

ObjectServer Quick Start Migration Guide

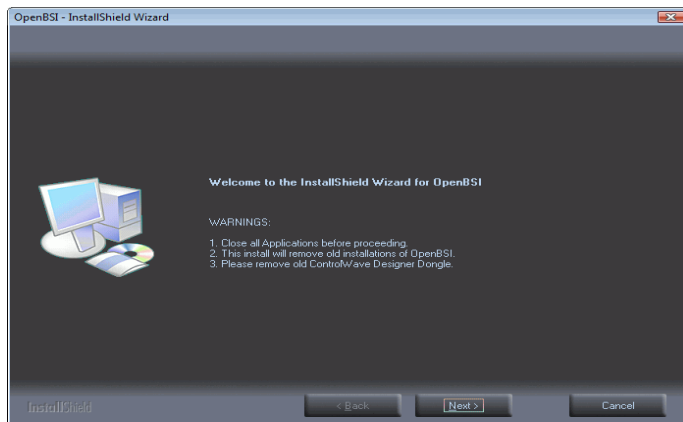
Migrating from Bristol[®] OpenBSI OPC Server to ObjectServer

Upgrade Made Easy!

ObjectServer is a Remote Automation Utility to provide third party application access to real time data and alarms from the Bristol range of controllers

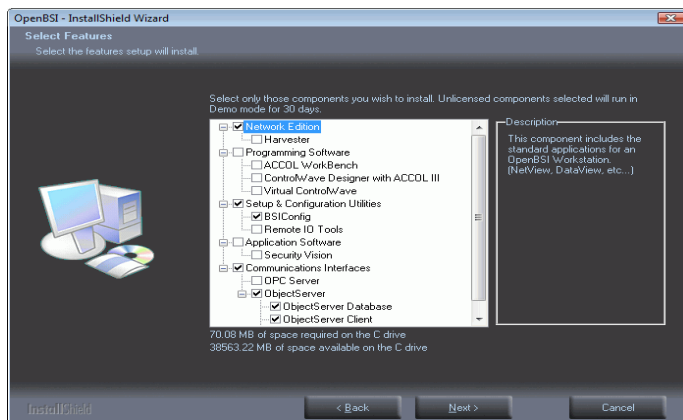
Step 1: Install OpenBSI

ObjectServer is installed as an optional OpenBSI item. OpenBSI installs automatically from the supplied media. On-screen instructions guide you through the install process.



The install wizard presents a selection table of components to install.

The OpenBSI **Network edition** and **BSIConfig** are selected as defaults and are required for ObjectServer.

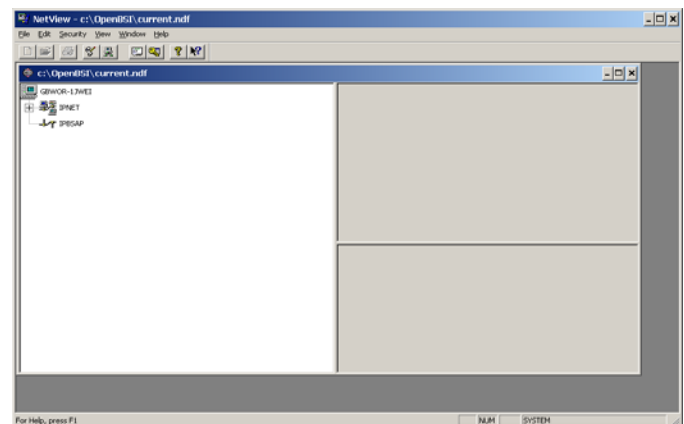


The "Network edition" communications manager requires a separate license. You need not install the OpenBSI components if they already exist.

ObjectServer is available for selection at the bottom of the option list. You must select the components needed and must have a valid license for these functions.

Step 2: Start OpenBSI

Select **Start Programs** → **OpenBSI Tools** → **NetView**



See the OpenBSI documentation (available with the OpenBSI install media) for further information.

Step 3: Check Communications


Once OpenBSI has started, configure the communications and confirm communications. Use the DataView tool to visually verify that RTU data can be seen and data values are being reported.

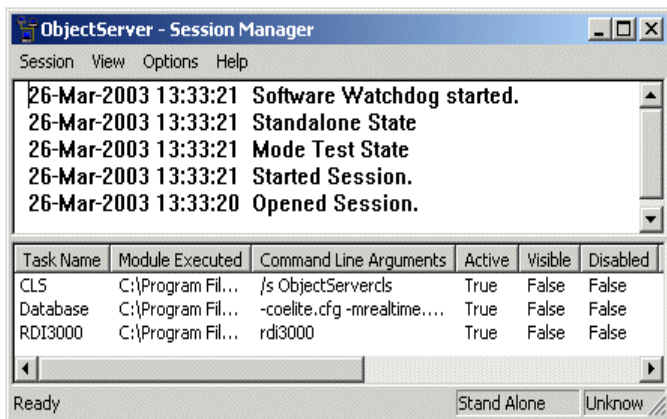
See the OpenBSI documentation (available with the OpenBSI install media) for further information.

Step 4: Start ObjectServer Database

4.1 Start the Session Manager by selecting **Start → Programs → OpenBSI Tools → ObjectServer → ObjectServer Session**

Note: The navigation path shown is the default, and may have been changed to suit particular requirements during installation.

