StruxureWare

Starting a Project

Tutorial Guide

Schneider Electric

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Contents

Introduction

1 About This Guide 9
1.1 Purpose of This Guide 11
1.2 How This Guide is Organized 12
1.3 Typographical Conventions 13

2 Additional Information 15
2.1 Where to Find Additional Information 17
2.2 Regulatory Notices 18

Tutorial

3 Our Case Study 21
3.1 University X 23
3.2 Requirements and Specifications 26
3.2.1 Devices Used for This Case Study 26
3.2.2 Software Used in This Tutorial 26
3.2.3 26
3.3 Focus of This Tutorial 28
3.3.1 Pre-existing Database Folders and Programs 28
3.3.2 Pre-existing Database Objects 28

4 Preparing the Automation Server using Device Administrator 29
4.1 Connecting to an Automation Server Using the USB Device Port . 32
4.2 Setting the Automation Server IP Address 33
4.3 Upgrading Automation Server Firmware 36

5 Preparing the Enterprise Server Database 39
5.1 Preserving the Default Enterprise Server Database 42
5.2 Logging on to WorkStation as a StruxureWare User 44
5.3 Renaming a Server 46

6 Creating and Configuring the Automation Server and I/O Modules 49
6.1 Creating and Configuring a Domain 52

6.2 Creating an Automation Server 54
6.3 Creating Multiple I/O Modules 56
7 Creating the Folder Structure and Synchronizing Servers 59
7.1 Creating a Folder 62
7.2 Synchronizing Time Settings on Multiple Automation Servers 65
7.3 Summary 68

Introduction

The Introduction part contains information on the purpose of this guide, how this guide is organized, where to find more information, and information on regulatory notices.

1 About This Guide

Topics

Purpose of This Guide
How This Guide is Organized
Typographical Conventions

1.1 Purpose of This Guide

This tutorial provides step-by-step instructions for setting the IP address of an Automation Server, updating the Automation Server software, adding the Automation Server to the Enterprise Server database, and creating StruxureWare I/O modules. Additionally, instructions are provided for creating the folder structure in a StruxureWare database and ensuring that all servers are synchronized with regards to date and time.

This tutorial focuses on the following StruxureWare Engineering Certification objectives:

- Configure a StruxureWare Server
- Organize folders and object in the System Tree
- Update Server software
- Create a new StruxureWare BMS using an AS and a field bus (existing protocol such as BACnet, LON, Modbus, Satchwell, Clipsal, etc)

1.2 How This Guide is Organized

This StruxureWare Guide is divided into the following parts:

Introduction

The Introduction part contains information on the purpose of this guide, how this guide is organized, where to find more information, and information on regulatory notices.

Tutorial

The Tutorial part contains a step-by-step description of how to carry out different tasks. If you want more information, see StruxureWare WebHelp or the corresponding StruxureWare Reference Guide.

The Tutorial part includes a case study for a fictional customer called University X. You can decide if you want to follow the example or use the described procedures as reference information. The case study in this tutorial is an example of a typical way of configuring StruxureWare for a customer. When reading through this tutorial, you might not have access to the devices, programs, and other files that are needed for the fictional customer University X. However, the purpose of having a case study is to see the procedures put in context, so you see how the procedures could be used when configuring StruxureWare, devices, or programs for your customer.

1.3 Typographical Conventions

StruxureWare Guides use the following specially marked texts:

Tip

Helps you understand the benefits and capabilities of the product.

Note

Provides you with supplementary information.

Important

Alerts you to supplementary information that is essential to the completion of a task.

Caution

Alerts you to a condition that can cause loss of data.

Warning

Alerts you to a condition that can cause product damage or physical harm.

Bold texts:

User interface items, such as property names and buttons, are written in bold, for example "On the **File** menu, select **New**."

Example texts:

All the example related information is indicated by blue lines and bullets.

2 Additional Information

Topics

Where to Find Additional Information
Regulatory Notices

2.1 Where to Find Additional Information

All the technical StruxureWare information is available online, on StruxureWare WebHelp.

You also find additional information in the StruxureWare Guides:

- StruxureWare Hardware Reference Guide (04-10001)
- StruxureWare Plain English and Script Difference Guide (04-10002)
- StruxureWare WebReports Reference Guide (04-10003)
- StruxureWare WebReports Operating Guide (04-10004)
- StruxureWare System Reference Guide (04-10005)
- StruxureWare Technical Reference Guide (04-10006)
- StruxureWare WorkStation Operating Guide (04-10007)
- StruxureWare IT Reference Guide (04-10008)

2.2 Regulatory Notices

UL 916 Listed products for the Unites States and Canada, Open Class Energy Management Equipment.

WEEE - Directive of the European Union (EU)

This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2002/96/EC, governing the disposal and recycling of electrical and electronic equipment in the European community.

CE

CE - Compliance to European Union (EU)

2004/108/EC Electromagnetic Compatibility Directive

This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s) per the provisions of the following standards:of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s) per the provisions of the following standards: IEC/EN 61326-1 Product Standard, IEC/EN 61010-1 Safety Standard.

Industry Canada

ICES-003

This is a Class B digital device that meets all requirements of the Canadian Interference Causing Equipment Regulations.

C-Tick (Australian Communications Authority (ACA))

AS/NZS 3548

This equipment carries the C-Tick label and complies with EMC and radio communications regulations of the Australian Communications Authority (ACA), governing the Australian and New Zealand (AS/NZS) communities.

FC

Federal Communications Commission

FCC Rules and Regulations CFR 47, Part 15, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

Tutorial

The Tutorial part contains a step-by-step description of how to carry out different tasks. If you want more information, see StruxureWare WebHelp or the corresponding StruxureWare Reference Guide.

The Tutorial part includes a case study for a fictional customer called University X. You can decide if you want to follow the example or use the described procedures as reference information. The case study in this tutorial is an example of a typical way of configuring StruxureWare for a customer. When reading through this tutorial, you might not have access to the devices, programs, and other files that are needed for the fictional customer University X. However, the purpose of having a case study is to see the procedures put in context, so you see how the procedures could be used when configuring StruxureWare, devices, or programs for your customer.

3 Our Case Study

When new knowledge is to be acquired, it is often advantageous to work with a realistic example. For this purpose we use a case study, which is basically the same in all StruxureWare Tutorial Guides.

Topics

University X

Requirements and Specifications

Focus of This Tutorial

3.1 University X

We are going to install StruxureWare as the building management system for University X. The university is a campus of buildings for which heating and cooling are supplied from a Central Plant with an underground distribution system. The case study focuses on the renovation of the Central Plant and the expansion of the School of Business.

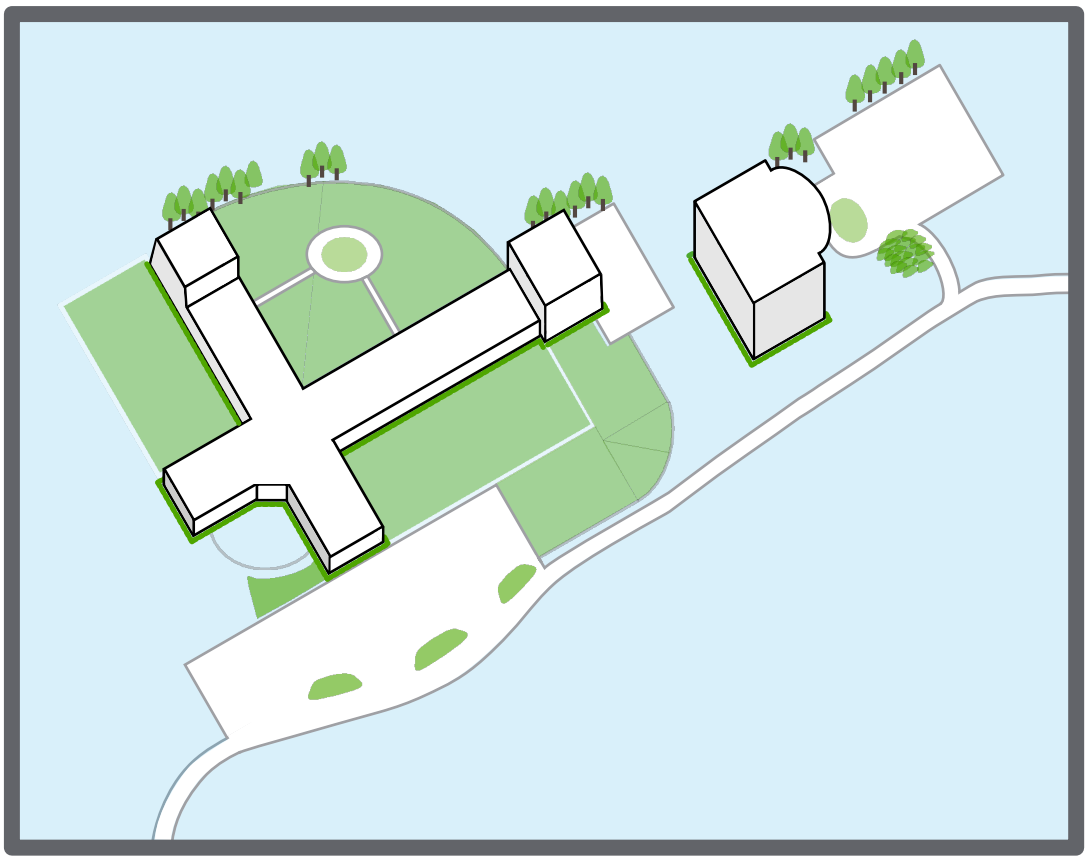


Figure: The School of Business and the Central Plant

The Cooling Plant consists of a single chiller with a primary-secondary pumping system. The secondary water loop serves four VAV air handling units with chilled water coils located in the School of Business. The secondary loop has two water pumps. Only one pump is required for 100 % of the load. The second pump provides 100 % backup. The secondary pumps are variable speed. The primary chilled water loop has a single constant volume chilled water pump. The condenser loop rejects heat by means of a cooling tower. The condenser loop has a single constant volume condenser water pump. The tower has two constant speed, draw-through fans to increase the capacity of the tower above the natural draft capacity. A diverting valve can be used to protect the chiller from condenser water thermal shock. The water leaving the condenser can be diverted back to the inlet of the condenser without any cooling effect.

