

Honeywell

**Experion HS
Software Installation User's Guide**

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Honeywell

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About This Document

This Software Installation User's Guide describes how to install Experion HS (HS), and how to prepare the server and client computers to install Experion HS.

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References

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Experion HS Software Change Notice
Experion Supplementary Installation Tasks Guide
Experion HS Server and Client Configuration Guide
Experion HS Migration User's Guide

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Symbol Definitions

The following table lists the symbols used in this document to denote certain conditions.

Symbol	Definition
	ATTENTION: Identifies information that requires special consideration.
	TIP: Identifies advice or hints for the user, often in terms of performing a task.
	REFERENCE – INTERNAL: Identifies an additional source of information within the bookset.
	WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in serious injury or death. WARNING symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.

Symbol Definitions

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1. Before you begin

The Experion HS Software Installation User's Guide provides information that assists you in planning and installing Experion HS.

The person installing the Experion software must have an understanding of the Experion System software, Microsoft Windows Operating Systems (OS), folder, and file structures. Experience in installing software programs using standard installation dialog boxes is also recommended.

1.1 Download the latest software and documentation

You can download the latest Experion software and documents from the Honeywell Process Solutions website.

Step	Action
1	Go to: www.honeywellprocess.com
2	Click the Explore tab. The Explore Honeywell Process Solutions page appears.
3	Under Products , click Control, Monitoring and Safety Systems . The Control, Monitoring and Safety Systems page appears.
4	Click Modular Control Systems . The Modular Control Systems page appears.
5	Click Experion HS . The Experion HS page appears.
<hr/>	
<div> TIP You can also use the following link to go to the Experion HS page: https://www.honeywellprocess.com/en-US/explore/products/control-monitoring-and-safety-systems/modular-control-systems/Pages/experion-hs.aspx</div>	
6	In the Search box (at the upper-right corner of the page), type the name of software or documents you want to search for, and then click the search icon.

1. Before you begin

1.2. Read the Software Change Notice

Step	Action
7	Click Search and then download the software and documents, as necessary.

1.2 Read the Software Change Notice

The Experion HS *Software Change Notice* (SCN) document provides a brief overview of functions and features of Experion HS R410. Additionally, it includes the special considerations for this release that could affect the software installation tasks.

The SCN also details the procedure to convert a non-redundant server to redundant server, under the section *Support for non-redundant to redundant server conversion*.

Read this document completely before starting the software installation.

1.3 About Experion HS R410 migration documents

Refer to the Experion HS R410 *Migration User's Guide* for complete information on the planning and execution of the migration of Experion HS R310, R311, and R400 systems, to Experion HS R410.

1.4 About Experion HS R410 reference documents

For the complete set of Experion HS R410 documents, refer to the Experion HS R410 *PDF Collection media*.

2. Planning the Experion HS installation

2.1 Overview

Background

You can install Experion on systems that are in a workgroup or domain.

The following are the product types supported by Experion.

- Experion Server
- Experion Flex Station

Methods of installation

Experion supports the following two installation methods.

- Installation using Experion installation media
- Installation using Experion Software Installation Server (ESIS)

Using the Experion installation media

In this method, you can install Experion using the Experion HS Application DVD. For instructions on installing using the installation media, refer to the section [Install Experion server using installation media](#).

Using Experion Software Installation Server (ESIS)

The ESIS is a file server/file share. Specifically, it is any accessible Windows networking-based node or removable media. It is capable of hosting a share with account security that has available disk space to host the Experion installation media.

You can set up an ESIS to host the Experion software. To install system software on Experion system nodes, you can access ESIS over the network or a removable drive. If you are using ESIS, you need not use the software DVDs to install Experion.

ESIS is a single repository of all the latest Experion DVDs. New DVDs released by Honeywell are updated to ESIS. If ESIS is hosted on a computer that is accessible on the network or a removable drive connected to a computer, which is accessible on the network, then multiple nodes can be installed at the same time. If ESIS is hosted on a removable drive and is connected to a computer where installation needs to be performed, then only one node can be installed at a time.

2.2 Hardware and software requirements

Computer hardware specifications

For information on computer hardware specifications, refer to *Technical Specifications data* at Honeywell Process Solutions website.



ATTENTION

The computer hardware must be certified for the supported Operating System.

Free disk space

Before installing Experion HS, ensure that you have minimum free hard disk space of 20 GB for process server and 10 GB for process client on the C: drive of the node.

Disk storage requirements

The required disk storage depends on the history and event archiving requirements. To calculate storage requirements, refer to the *Experion Server and Client Planning Guide*.

Backup facilities

It is essential that you provide backup facilities for the server to protect against a hard disk failure or other problems. For more information about backup and restore, refer to the Experion HS R410 *Backup and Restore guide*.

Network Interface Cards

It is recommended that you use the Network Interface Card (NIC) supplied with the computer (if it is a DELL computer). However, you can also use any NICs supported by the supported Operating System.

Controller Interfaces

Refer to your Experion HS License Certificate for details about the interfaces supported by Experion HS. For installation and configuration information, refer to the *Experion Interface Reference Guides*.

Software requirements

Operating System	Windows 7 Professional edition (64-bit) English version + SP1
-------------------------	--

2. Planning the Experion HS installation

2.2. Hardware and software requirements

	(Service Pack 1).
Microsoft Office	<p>Microsoft Office 2007, Microsoft Office 2010, and Microsoft Office 2013 (32 bit).</p> <p>Note:</p> <ul style="list-style-type: none">· DO NOT install Microsoft Outlook on the server node. <p>For more information about installing Microsoft Excel Reports, refer to the <i>Supplementary Installation Tasks Guide</i>.</p> <p>For more information about creating Microsoft Excel Reports, refer to the section, "Configuring reports" in the <i>Server and Client Configuration Guide</i>.</p>
Antivirus software	<ul style="list-style-type: none">· Symantec Endpoint Protection 11; Release Update 6a, supersedes RU6· McAfee AV + VirusScan Engine + patch (8.7i + Engine 5400 + Patch3) <p>Refer to the Honeywell Process Solutions website for more information about Honeywell-qualified antivirus software.</p> <p>For more information about configuring the antivirus software, refer to the section, Protect against virus.</p>

2. Planning the Experion HS installation

2.3. About configuration forms

2.3 About configuration forms

This section contains information about the configuration forms that are required during the installation. We recommend that you print a copy of the following forms to record the relevant information as you read this section.

Server configuration form



ATTENTION

The non-redundant server computer names must not end with the letter A or B. However, in a redundant server system, the names of the nodes must end with the letters A or B.

Property	Value
Server computer name, for example expserver For more information about naming conventions, refer to the section Guidelines for naming Experion servers .	
Domain or workgroup name	
Server IP address	
Subnet mask	
Default gateway	
Windows mngr account password Ensure that you choose a strong password for the Windows mngr account, as it is difficult to change the password after the system installation. It is recommended to have complex password. This password must be the same on all the Experion nodes.	

Client configuration form



ATTENTION

The client computer names must not end with the letter A or B. Only redundant server pair nodes can end with the letters A or B, as these letters are reserved for redundant servers. For more information, refer to the section [Guidelines for naming Experion servers](#).

Property	Value
Client/Station 1	
Computer name	
IP address	
Client/Station 2	
Computer name	
IP address	
Client/Station 3	
Computer name	
IP address	
Client/Station 4	
Computer name	
IP address	
Client/Station 5	
Computer name	
IP address	
Client/Station 6	
Computer name	
IP address	
Client/Station 7	

2. Planning the Experion HS installation

2.3. About configuration forms

Computer name	
IP address	
Client/Station 8	
Computer name	
IP address	
Client/Station 9	
Computer name	
IP address	
Client/Station 10	
Computer name	
IP address	
Client/Station 11	
Computer name	
IP address	
Client/Station 12	
Computer name	
IP address	
Client/Station 13	
Computer name	
IP address	
Client/Station 14	
Computer name	
IP address	
Client/Station 15	
Computer name	
IP address	

2.4 Guidelines for naming Experion servers



WARNING

You cannot change the computer name of Experion servers after the installation. However, if you want to change the computer name, you must reinstall the server software.

All Experion server and client computers must have a unique fixed name and IP address.

The following are the basic restrictions when naming the server and client computers.

- The computer name must be 14 characters, or less, in length.
- The computer name must begin with an alphabetic character. For example a to z, or A to Z.
- The computer name cannot contain spaces or other non-standard characters.
- For non-redundant server nodes, the computer name **MUST NOT** end with A or B.
- For redundant server nodes, the computer name **MUST** end with A or B.
- The computer name must not end with "0" or "1". (Ending a name with 0 or 1 may result in communication failure if you have redundant networks. This is because 0 and 1 suffixes are appended to the computer names in host files to identify redundant links.)

