FactoryTalk View Site Edition Installation Guide
Important user information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

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- **Important:** Identifies information that is critical for successful application and understanding of the product.

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# Table of contents

**Preface**
- What's in this manual.................................................................9
- About the FactoryTalk View documentation..........................9
- Contact Rockwell Automation Technical Support.....................10
- Legal Notices.............................................................................11

## Chapter 1
**FactoryTalk View basics**
- About FactoryTalk View SE..........................................................15
  - Architecture of the FactoryTalk View system.........................15
  - FactoryTalk View Studio Enterprise...........................................16
  - FactoryTalk View SE Server.......................................................17
  - FactoryTalk View SE Client.........................................................17
  - FactoryTalk View SE Station.......................................................17
  - FactoryTalk ViewPoint.................................................................18
  - Stand-alone FactoryTalk Linx Server..........................................19
  - Stand-alone FactoryTalk Directory Server...............................19
  - FactoryTalk Services Platform....................................................19
  - Connectivity............................................................................20
  - Installation package ..................................................................21

## Chapter 2
**System requirements**
- What can I install and run on one server?...................................23
  - Review hardware requirements.................................................23
  - Review operating system requirements......................................24
    - Recommendations for application servers..............................25
  - Set up the Windows domain or workgroup..............................26
    - Domain controller requirements............................................27
    - Windows workgroup requirements.........................................27
    - About synchronizing time on application computers...............28
  - Set up computers with names to be used in production.............28

## Chapter 3
**Pre-installation configuration**
- Disable Windows automatic updates.........................................29
- Configure NICs and switch ports..............................................30
  - Set up the NIC link speed and duplex.......................................30
  - Disable power saving for the NIC.............................................31
- Disable or uninstall third-party firewalls...................................31
- Remove Enhanced Security Configuration.................................31
- Set up Data Execution Prevention.............................................33
- Remove unnecessary DCOM networking protocols....................33
Chapter 4

Install FactoryTalk View

Steps ...................................................................................................................................... 35
Step 1: Prepare for the installation .................................................................................... 36
  Decide which components to install ............................................................................... 36
  About FactoryTalk Historian Connectivity .................................................................... 37
Step 2: Launch Setup wizard ............................................................................................. 38
Step 3: Customize product components ........................................................................... 38
Step 4: Review license agreements .................................................................................... 39
Step 5: Start the installation ............................................................................................... 39
Step 6: Complete the installation ....................................................................................... 39
Step 7: Post-installation procedures ................................................................................ 39
  Specify the Network Directory server location ............................................................ 40
  Install SE clients in a distributed system ..................................................................... 41
Modify or uninstall FactoryTalk View ............................................................................. 41

Chapter 5

Activate FactoryTalk View software

About FactoryTalk Activation Manager ............................................................................ 43
What happens if FactoryTalk View is not activated? ..................................................... 43
Set up client computers to obtain floating activations .................................................... 44
Ensure that network application components stay activated ....................................... 44
Borrow activations for development computers ............................................................... 45
Activation keys for FactoryTalk View software components ............................................ 45
  Sharing keys among multiple software components .................................................... 45
  Read-write versus view-only activations .................................................................... 46

Chapter 6

Deploy network distributed applications

Overview of tasks .............................................................................................................. 47
Step 1: Back up the network distributed application ....................................................... 47
  Back up RSLinx Classic configurations ....................................................................... 48
  About FactoryTalk Directory System information ....................................................... 48
Step 2: Restore the network distributed application ........................................................ 49
  Restore RSLinx Classic configurations ....................................................................... 50
Step 3: Renew data server shortcuts, topics, and device paths ......................................... 50
Step 4: Set up additional HMI server properties ............................................................... 51
  Specify the startup type ................................................................................................ 51
  Set up redundancy ........................................................................................................ 51
  Specify startup components ......................................................................................... 51
  Synchronize redundant HMI servers and projects ....................................................... 52
Step 5: Set up FactoryTalk View SE Clients ................................................................. 52
  Create a FactoryTalk View SE Client file ................................................................... 53
  Copy existing FactoryTalk View SE Client files .......................................................... 53
  Lock operators into the run-time environment ............................................................. 53
Step 6: Run FactoryTalk View SE Clients ..................................................................... 54
## Chapter 7

**Deploy network station applications**

Overview of tasks ................................................................................................................ 57  
Step 1: Move the network station application ............................................................. 57  
Step 2: Specify the Network Directory location .......................................................... 58  
Step 3: Move the application’s data server files ............................................................ 59  
  Restore RSLinx Classic configurations .................................................................. 59  
Step 4: Specify data server host computer names ......................................................... 60  
Step 5: Renew data server shortcuts, topics, and device paths ..................................... 61  
Step 6: Specify when HMI server components start or stop ..................................... 61  
  How HMI server components start and stop ....................................................... 62  
Step 7: Set up the FactoryTalk View SE Client ........................................................... 62  
  Create a FactoryTalk View SE Client file ............................................................. 63  
  Lock operators into the run-time environment ................................................... 63  
Step 8: Run the FactoryTalk View SE Client ............................................................... 64  
  Administer deployed applications ......................................................................... 64  

## Chapter 8

**Deploy local station applications**

Overview of tasks ................................................................................................................ 67  
Step 1: Move the local station application .................................................................... 67  
Step 2: Move data servers and change their properties ............................................... 68  
  Restore RSLinx Classic configurations .................................................................. 69  
Step 3: Specify OPC data server host computer names .............................................. 69  
Step 4: Specify when HMI server components start or stop ..................................... 70  
  How HMI server components start and stop ....................................................... 70  
Step 5: Set up the FactoryTalk View SE Client ........................................................... 71  
  Create a FactoryTalk View SE Client file ............................................................. 71  
  Lock operators into the run-time environment ................................................... 72  
Step 6: Run the FactoryTalk View SE Client ............................................................... 72  
  Administer deployed applications ......................................................................... 73  

## Chapter 9

**Upgrade operating network distributed applications**

Find out about new features ............................................................................................. 76  
Upgrade a non-redundant network distributed application ..................................... 76  
  Example .................................................................................................................. 77  
Part 1: Prepare for the upgrade.................................................................................... 77  
  Step 1: Prepare for the upgrade ............................................................................ 77  
    Log on with administrative rights ..................................................................... 77  
    Record the names and passwords of administrative users ........................... 78  
    Perform set-up tasks on application computers ........................................... 78  
  Step 2: Back up the deployed application ............................................................... 78  
Part 2: Perform upgrade of software components .................................................... 78  
  Step 3: Shut down all client computers ................................................................ 78  
  Step 4: Upgrade the FactoryTalk Directory server ............................................. 79
Step 5: Upgrade the HMI server ................................................................. 79
Step 6: Upgrade the data server ................................................................. 79
Step 7: Upgrade the engineering workstation ........................................ 80
Step 8: Migrate the application ................................................................. 80
  Open the application ............................................................................. 80
  Verify FactoryTalk Linx shortcuts ....................................................... 80
  Test the migrated application .............................................................. 81
Step 9: Upgrade all run-time clients .................................................. 81
Step 10: Test the migrated application ................................................ 81
  Run the migrated application on upgraded clients .......................... 81
  Verify that the system is functioning as expected .......................... 81
Upgrade a redundant network distributed application .................... 82
  Example ................................................................................................. 82
Part 1: Prepare for the upgrade ............................................................. 83
  Step 1: Prepare for the upgrade .......................................................... 83
    Log on with administrative rights ................................................... 83
    Record the names and passwords of administrative users .......... 84
    Perform set-up tasks on application computers ......................... 84
    Ensure that the latest application files are on the primary server  84
  Step 2: Back up the application on Server #1 .................................... 84
Part 2: Set up a temporary system and perform a partial upgrade ........ 85
  Step 3: Set up a temporary upgrade system ...................................... 85
    Disable HMI and data server redundancy in the original application 86
    Copy the archive file to Server #2 .................................................. 86
    Specify Server #2 as the Network Directory location .................. 86
    Restore the application on Server #2 as the primary server .......... 86
    Specify Server #2 as the Network Directory location for Workstation #1
    Disable redundancy on Server #2 .................................................. 87
    Disable alarm and event history logging ....................................... 87
  Step 4: Upgrade Server #2 ................................................................. 88
  Step 5: Upgrade Workstation #1 ........................................................ 88
  Step 6: Migrate the application .......................................................... 88
    Open the application ........................................................................ 88
    Verify FactoryTalk Linx shortcuts .................................................. 89
    Test the migrated application ......................................................... 89
  Step 7: Upgrade selected run-time clients ....................................... 89
    Install FactoryTalk View SE Client ................................................. 89
    Specify Server #2 as the Network Directory location on client computers
    ................................................................................................................................ 90
  Step 8: Test the migrated application ................................................ 90
    Start Server #2 and wait for it to finish starting ......................... 90
    Run the migrated application on upgraded clients ....................... 91
    Verify that the system is functioning as expected ....................... 91
Part 3: Upgrade remaining clients and restore redundancy .................. 91
  Step 9: Upgrade remaining client computers ................................... 91
  Step 10: Test the migrated application ............................................... 91
    Install FactoryTalk View SE Client ................................................. 91

### Specify Server #2 as the Network Directory location on client computers

<table>
<thead>
<tr>
<th>Step 10: Upgrade Server #1</th>
<th>92</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install FactoryTalk View SE Server on Server #1</td>
<td>92</td>
</tr>
<tr>
<td>Specify Server #2 as the Network Directory for Server #1</td>
<td>92</td>
</tr>
<tr>
<td>Step 11: Restore redundancy and finish upgrading</td>
<td>93</td>
</tr>
<tr>
<td>Enable HMI and data server redundancy</td>
<td>93</td>
</tr>
<tr>
<td>Enable alarm and event history logging</td>
<td>93</td>
</tr>
<tr>
<td>Confirm the status of primary and secondary servers</td>
<td>94</td>
</tr>
<tr>
<td>Start all run-time clients</td>
<td>94</td>
</tr>
</tbody>
</table>

### Appendix A

#### FactoryTalk View tools and utilities

<table>
<thead>
<tr>
<th>FactoryTalk View tools</th>
<th>95</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryTalk tools</td>
<td>96</td>
</tr>
</tbody>
</table>

### Appendix B

#### Common upgrade procedures

<table>
<thead>
<tr>
<th>Install product updates</th>
<th>99</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update from the product</td>
<td>99</td>
</tr>
<tr>
<td>Update from Rockwell Automation Knowledgebase</td>
<td>100</td>
</tr>
</tbody>
</table>

### Appendix C

#### Install Microsoft IIS

<table>
<thead>
<tr>
<th>Manually install IIS</th>
<th>101</th>
</tr>
</thead>
<tbody>
<tr>
<td>About uninstalling IIS</td>
<td>104</td>
</tr>
</tbody>
</table>

### Appendix D

#### Use command-line installation

<table>
<thead>
<tr>
<th>Perform command-line installation</th>
<th>105</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command-line parameters</td>
<td>105</td>
</tr>
<tr>
<td>Examples</td>
<td>108</td>
</tr>
</tbody>
</table>

### Appendix E

#### Troubleshoot KEPServer Enterprise

| Set DCOM configuration for KEPServer Enterprise | 111 |
Preface

What’s in this manual

This manual describes the FactoryTalk View product and system, the tasks to be performed on a system before installation, the detailed installation steps, how to use FactoryTalk Activation to license the installed product, tasks for deploying applications, and how to upgrade an existing system.

Tip: The steps or illustrations in this manual may vary depending on your operating systems.

The manual is available in PDF format, from the Help menu in FactoryTalk View Studio, from the FactoryTalk View installation package, and from the Rockwell Automation Literature Library. Adobe Reader may be required to view the manual. For information about using Adobe Reader, see the product documentation.

Tip: In the Literature Library, to find the current version, search for publication numbers containing the string VIEWSE.

The contents of this Installation Guide appear in the order you would use during installation on new or existing systems:

- FactoryTalk View basics describes the software components and layout of the system (Chapter 1).
- Hardware, operating system and domain information identifies requirements for the computers and operating systems (Chapter 2).
- Preparing for installation gives you the information you need to get your computer systems ready for a new installation or an upgrade (Chapter 3).
- Installation procedures walk you through the screens you will see during a complete installation (Chapter 4).
- Activating the software is required to get software license information onto all the computers in your system (Chapter 5).
- Deploying new applications covers several deployment types you may need (Chapter 6, 7, and 8).
- Upgrading existing applications if you already have an installed HMI application and are upgrading to the latest version of FactoryTalk View (Chapter 9).

About the FactoryTalk View documentation

In addition to FactoryTalk View Installation Guide, the FactoryTalk View documentation set includes:

The manual is available in PDF format, from the Help menu in FactoryTalk View Studio, from the FactoryTalk View installation package, and from the Rockwell Automation Literature Library.

- **Release Notes.** Read the Release Notes before you begin installing or working with FactoryTalk View and supporting software.

  The Release Notes are available from the FactoryTalk View installation package, the Setup Wizard, or the Help menu in FactoryTalk View Studio.

- **Help.** Procedures and reference information are available from the Help menu in FactoryTalk View Studio, and from editors and dialog boxes used to develop FactoryTalk View SE applications.

### Other documents

<table>
<thead>
<tr>
<th>Document</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryTalk Alarms and Events System Configuration Guide, publication FTAE-RM-001</td>
<td>Describes the tasks to install, configure, and use FactoryTalk Alarms and Events services as part of a FactoryTalk-enabled automation system.</td>
</tr>
</tbody>
</table>

**Contact Rockwell Automation Technical Support**

If you have questions about the product, consult the manuals, Help, or Release Notes.

You can also search for technical notes, application tips, solutions to common problems, and the latest patches from Rockwell Automation Knowledgebase [http://rockwellautomation.custhelp.com](http://rockwellautomation.custhelp.com).

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- Customer support telephone: 1-440-646-3434
- Online support: [http://www.rockwellautomation.com/support](http://www.rockwellautomation.com/support)

Support staff are available Monday to Friday from 8:00 to 17:00 local time (North America only), except on statutory holidays.

When you call, it is recommended that you be at your computer and ready to provide the following information:

- the product serial number and product key.
- the product version number.
- the type of hardware you are using.
- the names of Rockwell Automation products installed on the computer.
• the exact wording of any messages that appeared on your screen.
• a description of what happened and what you were doing when the problem occurred.
• a description of how you tried to solve the problem.

If you are running a FactoryTalk View SE network distributed application, also note:

• how many computers are participating in the network application.
• whether computers on the network are connected using a Windows domain controller or a workgroup.
• which FactoryTalk View SE components are installed on participating computers.
• which computers are running servers (the Network Directory server, HMI servers, data servers, or tag alarm and event servers), and whether the servers are set up with redundancy.
• which computers are running clients (FactoryTalk View SE Client or FactoryTalk View Studio).

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Environmental compliance


Contact Rockwell Automation

Customer Support Telephone — 1.440.646.3434

Online Support — http://www.rockwellautomation.com/support/
Chapter 1

FactoryTalk View basics

FactoryTalk View, including FactoryTalk View Site Edition (SE) and FactoryTalk View Machine Edition (ME), are human-machine interface (HMI) software products designed with a common look, feel, and navigation to help speed HMI application development and training time.

Supporting the Rockwell Automation Integrated Architecture, FactoryTalk View is part of the scalable and unified suite of monitoring and control solutions designed to span stand-alone machine-level applications up through supervisory-level HMI applications across a network. This suite offers you a common development environment, application reuse, and architecture so you can increase productivity, reduce operation costs, and improve quality.

FactoryTalk View includes the PC-based development tool FactoryTalk View Studio as well as FactoryTalk View ME and FactoryTalk View SE.

About FactoryTalk View SE

FactoryTalk View Site Edition (SE) is an integrated software package for developing and running human-machine interface (HMI) applications that can involve multiple users and servers, distributed over a network.

As a member of the FactoryTalk View family of products, FactoryTalk View SE provides all the tools you need to create powerful, dependable process monitoring and supervisory control applications.

A FactoryTalk View SE system is more than the HMI server and clients. It also includes FactoryTalk Services Platform and data communication products such as FactoryTalk Linx and RSLinx Classic.

Architecture of the FactoryTalk View system

A network distributed FactoryTalk View SE system consists of several components as shown below.
FactoryTalk View SE network distributed system

This example of a distributed system includes a FactoryTalk Directory server, FactoryTalk View SE server and client, FactoryTalk Linx data server, and FactoryTalk View Studio for application development and configuration.

FactoryTalk View Studio Enterprise

FactoryTalk View Studio Enterprise is the configuration software for developing and testing FactoryTalk View SE network distributed, network station, local station, and FactoryTalk View ME applications.
FactoryTalk View Studio is the design-time environment for FactoryTalk View that provides the editors and tools you need to develop and test network distributed, network station, and local station human-machine interface (HMI) applications. It contains editors for creating complete applications, and contains client and server software for testing the applications you create.

**FactoryTalk View SE Server**

FactoryTalk View SE Server, also called the HMI server, stores HMI project components (for example, graphic displays) and supplies them to clients. The server also contains a database of tags, and performs historical data logging. FactoryTalk View SE Server has no user interface. Once installed, it runs as a set of headless Windows services that supply information to clients as they request it.

**FactoryTalk View SE Client**

FactoryTalk View SE Client is software for viewing and interacting with FactoryTalk View SE local station, network station, and network distributed applications at run time. Use the FactoryTalk View SE Client Wizard to create client configuration files that can be deployed to client host computers.

**FactoryTalk View SE Station**

FactoryTalk View SE Station is a supervisory HMI software package for enterprise solutions. SE Station is a single-computer HMI that can be operated in either a Local or a Network FactoryTalk Directory. There are key differences between View SE Distributed and View SE Station:

- View SE Distributed can share HMI screens and data with multiple clients.
- View SE Station does not allow sharing of HMI screens or data to other View SE Stations.
FactoryTalk View SE network station system

Several different computers, each hosting a FactoryTalk View SE network station, can use a single FactoryTalk Directory server and a single FactoryTalk Linx communication server. While each network station HMI can access the same controller data, through the shared FactoryTalk Linx server, and the same directory resources through the shared FactoryTalk directory server, they can only access their own HMI data such as graphics, macros, and datalogs.