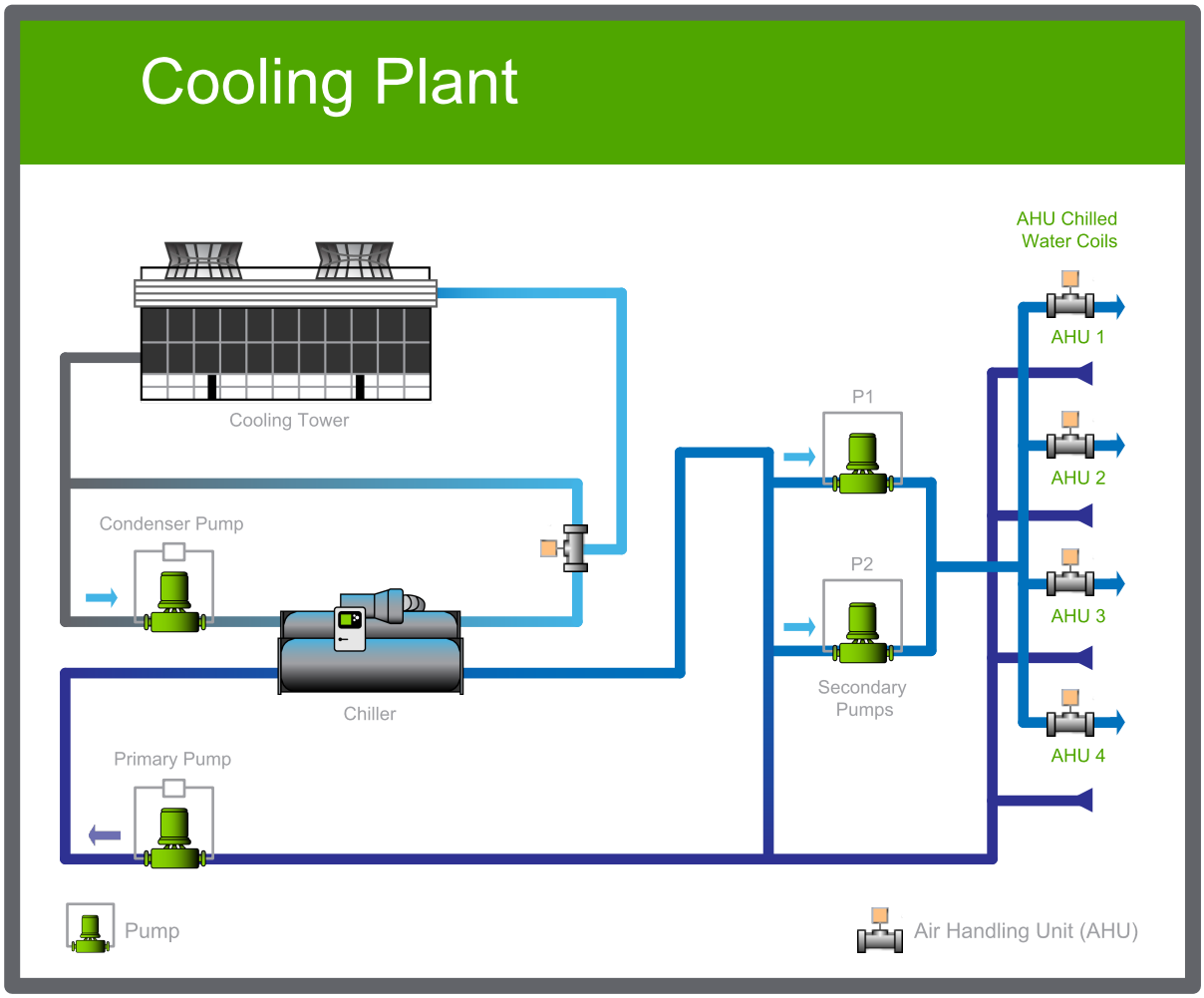


Figure: Cooling Plant diagram

The heating plant consists of two boilers in parallel, each with their own inline pumps. Much of the time only one boiler is required to meet the load but under greater load, both boilers will operate at the same time. The flow from the two boilers comes together in a common supply header. There is a line from the supply header to the mechanical systems that require a source of hot water. This line has two constant volume distribution pumps in parallel. Only one is required to meet the load. The second is back-up and lead-lag is used to alternate which pump runs. The water returning from the mechanical systems flows into the return header where it can be pumped by the inline pumps through the boilers. There is a common line between the supply header and the return header. When the inline pumps are flowing at a rate that exceeds the distribution pump flow rate, the water flow in the common line is from the supply header to the return header. When the distribution pump is flowing at a rate that exceeds the combined inline pump flow rates, flow in the common line is from the return header to the supply header. Each boiler has its own self contained control system that interfaces with StructureWare through a combination of binary electrical co ntrol and network variables. The inline pumps are locally controlled by the self contained control system.

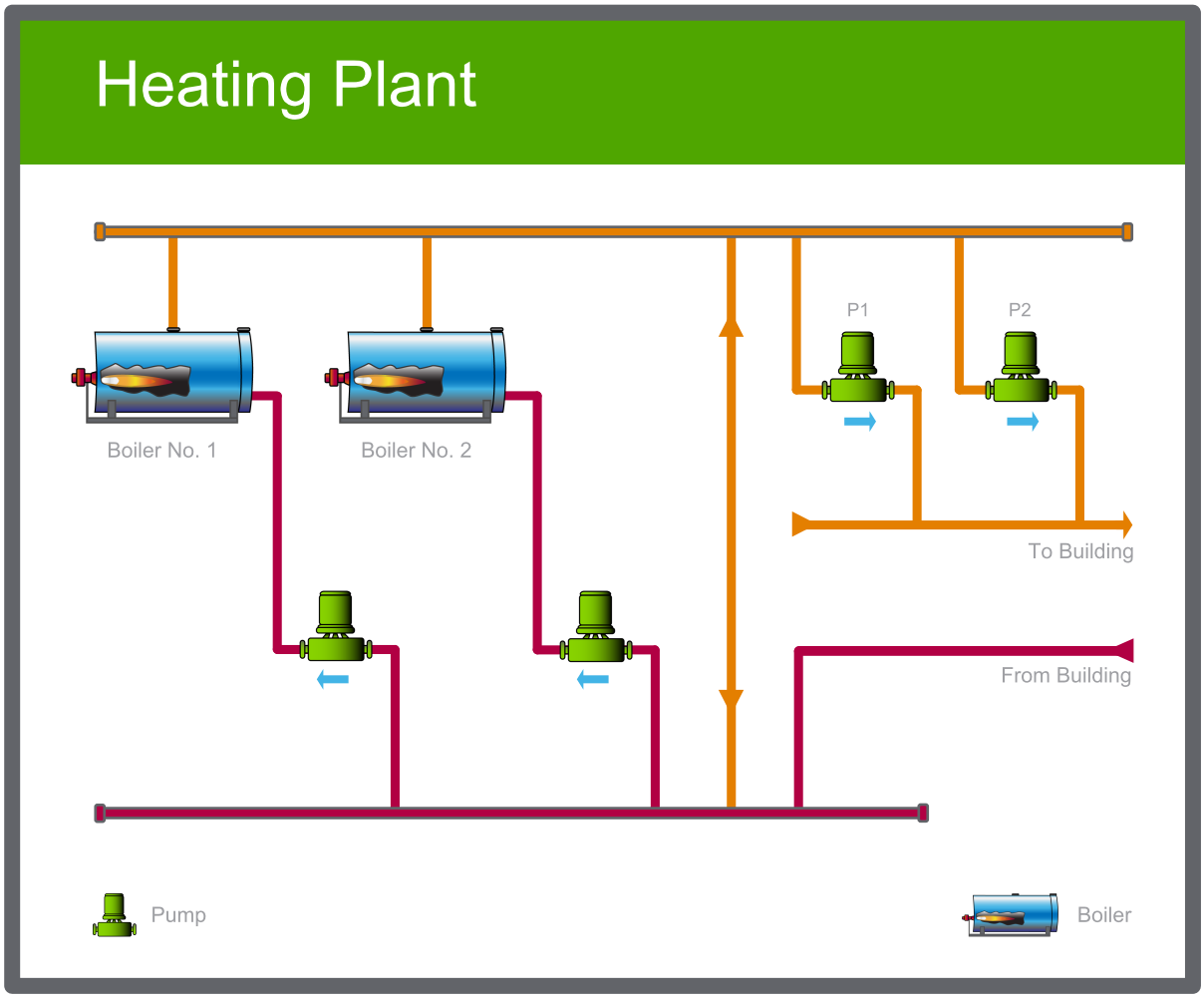


Figure: Heating Plant diagram

3.2 Requirements and Specifications

To be able to configure StruxureWare for University X, the following devices and software are used in this tutorial.

3.2.1 Devices Used for This Case Study

The following devices are used for this case study:

- Power Supply, PS-24V
- StruxureWare Automation Server, AS-B or AS-L
- I/O Modules:
  - 1 x DI-16
  - 1 x DO-FA-12
  - 2 x UI-8/AO-4

3.2.2 Software Used in This Tutorial

The following software is used in this tutorial:

- StruxureWare License Administrator, and a valid license file or a USB service dongle
- StruxureWare Enterprise Server
- StruxureWare WorkStation
- StruxureWare Device Administrator

3.2.3 Specifications

The following software and hardware PC requirements are needed to be able to install the software used in this tutorial:

Software requirements

Operating systems.....Microsoft Windows XP 32-bit SP3
.....Microsoft Windows 7 32-bit
Required additional software.....Microsoft .Net 3.5 SP1

Hardware requirements

Processor .....Minimum: 1.0 GHz
.....Recommended: 2.0 GHz or higher
Memory .....Minimum: 2 GB
.....Recommended: 4 GB or higher
Hard Disk.....Minimum: 20 GB
Display .....Minimum: 1,024x768 pixel resolution

Graphic card

.....Graphic card is recommended.

Drive

.....A DVD Drive is required if your copy of StruxureWare was delivered on disk.

Other Devices

.....A Microsoft mouse or compatible pointing device is required.

3.3 Focus of This Tutorial

The University X project requires one StruxureWare Automation Server, a combination of StruxureWare I/O modules, and an Enterprise Server to control, monitor, and manage the Central Plant and the existing wing of the School of Business building.

In this tutorial, you set the IP address of the Automation Server, upgrade the Automation Server to the same version of StruxureWare as installed on the Enterprise Server and ensure a default copy of the StruxureWare database is preserved. Additionally, you change the name of the Enterprise Server, create a domain and an Automation Sever in the Enterprise Server database, create the StruxureWare I/O modules, and design an organized folder structure for navigating the database. Finally, you ensure that all time settings in each of the servers are set appropriately.

3.3.1 Pre-existing Database Folders and Programs

In this tutorial, you are starting with an empty database. Only the default folders need to be present in the database.

3.3.2 Pre-existing Database Objects

In this tutorial, you are starting with an empty database. Only the default objects need to be present in the database.

4 Preparing the Automation Server using Device Administrator

Topics

Connecting to an Automation Server Using the USB Device Port
Setting the Automation Server IP Address
Upgrading Automation Server Firmware

Our Example

In this chapter, you use Device Administrator to set the Automation Server IP address to establish communication between the University X ES1 Enterprise Server and the CPlant AS Automation Server. Additionally, you upgrade the firmware in the Automation Server. You also ensure that the Automation Server database is new and contains only the default variables and objects.

4.1 Connecting to an Automation Server Using the USB Device Port

You connect to an Automation Server using the USB device port to upgrade or install new firmware and to assign the IP address of the device. For more information, see StruxureWare WebHelp.