2. Planning the Experion HS installation

2.4. Guidelines for naming Experion servers


3. Experion HS installation

3.1 Preinstall considerations

- Ensure that Microsoft Windows 7 Professional Edition (64-bit) English Version + SP1 is installed on your system by performing the following:
 - a) On the **Start** menu, right-click **Computer** and then click **Properties**.
 - b) Verify the system information in the **System Properties** window.
- You must use a user account with administrative privileges to install Experion. Do not use the default Windows 7 Professional administrator account.
- Check the BIOS settings of your computer and verify that any Multiple CPU Core related options are enabled. Refer to the computer Manufacturers documentation for more details.
- For redundant systems, the node hardware for both ServerB and ServerA must be identical.

3.2 Preparing for the installation

Customizing the Control Panel view

Step	Action
1	Click Start > Control Panel .
2	In the View by list, click Large icons .
<div> ATTENTION Ensure that you customize the Control Panel view option as Large icons for all logins.</div>	

Disabling automatic Windows update

It is strongly recommended to avoid installing any updates not qualified by Honeywell. Honeywell qualifies Microsoft security updates/patches to ensure that the update or patch works in conjunction with Experion software. After Honeywell qualifies Microsoft patches/updates, the customers are notified and the updates are made available through the Honeywell Process Solutions website.

3. Experion HS installation

3.2. Preparing for the installation

To disable automatic Windows update, perform the following steps.

Step	Action
1	Click Start > Control Panel .
2	Click Windows Update .
3	In the left pane, click Change Settings .
4	In the Important updates list, click Never check for updates (not recommended) .
5	Under Recommended updates , clear the check box.
6	Click OK .
7	Close the Windows Update window.

Changing the display settings

To change the display settings, perform the following steps.

Step	Action
1	Click Start > Control Panel .
2	Under Adjust your computer's settings , click Display .
3	In the left pane, click Adjust resolution .
4	Under Change the appearance of your display , from the Resolution list, select an Experion supported resolution (for example 1280 x 1024 and 1024 x 768).
5	Click Advanced settings .
6	On the Monitor tab, from the Colors list, select True Colour (32 bit) .
7	Click Apply and then click OK .
8	Close the Display window.

Customizing the performance settings

To customize the performance settings, perform the following steps.

Step	Action
1	Click Start > Control Panel .
2	Click System .
3	In the left pane, click Advanced system settings . The System Properties dialog box appears.
4	On the Advanced tab, click Settings under Performance . The Performance Options dialog box appears.
5	On the Visual Effects tab, click Adjust for best performance .
6	Click Apply and then OK .
7	Click OK to close the System Properties dialog box, and then close the System window.

Customizing the power options

To customize the power options, perform the following steps.


Step	Action
1	Click Start > Control Panel .
2	Click Power Options .
3	Under Plans shown on the battery meter , click Power saver option.
4	Click Change plan settings corresponding to the Power Saver option.
5	In the Turn off the display list, click Never . If Put the computer to sleep option appears, click Never .
6	Click Save Changes .
7	Close the Power Options window.

3. Experion HS installation

3.2. Preparing for the installation

Setting the network connections

To set the network connections, perform the following steps.

Step	Action
1	Click Start > Control Panel .
2	Click Network and Sharing Center .
3	In the left pane, click Change advanced sharing settings . By default, the Public (current profile) is expanded.
4	Under Network discovery , click Turn on network discovery . By default, the network discovery option is turned off.
5	Under File and printer sharing , click Turn on file and printer sharing . By default, the File and Printer Sharing option is turned off.
6	Click Save changes .
7	In the left pane of the Network and Sharing Center window, click Change adapter settings .
<hr/>	
 ATTENTION If your system has multiple NICs enabled, then right-click unused NICs and then click Disable .	
<hr/>	
8	Right-click the required LAN connection and then click Properties . The Local Area Connection Properties dialog box appears.
9	Double-click Internet Protocol Version 4 (TCP/IPv4) . The Internet Protocol Version 4 (TCP/IPv4) Properties dialog box appears.
10	Configure the IP address and then click OK to close the Internet Protocol Version 4(TCP/IPv4) Properties dialog box.
11	In the Local Area Connection Properties dialog box, click Configure and then click Advanced .
12	In the Property list, configure the speed and duplex, based on the values set on the network switch.
13	Click OK to close the Local Area Connection Properties dialog box.

Step	Action
14	Close all the open windows on the Windows desktop.
15	For dual network configuration, repeat steps 8 through 12 on the second network adapter.

Disabling disk auto defragmentation

To disable the disk auto defragmentation, perform the following steps.

Step	Action
1	Click Start > Computer .
2	Right-click Local Disc (C:) and then click Properties . The Local Disc (C:) Properties window appears.
3	Click the Tools tab.
4	Under Defragmentation , click Defragment now . The Disc Defragmenter dialog box appears.
5	Click Configure schedule . The Disc Defragmenter: Modify Schedule dialog box appears.
6	Click Select disks . The Disc Defragmenter: Select Disks For Schedule dialog box appears.
7	Clear Automatically defragment new discs checkbox and then click OK .
8	Clear Run on a Schedule (recommended) checkbox and then click OK .
9	Click Close to close Disc Defragmenter window.
10	Click OK to close the Local Disc (C :) Properties window.
11	Close the Computer window.

Turning off Windows Defender

If you have Windows Defender enabled on your computer, perform the following steps to disable Windows Defender for improved performance.

Step	Action
------	--------

3. Experion HS installation

3.2. Preparing for the installation

Step	Action
1	Click Start > All Programs .
2	Click Windows Defender . The Windows Defender window appears.
3	Click Tools at the top of the page. The Tools and Settings page appears.
4	Under Settings click Options . The Options page appears.
5	Click Administrator and then clear the following check boxes. <ul style="list-style-type: none">· Use this program· Display items from all users of this computer
6	Click Save . The User Account Control dialog box appears.
7	Click Continue . A dialog box with the message "Windows Defender is turned off" appears.
8	Click Close to close the Windows Defender dialog box.
9	Close the Control Panel .

Disabling antivirus software

If you have installed antivirus software, disable the antivirus services prior to the installation to ensure proper installation of the software.



ATTENTION

Ensure that you restart your antivirus services after you have completed the installation.

To disable the antivirus software, perform the following steps.

Step	Action
1	Click Start > All Programs > McAfee > VirusScan Console .

Step	Action
2	In the VirusScan Console window, click Task > Properties . The Access Protection Properties dialog box appears.
3	Clear Prevent McAfee services from being stopped check box.
4	Click Apply and then OK .
5	Close the VirusScan Console window.
6	Click Start > Run .
7	In the Run dialog box, type <code>services.msc</code> and then click OK . The Services window appears.
8	To disable the antivirus software, perform the following steps: a) Right-click McAfee Framework Service and then click Properties . The Properties dialog box appears. b) On the General tab, click Stop . c) In the Startup type box, select Disabled . d) Click Apply and then click OK .
9	Repeat steps 8a to 8d for McAfee McShield and McAfee Task Manager Services .

Setting up an ESIS repository

An ESIS repository consists of a copy of the Experion installation media DVD. You can create an ESIS repository on a local hard disk that can be accessed using a network share, USB pen drive, or a removable hard drive.



ATTENTION

This section is applicable only if you want to install Experion from ESIS repository.

Considerations

- ESIS repositories must not be created on a node on which Experion is installed.

3. Experion HS installation


3.2. Preparing for the installation

- You can create the ESIS repository only on Windows XP, Windows 7, Windows 2003, and Windows Server 2008 OS.
- The user account to which share access is provided must not be present on the system on which installation is performed.
- Ensure that HPSInstall account is not present on the system on which you create the ESIS share.

Prerequisites


- Create a folder to function as the ESIS repository, in the required location. The destination folder can be created only on USB removable drives, portable USB hard drives, or local system drives.
- Ensure that minimum space of 3 GB is available on the ESIS server for setting up the ESIS repository.
- Ensure you have .Net 2.0 (minimum) installed on your computer.
- Disable On-Access Scan for your antivirus program prior to starting the ESIS setup. Ensure that you enable On-Access Scan for your antivirus program after you have completed the ESIS setup.


To set up a new ESIS repository, perform the following steps.

