts automatically, run them using the following command:

```
sql> include post_dbb.sql;
```

7. Run the Poll List Builder.
8. Update your system changes file to record the fact that you've added a new RTU.

1.21 Deleting an RTU

1. If the RTU being deleted includes signal(s) that are currently in an alarm state, the alarm state must first be cleared (i.e. it must have returned to normal) and the alarm must have been acknowledged. Otherwise, it will remain active in the OE Database.
2. In Open BSI's NetView program, right-click on the icon for the RTU you want to delete, and choose "Delete" from the pop-up menu. Answer 'Yes' when prompted to confirm that you want to delete the RTU.
3. Remove any references to these signals from POST-DBB files.
4. Run Database Builder (DBB) to update the OE Database. Instead of choosing [Build All] choose [Rebuild]. All references to that RTU will be removed from the OE Database.
5. Update your system changes file to record the fact that you've deleted an RTU.

1.22 Adding one or more signals to the OE Database

You may decide, at some point that you want to add one or more signals to the OE Database, because, for example, your control strategy has changed. To add one or more signals, you must do the following:

1. In ACCOL Workbench or ControlWave Designer (as appropriate to the RTU type), modify the control strategy file to mark any signal(s) you are adding as alarms, global, or RBE.
2. Compile the control strategy file, and download it into the controller.
3. If your system has been configured using custom scripts follow step 4. If your database is built using the tools in the OE tool box skip to step 5
4. Edit POST_DBB scripts to include these signals, as appropriate: If you want these signals collected via the Historian, assign them to the appropriate Logging Group by specifying the dataset number in the POST_SETHISTORICALGROUPING.SQL file. If you want to assign these signals to a different scan time class than the default for their RTU, set time class numbers for them in:POST_SETSIGNALCOLLECTION.SQL. If you want to assign descriptive text to these signals, do so by editing the POST_SIGNALDESCR.SQL file.
5. Run Database Builder (DBB) to update the OE Database. was NOT configured to run the post-DBB scripts automatically (via the DBB.INI file), run them using the following command:

```
sql> include post_dbb.sql;
```

6. Run the Polllist Builder (TPB)

1.23 Deleting one or more signals from the OE Database

1. If any of the signal(s) being deleted are currently in an alarm state, the alarm state must first be cleared (i.e. it must have returned to normal) and the alarm must have been acknowledged. Otherwise, it will remain active in the OE Database.
2. In ACCOL Workbench or ControlWave Designer (as appropriate to the RTU type), modify the control strategy file so that any signal(s) you want to delete from the OE Database are no longer configured as alarm, global, or RBE signals. If you don't want them in the control strategy at all, you could delete them.
3. Compile the control strategy file, and download it into the controller.
4. Remove any references to these signals in POST-DBB files if used.
5. Run Database Builder (DBB) to update the OE Database. *Instead of choosing [Build All] choose [Rebuild].* All references to those signal(s) will be removed from the OE Database.
6. Run Pollist Builder to rebuild the templates
7. Update your system changes file to record the fact that you've deleted signals.

1.24 Version Mismatches - What are they?

If you encounter a message in the Alarm Summary referring to a version mismatch, this indicates that the version of the control strategy file (ACCOL or ControlWave) residing on the OpenEnterprise Server *does NOT match* the version of the file residing in the RTU.

This occurs when someone has modified the control strategy file, perhaps locally, but has not saved the modified file in the correct area on the OpenEnterprise Server. (See the Open BSI Application Parameters dialog box to find out where these files should be stored.)

Version mismatches are a serious problem, since the OpenEnterprise Database uses the control strategy files to identify which signals should be collected. **When a version mismatch occurs, all data from the affected RTU is marked as questionable, and is discarded.**

To resolve the problem you can run the Database Builder (DBB) and Poll List Builder.

This can be set to run automatically, you can configure the Session Manager to run DBB and Poll List Builder with the **-n** parameter (Monitor Mode). Monitor Mode will cause DBB and Poll List Builder to always be running, and checking for mismatches. They will then resolve the mismatches automatically, when they occur. See the online help or *OpenEnterprise Reference Manual* for information on configuring the Session Manager.

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