FactoryTalk View SE local station system

A local station system can include several HMI computers, each with its own FactoryTalk Directory server and data server connection to the controllers.

FactoryTalk ViewPoint

FactoryTalk ViewPoint is an add-on to FactoryTalk View that provides for a fully scalable, fully animated, read-and-write view of existing Site Edition (SE) and Machine Edition (ME) web applications from a web browser.

A web application consists of graphic displays selected from the FactoryTalk View application, converted for viewing in a web browser, and then published to a FactoryTalk ViewPoint Server (also called the web server).
For Site Edition applications, the FactoryTalk ViewPoint Server runs on a desktop or server computer.

For Machine Edition applications, a PanelView™ Plus operator terminal functions as the server.

**Stand-alone FactoryTalk Linx Server**

FactoryTalk Linx is a FactoryTalk Live Data server and can be enabled as a FactoryTalk Alarms and Events server. Your applications use FactoryTalk Linx to communicate with devices such as controllers and I/O scanners. This enables you to see values, such as sensor readings and other controller data from your plant floor devices, on your desktop computer or dedicated PanelView Plus terminal.

**Stand-alone FactoryTalk Directory Server**

FactoryTalk Directory provides a central lookup service for a FactoryTalk system so all definitions do not have to exist in a single physical project file. References saved by FactoryTalk Directory are used by FactoryTalk-enabled products and FactoryTalk services to locate definitions when they are needed. It allows clients to locate key configuration information such as system organization, server locations, and policy information. FactoryTalk Directory provides a common address or phone book of factory resources that are shared among FactoryTalk-enabled applications in a distributed system.

**FactoryTalk Services Platform**

FactoryTalk Services Platform provides a set of common services (such as diagnostic messages, health monitoring services, and access to real-time data) for all the FactoryTalk products and applications used in a control system.

FactoryTalk Services Platform is installed automatically with any FactoryTalk-enabled product.

**FactoryTalk Administration Console**

FactoryTalk Administration Console is a stand-alone tool for developing, managing, and securing multiple FactoryTalk View applications.

**FactoryTalk Directory**

The FactoryTalk Directory centralizes access to system resources and names for all FactoryTalk products and components participating in an automated control system.


**FactoryTalk Alarms and Events**

FactoryTalk Alarms and Events, which installs behind the scenes during FactoryTalk View SE installation, provides system-wide alarm monitoring and control centralized at the FactoryTalk Directory.
To distribute device- and tag-based alarms in a FactoryTalk View SE application, you can set up FactoryTalk Alarms and Events servers in the application.

**FactoryTalk Security**

FactoryTalk Security centralizes user authentication and authorization at the FactoryTalk Directory.

**FactoryTalk Live Data**

FactoryTalk Live Data manages connections between FactoryTalk products and data servers.

**FactoryTalk Diagnostics**

FactoryTalk Diagnostics collects and provides access to activity, status, warning, and error messages generated throughout a FactoryTalk system.

**FactoryTalk Activation**

FactoryTalk Activation services provide a secure, software-based system for activating Rockwell Software products and managing software activation files.

How you plan to obtain data for an application will determine which communications software you install.

You can use FactoryTalk Linx, RSLinx Classic, or other software and devices that support OPC (OLE for Process Control) communications.

**Tip:** FactoryTalk Linx is automatically installed for FactoryTalk View applications.

**FactoryTalk Linx**

FactoryTalk Linx is a communication server built around FactoryTalk technology to assist in developing and running your FactoryTalk View SE applications.

For communications with Allen-Bradley local and remote devices, particularly with Logix 5000™ controllers, FactoryTalk Linx is the recommended data communications software for FactoryTalk View applications.

FactoryTalk Linx now allows you to create redundant controller shortcuts and to perform online tasks such as uploading and downloading Logix 5000 files.

**RSLinx Classic**

RSLinx Classic is a complete 32-bit product family that links Allen-Bradley networks and devices to Microsoft Windows applications. These range from
device programming and configuration applications to HMI applications, to your own data acquisition applications using Microsoft Office, Web pages, or Visual Basic.

RSLinx Classic also incorporates advanced data optimization techniques and contains a set of diagnostics. RSLinx Classic is an OPC DA (Data Access) Compliant Server and a DDE server.

For example, install and use RSLinx Classic to serve data through DH+ (Data Highway +) networks, to support complex bridging and routing, and to support unsolicited messaging from a controller to RSLinx.

RSLinx Classic also allows you to create alias topic shortcuts, and to perform online tasks such as uploading and downloading RSLogix 5000 files.

The FactoryTalk View installation package provides all the software you need to develop and run local applications confined to a single computer, or distributed control systems that involve several computers, connected over a network.

Depending on needs, the architecture of a FactoryTalk View distributed application can involve multiple clients and servers that represent different parts of your plant or process.

The Setup wizard offers the following options for FactoryTalk View SE applications:

- Studio Enterprise
- Site Edition Server
- Site Edition Client
- Site Edition Station
- FactoryTalk ViewPoint SE
- Stand-alone FactoryTalk Linx Server
- Stand-alone FactoryTalk Directory Server

The Setup wizard offers the following options for FactoryTalk View ME applications:

- Studio for Machine Edition
- Machine Edition Station for Windows
- Stand-alone ME Transfer Utility
System requirements

This chapter introduces computer and Microsoft Windows support information for a FactoryTalk View SE system, including:

- Review computer hardware requirements on page 23
- Review operating system requirements on page 24
- Set up Windows domain or workgroup on page 26
- Set up computers with names to be used in production on page 28

What can I install and run on one server?

In a network application, it is possible for a single server computer that meets the recommended requirements to host all of the following components:

- One FactoryTalk View SE Server
- One FactoryTalk Linx data server (which can also be set up as FactoryTalk Alarms and Events device-based alarm server)
- One RSLinx Classic server (or some other OPC data server)
- One FactoryTalk Alarms and Events Tag based alarm Server
- The FactoryTalk Network Directory

If a network application requires multiple HMI servers, data servers, or alarm servers, to distribute the load, it is recommended that you install the necessary software and run the servers on multiple host computers.

Running more than one HMI server on a single computer is not recommended. If you plan to deploy a network distributed application that uses more than two servers (or two pairs of redundant servers) and more than 20 clients, or if you would like architectural assistance, contact your local Rockwell Automation Sales office for architectural assistance.

For information about setting up redundant FactoryTalk View SE servers, see FactoryTalk View Site Edition User’s Guide.

Review hardware requirements

The computer hardware you choose to install and operate your FactoryTalk View SE System should be adequately sized for the demands of each component. These specifications are based on the hardware that the FactoryTalk View product and
its supported operating systems require.

Typically, application servers such as FactoryTalk View SE Server, FactoryTalk Alarms and Events, and FactoryTalk Linx will need to be sized with faster CPUs and more RAM than operator or engineering workstations. The greater the demand, the more powerful a system you need.

You should also specify a hard drive that has enough disk space to provide virtual memory that is at least twice the size of the physical RAM.

For the optimal performance of FactoryTalk View SE applications, the personal computer is recommended to meet or exceed the following hardware requirements.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>CPU</th>
<th>RAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Workstation</td>
<td>FactoryTalk View SE Client or FactoryTalk View SE Station</td>
<td>Intel® Core™ i5 Standard Power processor</td>
<td>4 GB</td>
</tr>
<tr>
<td>Engineering Workstation</td>
<td>FactoryTalk View Studio Enterprise RSLinx Classic FactoryTalk Linx Studio 5000</td>
<td>Intel Core i5 Standard Power processor</td>
<td>8 GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium to larger systems: Quad core Intel Xeon family processor</td>
<td>8 GB</td>
</tr>
</tbody>
</table>

**Review operating system requirements**

The choices you make will depend in part on whether the computer is to host an application client or server. You might choose to run operator or engineering workstations in a Windows Server operating system, but that is not required.

Recommended specifications for application servers are not as flexible, because server computers are more likely to host critical components and to handle more of the processing load in a FactoryTalk View SE application.

FactoryTalk View SE is tested on operating systems installed from original Microsoft media only. FactoryTalk View SE runs on either the 32-bit or 64-bit versions of the following Windows operating systems:

- Windows 10 Enterprise*
- Windows 10 Professional*

See the *Windows Lifecycle FAQ* and *Windows as a Service (WaaS)* topics on the Microsoft® Web site for details regarding servicing requirements and other important information.
• Windows 10 Semi-Annual Channel v1709, v1803, and v1809
  Windows 10 Semi-Annual Channel is governed by the Microsoft *Modern Lifecycle Policy*. Refer to the Microsoft Web site for details.

• Windows 10 IoT Enterprise 2016 Long-Term Servicing Channel
  Windows 10 Long-Term Servicing Channel is governed by the Microsoft *Fixed Lifecycle Policy*. Refer to the Microsoft Web site for details.

• Windows 10 IoT Enterprise 2016 Long Term Servicing Branch (LTSB) Embedded**

• Windows Embedded 8.1 Industry Pro

• Windows 7 Ultimate with Service Pack 1

• Windows 7 Enterprise with Service Pack 1

• Windows 7 Professional with Service Pack 1

• Windows Server 2016 Standard*

• Windows Server 2016 Datacenter*

• Windows Server 2012 Standard

• Windows Server 2012 Datacenter

• Windows Server 2012 R2 Standard

• Windows Server 2012 R2 Datacenter

• Windows Server 2008 R2 Standard with Service Pack 1

• Windows Server 2008 R2 Enterprise with Service Pack 1

* For more information, see [Answer ID 964391](#) for Windows 10 support and [Answer ID 991031](#) for Windows Server 2016 support in the Rockwell Automation Knowledgebase.

** This operating system is supported with the Allen-Bradley® 61xx family of industrial computers and CompactLogix™ 5480 family of controllers.

**Recommendations for application servers**

For computers hosting application servers (HMI servers, data servers, or Tag Alarm and Event Servers), operating system requirements depend on whether the server will support more or fewer than 10 client connections.

A client can be any of FactoryTalk View SE Client, FactoryTalk View Studio, the FactoryTalk View SE Administration Console, a FactoryTalk Historian SE connector, a FactoryTalk Transaction Manager connector, or another FactoryTalk View SE Server.

For application servers that support:
• **More than 10 client connections**, the recommended operating systems (with the appropriate number of Client Access Licenses installed)
  - Windows Server 2016 Standard
  - Windows Server 2016 Datacenter
  - Windows Server 2012 R2 Standard
  - Windows Server 2012 R2 Datacenter
  - Windows Server 2012 Standard
  - Windows Server 2012 Datacenter
  - Windows Server 2008 R2 Standard with Service Pack 1
  - Windows Server 2008 R2 Enterprise with Service Pack 1

• **10 or fewer client connections**, the minimum requirement is
  - Windows 10 Enterprise
  - Windows 10 Professional
  - Windows 7 Ultimate with Service Pack 1
  - Windows 7 Enterprise with Service Pack 1
  - Windows 7 Professional with Service Pack 1

  **Note**: Do not run the primary and secondary servers in a redundant server pair on the computers that have different operating systems. For example, do not run the primary server on a Windows Server 2008 R2 computer and the secondary server on a Windows Server 2012 computer.

**Set up the Windows domain or workgroup**

The number of computers participating in a FactoryTalk View SE network application determines whether the computers can belong to a Windows domain or a workgroup.

Workgroups can be used only in applications that include 10 or fewer computers. Do not use Windows Workgroups with more than 10 computers, a Windows domain is recommended in that case.

For more information about setting up domains and workgroups, see the document, *FactoryTalk View SE Distributed System Design Considerations*, attached to Rockwell Automation Knowledgebase [Answer ID 32549](#).

- A domain controller makes it possible to administer the network and user accounts from a central location. FactoryTalk Security, which manages centralized security services, supports Windows-linked accounts that are managed and authenticated by the Windows operating system, but have separate permissions for accessing the automation system.
• Name resolution is required for the computers to communicate with each other on the network.

• All computers participating in a single FactoryTalk system must be members of the same Windows domain.

• Do not locate the domain controller on the same computer as any FactoryTalk software. Microsoft recommends against third party software being installed on a domain controller.

For network applications consisting of more than 10 computers, the use of a domain controller is strongly recommended, but not required. The following domain controllers are supported:

- Windows Server 2016 Standard
- Windows Server 2016 Datacenter
- Windows Server 2012 Datacenter
- Windows Server 2012 R2 Datacenter
- Windows Server 2012 Standard
- Windows Server 2012 R2 Standard
- Windows Server 2008 R2 Standard with Service Pack 1
- Windows Server 2008 R2 Enterprise with Service Pack 1

For more information about Windows operating systems and Service Pack compatibility, see Rockwell Automation Knowledgebase Answer ID 20450.

Note: Do not install FactoryTalk Directory, FactoryTalk View SE Server, or any other application software on the same computer as the Windows domain controller. This configuration is not supported.

Windows workgroup requirements

For network distributed applications consisting of 10 computers or fewer, FactoryTalk View SE can be used in a Windows workgroup network environment.

- Name resolution is required for the computers to communicate with each other on the network.

- Workgroups do not use a domain controller, so central network administration is not available. This means that security and network communications (for example, name resolution) must be handled at each individual computer in the workgroup.
Each workstation in a workgroup must have the same user accounts, with the same user names and passwords on each machine, for all machines participating in a client-server environment.

All users in a workgroup should have Administrative rights assigned to them.

FactoryTalk Directory provides centralized security services without requiring a Windows Server and domain controller. When setting up security for applications in a Windows workgroup, it is recommended that you use the FactoryTalk Directory user accounts. This simplifies account management, by centralizing security services at the FactoryTalk Directory.

In a networked system, to ensure that time stamps on alarms, historical data, and diagnostics are accurate, it is highly recommended that time synchronization be configured on all application computers.

For more information about synchronizing application computer clocks to an authoritative time server, see FactoryTalk View SE Design Considerations, attached to Rockwell Automation Answer ID 32549.

When you install the FactoryTalk Services Platform with FactoryTalk View SE, the program creates a FactoryTalk account for the current computer, under the Local and Network FactoryTalk Directories.

As a result, if you rename the computer after installing FactoryTalk View SE or when you deploy an application, the FactoryTalk Directory will not recognize the new name.

To avoid this problem, it is recommended that you give the application client and server host computers the names they will use in a production setting, before you install the FactoryTalk View SE software.

Tip: If you must rename a computer and you encounter problems, for assistance, see Rockwell Automation Answer ID 35169 (for FactoryTalk View SE network applications), or Answer ID 38775 (for FactoryTalk View SE local and ME applications).
Chapter 3

Pre-installation configuration

This chapter guides you through the steps for preparing your computer for installation of the FactoryTalk View SE product and supporting software.

Use the following checklist for preparing the computer for installation:

- Disable Windows automatic updates on page 29
- Manually configure Network Interface Cards and switch ports on page 30
- Disable or uninstall third-party firewalls on page 31
- Remove Internet Explorer Enhanced Security Configuration on page 31
- Set up Data Execution Prevention on page 33 if needed
- Remove unnecessary DCOM networking protocols on page 33

When you install Microsoft Service Pack releases and other Windows operating system updates, you introduce new software that could affect the operation of FactoryTalk View SE components on the computer.

Note: Windows updates should be disabled in all production computers. Updates can cause unexpected behaviors, including shutting down running applications and automatically restarting the computer.

To disable Windows automatic updates:

1. Open the Windows Update window.
2. In the left column, select Change settings.
3. In the Important Updates drop down, select Never check for updates.
4. Select the check box Give me recommended updates the same way I receive important updates.
5. Clear the check box Allow all users to install updates on this computer.

For more information about Windows operating systems and Service Pack compatibility, see Rockwell Automation Knowledgebase Answer ID 20450.
Configure NICs and switch ports

The Network Interface Card (NIC) is the hardware in a computer that lets it connect to other devices on the network. A switch manages traffic on the Ethernet network. Some switches allow ports (physical connections) to be configured individually.

The link speed and duplex settings for network connections can be auto-negotiated (the device determines the best way to communicate), or manually configured (settings are hard coded).

Many NICs also offer a power-saving feature that turns off the network card if it is not being used. This setting sometimes interferes with the ability of the computer to receive data, causing errors such as wireframes, stale data, and other failures. To prevent these errors, disable power saving for your computer’s network interface cards. For details, see Disable power saving for the NIC on page 31.

For FactoryTalk View SE applications, it is recommended that you use managed switches across the control system network and that you manually configure the same link speed and duplex setting for all network connections into the managed switches.

It is also recommended that you manually configure the managed switch ports, using the same settings. To learn how to configure switch ports, see the product documentation provided with the switches you are using.

For an overview of best practices for connecting devices over a network, see the Ethernet Design Considerations Reference Manual document in the Rockwell Automation Literature Library. (Search for publication ENET-RM002.)

Note: If you are using unmanaged switches, the NIC settings must remain auto-negotiated. Connecting an auto-negotiated device to a manually configured device can result in network communication errors and is not recommended.

Set up the NIC link speed and duplex

The steps may vary slightly depending on the Windows operating systems.

1. Open Windows Control Panel, and then click Network and Internet.

2. From the list of categories, select Network and Sharing Center.

3. From the list of Tasks on the left, select Change adapter settings (or Manage network connections).

4. From the list of network connections, right-click Local Area Connection (or Ethernet), and then select Properties.

5. In the Networking tab, click Configure.

6. In the Properties dialog box for the device, click the Advanced tab.
7. From the list of properties for the device, select **Link Speed & Duplex** (or **Speed & Duplex**).

8. From the **Value** list, select the highest possible value for the connection, and then click **OK**.

**Disable power saving for the NIC**

The steps may vary slightly depending on the Windows operating systems.

1. Open Windows Control Panel, and then click **Network and Internet**.

2. From the list of categories, select **Network and Sharing Center**.

3. From the list of **Tasks** on the left, select **Change adapter settings** (or **Manage network connections**).

4. From the list of network connections, right-click **Local Area Connection** (or **Ethernet**), and then select **Properties**.