Step	Action
1	<p>Insert the Experion installation media and then click Run Experion Media Browser in the AutoPlay dialog box.</p> <p>The Honeywell – Experion HS Installer page appears.</p>
2	<p>Click Setup an Experion Software Installation Server.</p> <ul style="list-style-type: none">· If the ESIS tool fails to start and an error message ".Net2.0 or higher needs to be installed." appears:<ol style="list-style-type: none">1) Click OK to exit.2) Go to <Install Media>\Packages\Microsoft\DotNet3.5\dotnetfx35SP1.exe and install .Net framework 3.5.· If you are creating ESIS on Windows XP SP2 (Dell), an error "You must install Windows Installer 3.1 to complete installation. Microsoft .Net 3.5 Framework requires that Windows Installer 3.1 be installed prior to the installation" appears.<ul style="list-style-type: none">- Click OK to exit.
3	<p>If the User Account Control dialog box appears, click Yes.</p> <p>The Welcome to ESIS page of ESIS Preparation Utility appears. The four options available on the Welcome dialog box are as follows:</p> <ul style="list-style-type: none">· Create a new ESIS Repository· Upgrade existing ESIS Repository· Resume a failed ESIS Repository creation· Remove an existing ESIS Repository
	<div>ATTENTION<p>When the ESIS Preparation Utility is started on a computer for the first time, only the option Create a New ESIS Repository is enabled by default.</p></div>
4	<p>Click Create a New ESIS Repository, if not already selected and then click Next.</p>
5	<p>On the Select a Path page, click Browse to select the destination folder for the ESIS repository.</p>
6	<p>Click Next.</p>

3. Experion HS installation

3.2. Preparing for the installation

Step	Action
	If you select local system drive, a message prompting to share the destination location appears.
7	Click OK . The Folder Properties dialog box appears, where you can set the permissions for the shared folder.
8	Click Share . The File Sharing dialog box appears.
9	In the text box under Choose people to share with , select the users with whom you want to share the folder and then click Add .
<hr/>	
 ATTENTION Consider the following before setting up permissions for the shared folder: <ul style="list-style-type: none">• It is recommended to give “read” permissions to the share.• Permissions to the ESIS share must be given to a single user account. Share access permissions must not be given to “Everyone” or Groups.	
10	Specify the Permission Level and then click Share . After the folder is shared, Your folder is shared message appears at the top of the File Sharing dialog box.
11	Click Done . The Folder Properties dialog box appears.
12	a) In the Folder Properties dialog box, click the Sharing tab and then click Advanced Sharing . b) In the Advanced Sharing dialog box, select the Share this folder check box. c) Under Settings , type the Share name and then click Permissions to assign permissions (Read permission or Read and Write permission) to this share. d) Click OK to close the Permissions dialog box. e) Click Apply and then OK to close the Advanced Sharing dialog box.

Step	Action
	f) Close the Folder Properties dialog box.
	<div> ATTENTION</div> <p>On an XP computer, for sharing the folder if a message appears to drag the ESIS folder to the Shared Document, then:</p> <ul style="list-style-type: none">a) Click Start > Settings > Control Panel > Folder Options and then click the View tab.b) Clear the Use simple file sharing (Recommended) check box.c) Log off, log on, and then restart the ESIS creation.
13	<p>On the Select Media page, select the check boxes corresponding to the names of the media to select the media for ESIS repository creation and then click Start.</p> <p>A message to close all the explorer windows appears.</p>
14	<p>Close all the windows and then click OK to proceed.</p> <p>The Status Display page appears.</p> <p>If My Documents folder appears, close it.</p>
15	<p>After the media is copied, the Description is updated to ESIS Repository [<Name>] created successfully at <Destination Location>.</p>
16	<p>Click Finish.</p>

3. Experion HS installation

3.3. Install Experion server using installation media

3.3 Install Experion server using installation media

Prerequisites

- Ensure you have the following, before starting the installation.
 - Experion HS installation media
 - Software license certificate
 - Software protection key (dongle), if specified on the license certificate

Considerations

- This procedure must be performed using a user account with administrative privileges.

To install Experion server, perform the following steps.

Step	Action
1	If a software protection key (dongle) is specified on the license certificate, insert this key on the computers USB port. The Found New Hardware dialog box appears.
2	Wait for the Operating System to complete the USB driver installation. If any warning dialog box appears, ignore the message and proceed with the installation.
3	Insert the Experion HS installation media in the DVD drive. The AutoPlay dialog box appears.
4	Under Install or run program , click Run Experion Media Browser . The Honeywell – Experion HS Installer – R410 page appears.
5	Click Install/Migrate Experion HS . The User Account Control dialog box appears.
6	Click Yes . The Honeywell Experion HS – DialogManager appears.



3. Experion HS installation

3.3. Install Experion server using installation media

Step	Action
7	<p>Click Next.</p> <p>The Migration/Clean Install Selection page appears.</p>
8	<p>Click Install Clean, and then click Next.</p> <p>A warning appears with the message "You have chosen an option that will not Migrate data from a prior release."</p>
9	<p>Click Yes on the warning dialog box.</p> <p>The License Agreement page appears.</p>
10	<p>Click I accept the terms in the license agreement, and then click Next.</p> <p>The Setup type of Node to Install page appears.</p>
11	<p>Select SCADA Server from the Experion Product Node Type list and click Next.</p>
12	<p>Click Yes to proceed with the installation.</p> <p>The User and License Information page appears.</p>
13	<p>Under Customer Information, enter the Name and Company Name.</p>
14	<p>Under Experion System Software, enter the System Number and Authorization.</p>
15	<p>Click Next. The Installation Path(s) Selection page appears.</p>
16	<p>Click Next, if you are using the default installation path.</p> <p>Or</p> <p>Perform the following to specify a new installation path.</p> <ol style="list-style-type: none">1) Click Change and then click the Browse button corresponding to the path you want to change.2) Specify a new installation path.3) Click Next. <p>The Feature and Options Selection page appears.</p>
17	<p>Under Experion PKS Install Option, the Typical option is selected by default.</p> <p>Click Next, if you do not want any Add-on Features to be installed.</p>

3. Experion HS installation

3.3. Install Experion server using installation media

Step	Action								
	Or								
	Perform the following to install Add-on Features :								
	1) Click Custom and then select the check box corresponding to the feature you want to install.								
	2) Click Next .								
	The Experion Accounts Passwords Entry page appears.								
	Type the passwords for the following:								
	<table><tr><td>MNGR Account</td><td>Enter Password and Confirm Password.</td></tr><tr><td>Expengr Account</td><td>Enter Password and Confirm Password.</td></tr><tr><td>Expoper Account</td><td>Enter Password and Confirm Password.</td></tr><tr><td>Experion SQL Agent Account</td><td>Enter Password and Confirm Password.</td></tr></table>	MNGR Account	Enter Password and Confirm Password.	Expengr Account	Enter Password and Confirm Password.	Expoper Account	Enter Password and Confirm Password.	Experion SQL Agent Account	Enter Password and Confirm Password.
MNGR Account	Enter Password and Confirm Password.								
Expengr Account	Enter Password and Confirm Password.								
Expoper Account	Enter Password and Confirm Password.								
Experion SQL Agent Account	Enter Password and Confirm Password.								
18	Click Next .								
19	Type the password for the following:								
	<table><tr><td>Experion SQL Account</td><td>Enter Password and Confirm Password.</td></tr></table>	Experion SQL Account	Enter Password and Confirm Password.						
Experion SQL Account	Enter Password and Confirm Password.								
	For more information about the Windows accounts, refer to the section About default security settings .								
	<div> WARNING Passwords of local accounts must be configured to be the same on all Experion nodes.</div>								
20	Click Next .								
	The Summary page appears.								
21	Click Install .								
	The installation begins.								
	<div> ATTENTION Ignore the small user interface window that appears during server patch installation. Ensure you do not click anywhere during this step.</div>								
22	Click Yes to restart the computer and log on as a user with administrator								

3. Experion HS installation

3.3. Install Experion server using installation media

Step	Action
	privileges.
23	When Welcome to Experion PKS page appears, click View license agreement to review the Honeywell license agreement.
24	Clear Show this screen next time you start Windows check box.
25	Click Close .
26	Complete the tasks in the section – Post installation tasks .



ATTENTION

- By default, when the Experion HS server software is installed, the Experion HS client software is also installed.
 - Do not change the Experion server computer name after the software installation.
-

3. Experion HS installation

3.4. Install Experion HS client software using installation media

3.4 Install Experion HS client software using installation media



ATTENTION

- If SoftMaster needs to be installed in Experion HS, ensure you install SoftMaster (optional) only after installing the Experion HS client. For more information about installing the SoftMaster, refer to the *SoftMaster Users Manual*.
-

Considerations

- This procedure must be performed using a user account with administrative privileges.

To install Experion HS client software, perform the following procedure.

Step	Action
1	Insert the Experion HS installation media in the DVD drive. The AutoPlay dialog box appears.
2	Under Install or run program , click Run Experion Media Browser . The Honeywell – Experion HS Installer – R410 page appears.
3	Click Install/Migrate Experion HS . The User Account Control dialog box appears.
4	Click Yes . The Welcome to the Honeywell Experion HS R410.1 Installation Setup page appears.
5	Click Next . The Migration/Clean Install Selection page appears.
6	Click Install Clean , and then click Next . A warning appears with the message “You have chosen an option that will not Migrate data from a prior release.”



3. Experion HS installation

3.4. Install Experion HS client software using installation media

Step	Action		
7	Click Yes on the warning dialog box. The License Agreement page appears.		
8	Click I accept the terms in the license agreement , and then click Next . The Setup type of Node to Install page appears.		
9	Select SCADA Client from the Experion Product Node Type list and click Next .		
10	Under Customer Information , enter the Name and Company Name , and then click Next . The Installation Path(s) Selection page appears.		
11	Click Next , if you are using the default installation path. Or Perform the following to specify a new installation path. <ol style="list-style-type: none">1) Click Change and then click the Browse button corresponding to the path you want to change.2) Specify a new installation path.3) Click Next. The Feature and Options Selection page appears.		
12	Under Experion PKS Install Option , the Typical option is selected by default. Click Next , if you do not want any Add-on Features to be installed. Or Perform the following to install Add-on Features : <ol style="list-style-type: none">1) Click Custom and then select the check box corresponding to the feature you want to install.2) Click Next. The Experion Accounts Passwords Entry page appears.		
13	Type the passwords for the following: <table><tr><td>mngr Account</td><td>Enter Password and Confirm Password.</td></tr></table>	mngr Account	Enter Password and Confirm Password.
mngr Account	Enter Password and Confirm Password.		