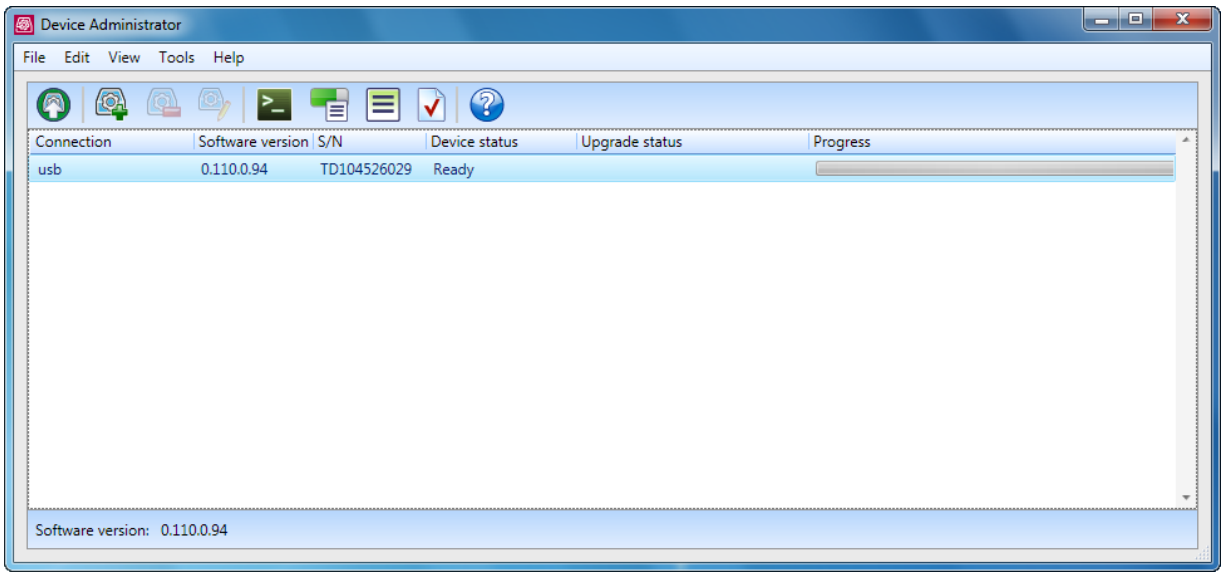
In this example, you connect to the Automation Server that controls the Central Plant and serves as the network interface for the field bus devices.

To connect to an Automation Server using the USB device port

1. Start Device Administrator.
2. Connect a USB 2.0 type A /B Male to Male (maximum length 3 m) cable to the USB device port on the Automation Server and a USB port on the PC.

Important

- If the **Found New Hardware Wizard** dialog box is displayed, follow the instructions to install the Automation Server driver.



3. In the **Connection** column for the Automation Server, ensure that **usb** is displayed.

Now you can upgrade or install new firmware and assign the IP address of the device.

4.2 Setting the Automation Server IP Address

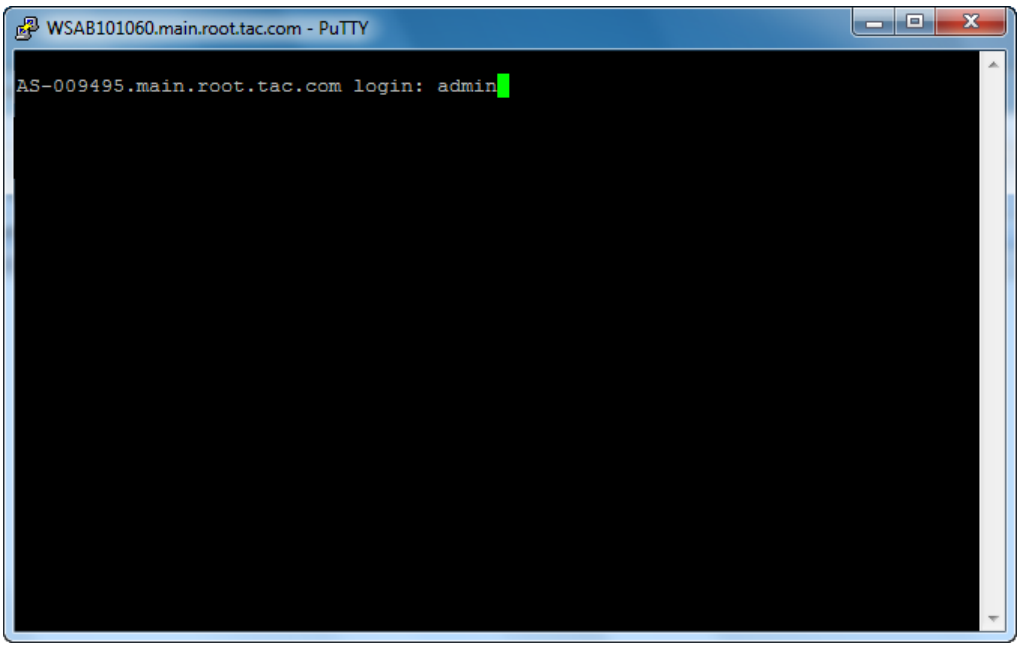
You use Device Administrator to set a static IP address for an Automation Server.

For more information, see StruxureWare WebHelp.

In this example, you set the IP address for the Automation Server that controls the Central Plant and serves as the network interface for the field bus devices.

To set the Automation Server IP address

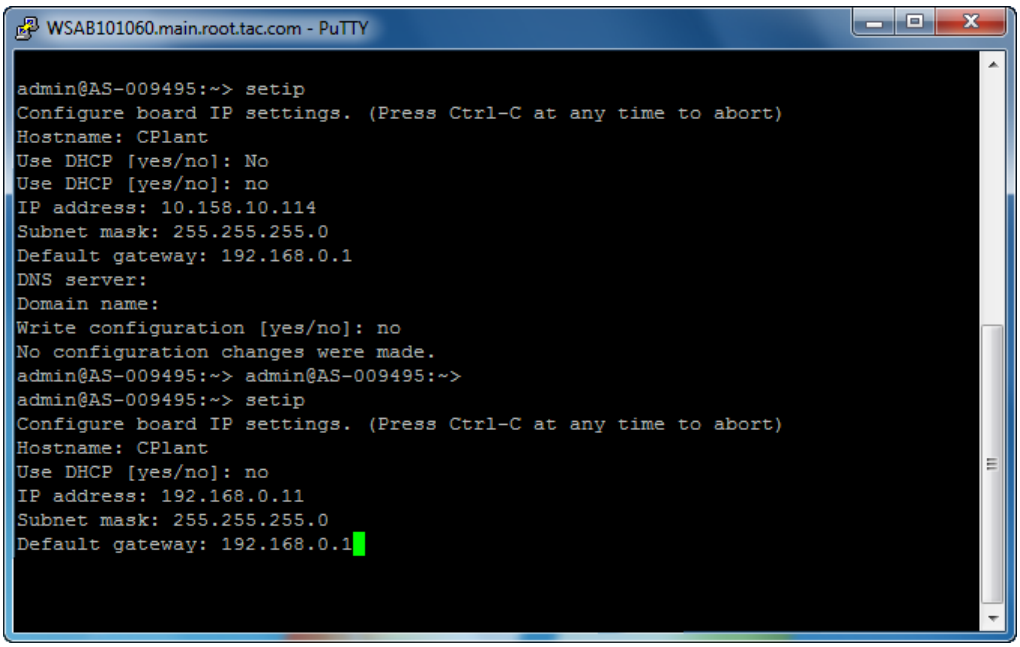
1. Make sure the Automation Server and the PC are connected by the USB ports.
2. In Device Administrator, select the Automation Server you want to set the IP address for.
3. On the **View** menu, click **Console**.
4. If you are prompted to type a login name, type “admin”.



5. Press **Enter**.
6. If you are prompted to type a password, type “admin”.
7. Press **Enter**.
8. Type “setip”.
9. Press **Enter**.
10. If you want to change the host name, delete the current host name and type a new host name. In this example, type “CPlant”.
11. Press **Enter**.

Continued on next page

12. Type “no” to use a static IP address.
13. Press **Enter**.
14. Type the IP address for the Automation Server.
15. Press **Enter**.
16. Type the subnet mask.
17. Press **Enter**.
18. Type the default gateway address.



19. Press **Enter**.
20. Type the DNS server address.
21. Press **Enter**.
22. Type the domain name. In this example, leave the domain name blank.
23. Press **Enter**.
24. Type “yes” to write the configuration.
25. Press **Enter**.
26. After the **Network settings successfully updated** message is displayed, type “exit” to log off.
27. Press **Enter**.

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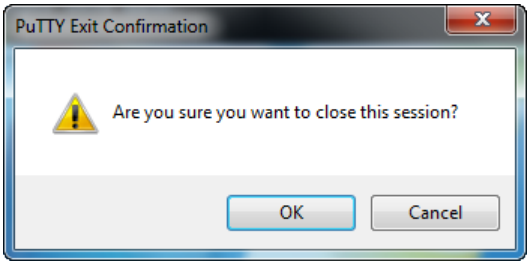
28. Exit the console.



29. Click **OK**.

Note

- The login name and the password used here (default “admin”) can be changed if you log on to an Automation Server using the local domain, instead of the network domain. For more information, see StruxureWare WebHelp.

4.3 Upgrading Automation Server Firmware

You use Device Administrator to upgrade the Automation Server firmware.

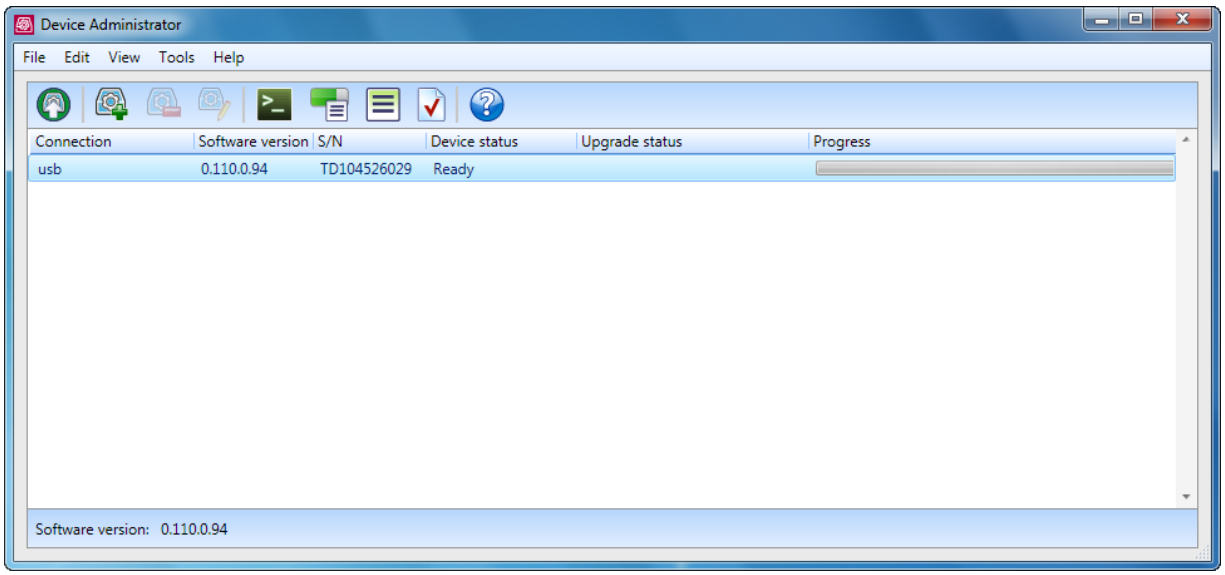
Note

Before you upgrade the firmware, it is recommended that the Automation Server database is backed up in case it needs to be restored. For more information, see StruxureWare WebHelp.