5. In the **Networking** tab, click **Configure**.

6. In the **Properties** dialog box for the device, click the **Power Management** tab.

7. Clear the **Allow the computer to turn off this device to save power** check box, and then click **OK**.

**Disable or uninstall third-party firewalls**

FactoryTalk View SE is tested and compatible with the built-in Windows firewall. FactoryTalk View SE is not tested with third-party firewalls. We recommend that you not use third-party firewalls because they may cause unexpected results.

Before installing FactoryTalk View SE, disable or uninstall all third-party firewalls on the computer. For details, see the documentation supplied with your firewall product.

**Remove Enhanced Security Configuration**

Internet Explorer Enhanced Security Configuration (ESC) is a group of default security settings for Windows Server 2008 and Windows Server 2012 that protects servers by limiting the ways users can browse Internet and Intranet Web sites on the computer.

If installed on a computer with FactoryTalk View SE software components, the Internet Explorer ESC can interfere with the ability of FactoryTalk View SE Clients to connect to application servers.

To avoid unexpected behavior, it is recommended that you remove the ESC from computers running FactoryTalk View SE.

**To remove ESC in Windows Server 2008 R2:**

1. Select **Start > Administrative Tools > Server Manager**.
2. In the **Server Manager** window, under **Security Information**, click **Configure IE ESC**.

3. In the **Internet Explorer Enhanced Security Configuration** dialog, select **Off** to turn off IE Enhanced Security for Administrators and for users, and then click **OK**.

   ![Server Manager](image)

   ![Internet Explorer Enhanced Security Configuration](image)

   **To remove ESC in Windows Server 2012 or 2016:**

   1. On the Windows taskbar, select the **Server Manager** icon.
2. In the **Server Manager Dashboard** window, on the left side, click **Local Server**.

3. On the right side of the **Local Server** window, under **Properties**, locate **IE Enhanced Security Configuration** and click **On**.

4. In the **Internet Explorer Enhanced Security Configuration** dialog, select **Off** to turn off IE Enhanced Security for Administrators and for users, and then click **OK**.

**Set up Data Execution Prevention**

Data Execution Prevention (DEP) is a Microsoft Windows security feature that is built into the operating system starting with Windows XP and Windows Server 2003. DEP is intended to protect programs and services from viruses and other security threats.

The DEP settings determine which programs and services are covered by DEP protection. On computers running FactoryTalk View SE components, it is recommended that DEP be turned on for essential Windows programs and services only.

**To turn on DEP:**

1. Open Windows Control Panel, select **Control Panel Home > System and Maintenance**.

2. Click **System**.

3. From the list of tasks on the left, select **Advanced system settings**.

4. In the **System Properties** dialog box, click the **Advanced** tab.

5. In the **Advanced** tab, under **Performance**, click **Settings**.

6. In the **Performance Options** dialog box, click the **Data Execution Prevention** tab.

7. Select the option, **Turn on DEP for essential Windows programs and services only**, and then click **OK**.

**Remove unnecessary DCOM networking protocols**

If multiple DCOM protocols are installed and configured on the computer, performance of communications in a FactoryTalk View SE system can be adversely impacted. To ensure that DCOM communications function correctly, and do not affect the performance of the system, remove all protocols other than TCP/IP.

**To remove unnecessary DCOM protocols:**

1. Select **Start > Run**.
2. In the Run dialog box, type `dcomcnfg`, and then click OK.

3. In the Component Services tool, expand Component Services, open the Computers folder, right-click My Computer, and then select Properties.

4. Click the Default Protocols tab. If the DCOM Protocols list shows protocols in addition to TCP/IP, remove those unnecessary protocols. For example, remove the protocol Connection-oriented SPX.
Install FactoryTalk View

The FactoryTalk View installation package provides all the software you need to develop and run distributed systems involving multiple computers on a network, or local applications confined to a single computer using FactoryTalk View SE.

To learn about upgrading an existing version of FactoryTalk View SE, see Upgrade an operating FactoryTalk View SE application on page 75.

To learn about modifying or uninstalling the FactoryTalk View software, see Modify or uninstall FactoryTalk View on page 41.

Steps

Setup wizard installation

This chapter uses the Setup wizard installation method to illustrate the steps. The overall installation process includes:

- Step 1: Prepare for the installation on page 36
- Step 2: Launch Setup wizard and select what to install on page 38
- Step 3: Setup product components on page 38
- Step 4: Review license agreements on page 39
- Step 5: Start the installation process on page 39
- Step 6: Complete the installation on page 39
- Step 7: Post-installation procedures on page 39

In a distributed system, you can also install Site Edition clients through the web browser. For instructions, see Install SE clients in a distributed system on page 41.

Command-line installation

In the command-line installation, you type a specified command line with multiple parameters. During the installation process, instead of prompting you for installation and configuration information interactively, the process follows the parameters specified in the command lines and completes the installation silently. For more information, see Use command-line installation on page 105.
Step 1: Prepare for the installation

To prepare for the installation:

- Ensure that the user installing the software has administrative rights in Windows.
- If installing FactoryTalk View Studio Enterprise, locate the serial number because you will be prompted for it after the installation. Serial numbers are generally on the original packaging of the installation media.
- Schedule downtime for the system if you are upgrading operating applications or replacing computers during the installation.

Decide which components to install

The Setup wizard offers the following options for FactoryTalk View SE applications:

- Studio Enterprise
- Site Edition Server
- Site Edition Client
- Site Edition Station
- FactoryTalk ViewPoint SE
- Stand-alone FactoryTalk Linx Server
- Stand-alone FactoryTalk Directory Server

The option you choose depends on the type of FactoryTalk View SE application or software component you plan to run on the computer and on the design of your control system.

For each selection on the Welcome Screen, the following table shows the mandatory, recommended and optional software components to install.

<table>
<thead>
<tr>
<th>Selected Application</th>
<th>Mandatory</th>
<th>Recommended</th>
<th>Optional</th>
</tr>
</thead>
</table>

¹ Required for FactoryTalk ViewPoint SE and Site Edition Server applications.
² Additional components required for FactoryTalk ViewPoint SE application.
**Site Edition Client**

- Site Edition Client
- FactoryTalk Services Platform
- FactoryTalk Activation Manager
- FactoryTalk Alarms and Events

**Site Edition Station**

- Site Edition Server
- Site Edition Client
- FactoryTalk Services Platform
- FactoryTalk Activation Manager
- FactoryTalk Alarms and Events
- FactoryTalk Linx

**FactoryTalk ViewPoint SE**

- FactoryTalk ViewPoint SE
- Site Edition Client
- FactoryTalk Services Platform
- FactoryTalk Activation Manager
- FactoryTalk Alarms and Events

**Stand-alone FactoryTalk Linx Server**

- FactoryTalk Linx
- FactoryTalk Services Platform
- FactoryTalk Activation Manager
- FactoryTalk Alarms and Events

**Stand-alone FactoryTalk Directory Server**

- FactoryTalk Services Platform
- FactoryTalk Activation Manager

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(1) Site Edition Client is not mandatory if you do not plan to install FactoryTalk ViewPoint SE.

(2) For more information about FactoryTalk Historian Connectivity, see About FactoryTalk Historian Connectivity on page 37.

(3) For more information about FactoryTalk Updater, see Common upgrade procedures on page 99.

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**About FactoryTalk Historian Connectivity**

FactoryTalk Historian Connectivity allows the trending objects to retrieve data from a Historian SE Server or FactoryTalk Historian ME Module. It makes updates to FactoryTalk Administration Console and FactoryTalk View SE Studio to display an Historian icon for FactoryTalk Historian SE when registered. You can use it to create new FactoryTalk Historian SE points from trending objects, and select existing Historian points from Historian SE or Historian ME.

To trend data points from the FactoryTalk Historian SE server, FactoryTalk Historian ME model, or OSIsoft PI Server®, FactoryTalk Historian Connectivity must be installed as a minimum required component with Site Edition Client or Studio Enterprise.

**Tip:** You cannot install FactoryTalk Historian Connectivity on top of FactoryTalk Historian SE.

Before you start using the trending objects with your FactoryTalk Historian SE server, do the following:
• Add the FactoryTalk Historian SE server to the same FactoryTalk Directory as FactoryTalk View SE computers.

• Create a mapping or trust for security between FactoryTalk View SE and FactoryTalk Historian SE.

For detailed instructions, see Appendix D, FactoryTalk View SE TrendX, in the FactoryTalk Historian SE Installation and Configuration Guide.

**Step 2: Launch Setup wizard**

To launch the Setup wizard and select the product to install:

1. Close all open Windows programs.

2. From the installation package, double-click Setup.exe.

3. On the Welcome page, select the product to install.

4. If needed, select another language that will be displayed during the installation process.

5. To view Release Notes of the product components, click Release notes.

6. To install the product using the recommended settings, click Install Now and skip to Step 4: Review license agreements on page 39.

7. To customize the components, click Customize.

**Step 3: Customize product components**

For each FactoryTalk View product, there may be three different options displayed:

• **Mandatory** components are selected and shaded, and will be automatically installed as part of the selected application.

  **Tip:** If a product is already installed, it appears shaded and cannot be selected.

• **Recommended** components are selected, and indicate software that Rockwell recommends for the application.

• **Optional** components are not selected, and indicate software that you may wish to include depending on your system.

**To setup product components:**

1. On the Customize page, select components to install and clear components not to install.

2. If needed, select another drive location.

3. Click Install.
End user license agreements (EULA) spell out your rights and responsibilities. Depending on the applications being installed, it is possible that there may be more than one license agreement on this page.

Some software products may be delivered or made available only after you agree to the terms and conditions of each of the license agreements.

To review the license agreements:

1. On the End User License Agreements page, select an agreement to review the details.
2. Repeat for each license agreement.
3. After you review all license agreements, click Accept All to agree with the terms of all the listed license agreements and start the installation process.

After installing prerequisites, the Setup wizard automatically installs all the Rockwell Software applications selected previously. Installation is automatic and does not require any input from the user.

During the installation, the Progress page displays the installation percentage complete. Status notification messages at the bottom of the page identify which files are being installed.

When the installation of selected products completes, the Setup wizard first searches for activation keys required for the installed products. If no available activation keys are found, the activation page is displayed. You can specify whether to activate the products now or later. For more information about activation, see Activate FactoryTalk View software on page 43.

To complete the installation:

1. On the Activation page, select one option and click Next.
2. On the Summary page, review the summary and click the link for more information if needed.
3. Click Restart now to restart your computer now. Click Restart later to restart later.

After you install FactoryTalk View, there may be several final setup steps that must be completed:

- Install product updates on page 99
- Specify the Network Directory server location on page 40
Specify the Network Directory server location

After installing FactoryTalk software, specify one of the computers on the network as the Network Directory server, and then point the other computers on the network to that computer. This allows all of the computers on the network to share FactoryTalk Network Directory services and resources.

To configure the Network Directory Server computer:

1. On the computer that you want to use as the Network Directory Server, from Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

   Tip: You will have to log on as an administrator on the computer.

2. In the FactoryTalk Directory Server dialog box,
   - If localhost is not displayed in the field Computer hosting directory server, click the Browse button.
   - If localhost is displayed, the computer is already specified as the Network Directory host. You can close the utility.

3. In the FactoryTalk Directory Server Configuration dialog box, select This computer and click OK.

4. Click OK to close the utility.

To configure the client and other application server computers:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

2. Click the Browse button beside the field, Computer hosting directory server.


4. Type the name of the Network Directory server computer, or click the Browse button to find and select the computer, and then click OK.

   Tip: You will have to log on as an administrator on the computer.

5. Click OK again to close the utility.

6. Repeat steps 1 to 5 on the remaining client and server computers that will participate in the deployed network distributed application.
Install SE clients in a distributed system

In a distributed system, after installing the server computer with the Client Install Portal feature, you can install SE clients through the web browser.

To install the SE client application:

1. On the client computer, open Internet Explorer.

2. In the Address field, type `http://servername/ftviewclient` where `servername` is the computer name of your FactoryTalk View SE server.

   **Note:**
   - If you are using SSL, begin with `https://` instead.
   - The web page may not be opened if you enable HTTPS on the IIS server and your client is on another computer. You need to configure the client to access the server. To do this, export the server certificate and import the certificate to the client computer. For detailed instructions on exporting and importing server certificates, see Microsoft TechNet.

3. Press Enter. Internet Explorer displays a page from the server that allows you to install the FactoryTalk View Site Edition Client application.

   **Tip:** If Internet Explorer displays an error message that it cannot connect to the install web page, try adding the FactoryTalk View Site Edition website (URL above) to your local intranet site list.

4. Microsoft .NET Framework 4.0 or higher is required before you can install FactoryTalk View Client. If it is not installed, FactoryTalk View installs .NET Framework 4.6 by default. Click *Install .NET Framework 4.6 on this computer* to install it. The option is not shown if it is already installed.

5. Follow the on-screen instructions. If prompted to restart your computer, click Restart Now.

6. Once the computer has restarted, repeat steps 1 to 4.

7. To install SE Client, click *Install FactoryTalk View Site Edition Client on this computer*. Follow the on-screen instructions.

   If you are displaying data from FactoryTalk Historian on trends, click *Install FactoryTalk Historian Connectivity tools*. Follow the on-screen instructions to complete the installation. For more information about FactoryTalk Historian Connectivity, see *About FactoryTalk Historian Connectivity* on page 37.

Modify or uninstall FactoryTalk View

To modify components of FactoryTalk View, from the installation package, double-click Setup.exe, select one product and click Modify.
To uninstall FactoryTalk View, do one of the following:

- From the installation package, double-click **Setup.exe**, select one product and click **Uninstall**.

- From **Programs and Features** of Windows Control Panel, right-click the FactoryTalk View product installed such as *FactoryTalk View Studio Enterprise 10.00.00* and select **Uninstall**.

- From the **Command Prompt** window, type a command with the following syntax:

  ```
  Setup.exe [/Q | /QS] /Uninstall /Product=product_name
  ```

  Components, such as FactoryTalk Activation Manager, that are shared with other products will not be uninstalled. For more information about command-line parameter, see [Command-line parameters](#) on page 105.
Chapter 5

Activate FactoryTalk View software

For continuous use of FactoryTalk View SE and other Rockwell Software products, computers running the software must have access to activation files.

To manage and provide activations for FactoryTalk View SE software components, use the FactoryTalk Activation Manager installed with FactoryTalk View.

FactoryTalk Activation services provide a secure, software-based system for activating Rockwell Software products and managing software activation files.

With FactoryTalk Activation Manager, there is no need for a physical master disk or any physical media; instead, activation files are generated and distributed electronically.

FactoryTalk View SE products use two types of activations:

- **Floating** concurrent activations are checked out of an activation server located on the network, and require a continuous network connection.
- **Borrowed** concurrent activations are time-expiring activations checked out of an activation server on the network, and do not require a continuous network connection.

For standard installations of the product software, FactoryTalk View SE supports only the use of both types of *shared concurrent* activations. Node-locked activations are not supported.

**Tip:** To learn about the types of activation that other Rockwell Automation products can use, see the product documentation or contact your local Rockwell Automation Sales office.

What happens if FactoryTalk View is not activated?

If the FactoryTalk View components you have installed cannot be activated, for example, because the activation server is unavailable or because borrowed activations have expired, the software will continue to run for up to seven days.

The seven-day grace period allows time to correct the problem with acquiring activations without disrupting critical applications. If activation is restored within seven days, normal operations will resume.
If activation is not restored, the grace period will expire. After the grace period expires, if you restart FactoryTalk View SE and activation remains unavailable, the software will run for two hours in demo mode.

When running in demo mode, there are some limitations.

- You can run a local station FactoryTalk View application for up to two hours.
- Remote clients cannot connect to a FactoryTalk View server.

Starting from FactoryTalk View version 10.00, some limitations are eliminated. You can create or load over five graphic displays per HMI server now. You can also fully use the Symbol Factory library without restriction.

Floating concurrent activations are assigned automatically to clients that need them, and returned automatically to the activation server pool when FactoryTalk View SE stops running on the client, or when the client computer shuts down.

Client computers must be set up to obtain floating activations from the activation server.

If you prefer to use borrowed activations for clients, skip to **Borrow activations for development computers** on page 45.

After you set up the activation server (or servers), you can specify which server each client computer will obtain activations from.

Once a client is connected to a server, all you have to do is to run the FactoryTalk View software (for example, the FactoryTalk View SE Client), and the server will issue available activations automatically.

A continuous network connection is required for an activation client to use floating activations. After a client obtains a floating activation, when the activation server detects that the client has been disconnected, the activation is returned to the server pool.

To ensure that critical software components (redundant HMI servers, for example) can always obtain the necessary activations, set up an activation server on the computer where the software is running.

To ensure that critical software components in a network application using floating activations can always obtain the necessary activations, even if the network is disrupted, set up a FactoryTalk Activation server on every computer where the FactoryTalk View SE software is running. This includes all clients and all servers, whether redundant or not.
For example, to ensure that a redundant FactoryTalk View SE Server remains activated, install the activation server on both computers hosting the redundant server pair, and then add the necessary activations to those computers.

If it is not convenient for a development computer to remain connected to the network where the activation server resides, you can connect to the activation server temporarily, borrow a concurrent activation for a limited amount of time, and then disconnect. When the time-limited activation expires, its associated software is no longer activated, and the activation automatically becomes available again from the server’s activation pool.

The activation files you download from the Rockwell Software Activation Website contain the activation keys you purchased, in encrypted form. The activation key is the software that activates FactoryTalk View SE components.

Following is a list of activation keys used by the FactoryTalk View SE and ME products. For information about the keys required to activate other Rockwell Automation products in your application, see the product documentation.