3. Experion HS installation

3.4. Install Experion HS client software using installation media

Step	Action
	expengr Account Enter Password and Confirm Password.
	expoper Account Enter Password and Confirm Password.
	For more information about Windows accounts, refer to the section About default security settings .
	 WARNING Passwords of local accounts must be configured to be the same on all Experion nodes.
14	Click Next . The Summary page appears.
15	Click Install . The installation begins and the progress of the installation is displayed.
	 ATTENTION Ignore the small user interface window that appears during server patch installation. Ensure you do not click anywhere during this step.
16	Once the installation is complete, click Yes to restart the computer and log on as a user with Administrator privileges.
17	When Welcome to Experion PKS page appears, click View license agreement to review the Honeywell license agreement.
18	Clear Show this screen next time you start Windows check box.
19	Click Close .
20	Complete the tasks in the section – Post installation tasks .

3.5 Install Experion server/client using ESIS

Considerations


- The following procedure assumes that there are two computers with working network connection.
- Ensure that you have created the ESIS repository as specified in the section, [Setting up an ESIS repository](#).

To install Experion server/client using ESIS from a network share/USB drive, perform the following steps.

Step	Action
1	<p>If you are using ESIS from a network share:</p> <p>To connect to the ESIS repository:</p> <ol style="list-style-type: none">a) Click Start > Run.b) Type \\<ESISServer IP>\<ShareName>.c) Press ENTER. <p>If you are prompted for the Windows credentials:</p> <ul style="list-style-type: none">· Type the <Domain Name>\Username and Password if you belong to a domain and if you have share permissions.· Type the <ESISServer IP>\Username and Password if you belong to a workgroup and if you have share permissions.· Clear the Remember Password check box. <p>If you are using ESIS from a USB drive:</p> <p>Insert the USB pen drive or removable hard drive (containing the ESIS repository) into your machine.</p>
2	<p>If you are using ESIS from a network share:</p> <p>Double-click setup.exe at the root of the ESIS repository path.</p> <p>On the Welcome to ESIS tool page:</p> <ul style="list-style-type: none">· Type the <Domain Name>\Username and Password if you belong to a domain and if you have share permissions.· Type the <ESISServer IP>\Username and Password if you belong to a

3. Experion HS installation

3.5. Install Experion server/client using ESIS

Step	Action
	<p>workgroup and if you have share permissions.</p> <ul style="list-style-type: none">· Clear the Remember Password check box. <p>If you are using ESIS from a USB drive:</p> <p>Browse to the ESIS repository location in the USB pen drive/removable hard drive and double-click setup.exe at the root of the ESIS repository path.</p>
	<div>ATTENTION</div> <p>If an error message "Multiple users cannot be connected to the same network share" occurs, refer to the section Troubleshoot Experion installation failure for resolving this issue.</p>
3	In the Welcome page, click Next .
4	<p>Click Clean Install and proceed with the installation.</p> <p>To complete the installation, refer to the following sections depending on the node that you are installing.</p> <ul style="list-style-type: none">· Install Experion server using installation media· Install Experion HS client software using installation media

4. Post installation tasks

4.1 About default security settings

The installation creates the following Windows accounts and Station Operator IDs. Refer to the section, “Configuring security and access” in the *Experion Server and Client Configuration Guide* before changing these settings.

Windows Account	Group				
	Product Administrators	Local Servers	Local Engineers	Backup Operators	Local Operators
mngr(1)	No	Yes	Yes	Yes	No
expengr(2)	Yes	No	Yes	No	No
expoper(3)	No	No	No	No	Yes
(1) This is the Experion system account. (2) Log on using this account to configure the system. (3) Log on using the expoper account to operate the system.					



ATTENTION

The Windows account passwords are case-sensitive.

4. Post installation tasks

4.1. About default security settings

Operator ID	Description
mngr	This Operator ID is used by applications and is not linked to the Windows mngr account, the default password for this login is mngr1 .
Product Administrators	This default Operator ID is linked to a Windows account group with the same name.
Local Engineers	This default Operator ID is linked to a Windows account group with the same name.
Local Operators	This default Operator ID is linked to a Windows account group with the same name.

4.2 About Station logins and security levels

Experion provides the following security levels that apply when you use Station. If you use the default Station-based security, you can move to a particular security level by typing the password for that level on the Station. If you use operator-based security, each person is given a unique Station Operator ID and assigned a specific security level. Refer to the section, Configuring security and access in the *Experion Server and Client Configuration Guide* for description of the Station and Operator-based security options.

Security Level	Default Password	Description
View Only	No default	Only viewing is permitted. This level is available only with operator-based security.
Ack Only	No default	Viewing and alarm acknowledgement is permitted. This level is available only with operator-based security.
OPER	oper	This is the standard operator level that allows alarm acknowledgement and routine control.
SUPV	supv	Provides access to supervisor-level functions.
ENGR	engr	Provides access to engineer-level functions.
MNGR	mngrr	Provides unrestricted access to all functions.

4.3 Customize the system



ATTENTION

- Before starting the post installation tasks, ensure you have logged in as a user, which is part of Administrators and Product Administrators group.
- Note that the locations given as examples in this guide are the default installation locations. These locations may not be applicable, if you have specified a different installation path on the Installation Path(s) Selection page, during the Experion HS installation.

Disabling the Operator password timeout

The Station Operator ID, mngr is used by applications to access the system. By default, the password expiry period for all Station Operator logins that are not linked to a Windows account is set to 30 days, which can cause problems after the system installation. The following procedure disables the password expiry period.

Step	Action
1	Click Start > All Programs > Honeywell Experion PKS > Server > Station .
2	Click Station > Connect . The Connect dialog box appears.
3	Select the required .stn file from the Recent Connections tab or the Other Connections tab.
4	Click Connect . Station connects to the server using the connection information contained in the setup file you specified.
5	Type mngr in the Password field, and then click OK to change the Station security level to mngr.
6	Click Configure > Operators > Operators on the Station menu to open the Operator Configuration Summary display.
7	Click the Sign-on Admin tab.
8	Type 0 in the Password Expiry Period field and press ENTER to disable password timeouts.
9	Type 0 in the Password Validation Period field and press ENTER to disable password reuse validation period.

4. Post installation tasks

4.3. Customize the system

Removing unused system interfaces

Perform the following steps to remove the unused system interfaces.

Step	Action
1	In Station, click Configure > System Hardware > System Interfaces to open the System Interface Configuration Summary display.
2	Type rec 999 in the command zone at the upper right side of the Station window and press ENTER .
3	Select the blank entry on the combo box at record 499, to remove the PHD interface entry and press ENTER .
4	Select the blank entry on the combo box at record 500, to remove the SYSMGT interface entry and press ENTER . A dialog box is displayed in the system message zone.
5	Click Yes to delete the SYSMGT interface.

Initializing the Quick Builder database

Step	Action
1	From Experion server, Click Start > All Programs > Honeywell Experion PKS > Configuration Studio and connect to the appropriate server. The Configuration Studio appears.
2	In the left pane, expand server name, and click Control Strategy .
3	In the right pane, click Build channels . The Enable Components dialog box appears, if you are opening Quick Builder for the first time. Or The Quick Builder main window appears. Click Tools > Component Manager to open the Enable Components dialog box.
4	Double-click to expand Other > Device , and then select MasterLogic to add the MasterLogic interface.
5	Click OK to close the Modify Project dialog box.
6	Click the Servers icon on the left side of the window.

Step	Action
7	Click the DefaultServer item and then ensure that Experion PKS - R410 is selected in the Server Type list.
8	Click the Server Details tab and verify that the server name is correct.
9	Click the Up arrow icon on the toolbar.
10	Select All items from server , and click OK to upload the server database. The default server Station configuration is uploaded and the errors reported during the upload must be ignored.
11	Close Quick Builder followed by Configuration Studio . The new database file is saved at <i>C: \ProgramData\Honeywell \Experion PKS\Server\Data\qdb\QBDatabase.qdb</i> .

Installing additional updates from the Honeywell Process Solutions website

If there are additional updates available for Experion HS, download and install them. Refer to the section – [Download the latest software and documentation](#) and follow the instructions supplied with the updates.

Installing the latest antivirus software

Verify that the latest antivirus software is installed and patched to the proper version for your OS. You can find the latest antivirus solution information at Honeywell Process Solutions website.