In this example, you upgrade the firmware for the Automation Server that controls the Central Plant and serves as the network interface for the field bus devices.

To upgrade Automation Server firmware

1. Make sure the Automation Server and the PC are connected by the USB device ports or the IP network. In this example, ensure that the Automation Server is connected by the USB device port.
2. In Device Administrator, select the Automation Server(s) that you want to upgrade.

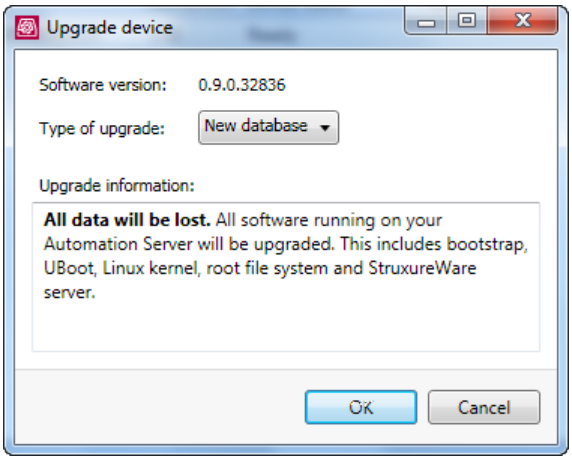


3. On the **Tools** menu, click **Upgrade device**.

Continued on next page

4. In the **Type of upgrade** box, select one of the following options:
   - Select **New database** to upgrade the firmware and delete the database. All data is lost.
   - Select **Upgrade database** to upgrade the firmware and preserve the database.

   In this example, select **New database**.



5. Click **OK**.
6. Monitor the progress of the installation procedure through the **Status** and **Progress** columns, or on the **View** menu, click **Show detailed progress** for more specific information.
7. Verify that the **Upgrade status** column displays "Install finished successfully!".

5 Preparing the Enterprise Server Database

Topics

Preserving the Default Enterprise Server Database
Logging on to WorkStation as a StruxureWare User
Renaming a Server

Our Example

In this chapter, you create a copy of the default Enterprise Server database folder, which is located in MS Windows Explorer. The database folder is created when the Enterprise Server software is installed. This measure is typically recommended when an engineer is involved in multiple StruxureWare projects and requires a default database for each new project.

You log on to the Enterprise Server using the default administrator user credentials.

Finally, you rename the Enterprise Server to University X ES1, as this is the server name the university requires. It is important to change the server name as desired prior to creating any other objects in the Enterprise Server database.

5.1 Preserving the Default Enterprise Server Database

When you install StruxureWare Enterprise Server, a default database folder is created in which all project information, data, and objects are stored. You create a copy of the default Enterprise Server database folder to preserve a default database for future projects.

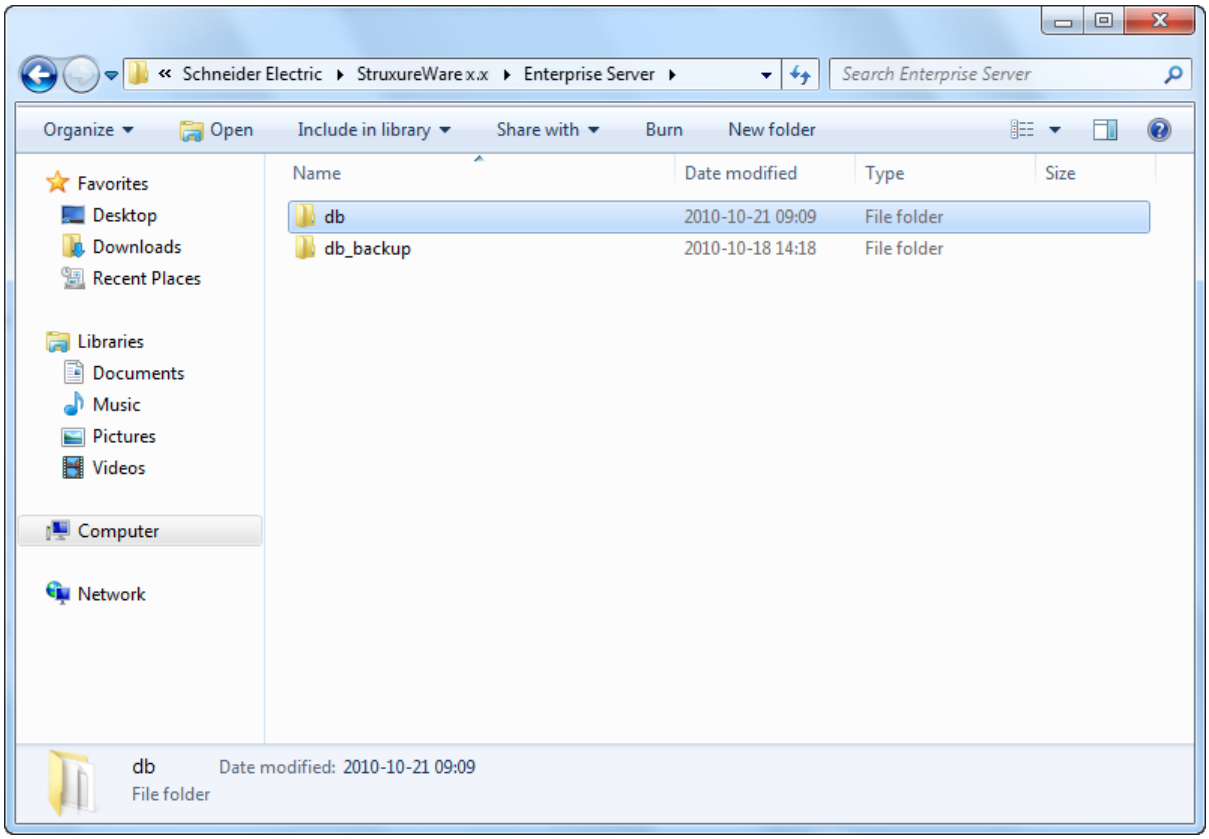
Note

- The Enterprise Server reads and writes information from the **...Program Data\Schneider Electric\StruxureWare x.x\Enterprise Server\db** folder. You cannot change the path to the Enterprise Sever database.

In this example, you create a copy of the default Enterprise Server database folder to preserve a default database for future projects.

To preserve the default Enterprise Server database

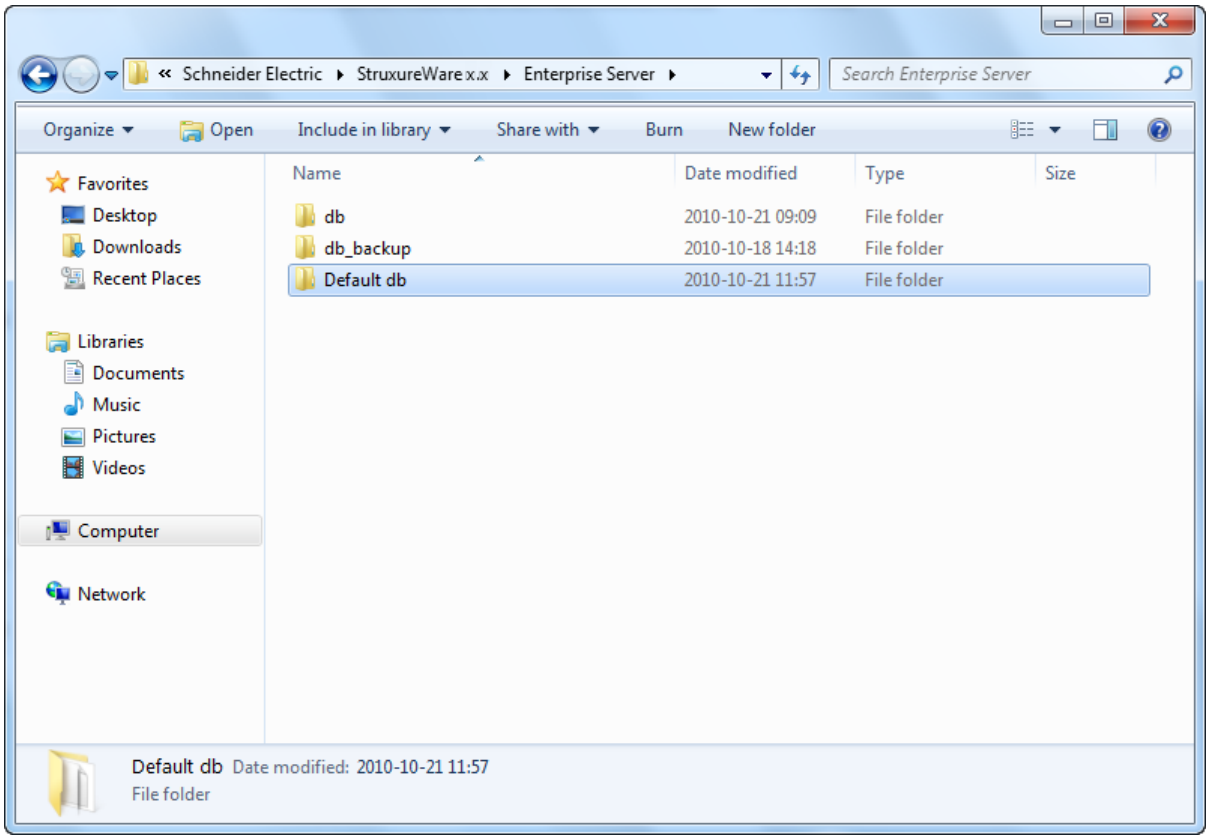
1. In Microsoft Windows Explorer, copy the **...Program Data\Schneider Electric\StruxureWare x.x\Enterprise Server\db** folder.



2. Paste the folder in the **...Program Data\Schneider Electric\StruxureWare x.x\Enterprise Server** folder.

Continued on next page

3. Rename the copied folder. In this example, rename it to **Default db**.



4. Close the Explorer window.

5.2 Logging on to WorkStation as a StruxureWare User

You log on to WorkStation to access the StruxureWare database.

Important

Ensure that you have a working and available WorkStation license. A working license is required to log on to WorkStation. For more information, see StruxureWare WebHelp.

For more information, see StruxureWare WebHelp.

In this example, you log on to WorkStation using the default administrator account.