<table>
<thead>
<tr>
<th>To activate this software product or component</th>
<th>Use this key</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryTalk View Studio*</td>
<td>RSV.STUDIO</td>
</tr>
<tr>
<td><em>(Includes software for developing and testing FactoryTalk View Site Edition and Machine Edition applications)</em></td>
<td></td>
</tr>
<tr>
<td>FactoryTalk View SE Server (network distributed applications), unlimited displays</td>
<td>RSVSESRV.MAX</td>
</tr>
<tr>
<td>FactoryTalk View SE Server (network distributed applications), 250 displays</td>
<td>RSVSESRV.250</td>
</tr>
<tr>
<td>FactoryTalk View SE Server (network distributed applications), 100 displays</td>
<td>RSVSESRV.100</td>
</tr>
<tr>
<td>FactoryTalk View SE Server (network distributed applications), 25 displays</td>
<td>RSVSESRV.25</td>
</tr>
<tr>
<td>FactoryTalk View SE Client (network distributed applications), read and write</td>
<td>RSVSCECLI.RW</td>
</tr>
<tr>
<td>FactoryTalk View SE Client (network distributed applications), view only</td>
<td>RSVSCECLI.RO</td>
</tr>
<tr>
<td>FactoryTalk View SE Station (network station and local station applications), unlimited displays</td>
<td>RSVSE.MAX</td>
</tr>
<tr>
<td>FactoryTalk View SE Station (network station and local station applications), 250 displays</td>
<td>RSVSE.250</td>
</tr>
<tr>
<td>FactoryTalk View SE Station (network station and local station applications), 100 displays</td>
<td>RSVSE.100</td>
</tr>
<tr>
<td>FactoryTalk View SE Station (network station and local station applications), 25 displays</td>
<td>RSVSE.25</td>
</tr>
<tr>
<td>FactoryTalk View SE Station (network station and local station applications), 15 displays</td>
<td>RSVSE.15</td>
</tr>
</tbody>
</table>

Multiple FactoryTalk View SE software components can function using one activation key in the following cases:

- Multiple instances of FactoryTalk View Studio or the FactoryTalk View SE Client running on the same computer can use a single key (RSV.STUDIO or RSVSCECLI), as long as the components are not running in a Terminal Services session.
In the network application of FactoryTalk View SE versions earlier than 6.10, for development and testing purposes, one FactoryTalk View Studio key activates a FactoryTalk View SE Client and SE Server on the same computer. Remote clients and servers require component-specific activations.

**Note:** In version 6.10 or higher, one FactoryTalk View Studio key can no longer activate the local server or client to run in test run mode.

- Local applications use a single key (RSVSE.*) to activate both the FactoryTalk View SE Client and the FactoryTalk View SE Server at run time. These components running together are also known as FactoryTalk View SE Station. To run multiple station client instances on the same server computer, make sure to launch the clients first and then the server. Otherwise, two activation keys may be required.

**Tip:** FactoryTalk View SE Server activations—known as capacity activations because they are based on the number of displays in an application—cannot be shared.

### Read-write versus view-only activations

In a network application, FactoryTalk View SE Clients can use two types of activation:

- **Read-write** keys (RSVSECLI.RW) allow full read-write privileges.
- **View-only** keys (RSVSECLI.RO) allow view-only privileges.

Whether a FactoryTalk View SE Client runs in read-write or in view-only mode depends on the type of activation key available for the client to use, and whether the client itself is set up as read-write or view-only:

- If the activation server can only provide view-only licenses, and a read-write client obtains one of these licenses, then the activation overrides the client’s configuration, and the client runs in view-only mode.
- If the activation server can only provide read-write licenses, and a view-only client obtains one of these licenses, then the client’s configuration overrides the activation, and the client runs in view-only mode.
- Do not rely on available activation keys to determine whether the FactoryTalk View SE Client runs in read-write or view-only mode. Instead, to ensure that a client always runs in view-only mode, choose the view-only option when setting up the client’s configuration file. For details, click Help in the FactoryTalk View SE Client wizard.
Chapter 6

Deploy network distributed applications

After you finish developing and testing a FactoryTalk View Site Edition application, you can deploy it to run in a live setting, such as the plant floor. Deploying an application involves installing all FactoryTalk View SE software components on the client or server computers.

For details about installing the software, see Install FactoryTalk View on page 35.

For information about upgrading a network distributed application that is already deployed, see Upgrade an operating FactoryTalk View SE application on page 75.

For details about the structure and content of network distributed applications, see Chapter 6, Working with network distributed applications in the FactoryTalk View Site Edition User’s Guide.

Overview of tasks

The checklist in this section summarizes the basic tasks involved in deploying a FactoryTalk View SE network distributed application. Each task is described in detail in the rest of this chapter. Add or remove steps as necessary to create a customized procedure that reflects the design and content of your FactoryTalk View application. For example, your application might include additional communications or database servers.

• Step 1: Back up the network distributed application on page 47
• Step 2: Restore the network distributed application on page 49
• Step 3: Renew data server shortcuts, topics, and device paths on page 50
• Step 4: Set up additional HMI server properties on page 51
• Step 5: Set up the FactoryTalk View SE Clients on page 52
• Step 6: Run the FactoryTalk View SE Clients on page 54 to test the application

Step 1: Back up the network distributed application

Before backing up an application, record the user names and passwords of administrative users set up for the application, in case you need this information after restoring the application.
Note: RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

To back up an application on the HMI server

1. From the Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager.

   Tip: The logged on user must have the Backup and restore directory contents permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the Create a Backup tab, select your application and follow the wizard to back up the application.

RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

If RSLinx Classic is installed on the development and production computers, you can use the RSLinx Classic Backup/Restore tool to back up and restore configuration files.

You can also restore RSLinx Classic configuration files from the Wizard Completed window of the RSLinx Classic software setup program.

To back up RSLinx Classic configurations:

1. From Windows Start menu, select All Programs > Rockwell Software > RSLinx > RSLinx Classic Backup Restore Utility.

2. In the RSLinx Classic Backup/Restore tool, click Backup.

3. Select a folder for the backup file, type a file name, and then click Save.

The following illustration shows what a FactoryTalk View SE network distributed application looks like when opened in FactoryTalk View Studio.
The FactoryTalk Network Directory is represented at the top of application hierarchy. One level down, the System folder stores settings that are used by all the applications that belong to the same Network Directory.

For example, FactoryTalk user and computer accounts set up for each application are stored in the System folder.

**Note:** FactoryTalk Linx device paths are also saved with System information, and might not be correct for the computer where the application will be restored. For information about checking device paths after restoring an application, see Verify FactoryTalk Linx shortcuts on page 89.

### Step 2: Restore the network distributed application

Before restoring the network distributed application, all client and server computers in the application must point to the same FactoryTalk Directory server.

After restoring the application, restore the RSLinx Classic configurations as need. See Restore RSLinx Classic configurations on page 50.

**To restore an application on the HMI server**

1. From the Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager.
Tip: The logged on user must have the **Backup and restore directory contents** permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the **Restore an Archive** tab, specify the restore options and follow the wizard.

RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

If RSLinx Classic is installed on the development and production computers, you can use the **RSLinx Classic Backup/Restore** tool to back up and restore configuration files.

You can also restore RSLinx Classic configuration files from the Wizard Completed window of the RSLinx Classic software setup program.

**To restore RSLinx Classic configurations:**

1. Copy the backup file (with .rsx extension) from the development computer and paste it into a location on the data server production computer.

2. From Windows **Start** menu, select **All Programs > Rockwell Software > RSLinx > RSLinx Classic Backup Restore Utility**.

3. In the **RSLinx Backup/Restore** tool, click **Restore**.

4. Find and select the backup file, and then click **Open**.

After restoring RSLinx data servers in the application, renew or verify the topics, shortcuts, and device paths associated with each data server, as needed.

If you are restoring redundant data servers, then the device paths must be confirmed and reapplied for both the primary and the secondary server.

**To renew FactoryTalk Linx device paths:**

1. Open the restored application in the FactoryTalk Administration Console.

2. In the Explorer window, expand the data server (FactoryTalk Linx), and then double-click **Communications Setup**.

3. In the Communications Setup editor, select each configured FactoryTalk Linx shortcut, point the shortcut at the correct device, and then click **Apply**.

4. Save the configuration, and then close the **Communications Setup** editor.
To verify RSLinx Classic topics:

1. On the data server computer, select **Start > All Programs > Rockwell Software > RSLinx > RSLinx Classic**.

2. On the DDE/OPC menu, click **Topic Configuration**.

3. In the Topic List, select each configured topic and confirm that the corresponding data source updates correctly.

4. Click the **Advanced Communication** tab, confirm that there is a device path specified for Remote Addressing, and then click **Done**.

**Step 4: Set up additional HMI server properties**

After restoring the application, open the HMI server properties dialog box in FactoryTalk View Studio to verify the HMI server settings and set up additional HMI server properties as needed.

- Specify the startup type
- Set up redundancy
- Specify startup components

You must set up the HMI server properties separately, for each server in the FactoryTalk View SE network distributed application you are deploying. You can do this on the computer running the HMI server, or from a remote computer.

For details about setting up HMI server properties, see Chapter 6, *Working with network distributed applications* in the *FactoryTalk View Site Edition User’s Guide*.

For details about setting up redundant HMI servers, see Chapter 14, *Setting up FactoryTalk system availability* in the *FactoryTalk View Site Edition User’s Guide*.

**Specify the startup type**

In the **General** tab, you can specify that the HMI server will load when the first client attempts to connect to it (**On demand**) or when the host computer starts up (**Load and run startup components when operating system initializes**). The second option is recommended for production HMI servers, and required for an HMI server that is part of a redundant pair.

**Set up redundancy**

In the **Redundancy** tab, select **Provide redundancy using a secondary server**, specify the name the computer that will host the secondary server, and select a switchover option.

After you apply the settings, FactoryTalk View SE automatically copies HMI project information from the primary server to the secondary server.

**Specify startup components**

In the **Components** tab, select the application components that will start automatically when the HMI server starts, and select the macro that will run when the server shuts down. You can also start or stop components manually.
If the HMI server is redundant, you can also start and stop components for the primary and the secondary server, and select **On active** and **On standby** macros.

At run time, you can make changes to the HMI project components in an application while it is running. For example, you can add, modify or delete graphic displays and other components, and have those changes to take effect at connected clients.

To automatically save the project online edits to both active and standby servers, in FactoryTalk View Studio, from the menu, select **Tools > Options**. In the **Settings** tab, make sure the **Save edits to both active and standby HMI servers** option is selected.

If you do not set up the option, manually replicate the changes from the active server to standby server. The replicate operation copies the current active server’s configuration files, including settings in the Components tab, to the standby server.

For example, if an On Active and a Shutdown macro are selected for the Active server, the settings will be replicated to the Standby server. This means that the same macros specified for the Active server will run when the Standby server becomes active or shuts down. Information that is not included in the replicate operation includes datalog files generated at run time, the current value of HMI memory tags, and retentive tags.

**Note:** Make sure to verify the current HMI server name and status before the replication.

**To manually replicate the changes:**

1. In the FactoryTalk View Studio Explorer window, right-click the HMI server and select **Server Status**.

2. In the **Server Status** dialog box, verify that the current HMI server status is **Active** and the other is **Standby**.

   **Tip:** To show the status of the HMI servers, FactoryTalk Alarm and Event servers, and data servers at run time, add one of the following to the application:
   - A **Server Status** display under the **Library** folder.
   - A redundancy function, such as **PrimaryServerStatus** and **SecondaryServerStatus**.

3. In the HMI Server Properties dialog box, in the **Redundancy** tab, click **Replicate Active to Standby**.

**Step 5: Set up FactoryTalk View SE Clients**

The FactoryTalk View Site Edition client provides a complete run-time operating environment that can run on remote client computers. You can use the client to:

- Load, view, and interact with multiple graphic displays at a time from
multiple servers.

- Perform alarm management.
- View real-time and historical trends.
- Adjust set points.
- Start and stop components on any server.
- Provide a secure operator environment.

To run a network station or local station application, the FactoryTalk View SE Client must run on the same computer as the HMI server.

If you have already set up a FactoryTalk View SE Client file for the application, you can copy the file to the production computer. Otherwise, you can create a new client file.

**Create a FactoryTalk View SE Client file**

The FactoryTalk View SE Client configuration file specifies the name of the application the client will connect to, the components that start when the connection is made, and how the client will behave at run time. The file is with a .cli extension.

**Tip:** It is not necessary to start the HMI server if you want to use the FactoryTalk View SE Client Wizard.

**To create a FactoryTalk View SE Client file:**

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Site Edition Client.
2. In the FactoryTalk View SE Client Wizard, click Create a FactoryTalk View SE Client configuration file, and follow the on-screen instructions. For details about options in the wizard, click Help.

**Copy existing FactoryTalk View SE Client files**

When setting up the FactoryTalk View SE Clients for a network distributed application, you can copy existing client files from the development computer to the client production computers.

You can run the client configuration from the desktop, or from any other location on the client computer.

By default, client configuration files are saved under C:\Users\Public\Public Documents\RSView Enterprise\SE\Client.

**Lock operators into the run-time environment**

To lock operators into the FactoryTalk View SE Client at run time, for example, to prevent access to other programs on the computer, try one or more of the following methods:
Limit the ability to manipulate graphic displays, by removing the title bar or minimize and maximize buttons from selected displays.

To do this, in the Display Settings dialog box, clear the check boxes Title Bar, Minimize Button, and Maximize Button. For details, see Chapter 16, Creating graphic displays in the FactoryTalk View Site Edition User’s Guide.

Limit the ability to manipulate the client window, by removing the title bar or minimize and maximize buttons from the client.

To do this, in the FactoryTalk View SE Client wizard, clear the check boxes, Show title bar, and Show system menu and close button. For details, click Help in the FactoryTalk View SE Client wizard.

Prevent switching to other applications. To do this, in the FactoryTalk View SE Client wizard, select the check box, Disable switch to other applications. For details, click Help in the FactoryTalk View SE Client wizard.

Restrict access to the desktop, using the DeskLock tool.

To open Desklock, on the desktop click Start > All Programs > Rockwell Software > FactoryTalk View > Tools, and then click DeskLock.

For details about using DeskLock, click Help within the tool.

Note: Do not enable DeskLock until you read the help for the tool and understand how it works. Otherwise, you could end up locking yourself out of the desktop.

Step 6: Run FactoryTalk View SE Clients

Once the network distributed application is fully deployed, test it by running the FactoryTalk View SE Clients.

To start the FactoryTalk View SE Client, or to change users while the client is running, the user logging on must have the necessary security permissions. If the user does not have the necessary permissions, the FactoryTalk View SE Client login dialog box opens, to let another user log on.

Note: To connect a FactoryTalk View SE Client to a network distributed application, all client and server computers in the application must point at the same FactoryTalk Network Directory server. For details, see Specify the Network Directory location on application computers on page 58.

For tips to help you get communications working between clients and servers, see the FactoryTalk View Site Edition Help.

To run an SE Client from FactoryTalk View Studio:

1. In FactoryTalk View Studio, on the Tools menu, click Launch SE Client.
2. In the FactoryTalk View SE Client Wizard dialog box, select the client configuration file from the list of most recently used files and click Run. To search for and select another file, click the browse button.

**To run an SE Client when Windows starts:**

1. Create a shortcut to the cli file (on the desktop, for example).
2. Move the shortcut to the Windows Startup folder.

   For information about adding shortcuts to the Startup folder, see the Windows Help.
Deploy network station applications

After you finish developing and testing a FactoryTalk View Site Edition application, you can deploy it to run in a live setting, such as the plant floor. Deploying an application involves installing all FactoryTalk View SE software components on the client or server computers.

For details about installing the software, see Install FactoryTalk View on page 35.

For details about the structure and content of network station applications, see Chapter 7, Working with network station applications in the FactoryTalk View Site Edition User’s Guide.

The checklist in this section summarizes the basic tasks involved in deploying a FactoryTalk View SE network station application. Use the checklist to guide you through the tasks you need to perform. Each task is described in detail in the rest of this chapter.

If appropriate, add or remove details to create a customized procedure that reflects the design and content of your FactoryTalk View application. For example, your application might include additional communications or database servers so you may need to repeat these steps accordingly.

- **Step 1: Move the network station application** on page 57
- **Step 2: Specify the Network Directory location on application computers** on page 58 if necessary
- **Step 3: Move the application’s data server files** on page 59
- **Step 4: Specify data server host computer names** on page 60
- **Step 5: Renew data server shortcuts, topics, and device paths** on page 61
- **Step 6: Specify when HMI server components start or stop** on page 61
- **Step 7: Set up the FactoryTalk View SE Client** on page 62
- **Step 8: Run the FactoryTalk View SE Client** on page 64 to test the application

**Step 1: Move the network station application**

There are two steps involved in moving an application: on the development computer, back up the application; then, on the production computer, restore the
application archive.

**Note:** Before backing up an application, record the user names and passwords of administrative users set up for the application, in case you need this information after restoring the application.

**To back up a network station application on the development computer**

1. From the Windows **Start** menu, select **All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager**.

   **Tip:** The logged on user must have the **Backup and restore directory contents** permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the **Create a Backup** tab, select your application and follow the wizard to back up the application.

3. Copy the .apb file to the production computer.

If you are restoring an application on a computer that contains a copy of the original application, use FactoryTalk View SE Application Manager to delete or rename the original application, before you begin the restore operation.

**To restore a network station application on the production server**

1. From the Windows **Start** menu, select **All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager**.

   **Tip:** The logged on user must have the **Backup and restore directory contents** permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the **Restore an Archive** tab, specify the restore options and follow the wizard.

**Step 2: Specify the Network Directory location**

If you have not done so already, use the FactoryTalk Directory Server Location Utility to specify the location of the FactoryTalk Network Directory server.

Performing this task might require more than one set of FactoryTalk security credentials:

- To use the FactoryTalk Directory Server Location Utility, you must have administrative rights on the local computer.
- To specify a remote location for the Network Directory, you must have administrative rights on the remote computer.
To specify the Network Directory on application computers:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

2. Click the Browse button beside the field, Computer hosting directory server.


   **Tip:** You will have to log on as an administrator on the computer.

4. Click OK again, to close the FactoryTalk Directory Server Location Utility.

After specifying the FactoryTalk Network Directory location on application computers, ensure that the required communications software (FactoryTalk Linx, RSLinx Classic, or other OPC software) is installed on computers that will run data servers.