4.2 This icon  displays in the System Tray when the ObjectServer Database is running. Double-click the icon to display the Session Manager window:



Step 5: Import Device and Signal Information from OpenBSI

5.1 Open the Toolbox by selecting **Start → Programs → OpenBSI Tools → ObjectServer → ToolBox**

5.2 Log on as the SYSTEM user (username = "SYSTEM", password = "SYSTEM").

Note: Change this default password as soon as possible after installation for security purposes.

5.2 The NW3000 Setup Tool icon should display in the Toolbox window:



NW3000
Setup

5.3 Double-click this icon to run the NW3000 Setup Tool, which guides you through the last portion of this setup.

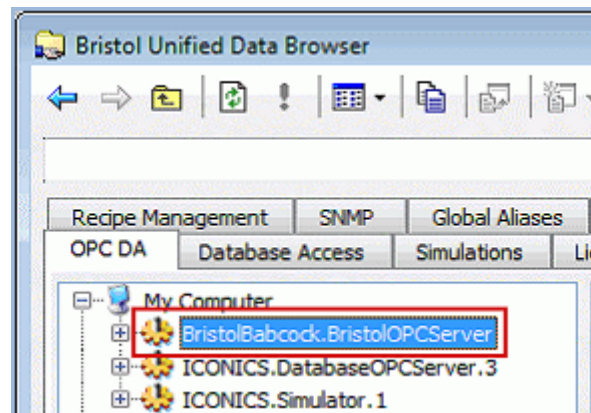
Step 6: View Your Data Using the ObjectServer OPC Server

6.1 If your ObjectServer installation is upgrading an existing HMI that was configured with the OpenBSI OPC Server, continue to Step 7

6.2 You can identify the ObjectServer OPC Data Server by its ProgId:

BristolBabcock.BristolOPCServer

The example below shows the ProgId as you would see it in an OPC tag browser:-



6.3 If you are using an OPC Alarm and Event Client, then the ObjectServer OPC Alarm and Event Server is identified by its ProgId:

BristolBabcock.BristolOPCEventServer

Step 7: Legacy Bristol OpenBSI OPC Server Support

7.1 Activate legacy tag translation by running the **IconicsOPCServerReplace.cmd** file found in the ObjectServer bin folder (the default location is 'C:\Program Files\OpenBSI\ObjectServer\bin').

7.2 You can reverse this action at any time by running the **IconicsOPCServerRestore.cmd** file from the same directory.

7.3 That's it! The ObjectServer OPC Server now takes the place of the OpenBSI OPC Server and registers and displays tags configured with the old OpenBSI OPC Server.

Supporting information

If you have a legacy HMI that displays data from Bristol RTU/Controllers sourced from the OpenBSI OPC Server, ObjectServer supports these systems.

The enhanced ObjectServer product supersedes the OpenBSI OPC Server or Iconics OPC Server. Although it uses a different OPC tag format, it can be configured to recognize and display OPC tags that were configured using the old OpenBSI OPC Server.

All that is required is to activate translation of the Iconics legacy tags by the new ObjectServer OPC Server by running the IconicsOPCServerReplace.cmd file.

The IconicsOPCServerReplace.cmd file modifies settings in the Windows[®] registry that enable the ObjectServer OPC Server to serve tags with the BSI OPC server ProgramId and tag format.

Tag Differences Explained

For your information, following is a short description of the differences between tags formed by the legacy Iconics OpenBSI OPC Server and the new ObjectServer OPC Server tag format. For the legacy system, the tag definition was:

Iconics: [ProgramID][device:signal]_[attribute]

Example: BristolBabcock.OpenBSIOPCServer.1\
NORTH:SINE.VALUE.001_Value

The ObjectServer product is a database-based system with greatly enhanced capabilities over the legacy product but it requires a more explicit data definition within the OPC Tag name. The tag must identify the database, the host table and the signal type and attribute:

ObjectServer: [ProgramID][dataservice].[table].
[device:signal].[attribute]

Example:
BristolBabcock.BristolOPCServer\"rtrdb1".
"nw3000realanalog"."name:char:
NORTH:SINE.VALUE.001"."value:float"

As can be seen from the tag definitions above, the Iconics tag format is signal-type neutral whilst the ObjectServer tag contains an unambiguous signal definition which includes the type (analog, digital, or string) and attribute.

The Iconics [device:signal] is case-insensitive whilst the ObjectServer equivalent is case-sensitive.

The translation facility enables you to seamlessly bind your application to the new ObjectServer without the need to re-engineer or reformat your OPC client application.

Default Settings

1. OPC Server Tag Format Settings
 - a) Allow tags to be registered in Iconics format – On
 - b) Mimic Iconics tag values – Off
 - c) Browse for Iconics tags – Off
2. Active Polling Schedule
 - a) Default ID = 255
 - b) Default period = 1 second

Changing Default Settings

For further help on settings for the ObjectServer OPC Server see the ObjectServer documentation by selecting

Start→ Programs→ OpenBSI Tools→ ObjectServer→ Documentation

1. Select “Application Tuning Suite” for information on changing OPC Server settings
2. Select “NW3000 Advanced Configuration” for information on changing the Active Polling period

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