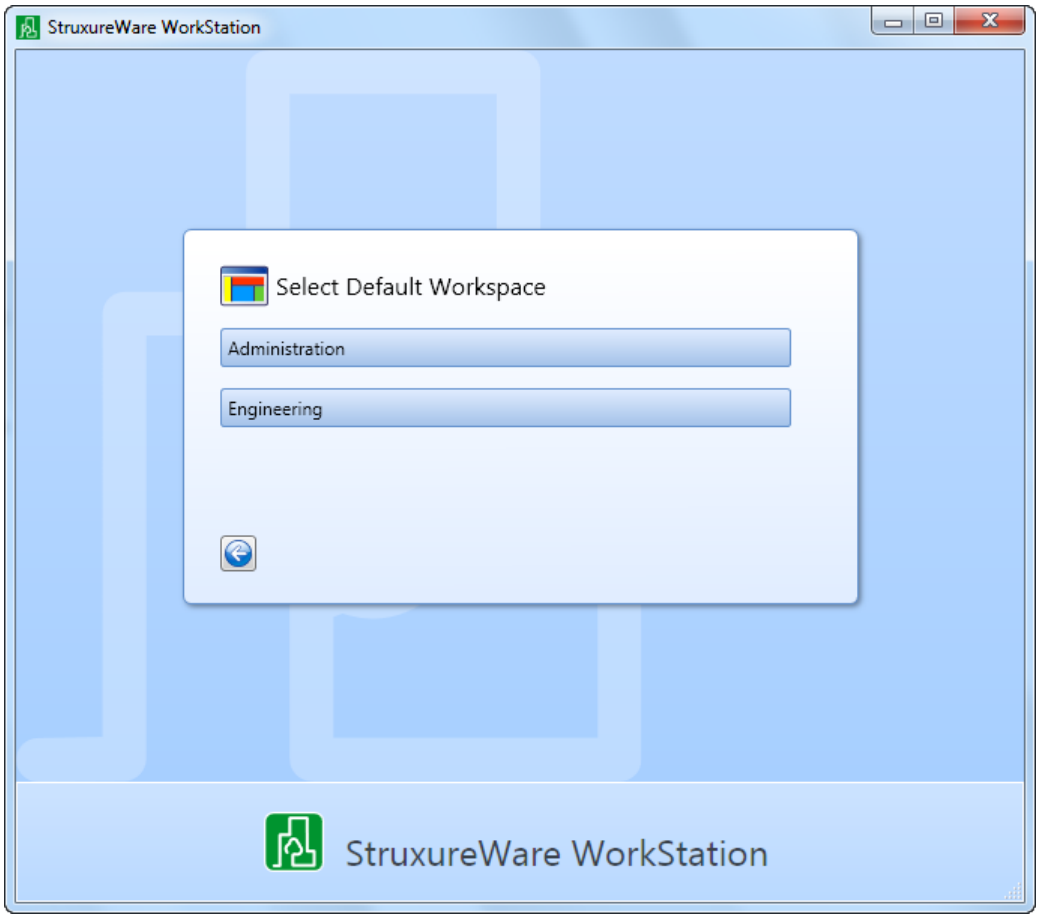
To log on to WorkStation as a StruxureWare user

1. In WorkStation, in the **Welcome to StruxureWare** window, click **StruxureWare user**.
2. In the **User name** box, type your user name. In this example, type “admin.”

3. In the **Password** box, type your password. In this example, type “admin.”

Continued on next page

4. In the **Server** box, enter a server name or IP address. In this example, enter **localhost:80**.
5. Select **Remember me** to have WorkStation remember your settings.
6. Click **Log on**.
7. If the **Select Default Workspace** window is displayed, click the workspace you want to have as the default. In this example, click **Engineering**.



5.3 Renaming a Server

You use this procedure to rename an Enterprise Server or a standalone Automation Server.

Note

When changing the name of a folder or server, you also have to reconfigure users and user groups path permissions to this server or folder. For more information, see StruxureWare WebHelp.

Important

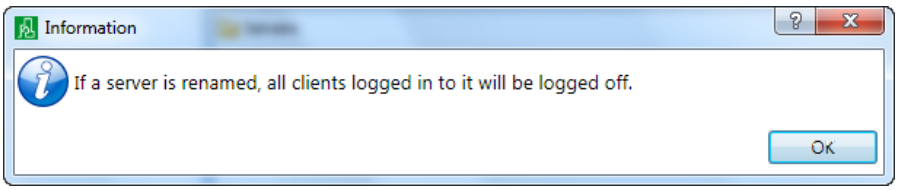
You can rename a server only if it is the only server in the system.

For more information, see StruxureWare WebHelp.

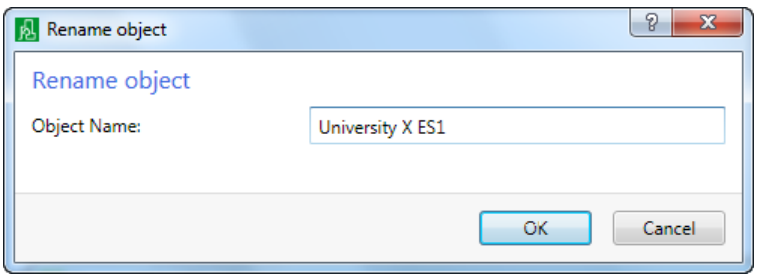
In this example, you change the name of the Enterprise Server to "University X ES1".

To rename a server

1. In WorkStation, in the **System Tree** pane, select the server that you want to rename. In this example, select **Server 1**.
2. On the **Edit** menu, click **Rename**.
3. Click **OK**.



4. In the **Object Name** box, type a new name for the server. In this example, type "University X ES1."



5. Click **OK**.

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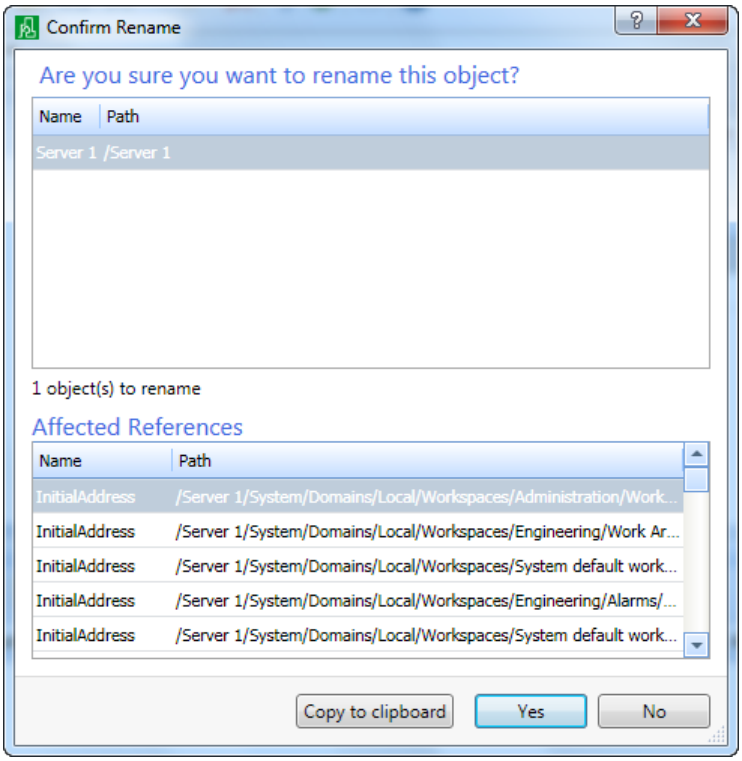
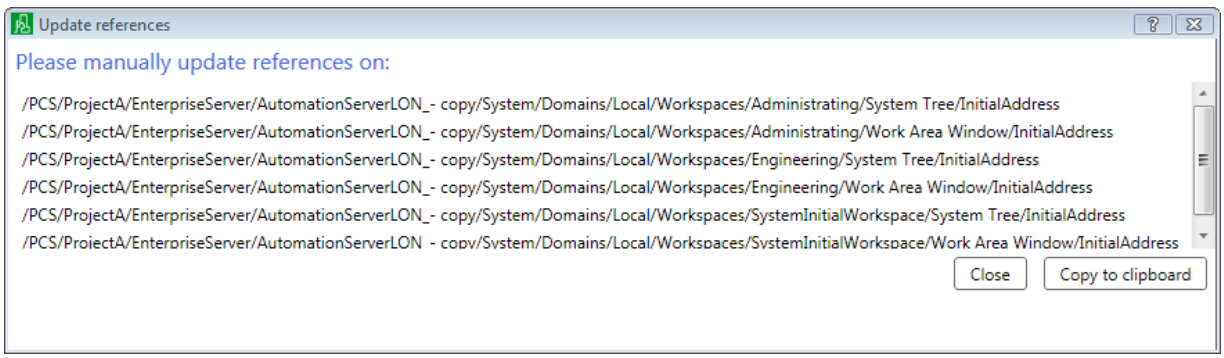
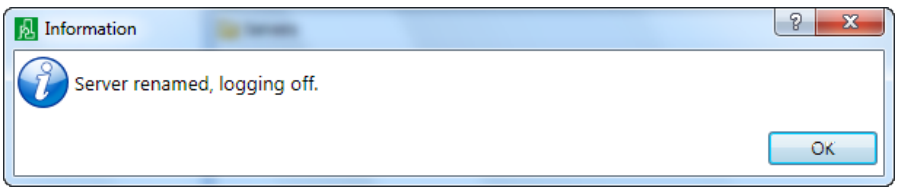
6. Click **Yes**.



7. If an **Update references** message box is displayed, click **Copy to clipboard** to save the list of broken references to deal with later.



8. Click **Close**.
9. Click **OK**.



10. Log on to WorkStation and update references, if any have been broken.

6 Creating and Configuring the Automation Server and I/O Modules

Topics

Creating and Configuring a Domain
Creating an Automation Server
Creating Multiple I/O Modules

Our Example

In this chapter, you create the Automation Server being used to control the university's Central Plant. You create the Automation Server in the Enterprise Server database. Additionally, you create the StruxureWare domain that the Automation Server and Enterprise Server share. The Automation Server is online during these procedures.

You also create the StruxureWare I/O modules that are used for input and output points to the Central Plant. In this example, you use the Spreadsheet view to create all I/O modules in one action. The I/O modules can be created offline or online. They are created online in this example.

6.1 Creating and Configuring a Domain

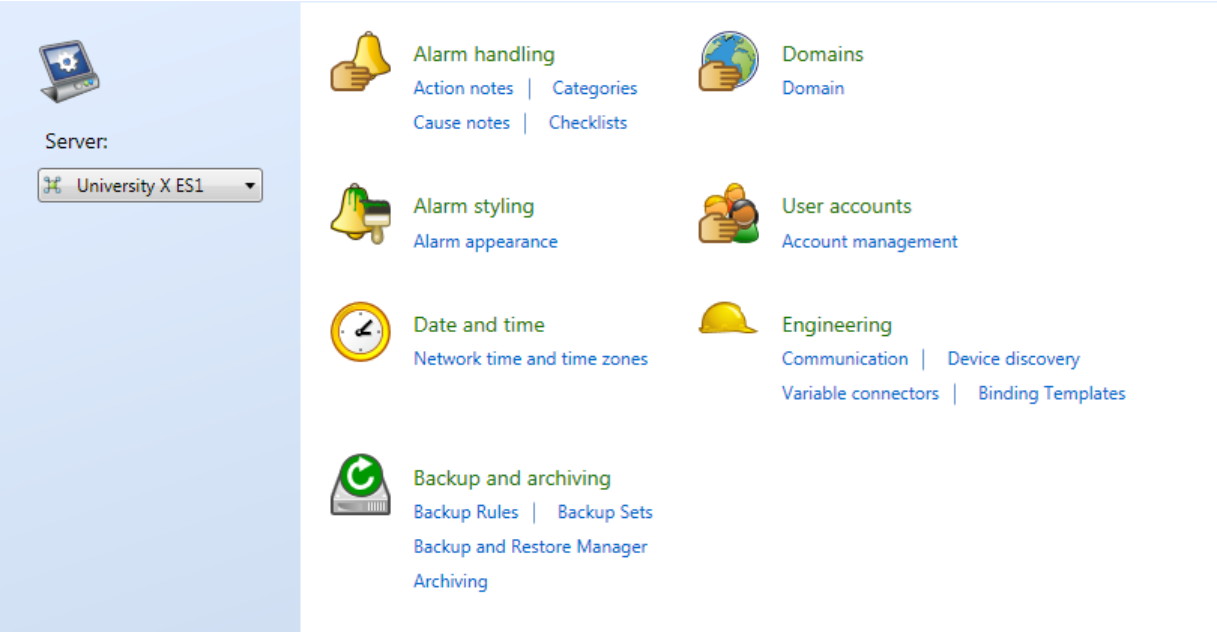
You create a StruxureWare domain to group servers, users, and user groups in one domain so that all users and user groups of the domain have access to all servers within the domain. You can connect the StruxureWare domain to a Windows Active Directory domain to make user accounts from the Windows Active Directory accessible to StruxureWare, and to allow users to log on to WorkStation with their Windows user account.