Then, if necessary for the data servers you are deploying, move configuration files to the production computers, and then specify the new host computer names.

   **Tip:** For information about moving setup files for OPC data servers other than RSLinx Classic, see the product documentation for the OPC server.

### Step 3: Move the application's data server files

### Restore RSLinx Classic configurations

RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

If RSLinx Classic is installed on the development and production computers, you can use the **RSLinx Classic Backup/Restore** tool to back up and restore configuration files.

You can also restore RSLinx Classic configuration files from the Wizard Completed window of the RSLinx Classic software setup program.

To restore RSLinx Classic configurations:

1. Copy the backup file (with .rsx extension) from the development computer and paste it into a location on the data server production computer.

2. From Windows Start menu, select All Programs > Rockwell Software > RSLinx > RSLinx Classic Backup Restore Utility.

3. In the **RSLinx Backup/Restore** tool, click **Restore**.
4. Find and select the backup file, and then click Open.

After moving data server configuration files to production computers, open the restored network station application, and in the Properties dialog box for each data server, specify the name of the server’s host computer.

The first time you open an application after relocating a data server, if the server does not load, you should still be able to open the Properties dialog box and change the host computer name. After the computer name is updated, the server should load as expected.

For information about setting up other data server properties, click Help in the server’s Properties dialog box, or see the product documentation.

For information about renewing RSLinx shortcuts, topics, and device paths, see Step 5: Renew data server shortcuts, topics, and device paths on page 61.

To change the FactoryTalk Linx server computer name:

1. From Windows Start menu, select Start > All Programs > Rockwell Software > FactoryTalk Administration Console.

2. In the Select FactoryTalk Directory dialog box, select Network, and then click OK.

3. In the Explorer window, expand the name of the restored application, right-click the FactoryTalk Linx server’s name, and then click Properties.

4. In the General tab, in the field Computer hosting the FactoryTalk Linx server, type the name of the production computer, or click Browse to find and select the computer, and then click OK. Acknowledge the warning if needed by clicking OK.

To change the RSLinx Classic server computer name:

1. From Windows Start menu, select Start > All Programs > Rockwell Software > FactoryTalk Administration Console.

2. In the Explorer window, expand the application, right-click the RSLinx Classic server’s name, and then click Properties.

3. In the General tab, in the field Computer that will run the OPC server, type the name of the production computer, or click Browse to find and select the computer, and then click OK.
Step 5: Renew data server shortcuts, topics, and device paths

After restoring RSLinx data servers in the application, renew or verify the topics, shortcuts, and device paths associated with each data server, as needed.

If you are restoring redundant data servers, then the device paths must be confirmed and reapplied for both the primary and the secondary server.

To renew FactoryTalk Linx device paths:

1. Open the restored application in the FactoryTalk Administration Console.
2. In the Explorer window, expand the data server (FactoryTalk Linx), and then double-click Communications Setup.
3. In the Communications Setup editor, select each configured FactoryTalk Linx shortcut, point the shortcut at the correct device, and then click Apply.
4. Save the configuration, and then close the Communications Setup editor.

To verify RSLinx Classic topics:

1. On the data server computer, select Start > All Programs > Rockwell Software > RSLinx > RSLinx Classic.
2. On the DDE/OPC menu, click Topic Configuration.
3. In the Topic List, select each configured topic and confirm that the corresponding data source updates correctly.
4. Click the Advanced Communication tab, confirm that there is a device path specified for Remote Addressing, and then click Done.

In FactoryTalk View Studio, open the Properties dialog box for the HMI server in the application, to view the location of the HMI project files, the current number of displays in the application, and the maximum number of displays allowed.

You can add a description for the HMI server and, in the Components tab, select components that will start when the HMI server starts running.

To open the HMI Server Properties dialog box:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Studio.
2. In the Application Type Selection dialog box, select the application type and click Continue.
3. In the **Existing** tab, select the application and click **Open**.

4. In the Explorer window, right-click the HMI server and select **Properties**.

Use the HMI Server Properties dialog box to specify which components in an application will start automatically, when the HMI server starts running.

In a network station or local station application, the HMI server loads and the specified components start running when the FactoryTalk View SE Client connects to the application. When the client stops running, the HMI server is unloaded, and the specified shutdown macro is run.

You can also start or stop the HMI server components manually. To do this, in the Components tab, click **Run Startup Components** and **Stop All Running Components**, respectively.

**To select HMI server startup and shutdown components:**

1. In the HMI Server Properties dialog box, click the **Components** tab.

2. To specify startup components, select the component check boxes, and then select the components you want to start automatically, when the HMI server starts running.

3. To specify a shutdown macro, select the check box **On shutdown macro**, and then select the macro you want to run when the HMI server stops running.

**Step 7: Set up the FactoryTalk View SE Client**

The FactoryTalk View Site Edition client provides a complete run-time operating environment that can run on remote client computers. You can use the client to:

- Load, view, and interact with multiple graphic displays at a time from multiple servers.
- Perform alarm management.
- View real-time and historical trends.
- Adjust set points.
- Start and stop components on any server.
- Provide a secure operator environment.

To run a network station or local station application, the FactoryTalk View SE Client must run on the same computer as the HMI server.

If you have already set up a FactoryTalk View SE Client file for the application, you can copy the file to the production computer. Otherwise, you can create a new client file.
Create a FactoryTalk View SE Client file

The FactoryTalk View SE Client configuration file specifies the name of the application the client will connect to, the components that start when the connection is made, and how the client will behave at run time. The file is with a .cli extension.

Tip: It is not necessary to start the HMI server if you want to use the FactoryTalk View SE Client Wizard.

To create a FactoryTalk View SE Client file:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Site Edition Client.

2. In the FactoryTalk View SE Client Wizard, click Create a FactoryTalk View SE Client configuration file, and follow the on-screen instructions. For details about options in the wizard, click Help.

Lock operators into the run-time environment

To lock operators into the FactoryTalk View SE Client at run time, for example, to prevent access to other programs on the computer, try one or more of the following methods:

- **Limit the ability to manipulate graphic displays**, by removing the title bar or minimize and maximize buttons from selected displays.
  
  To do this, in the Display Settings dialog box, clear the check boxes Title Bar, Minimize Button, and Maximize Button. For details, see Chapter 16, Creating graphic displays in the FactoryTalk View Site Edition User’s Guide.

- **Limit the ability to manipulate the client window**, by removing the title bar or minimize and maximize buttons from the client.
  
  To do this, in the FactoryTalk View SE Client wizard, clear the check boxes Show title bar, and Show system menu and close button. For details, click Help in the FactoryTalk View SE Client wizard.

- **Prevent switching to other applications**. To do this, in the FactoryTalk View SE Client wizard, select the check box, Disable switch to other applications. For details, click Help in the FactoryTalk View SE Client wizard.

- **Restrict access to the desktop**, using the DeskLock tool.
  
  To open Desklock, on the desktop click Start > All Programs > Rockwell Software > FactoryTalk View > Tools, and then click DeskLock.
  
  For details about using DeskLock, click Help within the tool.
Deploy network station applications

Step 8: Run the FactoryTalk View SE Client

Once the application is deployed, test it by running the FactoryTalk View SE Client.

To start the FactoryTalk View SE Client, or to change users while the client is running, the user logging on must have the necessary security permissions. If the user does not have the necessary permissions, the FactoryTalk View SE Client login dialog box opens, to let another user log on.

To run an SE Client from FactoryTalk View Studio:

1. In FactoryTalk View Studio, on the Tools menu, click Launch SE Client.

2. In the FactoryTalk View SE Client Wizard dialog box, select the client configuration file from the list of most recently used files and click Run. To search for and select another file, click the browse button.

To run an SE Client when Windows starts:

1. Create a shortcut to the cli file (on the desktop, for example).

2. Move the shortcut to the Windows Startup folder.

For information about adding shortcuts to the Startup folder, see the Windows Help

Administer deployed applications

To make minor changes to an application after it is deployed, use FactoryTalk View Studio.

<table>
<thead>
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</tr>
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</tr>
<tr>
<td>Run FactoryTalk View commands.</td>
<td>Command Line</td>
</tr>
<tr>
<td>Change the paths of data log models.</td>
<td>Data Log Paths</td>
</tr>
<tr>
<td>Import and export HMI tags.</td>
<td>Tag Import and Export Wizard</td>
</tr>
</tbody>
</table>

For details about options in these editors, click Help.
To open a network station application in FactoryTalk View Studio:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Studio.

2. In the Application Type Selection dialog box, select the application type and click Continue.

3. In the Existing tab, select the application and click Open.
Chapter 8

Deploy local station applications

After you finish developing and testing a FactoryTalk View Site Edition application, you can deploy it to run in a live setting, such as the plant floor. Deploying an application involves installing all FactoryTalk View SE software components on the client or server computers.

For details about installing the software, see Install FactoryTalk View on page 35.

For details about the structure and content of local station applications, see Chapter 8, Working with local station applications in the FactoryTalk View Site Edition User’s Guide.

The checklist in this section summarizes the basic tasks involved in deploying a FactoryTalk View SE local station application. Use the checklist to guide you through the tasks you need to perform. Each task is described in detail in the rest of this chapter.

If appropriate, add or remove details to create a customized procedure that reflects the design and content of your FactoryTalk View application. For example, your application might include additional communications or database servers.

- Step 1: Move the local station application on page 67
- Step 2: Move data servers and change their properties on page 68
- Step 3: Specify OPC data server host computer names on page 69
- Step 4: Specify when HMI server components start or stop on page 70
- Step 5: Set up the FactoryTalk View SE Client on page 71
- Step 6: Run the FactoryTalk View SE Client on page 72 to test the application

Overview of tasks

Step 1: Move the local station application

There are two steps involved in moving an application: on the development computer, back up the application; then, on the production computer, restore the application archive.
Note: Before backing up an application, record the user names and passwords of administrative users set up for the application, in case you need this information after restoring the application.

To back up a local station application on the development computer

1. From the Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager.

   Tip: The logged on user must have the Backup and restore directory contents permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the Create a Backup tab, select your application and follow the wizard to back up the application.

3. Copy the .apb file to the production computer.

If you are restoring an application on a computer that contains a copy of the original application, use FactoryTalk View SE Application Manager to delete or rename the original application, before you begin the restore operation.

To restore a local station application on the production server

1. From the Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager.

   Tip: The logged on user must have the Backup and restore directory contents permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the Restore an Archive tab, specify the restore options and follow the wizard.

A FactoryTalk View SE local station application can contain one FactoryTalk Linx data server, which must be located on the same computer as the application.

In addition, the local station application can contain one or more OPC data servers (RSLinx Classic, or some other OPC server), which can be located on remote computers.

After ensuring that the required communications software is installed on production computers, for each remote OPC data server you are deploying, move the configuration files to the production computer and specify the new host computer name.

Step 2: Move data servers and change their properties
Tip: For information about moving setup files for OPC data servers other than RSLinx Classic, see the product documentation for the OPC server.

After installing FactoryTalk Linx, RSLinx Classic, or some other OPC server software on the production computer, if necessary, you can move the data server’s setup files to the computer.

RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

If RSLinx Classic is installed on the development and production computers, you can use the RSLinx Classic Backup/Restore tool to back up and restore configuration files.

You can also restore RSLinx Classic configuration files from the Wizard Completed window of the RSLinx Classic software setup program.

To restore RSLinx Classic configurations:

1. Copy the backup file (with .rsx extension) from the development computer and paste it into a location on the data server production computer.

2. From Windows Start menu, select All Programs > Rockwell Software > RSLinx > RSLinx Classic Backup Restore Utility.

3. In the RSLinx Backup/Restore tool, click Restore.

4. Find and select the backup file, and then click Open.

After moving data server configuration files to production computers, open the restored network station application, and in the Properties dialog box for each data server, specify the name of the server’s host computer.

The first time you open an application after relocating a data server, if the server does not load, you should still be able to open the Properties dialog box and change the host computer name. After the computer name is updated, the server should load as expected.

For information about setting up other data server properties, click Help in the server's Properties dialog box, or see the product documentation.
Tip: Unlike RSLinx Classic data servers, you do not have to change the computer names of FactoryTalk Linx data servers. The FactoryTalk Linx data server in a local station application must be located on the same computer as the application, and is always named localhost.

To change the RSLinx Classic server computer name:

1. From Windows Start menu, select Start > All Programs > Rockwell Software > FactoryTalk Administration Console.

2. In the Explorer window, expand the application, right-click the RSLinx Classic server’s name, and then click Properties.

3. In the General tab, in the field Computer that will run the OPC server, type the name of the production computer, or click Browse to find and select the computer, and then click OK.

Step 4: Specify when HMI server components start or stop

In FactoryTalk View Studio, open the Properties dialog box for the HMI server in the application, to view the location of the HMI project files, the current number of displays in the application, and the maximum number of displays allowed.

You can add a description for the HMI server and, in the Components tab, select components that will start when the HMI server starts running.

Tip: In a local station application, the HMI server and the application have the same name. The name cannot be modified in the HMI server’s Properties dialog box.

To open the HMI Server Properties dialog box:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Studio.

2. In the Application Type Selection dialog box, select the application type and click Continue.

3. In the Existing tab, select the application and click Open.

4. In the Explorer window, right-click the HMI server and select Properties.

Use the HMI Server Properties dialog box to specify which components in an application will start automatically, when the HMI server starts running.

In a network station or local station application, the HMI server loads and the specified components start running when the FactoryTalk View SE Client connects to the application. When the client stops running, the HMI server is unloaded, and the specified shutdown macro is run.

How HMI server components start and stop
You can also start or stop the HMI server components manually. To do this, in the Components tab, click **Run Startup Components** and **Stop All Running Components**, respectively.

**To select HMI server startup and shutdown components:**

1. In the HMI Server Properties dialog box, click the **Components** tab.
2. To specify startup components, select the component check boxes, and then select the components you want to start automatically, when the HMI server starts running.
3. To specify a shutdown macro, select the check box **On shutdown macro**, and then select the macro you want to run when the HMI server stops running.

The FactoryTalk View Site Edition client provides a complete run-time operating environment that can run on remote client computers. You can use the client to:

- Load, view, and interact with multiple graphic displays at a time from multiple servers.
- Perform alarm management.
- View real-time and historical trends.
- Adjust set points.
- Start and stop components on any server.
- Provide a secure operator environment.

To run a network station or local station application, the FactoryTalk View SE Client must run on the same computer as the HMI server.

If you have already set up a FactoryTalk View SE Client file for the application, you can copy the file to the production computer. Otherwise, you can create a new client file.

The FactoryTalk View SE Client configuration file specifies the name of the application the client will connect to, the components that start when the connection is made, and how the client will behave at run time. The file is with a .cli extension.
Tip: It is not necessary to start the HMI server if you want to use the FactoryTalk View SE Client Wizard.

To create a FactoryTalk View SE Client file:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Site Edition Client.

2. In the FactoryTalk View SE Client Wizard, click Create a FactoryTalk View SE Client configuration file, and follow the on-screen instructions. For details about options in the wizard, click Help.

Lock operators into the run-time environment

To lock operators into the FactoryTalk View SE Client at run time, for example, to prevent access to other programs on the computer, try one or more of the following methods:

- **Limit the ability to manipulate graphic displays**, by removing the title bar or minimize and maximize buttons from selected displays.
  
  To do this, in the Display Settings dialog box, clear the check boxes Title Bar, Minimize Button, and Maximize Button. For details, see Chapter 16, Creating graphic displays in the FactoryTalk View Site Edition User's Guide.

- **Limit the ability to manipulate the client window**, by removing the title bar or minimize and maximize buttons from the client.
  
  To do this, in the FactoryTalk View SE Client wizard, clear the check boxes, Show title bar, and Show system menu and close button. For details, click Help in the FactoryTalk View SE Client wizard.

- **Prevent switching to other applications**. To do this, in the FactoryTalk View SE Client wizard, select the check box, Disable switch to other applications. For details, click Help in the FactoryTalk View SE Client wizard.

- **Restrict access to the desktop**, using the DeskLock tool.
  
  To open Desklock, on the desktop click Start > All Programs > Rockwell Software > FactoryTalk View > Tools, and then click DeskLock.

  For details about using DeskLock, click Help within the tool.

  **Note:** Do not enable DeskLock until you read the help for the tool and understand how it works. Otherwise, you could end up locking yourself out of the desktop.

Step 6: Run the FactoryTalk View SE Client

Once the application is deployed, test it by running the FactoryTalk View SE Client.
To run an SE Client from FactoryTalk View Studio:

1. In FactoryTalk View Studio, on the Tools menu, click Launch SE Client.
2. In the FactoryTalk View SE Client Wizard dialog box, select the client configuration file from the list of most recently used files and click Run. To search for and select another file, click the browse button.

To run an SE Client when Windows starts:

1. Create a shortcut to the .cli file (on the desktop, for example).
2. Move the shortcut to the Windows Startup folder.

For information about adding shortcuts to the Startup folder, see the Windows Help.

Administer deployed applications

To make minor changes to an application after it is deployed, use either FactoryTalk View Studio or the FactoryTalk View SE Administration Console. The SE Administration Console contains the following subset of editors.

<table>
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</table>

For details about options in these editors, click Help.

To open a local station application in FactoryTalk View Studio:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Studio.
2. In the Application Type Selection dialog box, select the application type and click Continue.
3. In the Existing tab, select the application and click Open.
Upgrade operating network distributed applications

Upgrading the FactoryTalk View Site Edition software in an automation and control application involves two core tasks: uninstalling the existing software and then installing the new version.

After installing the new software version, you should be able to open a FactoryTalk View SE\application in FactoryTalk View Studio, and then run the application in a FactoryTalk View SE Client without any further intervention.

Tip: Applications developed on versions 6.0 and earlier may need to be converted using the Legacy Tag Database Conversion utility. To start the utility, from Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > Tools, right-click Legacy Tag Database Conversion and select Run as administrator. For details about using the utility, click Help.

However, depending on the design, content, and complexity of your control system, you might have to perform additional tasks to support the upgrade, especially if you are upgrading FactoryTalk View SE in a production environment. The information in this chapter will help you safeguard the live application, while ensuring that the upgrade process is efficient and successful.