Defragmenting the hard disk



ATTENTION

- The process must be controlled to a safe state before performing this procedure on the Experion server. It is not possible to monitor or control the process during this procedure.
 - To defragment the hard disk of the client system, follow the steps from 10 through 18.
-

To defragment the hard disk, perform the following steps.

Step	Action
1	Close all the running applications on the Windows desktop.
2	Click Start > All Programs > Honeywell Experion PKS > Server > Start-Stop Experion PKS Server . The Experion PKS Server dialog box appears.
3	Click the application icon on the upper-left of the title bar and Click Advanced > Full mode .
4	Click Database Unloaded , and click Yes on the confirmation dialog box. Wait for the server state to change to Database Unloaded and close the dialog box.
5	To stop MSSQLServer service, click Start > Run and type <code>services.msc</code> . The User Account Control dialog box appears.
6	Click Continue . The Services window appears.
7	Right-click SQL Server (MSSQLServer) and click Stop .
8	In the Stop Other Services dialog box, click Yes . This stops the MSSQLServer services.
9	Close the Services window.
10	Click Start > Computer . The Computer window appears.


Step	Action
11	Right-click the C: drive, and then click Properties .
12	Click the Tools tab.
13	Click Defragment Now.... The User Account Control dialog box appears.
14	Click Continue . The Disk Defragmenter window appears.
15	Click Defragment Now.... The Disk Defragmenter Defragment Now dialog box appears.
16	Select C: to defragment and click OK . Depending on the level of fragmentation, this task may take some time to complete.
17	When the defragmentation is complete, click File > Exit to close the Disk Defragmenter application, and click OK to close the Properties dialog box.
18	Restart the computer and log on as a user with administrator privileges.

4.4 Configure the network

Creating a hosts file for single and dual network

The hosts file on the Experion server and the Experion clients must contain the computer name and associated IP address of the Experion server. As the entries are identical, you can edit the hosts file on one computer, and then copy the file to each computer in the Experion system.

To create a hosts file, perform the following steps.

Step	Action
1	Click Start > All Programs > Accessories and right-click Notepad and click Run as Administrator . The User Account Control dialog box appears.
2	Click Yes . The Notepad appears.
3	Click File > Open . The Open window appears.
4	Browse to C: \Windows\System32\drivers\etc\hosts file to open the hosts file.
<hr/>	
 ATTENTION Ensure you select All Files , under File name .	
5	Enter the IP Address and the corresponding Host Name (separated by a space) for Experion server with a single-network . For example, assume the IP address of the Experion server computer, expserver, is 192.168.1.1. The hosts file on each computer within this Experion system would include the following entries: 127.0.0.1 localhost 192.168.1.1 hsserv

Step	Action
6	<p>Enter the IP Address and the corresponding Host Name (separated by a space) for Experion server with dual networks.</p> <p>For example assume the IP addresses as:</p> <p>192.168.0.1 for the server, expserver, on the first network.</p> <p>192.168.1.1 for the server, expserver, on the second network.</p> <p>The hosts file on each server and client computer within the Experion system would include the following entries:</p> <pre>127.0.0.1 localhost 192.168.0.1 hsserv hsserv0 192.168.1.1 hsserv1</pre>
7	<p>Enter the IP Address and the corresponding Host Name (separated by a space) for Experion redundant server with a single-network.</p> <p>For example assume the IP address of the primary Experion server computer, hsserva, is 192.168.0.1 and assume the IP address of the backup Experion server computer, hsservb, is 192.168.0.2</p> <p>The hosts file on each computer within this Experion system would include the following entries:</p> <pre>192.168.0.1 hsserva hsserva0 192.168.0.2 hsservb hsservb0</pre>

4. Post installation tasks



4.4. Configure the network

Step	Action
8	<p>Enter the IP Address and the corresponding Host Name (separated by a space) for Experion redundant server with dual networks.</p> <p>For example assume the IP addresses as:</p> <p>192.168.0.1 for the server, hsserva, on the first network.</p> <p>192.168.1.1 for the server, hsserva, on the second network.</p> <p>192.168.0.2 for the server, hsservb, on the first network.</p> <p>192.168.1.2 for the server, hsservb, on the second network.</p> <p>The hosts file on each server and client computer within the Experion system would include the following entries:</p> <pre>192.168.0.1 hsserva hsserva0 192.168.0.2 hsservb hsservb0 192.168.1.1 hsserva1 192.168.1.2 hsservb1</pre>
9	<p>Close the hosts Notepad and Computer window.</p>

Updating the hosts file

To update the hosts file, perform the following steps.

Step	Action
1	<p>Click Start > All Programs > Accessories and right-click Notepad and click Run as Administrator.</p> <p>The User Account Control dialog box appears.</p>
2	<p>Click Continue.</p> <p>The Notepad opens.</p>
3	<p>Click File > Open.</p> <p>The Open dialog box appears.</p>

Step	Action
4	Browse to C: \Windows\System32\drivers\etc and open the hosts file.
	 ATTENTION Ensure you select All Files , under File name .
5	Edit the file as required.
6	Save the changes to the hosts file.
	 ATTENTION If you use Microsoft Notepad to edit the hosts file, you need to remove the .txt file extension after you save the file.
7	Copy this file to each computer in the Experion system or repeat this procedure on each computer.

Building redundancy Link

To build the data link for a single network

The redundancy link (Link 0 (LINK00)) is configured by default as part of redundant server installation. To activate the link you must update the hosts file on both redundant pairs and then restart the servers.

To build the data link for dual networks

Step	Action
1	Browse to C: \Program Data\Honeywell\Experion PKS\Server\User and open redun.hdw using a text editor such as Notepad .
2	Locate the following section in this file: & ***** & Define the data link(s) & *****

4. Post installation tasks

4.4. Configure the network

Step	Action
3	<p>By default, link 0 is established as illustrated:</p> <pre>DEL LNK00</pre> <pre>ADD LNK00 NETWORK_LINK</pre> <p>If you are using dual networks, the following entries also must be added for LNK01.</p> <p>The following is an example of REDUN.HDW, before editing:</p> <pre>& DEL LNK01</pre> <pre>& ADD LNK01 NETWORK_LINK</pre> <p>Edit the REDUN.HDW file by removing "& " symbol for link 1.</p> <p>The following is an example of REDUN.HDW, after editing:</p> <pre>DEL LNK01</pre> <pre>ADD LNK01 NETWORK_LINK</pre>
4	<p>Save the file.</p>
5	<p>Click Start > All Programs > Accessories, right-click Command Prompt and click Run as Administrator.</p> <p>The Command Prompt window appears.</p>
6	<p>To stop the Experion server, type the following command and press ENTER.</p> <pre>Hscserver /database /y.</pre>
7	<p>Wait for the message; the command is executed successfully.</p>
8	<p>To change the directory to where the REDUN.HDW file is located, type the following and press ENTER.</p> <pre>cd c:\program Data\honeywell\experion pks\server\user</pre> <p>Command prompt indicates the following path</p> <pre>c:\program Data\honeywell\experion pks\server\user.</pre>

Step	Action
9	<p>To build the dual LAN link, type the following command and press ENTER.</p> <pre>c: \program Data\honeywell\experion pks\server\user>hdwbl d redun. hdw</pre> <p>Command executes successfully and displays hardware build complete 0 errors.</p>
10	<p>To UNLOAD the server database, type the following command and then press ENTER.</p> <pre>hscserver /unload /y</pre> <p>If a message, "Are you sure you want to unload the database and start the server? (y/n)" appears, press Y on the keyboard.</p>
11	<p>Wait for the message; the command is executed successfully.</p>
12	<p>To START the Experion server, type the following command and then press ENTER.</p> <pre>hscserver /start</pre> <p>A message, "Are you sure you want to load the database and start the server? (y/n)" appears.</p>
13	<p>Press Y on the keyboard and then wait for the message; the command is executed successfully.</p>
14	<p>Restart both servers.</p>
15	<p>After restarting, open Station and then go to the Server Redundancy page.</p>
16	<p>Ensure that Link 1 (LNK01) is established and running, along with Link 0 (LNK00).</p>

Guidelines for configuring common network properties

Property	Description
Preferred DNS server	<p>Request your Network Administrator for the IP address of the preferred Domain Name Server (DNS). Your company may have one or more DNS. The preferred DNS is the first DNS that your computer communicates with to resolve names to IP addresses. If the preferred DNS server is not available, your computer communicates with the alternate DNS, if available.</p> <p>If you are configuring a stand-alone network, this</p>

4. Post installation tasks

4.4. Configure the network

Property	Description
	parameter can be omitted.
Alternate DNS server	Request your Network Administrator for the IP address of the alternate DNS. If you are configuring a stand-alone network, this parameter can be omitted.
DNS suffixes	Request your Network Administrator for the list and search order of DNS suffixes. If you are configuring a stand-alone network, this parameter can be omitted.
DNS suffix for this connection	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
Register this connection's addresses in DNS	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
Use this connection's DNS suffix in DNS registration	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
WINS addresses	<p>Request your Network Administrator for the IP address of the Windows Internet Name Service (WINS). Your company may have one or more WINS.</p> <p>If you are configuring a stand-alone network, this parameter can be omitted.</p>
Enable LMHOSTS lookup	Request your Network Administrator if you need to maintain an LMHOSTS file. This file maps NetBIOS names (commonly used for computer names) to IP addresses.
NetBIOS over TCP/IP	Request your Network Administrator if you need to enable or disable NetBIOS over TCP/IP.
Domain or Workgroup	<p>If you are connecting to an existing network, request your Network Administrator to identify the workgroup or domain name.</p> <p>In addition, if you use domains, you require a user account and password with appropriate privileges to add computers to a domain.</p> <p>If you have a stand-alone network, specify a workgroup with a name such as "EXPHS". The name</p>

Property	Description
	must be identical for all computers on the network.