For more information, see StruxureWare WebHelp.

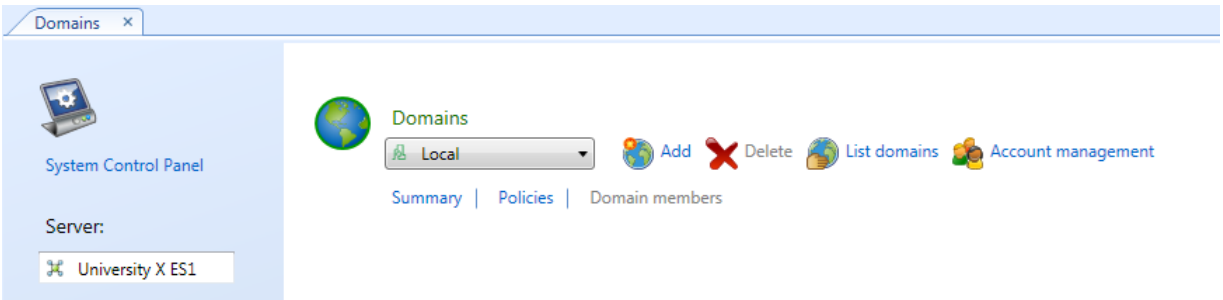
In this example, you create a domain named “University X Domain” for University X ES1.

To create and configure a domain

1. In WorkStation, on the **Tools** menu, click **Control Panel**.
2. In the **Server** box, select a server for which you want to create a domain. X In this example, select **University X ES1**.



3. Click **Domain**.
4. Click **Add**.



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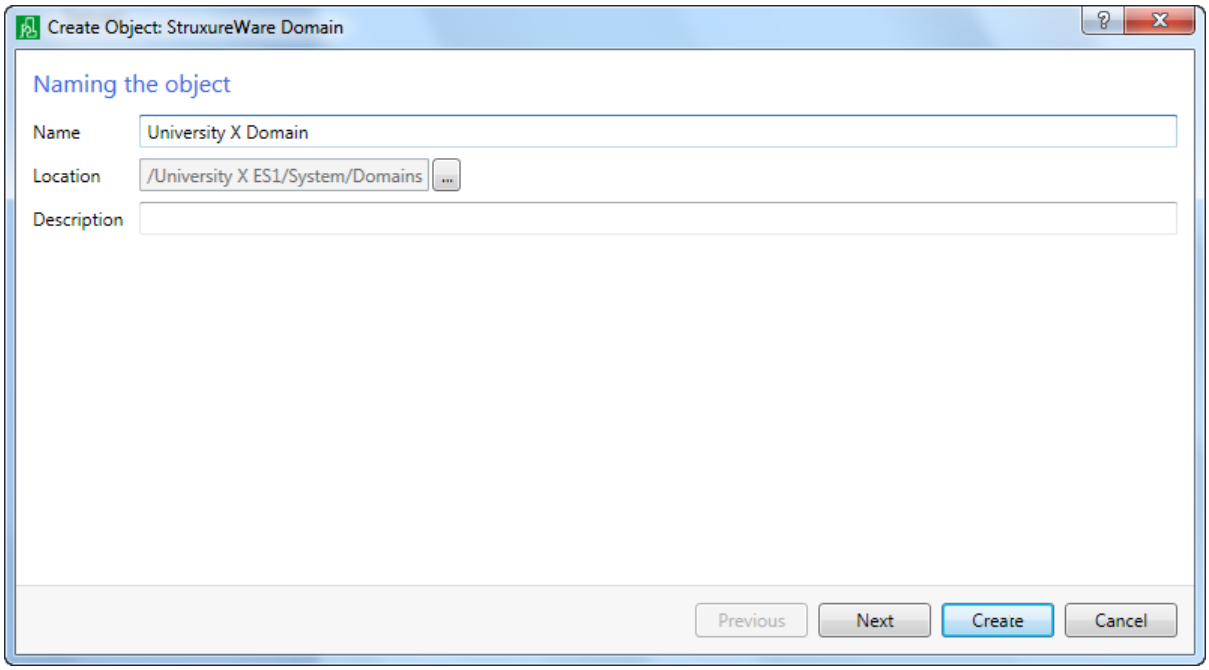
5. In the **Name** box, type a name for the domain. In this example, type "University X Domain."



6. Click **Next**.
7. Click **Next**.
8. Click **Create**.

6.2 Creating an Automation Server

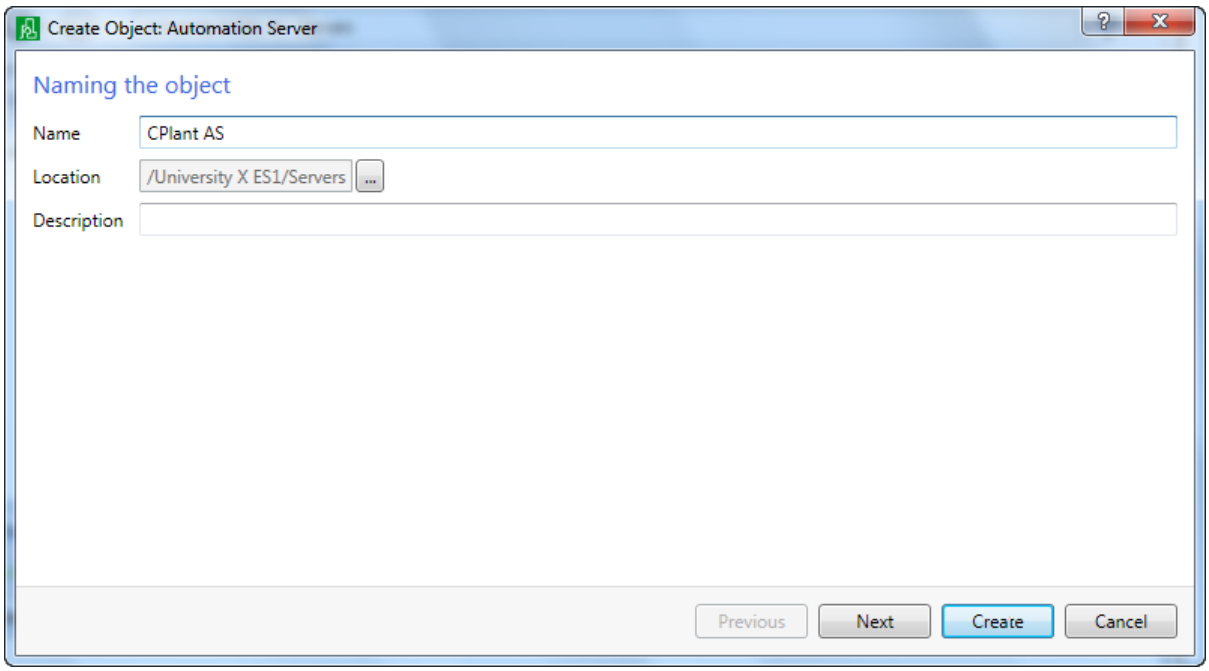
You use this procedure to add Automation Servers to the system.

For more information, see StruxureWare WebHelp.

In this example, you create a Central Plant Automation Server named “CPlant AS” and connect the server to the domain named “University X Domain.”

To create an Automation Server

1. In WorkStation, in the **System Tree** pane, select the **Servers** folder.
2. On the **File** menu, point to **New** and then click **Server**.
3. In the **Name** box, type a name for the server. In this example, type “CPlant AS.”



4. In the **Description** box, type descriptive information about the server. In this example, type “Automation Server controlling Central Plant and serving as the network interface for the field bus devices.”
5. Click **Next**.
6. In the **Host** box, type the host name or IP address of the Automation Server.

Important

- If the Automation Server has been assigned a dynamic IP address, use the host name of the server instead of the IP address (which sooner or later will become obsolete).