The upgrading steps vary depending on your application:

- Upgrade a non-redundant network distributed application on page 76
- Upgrade a redundant network distributed application on page 82

As there are many possible variations for this type of application, parts of the documented process might not apply directly to the application you are upgrading. If you have questions about architectural elements not covered in this chapter, for example, your application is more or less complex than the example provided, contact your local Rockwell Automation Sales office for assistance.
Chapter 9  Upgrade operating network distributed applications

Note: Before installing FactoryTalk View applications or any supporting software, review Hardware, operating system, and domain information on page 23, and ensure that you have performed the tasks that are appropriate to the role and configuration of each application host computer.

Information to help you upgrade

You can also look for answers in other Rockwell Automation product documentation, and on the Rockwell Automation Web site. See Open FactoryTalk View manuals.

Tip: RSView Enterprise is the former name of the FactoryTalk View family of software products. If you are upgrading from a version of RSView, the information in this chapter still applies, even though it refers to FactoryTalk View as the previous product version.

Find out about new features

After upgrading all the software components in your deployed application, to find out about features in the new product version, see the product Release Notes.

You can find Release Notes from:

- the FactoryTalk View installation package.
- the Common Setup page of the Setup wizard.
- the Windows Start menu after installation.
- the Help menu in FactoryTalk View Studio after installation.

Upgrade a non-redundant network distributed application

Use the following checklist as a guideline for upgrading your application. Details about each step are provided in this chapter.

Part 1: Prepare for the upgrade

- Step 1: Prepare for the upgrade on page 77
- Step 2: Back up the deployed application on page 78

Part 2: Perform upgrade of software components

- Step 3: Shut down all client computers on page 78
- Step 4: Upgrade the FactoryTalk Directory server on page 79
- Step 5: Upgrade the HMI server on page 79
- Step 6: Upgrade the data server on page 79
- Step 7: Upgrade the engineering workstation on page 80
- Step 8: Migrate the application on page 80
Upgrade operating network distributed applications

Chapter 9

Step 9: Upgrade all run-time clients on page 81

Step 10: Test the migrated application on page 81

Example

The following illustration shows an example of a FactoryTalk View SE network distributed application without redundant servers.

In this example, **Workstation #1** is the name of the engineering workstation. Assume that:

- The FactoryTalk Directory server, HMI server, and data server are hosted on different computers.
- The Tag Alarm and Event server and HMI server are hosted on the same computer.

![Diagram of FactoryTalk View SE network distributed application]

Part 1: Prepare for the upgrade

Step 1: Prepare for the upgrade

Use the following multi-step checklist as a guideline when you prepare for the upgrade. For details, see procedures that follow.

- Have the FactoryTalk View installation package on hand
- Log on with administrative rights on page 77
- Record the names and passwords of administrative users on page 78
- Perform set-up tasks on application computers on page 78

Log on with administrative rights

To perform certain tasks, the user performing the upgrade must have administrative rights in Windows and at the FactoryTalk Network Directory.

Windows administrative rights are required to install FactoryTalk View and supporting software because the Setup Wizard creates program folders and modifies registry entries.

FactoryTalk administrative rights are required to log on to the FactoryTalk Network Directory, for example, when you use the FactoryTalk Directory Server Location Utility.
To open the utility, you must log on as a FactoryTalk administrator on the local computer. To specify a remote Network Directory location, you must also have administrative rights on the remote computer.

FactoryTalk administrative rights are also required to back up and restore FactoryTalk View SE applications.

**Record the names and passwords of administrative users**

Before backing up the deployed application, ensure that you have recorded the user names and passwords of users that belong to the FactoryTalk administrators group.

Only members of the FactoryTalk administrators group can add, remove, or modify FactoryTalk user accounts, if this is necessary after restoring a backed-up application.

**Perform set-up tasks on application computers**

Before upgrading FactoryTalk View SE, review the chapter Hardware, operating system, and domain information on page 23. It contains information about tasks you can perform on application computers, to ensure that FactoryTalk View SE runs smoothly after it is installed. It also contains information about hardware and software requirements, and application limits.

**Step 2: Back up the deployed application**

Before backing up the deployed application, ensure that the most recent application data is available for the upgrade at the FactoryTalk Network Directory.

**Tip:** RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

**To back up the application on the HMI server**

1. From the Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager.

   **Tip:** The logged on user must have the Backup and restore directory contents permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the Create a Backup tab, select your application and follow the wizard to back up the application.

**Part 2: Perform upgrade of software components**

**Step 3: Shut down all client computers**

To disconnect the clients from the servers, shut down all run-time client computers, server computers, and Workstation #1.
**Step 4: Upgrade the FactoryTalk Directory server**

1. Close all open Windows programs.
2. From the installation package, double-click Setup.exe.
   
   Tip: If you host the FactoryTalk Network Directory, HMI server, and data server on the same computer, select Studio Enterprise.

4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.
   
   Tip: If you host the FactoryTalk Network Directory, HMI server, and data server on the same computer, skip to Step 7: Upgrade the engineering workstation on page 80.

**Step 5: Upgrade the HMI server**

1. Close all open Windows programs.
2. From the installation package, double-click Setup.exe.

4. If you have FactoryTalk Historian Management Tools installed, you need to manually uninstall the Management Tools Suite and the System Management Tools before installing FactoryTalk Historian Connectivity. For more information, see Rockwell Automation Answer ID 618193 and the product documentation.

5. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
6. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

**Step 6: Upgrade the data server**

1. Close all open Windows programs.
2. From the installation package, double-click Setup.exe.

4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

**Step 7: Upgrade the engineering workstation**

1. Close all open Windows programs.
2. From the installation package, double-click Setup.exe.
3. On the Welcome page, select Studio Enterprise and click Next.
4. If you have FactoryTalk Historian Management Tools installed, you need to manually uninstall the Management Tools Suite and the System Management Tools before installing FactoryTalk Historian Connectivity. For more information, see Rockwell Automation Answer ID 618193 and the product documentation.
5. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
6. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

**Step 8: Migrate the application**

Use the following checklist as a guideline when you migrate the FactoryTalk View SE application:

- Open the application in FactoryTalk View Studio on page 80
- Verify FactoryTalk Linx shortcuts on page 80
- Test the migrated application on page 81

**Open the application**

To migrate the application, open it in the new version of FactoryTalk View Studio installed on upgraded Workstation #1.

**To open the application:**

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Studio.
2. In the Application Type Selection dialog box, select the application type and click Continue.
3. In the Existing tab, select the application and click Open.
4. If prompted to convert the application the new version, click OK.
5. Wait until the HMI server and all project components in the application are loaded, and then leave the application open in FactoryTalk View Studio.

**Verify FactoryTalk Linx shortcuts**

To confirm that data communications are set up correctly in the migrated
application, verify that FactoryTalk Linx shortcuts point at the correct devices.

**To verify FactoryTalk Linx shortcuts:**

1. In FactoryTalk View Studio, expand the data server **FactoryTalk Linx**, and then double-click **Communications Setup**.

2. In the **Communications Setup** editor, select each configured FactoryTalk Linx shortcut, and ensure that it points at the correct device.

3. Save the configuration and close the **Communications Setup** editor.

**Test the migrated application**

To test the migrated application, run the application on **Workstation #1**.

1. On **Workstation #1**, start a FactoryTalk View SE Client configuration.

2. Ensure that data communications are functioning as expected.

**Step 9: Upgrade all run-time clients**

If you already have the **Client Install Portal** feature installed on the HMI server, you can upgrade the clients through a web browser. For detailed instructions, see *Install SE clients in a distributed system* on page 41. Otherwise, you can use the installation package. Follow the instructions below.

1. Close all open Windows programs.

2. From the installation package, double-click **Setup.exe**.

3. On the **Welcome** page, select **Site Edition Client** and click **Next**.

4. Follow the instructions to finish the installation. For more information, see *Install FactoryTalk View* on page 35.

5. After installation, install any necessary product updates. For more information, see *Install product updates* on page 99.

**Step 10: Test the migrated application**

To test the migrated FactoryTalk View SE application, perform these tasks:

- Run the migrated application on upgraded clients on page 81
- Verify that the system is functioning as expected on page 81

**Run the migrated application on upgraded clients**

On each of the upgraded run-time client computers, run the existing FactoryTalk View SE Client configuration file (.cli).

**Verify that the system is functioning as expected**

After the application starts running on the upgraded client computers, verify that display navigation, object animation, communications, alarming (if configured), and other applications features are functioning as expected.
Upgrade a redundant network distributed application

Upgrading a redundant system can be done in parts, allowing you to keep your system running without redundancy temporarily while you upgrade. During an upgrade, a temporary system can help you with verification and validation.

Use the following checklist as a guideline for upgrading your application. Details about each step are provided in this chapter.

Part 1: Prepare for the upgrade

- Step 1: Prepare for the upgrade on page 83
- Step 2: Back up the application on Server #1 on page 84

Part 2: Set up a separate system and perform a partial upgrade

- Step 3: Set up a temporary upgrade system on page 85
- Step 4: Upgrade Server #2 on page 88
- Step 5: Upgrade Workstation #1 on page 88
- Step 6: Migrate the application on page 88
- Step 7: Upgrade selected run-time clients on page 89
- Step 8: Test the migrated application on page 90

Part 3: Upgrade remaining computers and restore redundancy

- Step 9: Upgrade remaining client computers on page 91
- Step 10: Upgrade Server #1 on page 92
- Step 11: Restore redundancy and finish upgrading on page 93

Example

The following illustration shows an example of a FactoryTalk View SE network distributed application with redundant servers.

In this example, Server #1 is the name of the primary server computer, Server #2 is the name of the secondary server computer, and Workstation #1 is the name of the engineering workstation. Assume that:

- The FactoryTalk Directory server, primary data server, primary HMI server, and primary Tag Alarm and Event server are located on Server #1.
Part 1: Prepare for the upgrade

Step 1: Prepare for the upgrade

Log on with administrative rights

Use the following multi-step checklist as a guideline when you prepare for the upgrade. For details, see the procedures that follow.

- Have the FactoryTalk View installation package on hand
- Log on with administrative rights on page 83
- Record the names and passwords of administrative users on page 84
- Perform set-up tasks on application computers on page 84
- Ensure that the latest application files are on the primary server on page 84

To perform certain tasks, the user performing the upgrade must have administrative rights in Windows and at the FactoryTalk Network Directory.

Windows administrative rights are required to install FactoryTalk View and supporting software because the Setup Wizard creates program folders and modifies registry entries.

FactoryTalk administrative rights are required to log on to the FactoryTalk Network Directory, for example, when you use the FactoryTalk Directory Server Location Utility.

To open the utility, you must log on as a FactoryTalk administrator on the local computer. To specify a remote Network Directory location, you must also have administrative rights on the remote computer.

FactoryTalk administrative rights are also required to back up and restore FactoryTalk View SE applications.

- The secondary data server, secondary HMI server, and secondary Tag Alarm and Event server are located on Server #2.
### Record the names and passwords of administrative users

Before backing up the deployed application, ensure that you have recorded the user names and passwords of users that belong to the FactoryTalk administrators group.

Only members of the FactoryTalk administrators group can add, remove, or modify FactoryTalk user accounts, if this is necessary after restoring a backed-up application.

### Perform set-up tasks on application computers

Before upgrading FactoryTalk View SE, review the chapter Hardware, operating system, and domain information on page 23. It contains information about tasks you can perform on application computers, to ensure that FactoryTalk View SE runs smoothly after it is installed. It also contains information about hardware and software requirements, and application limits.

### Ensure that the latest application files are on the primary server

During the upgrade described in this chapter, the application and HMI project files backed up on the primary server are restored on the secondary server, and then migrated in FactoryTalk View Studio on the upgraded engineering workstation.

To ensure that you migrate and re-deploy the most recent application, ensure that the application and HMI project files you back up initially, on the primary server, are the most recent application files.

### Step 2: Back up the application on Server #1

Before backing up the deployed application, ensure that the most recent application data is available for the upgrade on Server #1.

Use the FactoryTalk View SE Application Manager tool to back up the application. The backup archive has an .APB extension, and includes all FactoryTalk Directory data, such as accounts, passwords, policies and security settings. It also includes all application contents like application configurations, HMI servers, data servers, and tag Alarm and Event servers.

Tip: RSLinx Classic configuration files are not included when you back up a FactoryTalk View SE application. You need to back up, move, and restore the RSLinx Classic configuration files manually.

To back up the application:

1. **On Server #1**, select **Start > All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE Application Manager**.

   Tip: The logged on user must have the **Backup and restore directory contents** permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the **Create a Backup** tab, select your application and specify the **Host Machine** as **Server #1**.
3. Follow the wizard to back up the application on Server #1. For more instructions, see FactoryTalk View SE Application Manager Help.

During this part, a temporary system is set up to test a partial upgrade that involves Server #2, Workstation #1, and selected run-time clients. For the test, Server #2 is set up to function as the primary server.

Tip: It is recommended that you upgrade the software on some application clients, confirm that the upgraded application is running as expected, and then upgrade the software on the remaining clients. The number of clients to upgrade initially is left to your discretion.

As part of the process, the original HMI project and application files that were backed up on Server #1 are restored on Server #2. The restored application will be migrated later, after Workstation #1 is upgraded.

Note: To avoid introducing incompatible software component versions into a deployed production system, be sure to restore the HMI project and application files before upgrading any software.

To set up a temporary system so that you can test a partial upgrade, perform the tasks below. For details, see the procedures that follow.

- Disable HMI and data server redundancy in the original application on page 86
- Copy the archive file to Server #2 on page 86
- Specify Server #2 as the Network Directory location on page 86
- Restore the application on Server #2 as the primary server on page 86
Chapter 9  Upgrade operating network distributed applications

- **Specify Server #2 as the Network Directory location for Workstation #1** on page 87
- **Disable redundancy on Server #2** on page 87
- **Disable alarm and event history logging** on page 87

To ensure that Server #2 can be detached from the application for upgrading, open the application in FactoryTalk View Studio, and disable redundancy for the HMI server and data server.

**To disable HMI and data server redundancy:**

1. On **Workstation #1**, open the application in FactoryTalk View Studio.
2. In the Explorer window, right-click the HMI server and select **Properties**.
3. In the **Redundancy** tab, clear the check box **Provide redundancy using a secondary server**, and click **OK**.
4. In the Explorer window, right-click the data server **FactoryTalk Linx** and select **Properties**.
5. In the **Redundancy** tab, clear the check box **Provide redundancy using a secondary server**, and click **OK**.

**Copy the archive file to Server #2**

Move the archive file (*.apb) created on Server #1 to Server #2.

**Specify Server #2 as the Network Directory location**

1. On **Server #2**, select **Start > All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location**.

   **Tip:** To use the utility, you have to log on as an administrator on the local computer.

2. Click the **Browse** button beside the field **Computer hosting directory server**.
3. In the **FactoryTalk Directory Server Configuration** dialog box, select **This computer** and click **OK**.

   **Tip:** To change the Network Directory location, you have to log on as an administrator on the new Network Directory computer (local or remote).

4. Click **OK** and then restart **Server #2**.

**Restore the application on Server #2 as the primary server**

1. On **Server #2**, from the Windows **Start** menu, select **All Programs > Rockwell Software > FactoryTalk View > Tools > FactoryTalk View SE**
Application Manager.

Tip: The logged on user must have the Backup and restore directory contents permission. For more information, see FactoryTalk Security Help or check with your System Administrator.

2. In the Restore an Archive tab, specify the restore scope as Restore application, with FactoryTalk Directory and the Primary Host as Server #2.

3. Follow the wizard to restore the application.

**Specify Server #2 as the Network Directory location for Workstation #1**

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

2. Click the Browse button beside the field, Computer hosting directory server.

3. In the FactoryTalk Directory Server Configuration dialog box, select Remote computer, type Server #2 and click OK.

Tip: To change the Network Directory location, you have to log on as an administrator on the new Network Directory computer (local or remote).

4. Click OK and then restart Workstation #1.

**Disable redundancy on Server #2**

1. On Workstation #1, open the restored application in FactoryTalk View Studio.

2. In the Explorer window, right-click the HMI server and select Properties.

3. In the Redundancy tab, clear the check box Provide redundancy using a secondary server, and click OK.

4. In the Explorer window, right-click the data server FactoryTalk Linx and select Properties.

5. In the Redundancy tab, clear the check box Provide redundancy using a secondary server, and click OK.

**Disable alarm and event history logging**

After you restore the application, the alarm and event history logging is also enabled on Server #2. It is recommended that you disable the history logging. Follow the steps below.

1. On Workstation #1, open the restored application in FactoryTalk View Studio.

2. In the Explorer window, right-click the Tag Alarm and Event server and select Properties.
3. In the Priorities and History tab, clear the Enable history check box and click OK.

**Step 4: Upgrade Server #2**

To upgrade the software components, install FactoryTalk View SE and any necessary products updates on **Server #2**.

1. On **Server #2**, close all open Windows programs.
2. Double-click **Setup.exe** within the installation package.
4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

**Step 5: Upgrade Workstation #1**

To upgrade the software components, install FactoryTalk View Studio and any necessary products updates on **Workstation #1**.

1. Close all open Windows programs.
2. From the installation package, double-click **Setup.exe**.
3. On the Welcome page, select Studio Enterprise and click Next.
4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

**Step 6: Migrate the application**

To migrate the FactoryTalk View SE application that was restored on **Server #2**, perform these tasks:

- Open the application in FactoryTalk View Studio on page 88
- Verify FactoryTalk Linx shortcuts on page 89
- Test the migrated application on page 89

**Open the application**

To migrate the application, open it in the new version of FactoryTalk View Studio installed on upgraded **Workstation #1**.

To open the application:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk View > FactoryTalk View Studio.
2. In the **Application Type Selection** dialog box, select the application type and click **Continue**.

3. In the **Existing** tab, select the application and click **Open**.

4. If prompted to convert the application the new version, click **OK**.

5. Wait until the HMI server and all project components in the application are loaded, and then leave the application open in FactoryTalk View Studio.