Guidelines for Dual Network Configuration

Dual network configuration is more complicated than single network configuration, as there are two data paths (networks) through which a Station can connect to the server running as primary.

In dual network configuration when Station connection to the primary server is lost (or the primary server fails), the Station attempts to connect to the backup server through the same network. If Station is unable to connect to the backup server through the first network, Station attempts to reconnect to the primary server through the second network. If Station is unable to connect to the primary server through the second network, Station attempts to connect to the backup server through the second network.

This way both servers and both networks are tested by Station in an attempt to make a valid connection.

In this case, four Station setup files are required:

- default.stn which connects to hsserva0 through the first network (and has auxiliary setup file hsservb.stn)
- hsservb.stn which connects to hsservb0 through the first network (and has auxiliary setup file hsserva1.stn)
- hsserva1.stn which connects to hsserva1 through the second network (and has auxiliary setup file hsservb1.stn)
- hsservb1.stn which connects to hsservb1 through the second network (and has auxiliary setup file default.stn)

When Station starts, it connects to hsserva (as configured in default.stn).

If hsserva fails (or connection to hsserva is lost), it connects to hsservb (through the same network). If it fails to connect to hsservb, it attempts to reconnect to hsserva (through the second network, hsserva1). If it fails to connect to hsserva, it attempts to reconnect to hsservb (through the second network hsservb1). If it fails to connect to hsservb, it then attempts its initial connection (hsserva through the first network) again.

In addition to specifying the auxiliary files, you need to ensure that Station can access displays by:

- Ensuring your TCP/IP settings you have selected enables DNS for Windows Resolution (Windows NT only).

4. Post installation tasks

4.4. Configure the network

- Ensuring the host files include the host server names.
- Creating the network connections on the computer on which the Station is running.
- The relevant network paths are added to the **Displays** tab in the **Connection Properties** dialog box for all the required .stn files.

Description of the TCP/IP Properties

The tabs and properties that correspond to the **Microsoft TCP/IP Properties** dialog box.

Note: If you have a dual network system, you must specify values for both adapters.

Tab	Property	Description
General	IP Address	If you have an existing network, this is provided by your Network Administrator. Otherwise, specify like 200.0.0.x, where x is a unique number for each network adapter (and usually each host) on the network. This number can be between 1 and 254.
	Subnet Mask	If you have an existing network, your Network Administrator provides this. Otherwise, specify 255.255.255.0.
	Default Gateway	If you have an existing network, your Network Administrator provides this. If the computer is connected to a stand-alone network, leave this blank.
	Preferred DNS server	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	Alternate DNS server	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.

4. Post installation tasks

4.4. Configure the network

Tab	Property	Description
IP Settings	Interface metric	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
DNS	DNS server addresses, in order of use	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	Append primary and connection specific DNS suffixes	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	Append parent suffixes of the primary DNS suffix	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	Append these DNS suffixes (in order)	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	DNS suffix for this connection	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	Register this connection's addresses in DNS	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
	Use this connection's DNS suffix in DNS registration	Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.

4. Post installation tasks

4.4. Configure the network

Tab	Property	Description
WINS		Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.
Options		Request your Network Administrator for this information. If you are configuring a stand-alone network, this parameter can be omitted.

4. Post installation tasks

4.5. Set up time synchronization

4.5 Set up time synchronization

The following sections describe setting up time synchronization for:

- Workgroups without an external time source
- Workgroups with an external time source
- Domains

Before configuring the NTP setup and time synchronization, refer to the “Time synchronization” section in the *Server and Client Planning Guide*.

About NTP Configuration (NTPCfg) utility

NTPCfg is a custom Honeywell application for configuring time synchronization in Experion systems. It is used to configure NTP as a time solution for Experion on Microsoft's Windows Operating System, Windows 7 Professional edition (64-bit) English version. NTPCfg will fail if you are not using the specified Operating System.

Prerequisites for running NTPCfg utility

- Configure the time zone settings for the clients and NTP servers.
- If you are working in a domain topology, make sure that your nodes have been added to the domain.
- Verify that there are no networking issues. For example, ensure that network browsing and other functions do not experience any delays.

General guidelines for using NTPCfg utility

Following are the general guidelines that you should follow when using NTPCfg to set up the time synchronization for your system:

- Always start implementing a topology by first setting up the NTP servers.
- Note that NTPCfg hides functionality that is not common or functionality that can create problems in proper NTP solutions. It is therefore recommended that you do not attempt to override or apply your own NTP solution.
- Setting up time hierarchies without external sources or with unreliable external sources result in the clients validating and invalidating the time source. In this situation, the local CMOS time is used. This can occur in both workgroup and domain topology.
- NTP servers provided by networking devices cannot be used to provide time to the Windows Operating System. (These types of NTP servers only send out packet types

4. Post installation tasks

4.5. Set up time synchronization

marked as Symmetric Passive.) Integrated external NTP server devices must be able to provide time to the Windows Operating System using NTP packet types marked as Server or Symmetric Active.



ATTENTION

If you reinstall the Operating System on any of your nodes, you must run NTPConf utility again. If your time hierarchy was originally in a workgroup topology and you have changed to a domain topology, you must set up your time hierarchy using the procedure in the section [NTP adjustment on a workgroup system that was recently added to a domain](#).

4. Post installation tasks

4.5. Set up time synchronization

Setting up time synchronization in a workgroup without an external time source

Setting up the authoritative root server

Perform the following steps to set up your primary Experion server as the authoritative root server in your time hierarchy.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files (x86) \Honeywell \Experion PKS\Utilities\NTP setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Setup Authoritative Root Server . Several dialog boxes appear while the configuration is applied. No input is required.
4	Click Exit .

Setting up the secondary NTP server

This section describes setting up your secondary Experion server as your secondary NTP server in your time hierarchy.

Prerequisites

- You need to know the IP address or computer name of the authoritative root server. If you use a computer name, it must resolve to an IP address using Host, DNS, or other resolution service.

Perform the following steps to set up your secondary NTP server.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files (x86) \Honeywell \Experion PKS\Utilities\NTP setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes .

Step	Action
	The NTP Server Configuration dialog box appears.
3	Click Setup Secondary Server . The NTP Server Information dialog box appears.
4	In the Up-Stream Time Source box, type the IP address or computer name of the authoritative root server.
5	Click OK .
6	Click Exit .

Setting up NTP clients in a workgroup without an external time source

This section describes how to set up NTP clients on Flex Stations.

Prerequisites

- You need to know the IP address or computer name of the authoritative root server and the secondary server. If you use a computer name, it must resolve to an IP address using Host, DNS, or other resolution service.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files (x86) \Honeywell \Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Change/Configure Client . The NTP Server Information dialog box appears.
4	In the First NTP Server box, type the IP address or computer name of the authoritative root server.
5	In the Second NTP server box, type the IP address or computer name of the secondary server.
6	Click OK .
7	Click Exit .

4. Post installation tasks

4.5. Set up time synchronization

Setting up time synchronization in a workgroup with an external time source

This section describes the procedures to set up time synchronization in a workgroup with an external time source.

Setting up the first NTP server in a workgroup with an external time source

This section describes setting up your primary Experion server as an NTP server that receives time from an external source.

Prerequisites

- You need to know the IP address or computer name of the external time source. If you use a computer name, it must resolve to an IP address using Host, DNS, or other resolution service.

Perform the following steps to set up the first NTP server.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \ Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Setup Secondary Server . The NTP Server Information dialog box appears.
4	In the Upstream Time Source box, type the IP address or computer name of the external time source.
5	Select Check here to connect to the NTP server as a client check box.
6	Click OK .
7	Click Exit .

Setting up the second NTP server in a workgroup with an external time source

This section describes setting up your secondary Experion server as an NTP server that receives time from an external source.

Prerequisites

- You need to know the IP address or computer name of the first NTP server. If you use a computer name, it must resolve to an IP address using Host, DNS, or other resolution service.

Perform the following steps to set up the second NTP server.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Setup Secondary Server . The NTP Server Information dialog box appears.
4	In the Upstream Time Source box, type the IP address or computer name of the first NTP server.
5	Select Check here to connect to the NTP server as a client check box.
6	Click OK .
7	Click Exit .

Setting up NTP clients in a workgroup with an external time source

This section describes how to set up NTP clients on Flex Stations. These clients receive time from the Experion servers that have been set up as NTP servers.