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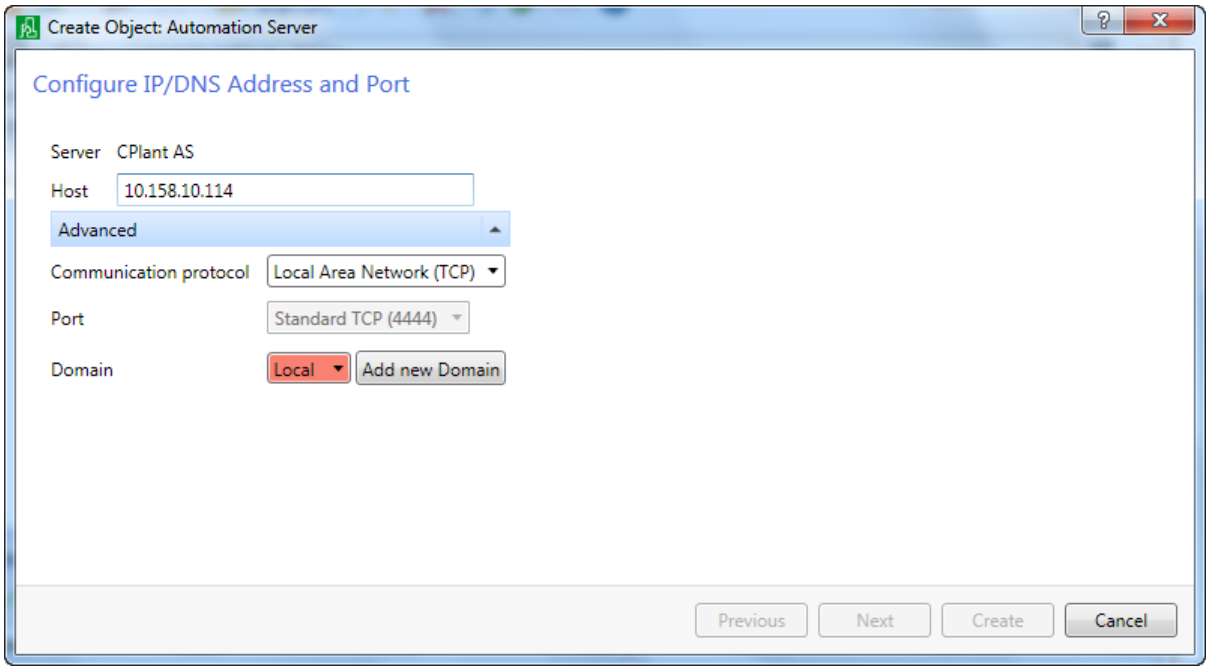
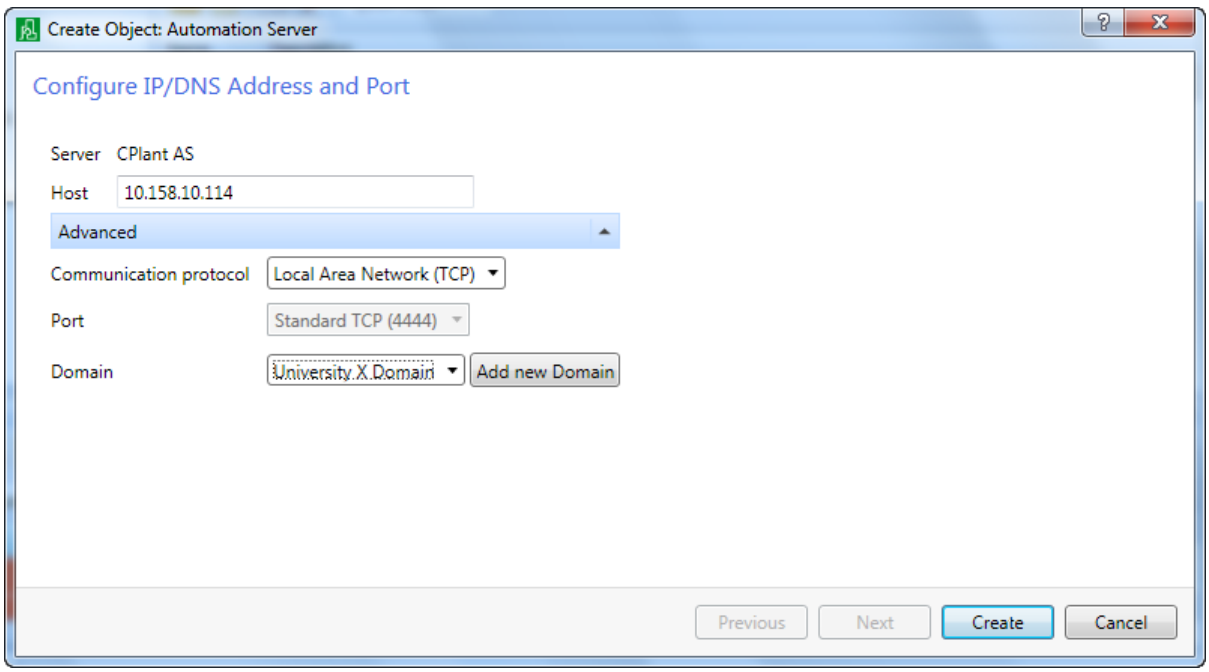
7. In the **Communication protocol** box, select a protocol for the server. For more information, see StruxureWare WebHelp. In this example, select **Local Area Network (TCP)**.



8. In the **Domain** box, select a domain if the TCP protocol is selected. In this example, select **University X Domain**.



9. Click **Create**.

6.3 Creating Multiple I/O Modules

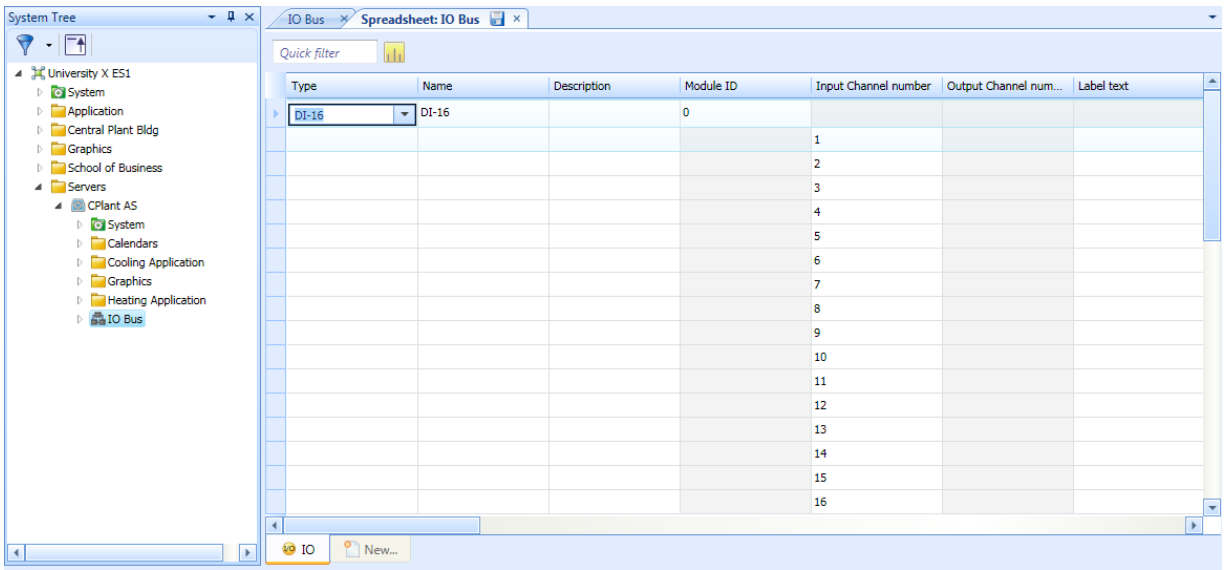
Using the **Spreadsheet** view, you can quickly create multiple I/O modules, which you otherwise would create one at a time in the wizard.

For more information, see StruxureWare WebHelp.

In this example, you create I/O modules for the Central Plant Automation Server in University X.

To create multiple I/O modules

1. In WorkStation, in the **System Tree** pane, select the I/O bus where you want to create the I/O modules. In this example, select **...University X ES1/Servers/CPlant AS/IO Bus**.
2. On the **Actions** menu, click **Edit in spreadsheet**.
3. In the **Spreadsheet** view, select the first row.
4. In the **Type** column, select object type. In this example, select **DI-16**.



5. Enter the rest of the properties, as you would do in the corresponding wizard. In this example, enter **Name**: **Position03:DI16** and **Module ID**: **3**.
6. Create additional I/O modules using Steps 4-5. In this example, create the I/O modules specified in the tables below.

Tip

- You can also copy and paste cells, rows, and entire blocks.

7. On the **File** menu, click **Save**.

A progress indicator displays the saving of your I/O modules. If a problem occurs, the save is cancelled and an error message is displayed.

In this example, repeat the procedure to create the following I/O modules:

Table: DO-FA-12 Module

Component	Setting
Type	DO-FA-12
Name	Position04:DOFA12
Module ID	4

Table: UI-8/AO-4 Module

Component	Setting
Type	UI-8.AO-4
Name	Position05:UI8AO4
Module ID	5

Table: UI-8/AO-4 Module

Component	Setting
Type	UI-8.AO-4
Name	Position06:UI8AO4
Module ID	6

7 Creating the Folder Structure and Synchronizing Servers

Topics

Creating a Folder
Synchronizing Time Settings on Multiple Automation Servers
Summary

Our Example

In this chapter, you create the folder structure that University X requires for organizing the StruxureWare database objects in the WorkStation System Tree. You create folders for both the Automation Server and the Enterprise Server. Following best practices, this folder structure is used as a standard structure for all StruxureWare Servers implemented in the University X Project.

You also set the Enterprise Server and Automation Server time zone settings to the University X time zone settings. Since both the Enterprise Server and Automation Server are in the same time zone, these settings will be the same in both servers.

7.1 Creating a Folder

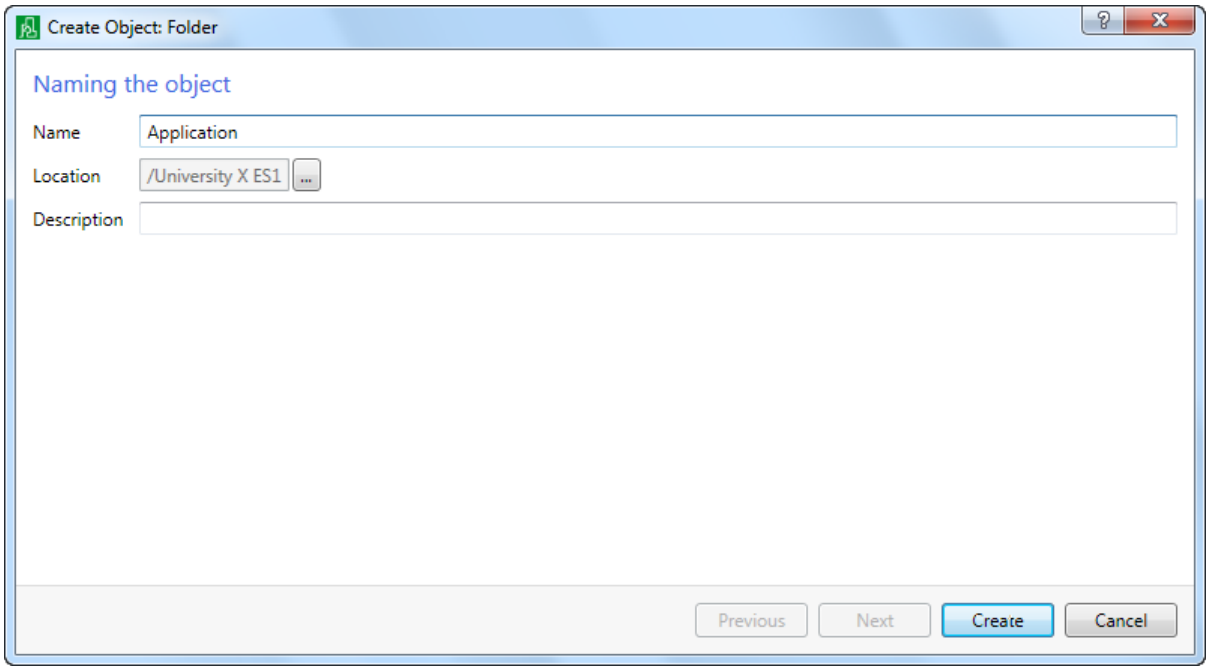
You create folders to organize your StruxureWare database. A folder that is populated with a Xenta device becomes a Xenta group.

For more information, see StruxureWare WebHelp.

In this example, you create folders for University X ES1 and CPlant AS in the WorkStation System Tree.

To create a folder

1. In WorkStation, in the **System Tree** pane, select the folder, server, or network where you want to create the folder. In this example, select **...University X ES1**.
2. On the **File** menu, point to **New** and then click **Folder**.
3. In the **Name** box, type a name of the folder. In this example, type "Application."