### Verify FactoryTalk Linx shortcuts

To confirm that data communications are set up correctly in the migrated application, verify that FactoryTalk Linx shortcuts point at the correct devices.

**To verify FactoryTalk Linx shortcuts:**

1. In FactoryTalk View Studio, expand the data server **FactoryTalk Linx**, and then double-click **Communications Setup**.

2. In the **Communications Setup** editor, select each configured FactoryTalk Linx shortcut, and ensure that it points at the correct device.

3. Save the configuration and close the **Communications Setup** editor.

### Test the migrated application

To test the migrated application, run the application on **Workstation #1**.

1. On **Workstation #1**, start a FactoryTalk View SE Client configuration.

2. Ensure that data communications are functioning as expected.

### Step 7: Upgrade selected run-time clients

To upgrade the software components, install FactoryTalk View SE Client and any necessary products updates on the selected run-time clients. Perform these tasks on each client computer. For details, see the procedures that follow.

- **Install FactoryTalk View SE Client** on page 89
- **Specify Server #2 as the Network Directory location on client computers** on page 90

### Install FactoryTalk View SE Client

If you already have the **Client Install Portal** feature installed on the HMI server, you can upgrade the clients through a web browser. For detailed instructions, see **Install SE clients in a distributed system** on page 41. Otherwise, you can use the installation package. Follow the instructions below.

1. Close all open Windows programs.

2. From the installation package, double-click **Setup.exe**.

3. On the **Welcome** page, select **Site Edition Client** and click **Next**.
4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.

5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

After upgrading the software on the client computer, specify Server #2 as the Network Directory location.

**Specify Server #2 as the Network Directory location on client computers**

To specify Server #2 as the Network Directory:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

2. Click the Browse button beside the field, Computer hosting directory server.

3. In the FactoryTalk Directory Server Configuration dialog box, select Remote computer, type Server #2 and click OK.

   **Tip:** To change the Network Directory location, you have to log on as an administrator on the new Network Directory computer (local or remote).

4. Click OK and then restart the client computer.

**Step 8: Test the migrated application**

To test the migrated application before upgrading remaining application computers, perform these tasks:

- **Start Server #2 and wait for it to finish starting** on page 90
- **Run the migrated application on upgraded clients** on page 91
- **Verify that the system is functioning as expected** on page 91

**Start Server #2 and wait for it to finish starting**

If Server #2 is not already started, start the server and wait for the server to finish starting.

To confirm that Server #2 has finished starting:

1. On Server #2, select Start > All Programs > Rockwell Software > FactoryTalk Tools > Diagnostics Viewer.

2. In the FactoryTalk Diagnostics Viewer, check for the following Diagnostics message:

   The HMI Server <ApplicationName>//Server #2 is the active server.
Run the migrated application on upgraded clients

On each of the upgraded run-time client computers, run the existing FactoryTalk View SE Client configuration file (.cli).

Verify that the system is functioning as expected

After the application starts running on the upgraded client computers, verify that display navigation, object animation, communications, alarming (if configured), and other applications features are functioning as expected.

Part 3: Upgrade remaining clients and restore redundancy

This part involves upgrading the remaining run-time clients and Server #1, and restoring the redundancy. After upgrading, Server #2 becomes the primary server and Server #1 becomes secondary.

Step 9: Upgrade remaining client computers

After testing the partially upgraded system, on the remaining client computers, install FactoryTalk View SE Client and point at Server #2 as the Network Directory. Perform these tasks:

- Install FactoryTalk View SE Client on page 89
- Specify Server #2 as the Network Directory for remaining clients on page 90

Install FactoryTalk View SE Client

If you already have the Client Install Portal feature installed on the HMI server, you can upgrade the clients through a web browser. For detailed instructions, see Install SE clients in a distributed system on page 41. Otherwise, you can use the installation package. Follow the instructions below.

1. Close all open Windows programs.
2. From the installation package, double-click Setup.exe.
4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.
5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

Specify Server #2 as the Network Directory location on client computers

After upgrading the software on the client computer, specify Server #2 as the Network Directory location.
To specify Server #2 as the Network Directory:

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

2. Click the Browse button beside the field, Computer hosting directory server.

3. In the FactoryTalk Directory Server Configuration dialog box, select Remote computer, type Server #2 and click OK.

   Tip: To change the Network Directory location, you have to log on as an administrator on the new Network Directory computer (local or remote).

4. Click OK and then restart the client computer.

**Step 10: Upgrade Server #1**

To upgrade FactoryTalk View SE and supporting software on Server #1, install FactoryTalk View SE Server and set up Server #1 to point at Server #2. Perform these tasks:

- Install FactoryTalk View SE Server on page 92
- Specify Server #2 as the Network Directory for Server #1 on page 92

**Install FactoryTalk View SE Server on Server #1**

1. On Server #1, close all open Windows programs.

2. Double-click Setup.exe within the installation package.


4. Follow the instructions to finish the installation. For more information, see Install FactoryTalk View on page 35.

5. After installation, install any necessary product updates. For more information, see Install product updates on page 99.

**Specify Server #2 as the Network Directory for Server #1**

1. From Windows Start menu, select All Programs > Rockwell Software > FactoryTalk Tools > Specify FactoryTalk Directory Location.

2. Click the Browse button beside the field, Computer hosting directory server.

3. In the FactoryTalk Directory Server Configuration dialog box, select Remote computer, type Server #2, and then click OK.

   Tip: To change the Network Directory location, you have to log on as an administrator on the new Network Directory computer (local or remote). In this case, the new location is remote.

4. Click OK again, and then restart Server #1.
Before finishing the upgrade, you need to enable the redundancy and check the server status. If the status is not right, restart **Server #1** and **Server #2**. Perform the following tasks:

- Enable HMI and data server redundancy on page 93
- Enable alarm and event history logging on page 93
- Confirm the status of primary and secondary servers on page 94
- Start all run-time clients on page 94

1. From Windows **Start** menu, select **All Programs** > **Rockwell Software** > **FactoryTalk View** > **FactoryTalk View Studio**.
2. In the **Application Type Selection** dialog box, select the application type and click **Continue**.
3. In the **Existing** tab, select the application and click **Open**.
4. In the Explorer window, right-click the HMI server and select **Properties**.
5. In the **Redundancy** tab, select the check box **Provide redundancy using a secondary server**.
6. Under the **Secondary Server** area, type **Server #1** and click **OK**.
7. In the Explorer window, right-click the data server **FactoryTalk Linx** and select **Properties**.
8. In the **Redundancy** tab, select the check box **Provide redundancy using a secondary server**.
9. Under the **Computer running secondary server** field, type **Server #1** and click **OK**.
10. From the menu, select **Tools** > **Options**. In the **Settings** tab, make sure the **Save edits to both active and standby HMI servers** option is selected.

If the alarm and event history logging is already disabled on **Server #2**, follow the steps below to enable the history logging.

1. On **Workstation #1**, open the restored application in FactoryTalk View Studio.
2. In the Explorer window, right-click the Tag Alarm and Event server and select **Properties**.
3. In the **Priorities and History** tab, select the **Enable history** check box, select the database and click **OK**.
Confirm the status of primary and secondary servers

On Workstation #1, in FactoryTalk View Studio, right-click the HMI server and then select Server Status.

In the Server Status dialog box:

- Server #2 and Active status are displayed in the fields Primary server and Primary status respectively.
- Server #1 and Standby status are displayed in the fields Secondary server and Secondary status respectively.

Tip: To switch the Active server to Server #1, click Switchover.

Start all run-time clients

To ensure that the entire, upgraded application is functioning as expected, run the existing FactoryTalk View SE Client configuration file on each run-time client computer.
FactoryTalk View tools and utilities

FactoryTalk View provides tools to create powerful, dependable process monitoring and supervisory control applications. This section contains the tools for FactoryTalk View SE and FactoryTalk.

To run the tools, select the Start button > All apps > Rockwell Software and then select the tool in the list of apps. The steps may vary depending on your operating system.

FactoryTalk View tools

Use the following tools for FactoryTalk View SE:

- **Application Documenter**
  Used to view the contents of the application’s components and the tags used in these components.

- **DeskLock**
  Used to prevent users of FactoryTalk View SE Client and FactoryTalk View ME from gaining access to the Windows desktop and system keys.

- **FactoryTalk View Alarm Migration Tool**
  Used to migrates legacy HMI alarms to FactoryTalk Alarms and Events tag-based alarms.

- **FactoryTalk View File Viewer**
  Used to view and save log files such as SE datalog files, ME datalog files, ME alarm log files and dBASE file.

- **FactoryTalk View SE Application Manager**
  Formerly known as Distributed Application Manager, used to manage all types of SE applications (network distributed, network station, and local station).

- **FactoryTalk View SE Cache File Management Tool**
  Used to manage the temporary files of HMI Server components.

- **FactoryTalk View SE Custom Website Setup**
  Used to create a custom website on an HMI server computer.
• **HMI Server Backup and Restore**
  Used to back up FactoryTalk View SE HMI servers while they are running. Use this utility when backing up or restoring a stand-alone system, or when deploying a distributed system from one set of computers to another.

• **Legacy Tag Database Conversion Utility**
  Used to convert legacy tag database (before View 6.0) to a new format to work with Microsoft SQL database.

• **SE Administration Console**
  Used to administer FactoryTalk View SE applications after they are deployed. Use the sub-set of editors available in the Administration Console to make minor changes to an application without installing FactoryTalk View Studio.

• **SE Service Manager**
  Used to stop or start the FactoryTalk View HMI Service manually on the computer.

• **Tag Import and Export Wizard**
  Used to import or export the FactoryTalk View SE Server’s tag database.

**FactoryTalk tools**

Use the following tools for FactoryTalk or FactoryTalk Alarms and Events:

• **Diagnostics Viewer**
  Used to view the contents of FactoryTalk Diagnostics logs, to help with troubleshooting the system.

• **FTAE Database Update Utility**
  Used to merge the ConditionEvent and TrackingEvent tables into the AllEvent table in the same database.

• **FactoryTalk Diagnostics Counter Monitor**
  Used to check the status of tags and to monitor the runtime values of counters and strings that are made available by network clients for diagnostic purposes.

• **FactoryTalk Directory Configuration Wizard**
  Used to set up the FactoryTalk Network Directory or Local Directory on the computer.

• **FactoryTalk Live Data Test Client**
  Used to test client and server data connections in an application.
- **Import RSSecurity Configuration**
  Used to import RSSecurity setup information to FactoryTalk Security.

- **Log On to FactoryTalk**
  Used to log users on and off the FactoryTalk Directory.

- **RSSecurity Emulator Install**
  Used to install the RSSecurity Emulator, which emulates an RSSecurity Server for legacy products.

- **Specify FactoryTalk Directory Location**
  Used to specify which computer on the network contains the FactoryTalk Network Directory service.

- **Windows Firewall Configuration Utility**
  Used to configure Windows firewall settings for FactoryTalk View.
Common upgrade procedures

This section contains notes, common procedures and information from the Rockwell Automation Knowledgebase that you may find helpful during installation of FactoryTalk View products.

Install product updates

After installing FactoryTalk View, we recommend installing the latest updates for your software.

Rockwell Automation Knowledgebase provides the updates through the Patch Tables of Contents (TOCs). A Patch TOC describes updates released for a particular product and version, and provides instructions for downloading and installing the updates on computers where the software is installed.

Use the FactoryTalk Updater tool to assist with the update. For instructions, see Update from the product on page 99.

You can also manually search Rockwell Automation Knowledgebase and locate the latest updates. For instructions, see Update from Rockwell Automation Knowledgebase on page 100.

Update from the product

FactoryTalk Updater assists management of installed Rockwell Automation software by announcing new versions and patch roll-ups. Registering for updates is not required to receive announcements from FactoryTalk Updater.

Tip:

- By default the tool is not installed when installing FactoryTalk View SE. Make sure to select it during the installation if you plan to use it.
- To receive notifications of new versions and patch roll-ups, the tool requires access to the Download Center web service. Verify that the firewall does not block access to this URL:

To update from the product:

1. From the Start menu or notification area, open FactoryTalk Updater.
2. In the Software Inventory tab, review the available updates.
4. If prompted, sign in with your account.
5. On the **Search Knowledgebase** page, beside **Refine search by**, select **Answer ID**.

6. In the **Search keywords** box, enter the knowledge base ID and select **Search**.

7. Follow the on-screen instructions to download and install the updates.

You can also manually search and locate the latest updates in Rockwell Automation Knowledgebase.

**To update from Rockwell Automation Knowledgebase:**

1. From the web browser, open Rockwell Automation Knowledgebase at [http://rockwellautomation.custhelp.com](http://rockwellautomation.custhelp.com).

2. On the **Search Knowledgebase** page, beside **Refine search by**, select **Product** and select **Software > Performance and Visualization (HMI) > FactoryTalk View SE**.

3. In the **Search keywords** box, type **Patch TOC** and select **Search**.

4. In the search results, look for Patch TOCs related to the products you installed.

5. Follow the on-screen instructions to download and install the updates.
Install Microsoft IIS

Microsoft Internet Information Services (IIS) is a critical service for a distributed FactoryTalk View SE System. The Setup wizard detects and installs IIS automatically if IIS is not available on the computer.

This appendix serves as a reference to help you troubleshoot issues and verify IIS settings.

The following table shows whether IIS is required on your computers:

<table>
<thead>
<tr>
<th>IIS required</th>
<th>IIS not needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>• FactoryTalk View SE Server</td>
<td>• FactoryTalk View SE Client</td>
</tr>
<tr>
<td>• FactoryTalk View Studio that needs to remotely connect to a Network FactoryTalk View SE system.</td>
<td>• FactoryTalk View Studio</td>
</tr>
<tr>
<td></td>
<td>• Stand Alone FactoryTalk Linx Server</td>
</tr>
<tr>
<td></td>
<td>• Stand Alone FactoryTalk Directory Server</td>
</tr>
</tbody>
</table>

**Manually install IIS**

The steps may vary because of different versions and configurations. Follow the on-screen instructions that apply to the operating systems you are using. If necessary, install IIS from your Microsoft Windows operating system installation package.

**To install IIS on Windows 10, 8.1, 8, or 7:**

1. Open Windows Control Panel, and click Programs.

2. Under Programs and Features, click Turn Windows features on or off. The Windows Features dialog box will open.

3. Click the checkbox to the left of Internet Information Services to enable settings.

4. Expand the Web Management Tools folders, and then expand the IIS 6 Management Compatibility folder.

5. Select the IIS Metabase and IIS 6 configuration compatibility check box.

6. Expand the World Wide Web Services folder and then expand the Application Development Features folder.
7. Select the **ASP** check box. The **ISAPI Extensions** check box should then be selected automatically.

8. Under the **World Wide Web Services** folder, expand the **Common HTTP Features** folder.

9. Under **World Wide Web Services** folder, expand the **Security** folder.

10. Select the **Windows Authentication** and **URL Authorization** check boxes.

   **Tip:** If IIS is installed correctly, you should be able to open the HMI server status page on localhost first, then from another computer. To test this, open Internet Explorer, in the address field, type `http://localhost/rsviewse`, or `http://computername/rsviewse`, then press Enter.

**To install IIS on Windows Server 2016, 2012, or 2008 R2:**

1. Select **Start** > **Administrative Tools** > **Server Manager**.

2. (Windows Server 2008 R2) In the **Server Manager** window, under **Roles Summary**, click **Add Roles**.
   
   (Windows Server 2012 or 2016) In the **Server Manager Dashboard** window, click **Add roles and features**.

3. Use the Add Roles Wizard (or Add Roles and Features Wizard) to add the **Web Server (IIS)** role.

4. To install the Web Server, some additional Windows features might need to be installed. In each case, click **Add Required Features**.

5. Click to expand **Security**, and then select the **Windows Authentication** and **URL Authorization** check boxes.

6. Click to expand **Application Development**, and then select **ASP**.

7. When prompted to install ISAPI Extensions, click **Add Required Role Services**.
The following example shows the installation for Windows Server 2008 R2.

8. Click to expand Management Tools and then expand IIS 6 Management Compatibility.


The following example shows the installation for Windows Server 2008 R2.
10. Click **Next**, and then accept the default selections at each remaining step of the wizard by clicking **Next** until all of the steps are complete.

11. At the end of the wizard, click **Install** to install the Web Server role.

**About uninstalling IIS**

If for some reasons, you need to uninstall and then reinstall IIS, after reinstalling, you need to recreate the virtual directories in IIS.

Use **RSViewWebManager** to recreate the virtual directories. The default location is:

- **C:\Program Files (x86)\Rockwell Software\RSView Enterprise\RSViewWebManager.exe** for 64-bit operating systems
- **C:\Program Files\Rockwell Software\RSView Enterprise\RSViewWebManager.exe** for 32-bit operating systems
Appendix D

Use command-line installation

You can typically use this installation method for unattended installation.

The unattended installation is an automated installation method that reduces user interaction. It is typically used for large-scale rollouts when it might be too slow and costly to have administrators or technicians interactively install FactoryTalk View on individual computers.

The command-line installation requires the administrator permission. The steps may vary slightly depending on your operating system.

To perform command-line installation:

1. Close all open Windows programs.
2. Open the Command Prompt window.
3. In the Command Prompt window, navigate to $C:\Users\Public\Documents\FTView$, where $C:\Users\Public\Documents\FTView$ is the folder containing the FactoryTalk View installation package, and press Enter.
4. If the User Account Control dialog box shows, click Yes.
5. In the Command Prompt window, type a command line with the following syntax and press Enter.

   `Setup.exe [/parameter=value] [...]`

For more information about parameters, type `Setup.exe /?` or see Command-line parameters on page 105.

Command-line parameters

The following table identifies the installation command-line parameters. Command-line parameters are case-insensitive. However, if a specified value includes a space, be sure to enclose the value in quotation marks (for example, "value with spaces").