Prerequisites

- You need to know the IP address or computer name of the first NTP server and the second NTP server. If you use a computer name, it must resolve to an IP address using Host, DNS, or other resolution service.

Perform the following steps to set up NTP clients.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program</i>

4. Post installation tasks

4.5. Set up time synchronization

Step	Action
	<i>Files(x86) \Honeywell \Experion PKS\Utilities\NTP setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Change/Configure Client . The NTP Server Information dialog box appears.
4	In the First NTP Server box, type the IP address or computer name of the first NTP server.
5	In the Second NTP server box, type the IP address or computer name of the secondary server.
6	Click OK .
7	Click Exit .

Setting up time synchronization in a Windows domain

In the time hierarchy in a domain topology, the Windows domain controller serves time to the Experion servers, which you set up as NTP servers. The NTP servers that serve time to the Flex Stations are set up as NTP clients; but they receive time from the domain controller rather than the Experion servers.

Prerequisites

- You have added your Experion nodes to the domain.

Setting up the first NTP server in a Windows domain

The first NTP server is your primary Experion server. It receives time from the domain controller.

To set up the first NTP server, perform the following steps.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \Experion PKS\Utilities\NTP setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Setup Secondary Server . The NTP Server Information dialog box appears.
4	Click Exit .

4. Post installation tasks

4.5. Set up time synchronization

Setting up the second NTP server in a Windows domain

The second NTP server is your secondary Experion server. It receives time from the domain controller. Perform the following steps to set up the second NTP server.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \ Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Setup Secondary Server . The NTP Server Information dialog box appears.
4	Click Exit .

Setting up NTP clients in a Windows domain

This section describes how to set up NTP clients that is Flex Stations. Perform the following steps to set up NTP clients.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \ Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Change/Configure Client . The NTP Server Information dialog box appears.
4	Click Exit .

NTP adjustment on a workgroup system that was recently added to a domain

Adding a system to a domain, changes the way time synchronization is used. Even if you have existing NTP settings, you need to run the NTPConfig application to reset the time synchronization to operate correctly in a domain environment.

Adjusting NTP servers

This section describes how to set up an NTP server that was previously in a workgroup that is presently added to a domain. Perform the following steps to adjust an NTP server.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes . The NTP Server Configuration dialog box appears.
3	Click Change/Configure Client . After several dialog boxes appear, the NTP client configuration methods should be NT5DS.
4	Select Disable All NTP Configuration .
5	Click Setup Secondary Server .
6	Click Exit .

Adjusting NTP clients

This section describes how to set up an NTP client that was previously in a workgroup that is presently added to a domain.

Step	Action
1	Using Windows Explorer, browse to <i>C: \Program Files(x86) \Honeywell \Experion PKS\Utilities\NTP_setup</i> and double-click ntpconfig.exe . The User Account Control dialog box appears.
2	Click Yes .

4. Post installation tasks

4.5. Set up time synchronization

Step	Action
	The NTP Server Configuration dialog box appears.
3	Select Disable All NTP Configuration .
4	Click Change/Configure Client . After several dialog boxes appear, the NTP client configuration methods should be NT5DS.
5	Click Exit .

5. Optional features

5.1 Installing optional features



ATTENTION

If any on the following optional features are not installed on your system, refer to the procedures in this section, to install them.

Installing the Experion ODBC client

Step	Action
1	Insert the Experion HS installation media in the disk drive.
2	Using Windows Explorer, browse to the <i><Install Media>\Packages\serverClient\ODBC_Client</i> folder.
3	Double-click odbc_client.msi .
4	Follow the on-screen instructions to proceed with the installation. The InstallShield Wizard Completed dialog box appears.
5	Click Finish .

Installing the OPC Server Connect package

Step	Action
1	Insert the Experion HS installation media in the disk drive.
2	Using Windows Explorer, browse to the <i><Install Media>\Packages\serverClient\OPC_Server_Connect</i> folder.
3	Double-click OPC_server_connect.msi .
4	Follow the on-screen instructions to proceed with the installation. The InstallShield Wizard Completed dialog box appears.
5	Click Finish .

5. Optional features

5.1. Installing optional features

Installing the Workstation Security package

Step	Action
1	Insert the Experion HS installation media in the disk drive.
2	Using Windows Explorer, browse to the <i><Install Media>\Packages\WorkstationSecurity</i> folder.
3	Double-click Honeywell security model - workstation.msi .
4	Follow the on-screen instructions to proceed with the installation. The InstallShield Wizard Completed dialog box appears.
5	Click Finish .

Installing the Domain Controller Security package in Domain Controller

Step	Action
1	Insert the Experion HS installation media in the disk drive.
2	Using Windows Explorer, browse to the <i><Install Media>\Packages\DCSecurity</i> folder.
3	Double-click Honeywell security model – domain controller.msi .
4	Follow the on-screen instructions to proceed with the installation. The InstallShield Wizard Completed dialog box appears.
5	Click Finish .

Installing IKB/OEP Keyboard

Step	Action
1	Insert the Experion HS installation media in the disk drive.
2	Using Windows Explorer, browse to the <i><Install Media>\Packages\IKBService\</i> .
3	Double-click honeywell_ikb_service.msi .
4	Follow the on-screen instructions to proceed with the installation.

Step	Action
	The InstallShield Wizard Completed dialog box appears.
5	Click Finish .

Installing Redirection Manager

Step	Action
1	Insert the Experion HS installation media in the disk drive.
2	Using Windows Explorer, browse to the <Install Media>\Packages\ <i>RedirectionManager</i> \.
3	Double-click honeywell_redirection_manager_standalone.msi .
4	Follow the instructions on-screen to proceed with the installation. The InstallShield Wizard Completed dialog box appears.
5	Click Finish .

5. Optional features

5.1. Installing optional features

6. Supplementary tasks

6.1 Download and install Microsoft updates

Refer to the *Experion HS R410 SCN* for information on downloading and installing the Microsoft updates.

6.2 Configure Experion HS in a domain (Optional)

Adding a computer to a domain



ATTENTION

- This procedure is applicable for adding a computer to Windows 2008 Server domain controller.
- If the domain controller is Windows Server 2008 or later, ensure to turn off Windows firewall before adding the nodes to the domain. For more information, refer to <http://support.microsoft.com/kb/555381>.

Step	Action
1	Log on to the computer.
2	On the Start menu, right-click Computer and then click Properties .
3	Under Computer name, domain and workgroup settings , click the Change settings . The System Properties dialog box appears.
4	On Computer Name tab, click Change . The Computer Name/Domain Changes dialog box appears.
5	Click Domain , and then type the name of the domain.




ATTENTION

Do not change the Experion server computer name after the software installation.

6. Supplementary tasks

6.2. Configure Experion HS in a domain (Optional)

Step	Action
6	Click OK . The Computer Name Changes dialog box appears.
7	Type the User name and Password of the user account that has enough privileges to join a Computer to the domain.
	 TIP This user account is typically a member of the Domain Admins user group in the domain controller.
8	Click OK . Wait until you receive a message welcoming you to the domain.
9	Click OK in the message box. The system prompts you to restart.

Run LinkDomainGroups.vbs script

Perform the following steps, if the server is member of a domain, in which Experion High Security Policy is installed.

Step	Action
Perform steps 1 through 4 only in the domain controller	
1	Insert the Experion HS installation media in the disk drive of the domain controller node.
2	Using Windows Explorer, browse to the <code>\Packages\DCSecurity</code> folder and double-click Honeywell security model – domain controller.msi .
3	Follow the instructions on-screen to proceed with the installation. The InstallShield Wizard Completed dialog box appears.
4	Click Finish .
Perform steps 5 through 8 in the Experion nodes that are added to the domain	
5	Click Start > All Programs > Accessories .
6	Right-click Command Prompt and then click Run as an Administrator .

Step	Action
	The UAC dialog box appears.
7	Click Continue .
	The Command Prompt appears.
8	Type the following and press ENTER . <code>cd C:\Program Files(x86)\Honeywell\WkStaSecurity</code> The Command prompt displays the following path: <code>C:\Program Files(x86)\Honeywell\WkStaSecurity</code>
9	To link the domain groups, type the following command and press ENTER . <code>LinkDomainGroups.vbs</code>
10	Click OK in the confirmation dialog box and then follow the on-screen instructions to complete the configuration.

6.3 Protect against virus

Antivirus software must be installed on all the Experion HS systems. Refer to the [Software requirements](#) section, for a list of antivirus programs qualified by Honeywell.

Configuring antivirus software guidelines

Configure the antivirus software to exclude the following directories and the subdirectories from the virus scan.

- C:\ProgramData\Honeywell

Configuring McAfee VirusScan

McAfee VirusScan has the capability to scan scripts in HMIWeb displays. This functionality can slow display call-up, as well as lead to memory leaks.

Step	Action
1	Right-click the McAfee icon in the notification area.
2	Click VirusScan Console . If the VirusScan console is not available in the notification area, then browse to <code>C:\Program Files(x86)\McAfee\VirusScan Enterprise</code> and then run <code>shcfg32.exe</code> .