4. Click **Create**.

For this example, repeat the procedure to create the following folder structure in the servers:

Table: University X ES1 Folders

Name	Location
Calendars	...University X ES1/Application
Extended Trend Logs	...University X ES1/Application
Notifications	...University X ES1/Application

Continued

Name	Location
Panels	...University X ES1/Application
Central Plant Bldg	...University X ES1
Cooling Plant	...University X ES1/Central Plant Bldg
Heating Plant	...University X ES1/Central Plant Bldg
Graphics	...University X ES1
School of Business	...University X ES1
Existing Wing	...University X ES1/School of Business
Floor 1	...University X ES1/School of Business/Existing Wing
Floor 2	...University X ES1/School of Business/Existing Wing
New Wing	...University X ES1/School of Business
Floor 1	...University X ES1/School of Business/New Wing
Floor 2	...University X ES1/School of Business/New Wing

Table: CPlant AS Folders

Name	Location
Calendars	...University X ES1/Servers/CPlant AS
Cooling Application	...University X ES1/Servers/CPlant AS
Alarms	...University X ES1/Servers/CPlant AS/Cooling Application
Internal Variables	...University X ES1/Servers/CPlant AS/Cooling Application
Programs	...University X ES1/Servers/CPlant AS/Cooling Application
Schedules	...University X ES1/Servers/CPlant AS/Cooling Application
Trend Logs	...University X ES1/Servers/CPlant AS/Cooling Application
Graphics	...University X ES1/Servers/CPlant AS
Heating Application	...University X ES1/Servers/CPlant AS

Continued

Name	Location
Alarms	...University X ES1/Servers/CPlant AS/Heating Application
Internal Variables	...University X ES1/Servers/CPlant AS/Heating Application
Programs	...University X ES1/Servers/CPlant AS/Heating Application
Schedules	...University X ES1/Servers/CPlant AS/Heating Application
Trend Logs	...University X ES1/Servers/CPlant AS/Heating Application
Simulation	...University X ES1/Servers/CPlant AS

7.2 Synchronizing Time Settings on Multiple Automation Servers

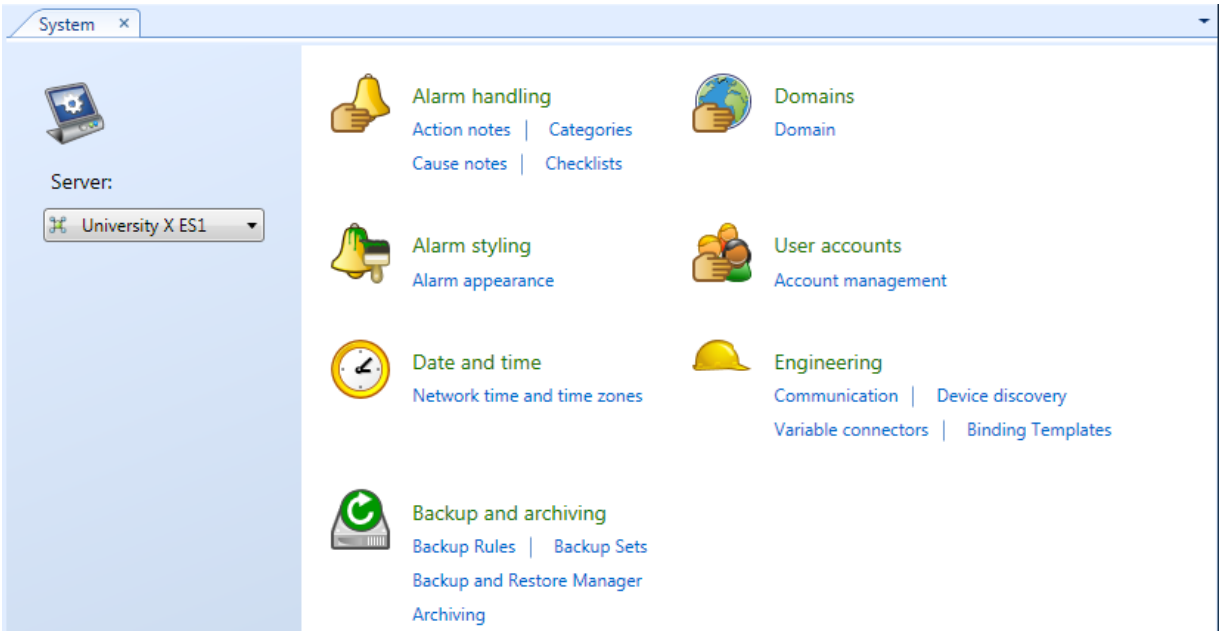
You define the primary and secondary network time server settings for connected shadow Automation Servers on the Enterprise Server.

For more information, see StruxureWare WebHelp.

In this example, you synchronize the CPlant AS time settings with the University X ES1 time settings.

To synchronize time settings on multiple Automation Servers

1. In WorkStation, on the **Tools** menu, click **Control Panel**.
2. In the **Server** box, select the Enterprise Server that you want to synchronize the Automation Server time settings with. In this example, select **University X ES1**.



3. Click **Network time and time zones**.

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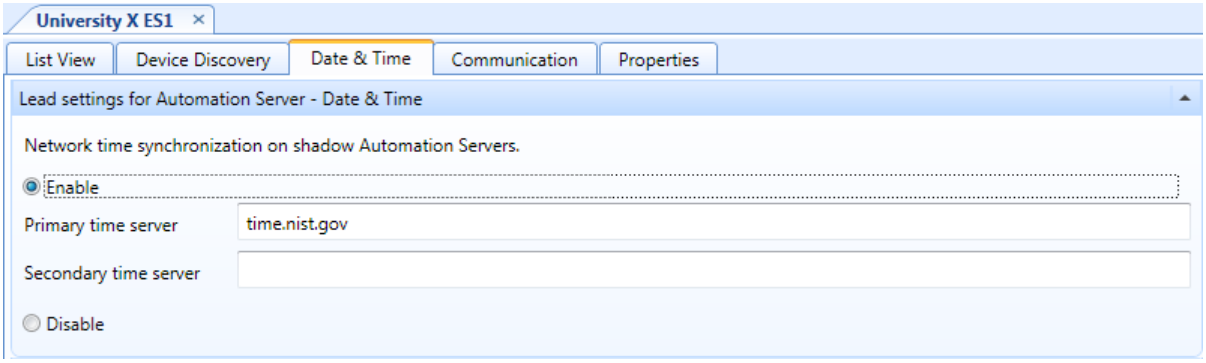
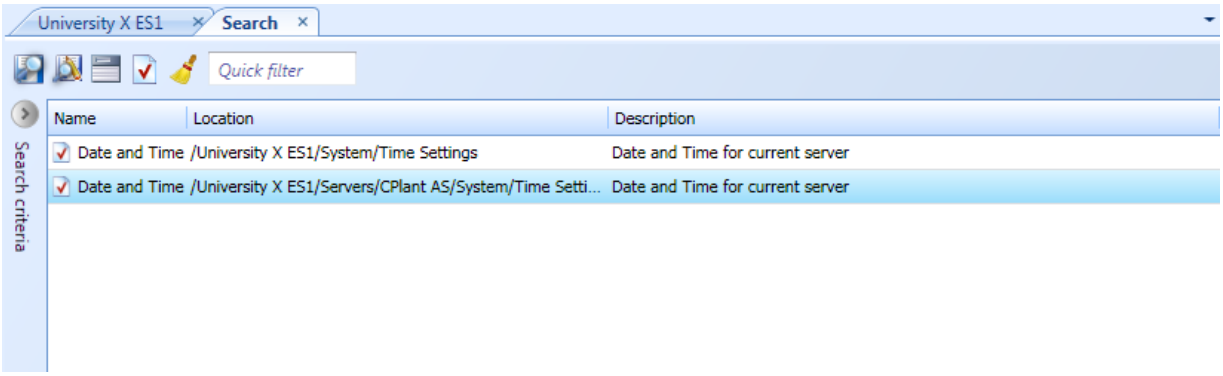
4. In the Enterprise Server **Date & Time** view, under **Network time synchronization on shadow Automation Servers**, click **Enable**.



5. In the **Primary time server** box, type the address to the time server that you want to synchronize the shadow Automation Servers clocks with. In this example, type the address of your local time server.
6. On the **File** menu, click **Save**.
7. In the Search box, type “Date and Time” to search for the date and time object on all connected servers in your StruxureWare system.
8. Click the **Search** button .
9. In the **Search** view, select the servers with the time and date you want to synchronize with the Enterprise Server time server settings. In this example, select **CPlant AS**.



10. Click the **Show/Hide Property Grid** button .

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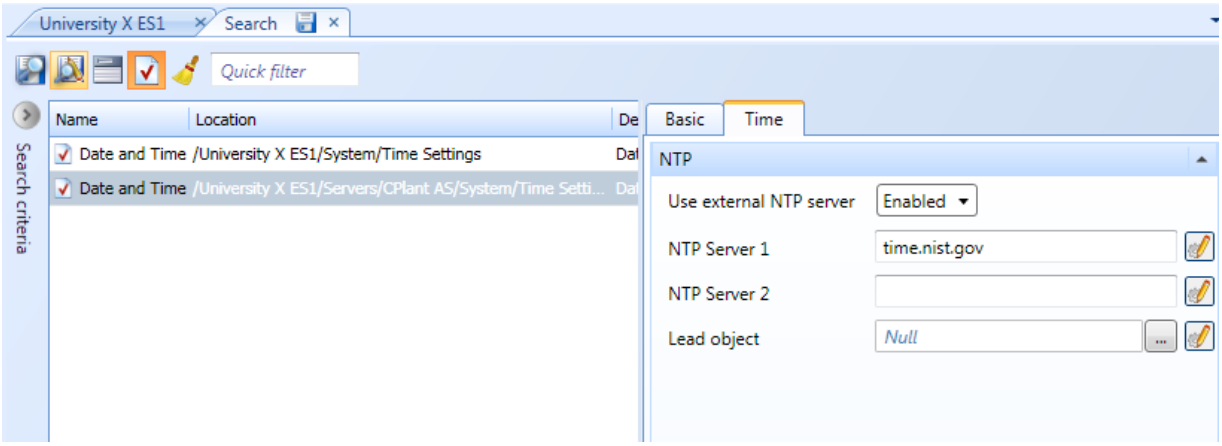
11. Click the **Time** tab.



12. In the **Lead object** box, enter **[Enterprise Server Name]/System/Time Settings/Date and Time**. In this example, enter **University X ES1/System/Time Settings/Date and Time**.

13. On the **File** menu, click **Save**.

7.3 Summary

You have now configured the Automation Server IP address and updated the software in the Automation Server to be the same as the StruxureWare Enterprise Server and editor software.

Additionally, you have ensured that the default Enterprise Server database has been preserved to enable you to work on multiple StruxureWare projects, if necessary.

You have also created a StruxureWare network with one Enterprise Server and one Automation Server. Four I/O modules have also been added to the network.

You now have an organized and standardized folder structure in both the Enterprise Server and the Automation Server.

Finally, both the Automation Server and the Enterprise Server time zone and time settings have been synchronized.

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