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/?</td>
<td>Shows the usage options for installation parameters.</td>
</tr>
</tbody>
</table>
### Appendix D  Use command-line installation

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/Q</td>
<td>Silent Install. Install runs in a quiet mode without any user interface.</td>
</tr>
<tr>
<td></td>
<td>This parameter is recommended if you are deploying the software installation using an IT tool or script, and don't expect to see any error or restart messages. When using this parameter, your IT tool or script should check the error codes, and respond as needed. For example, if the installation returns error code 1641, then the IT tool or script should restart the computer and relaunch the installation after restart. This parameter is required if /QS or /Record is not specified.</td>
</tr>
<tr>
<td>/QS</td>
<td>Unattended Install. Install runs in a quiet simple mode and shows progress through the UI. It does not accept any input, but still shows error or restart messages. When using this parameter, you will not have to check the error codes, and the installation will stop and show a prompt if there are error or restart messages. For example, if an immediate restart is required to complete the install, a restart message will be shown for you to confirm the restart. Installation resumes automatically from the point of interruption after restart. This parameter is required if /Q or /Record is not specified.</td>
</tr>
<tr>
<td>/IAcceptAllLicenseTerms</td>
<td>Acknowledges acceptance of the license terms and agreement to continue the installation. This parameter is required.</td>
</tr>
<tr>
<td>/AutoRestart</td>
<td>Automatically restarts the computer after the installation is complete. Used when a restart is required to complete the installation. This parameter is optional. If this parameter is not used, silent install (/Q) will return error code 1641 or 3010 if a restart is required, and unattended install (/QS) will result in a confirmation prompt that must be agreed to before the installation is completed.</td>
</tr>
</tbody>
</table>
| /SetupLanguage="value" | Specifies which language will be shown during install process. This parameter is optional. If this parameter is not used, the default language is the current user or operating system user interface language. The value must be one of the following:  
  - ENU  
  - CHS  
  - DEU  
  - ESP  
  - FRA  
  - ITA  
  - JPN  
  - KOR  
  - PTB |
| /Record            | Records the installation options chosen to a recording file. This parameter is optional. |
| /Playback          | Plays back a recording file to specify the installation options. This parameter is optional. |
| /Repair            | Runs a repair operation on the installed products. This parameter is optional. |
Parameter | Description |
--- | --- |
/Product="value" | Specifies which product will be installed. This parameter is required. The value must be one of following: • Studio Enterprise • Site Edition Server • Site Edition Client • Site Edition Station • FactoryTalk ViewPoint SE • Stand-alone FactoryTalk Linx Server • Stand-alone FactoryTalk Directory Server |
/Uninstall | Uninstalls components that are already installed with the product specified. This parameter is optional. |
/ProductLanguage="value" | Specifies the language version of the software being installed. This parameter is optional. If this parameter is not used, the default language is the same as the setup language. If the software does not support multiple languages, this parameter is not available. The value must be one of the following: • ENU • CHS • DEU • FRA • JPN |
/InstallDrive="value" | Specifies the installation drive. This parameter is optional. If this parameter is not used, the default install drive is C:. |
/SerialNumber="value" | Specifies the serial number of the software being installed. This is used to activate the software during installation. This parameter is optional. If it is not specified the software must be activated manually after installation if activation is required. Some software does not require activation. If activation is not required, this parameter is not available. |
/ProductKey="value" | Specifies the product key used to get activation keys during installation. This parameter is optional. If it is not specified, the software must be activated manually after installation if activation is required. Some software does not require activation. If activation is not required, this parameter is not available. |
/Version="value" | Specifies the version of the software to activate which corresponds to the product version associated with the SerialNumber and ProductKey. This parameter is optional. If it is not specified, the installer will use the most recent product version available. Some software does not require activation. If activation is not required, this parameter is not available. |

**Error codes**

The following table identifies the error codes that can be returned by an installation.
### Examples

The following examples show how to use the commands for the installation.

**Example 1: Install with default settings**

```cmd
Setup.exe /Q /IAcceptAllLicenseTerms /Product="Studio Enterprise"
```

means:

- FactoryTalk View Studio Enterprise will be installed with default settings.

**Example 2: Install with customized settings**

```cmd
Setup.exe /QS /IAcceptAllLicenseTerms /AutoRestart /SetupLanguage=CHS /Product="Site Edition Client" /SerialNumber=0123456789 /ProductKey=ABCDE-FGHIJ /Version=10.00.00
```

means:

- FactoryTalk View Site Edition Client version 10.00.00 will be installed.
- The displayed language is Chinese during the installation.
- The setup will get activation keys during installation if the serial number 0123456789 and product key ABCDE-FGHIJ are valid.
- After the installation, if a restart is required, the computer will be restarted automatically.

**Example 3: Install and record selections**

```cmd
Setup.exe /Record
```

means
• FactoryTalk View will open the Setup wizard and record your selections during the installation.

• When complete, FactoryTalk View will save the recording file to your desktop.

Example 4: Install with a recording file

Setup.exe /Q /IAcceptAllLicenseTerms
/Playback="C:\Users\Public\FactoryTalk View Studio Enterprise.rec"

means:

• FactoryTalk View will use the recording file FactoryTalk View Studio Enterprise.rec to complete the installation.

Example 5: Uninstall

Setup.exe /Q /Uninstall /Product="Studio Enterprise"

means:

• FactoryTalk View Studio Enterprise and the components that are installed with FactoryTalk View Studio Enterprise will be uninstalled.

• Components, such as FactoryTalk Activation Manager, that are shared with other products will not be uninstalled.
Troubleshoot KEPServer Enterprise

If you are using KEPServer Enterprise as an OPC server with FactoryTalk View version 9.00.00 or later and using an HMI tag to connect to a third-party device, you will not be able to access the tag value. The cause is that the security enhancements in FactoryTalk View version 9.00.00 or later affect the communications with third-party devices. To access the tag value, additional Distributed Component Object Model (DCOM) configuration is required for KEPServer Enterprise on the computers.

If you are using a direct reference tag through the KEPServer Enterprise OPC server, you can access the tag value successfully.

In the following steps, KEPServer Enterprise 5.19 is used as an example. The steps also apply to earlier versions of KEPServer Enterprise.

To set DCOM configuration for KEPServer Enterprise

1. Open Component Services.

   Tip: You can open Component Services from Control Panel > Administrative Tools, or use the search box on the Windows Start menu or the taskbar. For more information about how to open Component Services, see Windows Help.

2. From the console tree, select Component Services > Computers > My Computer > DCOM Config.

3. Under the DCOM Config node, right-click KEPServiceEnterprise 5.19 and select Properties.
4. In the **KEPServerEnterprise 5.19 Properties** dialog box, click the **Security** tab.
5. In the **Launch and Activation Permissions** area, select **Customize** and click **Edit**. The **Launch and Activation Permission** dialog box opens.

6. If **LOCAL SERVICE** is not in the **Group or user names** box, add **LOCAL SERVICE**.
   
   a. Click **Add**.
   
   b. In the **Select Users or Groups** dialog box, enter **LOCAL SERVICE**.
   
   c. Click **OK**.

**LOCAL SERVICE** shows in the **Group or user names** list.

7. Allow Local Launch permission and Local Activation permission for **LOCAL SERVICE**.
a. In the **Group or user names** box, select **LOCAL SERVICE**.

b. In the **Permissions for LOCAL SERVICE** box, select the **Allow** check boxes for **Local Launch** and **Local Activation**.

c. Click **OK**.

8. On the **Security** tab, in the **Access Permissions** area, select **Customize** and click **Edit**. The **Access Permission** dialog box opens.

9. If **LOCAL SERVICE** is not in the **Group or user names** box, add **LOCAL SERVICE**. For detailed instruction, see step 6.
10. Allow Local Access permission and Remote Access permission for LOCAL SERVICE. For detailed instruction, see step 7.

11. Click **OK** to close the **KEPServerEnterprise 5.19 Properties** dialog box.

12. Restart the computer to apply the changes.
**Index**

### A

- about
  - activation keys 45
  - Application Documenter 97
  - Application Manager 97
  - DeskLock 97
  - Diagnostics Viewer 98
  - FactoryTalk Activation 43
  - FactoryTalk Directory Configuration Wizard 98
  - FactoryTalk Services Platform 19
  - FactoryTalk View SE Alternate Website Setup 97
  - FactoryTalk View SE Cache Management Tool 97
  - FactoryTalk View SE Client 17
  - FactoryTalk View SE Server 17, 97
  - FactoryTalk View Site Edition 15
  - FactoryTalk View Studio 16
  - HMI servers 17, 64, 73
  - Import RSSLing Security Configuration 98
  - Log On to FactoryTalk 98
  - Rockwell Software Data Client 98
  - RSSLing Security Emulator Install 98
  - SE Service Manager 97
  - Specify FactoryTalk Directory Location 98
  - Tag Import and Export Wizard 97
  - tools and utilities 98
  - unattended installation 35, 107
  - Uninstall FactoryTalk View 97
  - Windows Firewall Configuration Utility 98
- activating 43
  - about keys 45
  - borrowed activation files 45
  - floating activation files 44, 46
  - grace period 43
  - read-write keys 46
  - sharing keys 46
  - troubleshooting 43, 44
  - view-only keys 46
- activation files
  - floating 44, 46
  - read-write 46
  - troubleshooting 43, 44
  - upgrading to enable borrowing 45
  - view-only 46
- activation keys 45
- sharing 46
- administrator rights
  - required for backing up and restoring 51
  - required for upgrading 85
- alarms and events
  - hardware requirements 23
- application servers
  - operating system requirements 25
- applications
  - backing up 49
  - deploying local 59, 69
  - deploying network 49
  - restoring 60, 69
  - restoring local 60, 69
  - restoring network 51
  - run-time clients 55, 73
  - testing 92
  - troubleshooting 28
  - upgrading 84
  - upgrading redundant 84
  - upgrading run-time clients 91, 93
- auto-negotiation
  - of NIC for unmanaged switches 29, 30

### B

- backing up and restoring
  - data servers 61, 70
  - naming computers 62, 71
  - renewing shortcuts, topics, and device paths 52, 91
  - RSSLing Classic Backup Restore Utility 52
  - servers 89, 90
  - System folder 50, 51
  - troubleshooting 56
  - upgrading 86

### C

- clients
  - copying files 55
  - run-time 55, 73
  - starting at run-time 56, 74
  - troubleshooting 56
  - upgrading 91, 93
  - using floating activations 46
- clocks
  - synchronizing time 28
compatibility
  Windows  27
components
  choosing which ones to install  36
computer names  28
data servers  62, 71
  troubleshooting  28
computers
  naming  28, 62, 71
  synchronizing time  28
  troubleshooting naming  28

D
Data Execution Prevention (DEP)
  setting up  33
data servers
  backing up and restoring RSLinx Classic  52
  moving files  61, 70
  renewing shortcuts, topics, and device paths  52, 91
  troubleshooting loading  71
DCOM protocols
  removing unnecessary  33
deploying local applications  59, 69
  backing up  60, 69
  creating new client files  55
  moving RSLinx Classic files  52
  restoring  60, 69
  starting or stopping HMI servers  72
  updating data server names  62
deploying network applications  49
  backing up  49
  changing HMI server properties  53
  copying client files  55
  creating new client files  55
  restoring  51
  synchronizing HMI servers with projects  54
  updating data server names  62
DeskLock  56, 97
device paths
  renewing after backup and restore  52, 91
Diagnostics Viewer  98
documentation
  FactoryTalk View SE  9
domains
  controller requirements  27
  design considerations  26
  setting up  26
duplex
  setting up for NIC  30

E
engineering workstations
  upgrading  90
F
FactoryTalk Alarms and Events
  hardware requirements  23
FactoryTalk Diagnostics Viewer  92
FactoryTalk Directory  17
FactoryTalk Directory Configuration Wizard  98
FactoryTalk Linx
  backing up and restoring device paths  60
FactoryTalk Services Platform  19
  FactoryTalk Help  78
FactoryTalk tools and utilities  98
FactoryTalk View SE Cache Management Tool  97
FactoryTalk View SE Client  17
  copying client files  55
  creating new client files  55
  file locations  55, 56, 74
  setting up security  56
  starting  56, 74
  starting when Windows starts  74
  using .cli file  56, 74
FactoryTalk View SE Server  17
FactoryTalk View Site Edition  15
  documentation set ix  9
  installing  35
  release notes  9
  upgrading  77
FactoryTalk View Studio  16
  file locations
    SE Client files  55, 56, 74
  finding information
    about FactoryTalk  78
    about FactoryTalk View SE  9
    on the Internet  10
tools
  technical support  10
  third-party incompatible  31
folders
SE Client files  55, 56, 74

G
grace period
  activating FactoryTalk View SE  43

H
hardware requirements  23
  FactoryTalk Alarms and Events  23
HMI Server Backup and Restore utility  97
HMI servers  17, 64
  setting up properties  53
  starting or stopping  53, 64
  synchronizing with projects  54

I
Import RSSecurity Configuration  98
incompatible firewalls  31
installing
  choosing components  36
  FactoryTalk View SE  35
  product updates  101
  troubleshooting  77
  upgrading  77
Internet Explorer
  removing enhanced security configuration  31
Internet Information Services (IIS)
  configuring  103
  uninstalling  106
Internet technical support  10

K
keys
  FactoryTalk Activation  45
  sharing for FactoryTalk Activation  46
knowledgebase  26, 27, 101

L
loading
  data servers  62
local applications
  administering at run time  66
  run-time clients  73
  security  56
Log On to FactoryTalk  98

M
moving files
  data servers  61, 62, 70, 71

N
naming
  computers  28, 62, 71
  data server computers  62, 71
  troubleshooting computer names  28
network applications
  run-time clients  55
  security  56
  troubleshooting  56
Network Directory
  specifying location  39, 88
network interface cards (NIC)
  disabling power saving  31
  duplex  30
  troubleshooting  30
network switches
  troubleshooting  30
networks
  removing unnecessary DCOM protocols  33

O
OLE for Process Control (OPC)
  renaming data servers  71
  using for communications  20
online Help
  FactoryTalk Services Platform  78
  release notes  9, 78
operating systems
  requirements  24
operator workstations
  upgrading  91
overview
  deploying local applications  49, 59
  upgrading redundant applications  84
ports troubleshooting on network switches 30
power saving disabling for NIC 31
product updates installing 101
project files folder locations 55, 74

redundancy disabling for upgrade 88
operating system requirements 26
replicating changes 54
servers 89, 90
synchronizing servers and projects 54
troubleshooting 53, 54
release notes 9, 78
FactoryTalk View SE 9
replication of redundant servers 54
restoring network applications 51
Rockwell Automation Knowledgebase 26, 27, 101
Rockwell Software contacting 10
Rockwell Software Data Client 98
RSLink Classic Backup Restore Utility 52
RSSEcurity Emulator Install 98
RSView Enterprise upgrading to FactoryTalk View Site Edition 84
RSView SE Client 17
RSView SE Server 17
run time
locations of SE Client files 55, 56, 74
setting up FactoryTalk View SE Clients 55

servers backing up and restoring 89, 90
disabling redundancy for upgrade 88
loading 71
operating system requirements for applications 25
redundancy 89, 90
replication 54
synchronizing redundant 54
upgrading 89, 90, 93, 94
verifying running 92
service packs
Windows compatibility 27
sharing activation keys 46
shortcuts
renewing after backup and restore 52, 91
Specify FactoryTalk Directory Location 39, 88, 98
switches
using unmanaged 29, 30
synchronizing redundant servers 54
time on computers 28
troubleshooting redundancy 54
System Configuration Guide for FactoryTalk Security 49
System folder
backing up 50
restoring 51
system requirements application servers 25
domain controllers 27
hardware 23
operating systems 24
redundancy 26
workgroups 27

Tag Import and Export Wizard 97
technical support 10
testing
upgraded applications 92
third-party firewalls
incompatible 31
time
synchronizing on computers 28
using scheduled downtime for upgrades 87

SE Service Manager 97
security
DeskLock tool 56
locking users into FactoryTalk View 56
removing enhanced in Internet Explorer 31

T
Index

renewing after backup and restore 52, 91

troubleshooting
applications 56
clients 56
data servers 71
FactoryTalk Activation 43
network applications 56
network interface cards (NIC) 30
network switches 30
redundancy 53, 54

U

Unattended installation 35, 107
Uninstall FactoryTalk View 97
unmanaged switches
auto-negotiation 29, 30
using 29, 30
upgrading 43, 77
about activation keys 44, 45, 46
backing up and restoring 86
disabling redundancy 88
from RSView Enterprise to FactoryTalk View 78
grace period 43
installing product updates 101
non-redundant applications 78
planning 85
read-write keys 46
run-time clients 91, 93
servers 89, 90, 93, 94
sharing activation keys 46
testing applications 92
troubleshooting 43, 44, 88
upgrading for borrowed activation files 45
using scheduled downtime 87
view-only keys 46
workstations 90, 91, 93

V

virtual directories
recreating in IIS 106

W

Windows
compatibility 27
Rockwell Automation support

Rockwell Automation provides technical information on the web to assist you in using its products. At [http://www.rockwellautomation.com/support](http://www.rockwellautomation.com/support) you can find technical and application notes, sample code, and links to software service packs. You can also visit our Support Center at [https://rockwellautomation.custhelp.com](https://rockwellautomation.custhelp.com) for software updates, support chats and forums, technical information, FAQs, and to sign up for product notification updates.

In addition, we offer multiple support programs for installation, configuration, and troubleshooting. For more information, contact your local distributor or Rockwell Automation representative, or visit [http://www.rockwellautomation.com/services/online-phone](http://www.rockwellautomation.com/services/online-phone).

Installation assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

<table>
<thead>
<tr>
<th>United States or Canada</th>
<th>1.440.646.3434</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside United States or Canada</td>
<td>Use the Worldwide Locator available at <a href="http://www.rockwellautomation.com/locations">http://www.rockwellautomation.com/locations</a>, or contact your local Rockwell Automation representative.</td>
</tr>
</tbody>
</table>

New product satisfaction return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

<table>
<thead>
<tr>
<th>United States</th>
<th>Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside United States</td>
<td>Please contact your local Rockwell Automation representative for the return procedure.</td>
</tr>
</tbody>
</table>

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