6. Supplementary tasks

6.4. Backup and Restore

Step	Action
3	If the User Account Control dialog box appears, click Yes .
4	Double-click On-Access Scanner , and then click the ScriptScan tab.
5	Clear Enable scanning of scripts check box and then click Apply .
6	Click Default Processes in the left pane, and then click the Exclusions tab.
7	Click Exclusions .
8	Click Add .
9	Click Browse and then browse to the <i>C: \ProgramData \Honeywell</i> directory.
10	Click OK .
11	Select the Also exclude subfolders check box and then click OK to close the dialog boxes.
12	Close all the open dialog boxes.

6.4 Backup and Restore

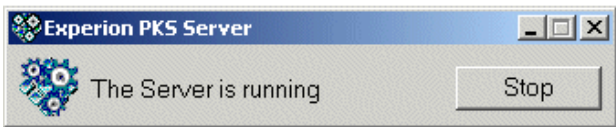
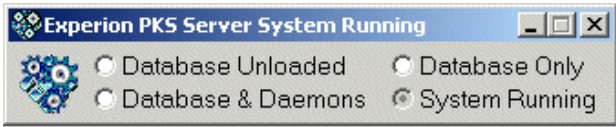
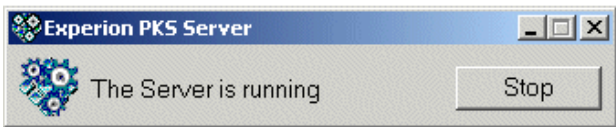
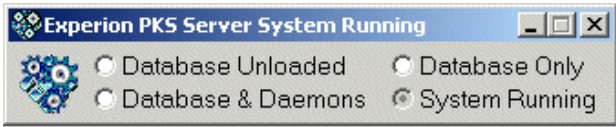
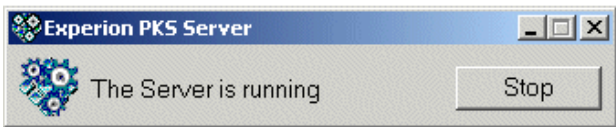
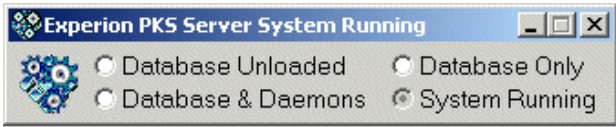
For information on backup and restore, refer to the *Experion HS R410 Backup and Restore* guide.

6.5 Start and stop the server



ATTENTION

The process must be controlled to a safe state before stopping the Experion HS server.

Step	Action						
1	<p>Click Start > All Programs > Honeywell Experion PKS > Server > Start-Stop Experion PKS Server.</p> <p>The User Account Control dialog box appears.</p>						
2	<p>Click Yes.</p> <p>The Experion PKS Server dialog box appears.</p> <table><tr><th>Mode</th><th></th></tr><tr><td>Simple</td><td></td></tr><tr><td>Full</td><td></td></tr></table>	Mode		Simple		Full	
Mode							
Simple							
Full							
3	<p>If the Experion PKS Server dialog box appears in simple mode, click the icon on the upper left of the title bar, and then click Advanced > Full mode.</p>						
4	<p>Three shutdown modes are available in full mode:</p> <p>Database Unloaded, Database Only and Database & Daemons.</p> <p>To stop the server application, click the required mode and then wait for the server state to change. This operation may take several minutes to complete.</p> <p>To start the server application, click System Running and then wait for the server state to change. This operation may take several minutes to complete.</p>						

6. Supplementary tasks

6.6. Change the server configuration

6.6 Change the server configuration



ATTENTION

Changes to the server configuration require a server shutdown.

Step	Action
1	Log on as a user with administrator privileges.
2	Click Start > All Programs > Honeywell Experion PKS > Server > Experion PKS Server Configuration Panel .
3	Click Yes in the User Account Control dialog box.
4	<ul style="list-style-type: none">• To view or change the license details, click View License.• To change the server data paths or printer settings, click Edit. <p>For the changes to take effect, you need to unload the server database, and then return the server to the system running state, refer to the section, Start and stop the server, for more details.</p>
5	To change the history collection rate for fast and standard history: <ul style="list-style-type: none">a) Open station.b) Click Configure > History > History Intervals.c) Change the history collection rate.

6.7 Reinstall Operating System

If there is a need to reinstall the Operating System in any of the nodes, refer to the OEM documentation and then install the Operating System using the OEM media. Before you start the installation, ensure the following:

- Administrator account is disabled
- User Account Control (UAC) is enabled.

7. Maintenance and troubleshooting

7.1 Maintain an ESIS repository

Upgrading an existing ESIS repository



ATTENTION

- You must disable On-Access Scan for your antivirus program prior to upgrading the ESIS setup.
- Ensure that you enable On-Access Scan for your antivirus program after you have upgraded the ESIS.

Step	Action
1	Using Start menu, browse to the ESIS folder and then double-click ESISPrepUtil . The Welcome to ESIS page of ESIS Preparation Utility appears.
2	Click Upgrade Existing ESIS Repository .
3	Click Next .
4	In the ESIS Repository Selection dialog box, <ul style="list-style-type: none">· Select the name of the ESIS repository you want to upgrade and then click Next. Or <ul style="list-style-type: none">a) Click the option Select to browse to an ESIS Repository not listed above to upgrade an ESIS repository that is not listed and that is residing on an external USB hard drive.b) Click Browse to select the location of the ESIS repository.c) Click Next.
5	On the Select Media page, select the check boxes against the names of the media to select the media for ESIS repository creation and then click Start . The Status Display page appears. If My Documents folder opens, close it.
6	After the upgrade is complete, the Description is updated to ESIS Repository [<Name>] created successfully at <Destination Location> .

7. Maintenance and troubleshooting

7.1. Maintain an ESIS repository

Step	Action
7	Click Finish .

Restarting a failed ESIS repository creation

Step	Action
1	Using the Start menu, browse to the ESIS folder and then double-click ESISPrepUtil . The Welcome to ESIS page of ESIS Preparation Utility appears.
2	Click Resume a Failed ESIS Repository Creation .
3	Click Next .
4	In the ESIS Repository Selection dialog box, select the name of the ESIS repository you want to restart/resume.
5	Click Next .
6	On the Select Media page, select the check boxes against the names of the media to select the media for ESIS repository creation and then click Start . The Status Display page appears. If My Documents folder opens, close it.
7	After the restart is complete, the Description is updated to "ESIS Repository [<Name>] resumed successfully at <Destination Location>."
8	Click Finish .

Removing an existing ESIS repository

Step	Action
1	Using the Start menu, browse to the ESIS folder and then double-click ESISPrepUtil . The Welcome to ESIS page of ESIS Preparation Utility appears.
2	Click Remove Existing ESIS Repository .
3	Click Next .

7. Maintenance and troubleshooting

7.1. Maintain an ESIS repository

Step	Action
4	<p>On the Select Media page, select the check boxes against the names of the media to select the media for ESIS repository creation and then click Start.</p> <p>The Status Display page appears.</p> <p>If My Documents folder opens, close it.</p>
5	<p>After deleting the ESIS repository, the Description is updated to "ESIS Repository [<Name>] deleted successfully."</p>
6	<p>Click Finish.</p>

7. Maintenance and troubleshooting

7.2. System tuning and troubleshooting

7.2 System tuning and troubleshooting



REFERENCE – INTERNAL

- For system tuning and troubleshooting information, refer to the *Experion System Administration Guide*.
 - For MLServer interface troubleshooting information, refer to the *MasterLogic Server Integration User's Guide*.
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7.3 Troubleshoot Experion installation failure



ATTENTION

If you want to log on to Windows manually during Experion installation, you must log on with HPSInstall account for which the password is the password of mngr account.

If any error occurs preventing the installation on any node type, perform the following:

Step	Action
1	Click OK to acknowledge the error.
2	Click Yes to cancel the remaining installs.
3	Fix the issue that resulted in the failure of installation.
4	If the fix requires the user to restart the computer, restart and then log on to the computer using HPSInstall account.
5	Restart the setup.exe in the root directory of the installation media, and resume then installation.

If any error occurs preventing multiple users to connect to the same network share, perform the following steps.

Step	Action
1	If any of the Explorer windows having the ESIS UNC path is open, then close all the Explorer windows and then click Next . If this does not work, go to step 2.
2	Right-click My Computer and then select Disconnect Network Drives .
3	From the list, select the ESIS server if present and then click OK to disconnect.
4	Click Next . If this does not work, go to Step 5 .
5	Cancel the installation, log off, log on, and then start the installation. If the error still appears, go to Step 6 .

7. Maintenance and troubleshooting

7.3. Troubleshoot Experion installation failure

Step	Action
6	<ul style="list-style-type: none">a) Click Start > Run and then type <code>control userpasswords2</code>.b) Press ENTER.c) Click Advanced tab > Manage Passwords.d) Select the UNC path and then click Remove.e) Restart your computer and then start the installation.

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