

### **RSLinx® Classic Getting Results Guide**

Getting Results Guide









### Chapter 1 Introduction How does the getting results guide fit in with other Rockwell Software Help.......7 Document conventions 8 Feedback 8 Chapter 2 Welcome to RSLinx What is RSLinx Classic? 9 Classic Chapter 3 Install and start **RSLinx Classic** Start RSLinx Classic software 21

	Chapter 4	
RSWho	Use RSWho	
	Control bar	
	Tree control	
	List control	25
	Chapter 5	
OPC and DDE	OPC	
Connectivity	DDE	
Connectivity	DDE/OPC client connectivity	28
	Chapter 6	
Register EDS files of	Manually upload and register EDS files in the RSWho	29
devices	Automatically upload and register EDS files in the RSWho	30
devices	Manually register EDS files in the EDS Hardware Installation Tool	31
	View existing EDS files of devices on the computer	32
	Unregister EDS files in EDS Hardware Installation Tool	
	Uninstall EDS Hardware Installation Tool and all EDS files	34
	Chapter 7	
Compact harmony files	Compact harmony files in RSLinx Classic	37
illes	Chapter 8	
Find the information	Use the help	
you need	Access help for a control or field	
, oa 1100a	Find step-by-step procedures	
	Find definitions	
	Access guides	
	Training	
	Technical support	
	When you call	43
	Appendix A	
Activation	Grace period	
	Activate RSLinx Classic with FactoryTalk Activation Manager	
	How to activate RSLinx Classic	
	Find more information about FactoryTalk Activation	46

#### Appendix B Secure RSLinx If you have not used FactoryTalk Security or RSSecurity before......... 47 Classic with FactoryTalk Security Miscellaneous 56 Appendix C **Install RSLinx** Classic with command line syntax Appendix D Using RSLinx Classic RSWho.......65 with ControlFlash

**Glossary** 

Index

### Introduction

### Purpose of the document

The *Getting Results with RSLinx Classic*™ guide provides you with information on how to install and navigate the RSLinx Classic software. It explains how to access and navigate the help, and how to effectively use the RSLinx Classic software.

### Intended audience

We assume that you are familiar with:

- IBM-compliant personal computers
- Microsoft® Windows® operating systems
- OPC (OLE for Process Control®) communication
- DDE (Microsoft dynamic data exchange) messaging
- Allen-Bradley PLC<sup>TM</sup> (programmable logic controllers)
- Rockwell Software PLC programming tools

How does the getting results guide fit in with other Rockwell Software product documentation?

This getting results guide can be considered the entry point into Rockwell Software documentation set for this product. The documentation set contains pertinent, easily accessible product information and ships with the software product. This set ships with the software product, and is designed to free you from tedious paper shuffling and reduce information overload.

Help

Other components of the documentation set include electronic release notes and help.

The help includes all overview, procedural, screen, and reference information for the product. The help contains these basic components: overview topics, quick start topics, step-by-step procedures, and screen element descriptions (for example, text boxes, drop-down lists, and option buttons). All of the help is context-sensitive with the application, and provides you with immediate access to application tasks and screen element descriptions. For a more detailed description of the help, see Chapter Five, *Find the information you need*.

Note: This getting results guide, as well as any reference guides, are included in a PDF (portable document format) on your RSLinx Classic DVD.

These files must be viewed using the Adobe Acrobat Reader software, which you can download for free from the Adobe website: http://www.adobe.com

### **Document** conventions

### **Feedback**

The conventions used throughout this document for the user interface comply with those recommended by Microsoft. If you are not familiar with the Microsoft Windows user interface, read the documentation supplied with the operating system you are using before attempting to use this software.

Please use the feedback form packaged with your software to report errors, or let us know what information you would like to see added in future editions of this document. You can also send an email message to info@software.rockwell.com with any comments about Rockwell products and services.

### Welcome to RSLinx Classic

This chapter includes the following information:

- What is RSLinx Classic?
- Differences between RSLinx Classic types
- Quick start
- Explore RSLinx Classic

### What is RSLinx Classic?

RSLinx Classic for Rockwell Automation Networks and Devices is a comprehensive factory communication solution, providing Allen-Bradley programmable controller access to a wide variety of Rockwell Software and Allen-Bradley applications. These range from device programming and configuration applications such as RSLogix and RSNetWorx, to HMI (Human-Machine Interface) applications such as RSView32, FactoryTalk View SE (Site Edition), and FactoryTalk View ME (Machine Edition), 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. The API (Application Programming Interface) supports custom applications developed with the RSLinx Classic SDK. RSLinx Classic is an OPC Data Access Compliant Server and a DDE server.

## Differences between RSLinx Classic types

RSLinx Classic is available in four versions to meet the demand for a variety of cost and functionality requirements. Depending on the version you are running, some functionality may or may not be operational. Refer to the following sections for specific version functionality.

The RSLinx Classic version you are running appears in the title bar at the top of the main window. If a version of RSLinx Classic is started without the proper activation files, it runs as RSLinx Classic Lite.

### **RSLinx Classic Lite**

RSLinx Classic Lite provides the minimum functionality required to support RSLogix and RSNetWorx. This version is not commercially available, but is bundled with products that require only direct access to the RSLinx Classic network drivers. This version does not support OPC, DDE, or the published RSLinx Classic C API (Application Programming Interface).

RSLinx Classic Lite is used for the following:

- Ladder logic programming using RSLogix products.
- Network and device configuration and diagnostics using RSNetWorx.

- Configuring Ethernet modules and devices (for example, 1756-ENET, 1756-DHRIO, and so on).
- Upgrading firmware using ControlFlash.
- Browsing networks and getting device information such as firmware revision.

### RSLinx Classic Single Node

RSLinx Classic Single Node includes the required functionality to supply communication services for all Rockwell Software products. OPC and DDE interfaces are supported, but to only one device. It does not support applications developed for the RSLinx Classic C API, or direct drivers in HMI applications. RSLinx Classic OEM or higher is required for these application types.

RSLinx Classic Single Node is used for the following:

- Data acquisition using OPC or DDE to only one device. This includes clients such as RSView32, FactoryTalk View SE, FactoryTalk View ME Station, Microsoft Office, Visual Basic, and web pages. Note that this is limited to 32bit client only.
- Ladder logic programming using RSLogix products.
- Network and device configuration and diagnostics using RSNetWorx.
- Configuring Ethernet modules and devices (for example, 1756-ENET, 1756-DHRIO, and so on).
- Upgrading firmware using ControlFlash.
- Browsing networks and getting device information such as firmware revision.

### **RSLinx Classic OEM**

RSLinx Classic OEM includes the required functionality to supply communication services for all Rockwell Software products. OPC and DDE clients are supported for any number of devices. It also supports applications developed for the RSLinx Classic C API. But note that this is limited to 32bit client only.

RSLinx OEM version 2.2 and previous versions only supported AdvanceDDE. RSLinx Version 2.3 and subsequent versions support all DDE types except FastDDE.

RSLinx Classic OEM is used for the following:

- Data acquisition using OPC or DDE to any number of devices. This
  includes clients such as RSView32, FactoryTalk View SE, FactoryTalk
  View ME Station, Microsoft Office, Visual Basic, and web pages.
- Ladder logic programming using RSLogix products.
- Network and device configuration and diagnostics using RSNetWorx.
- Configuring Ethernet modules and devices (for example, 1756-ENET, 1756-DHRIO, and so on).

Welcome to RSLinx Classic Chapter 2

#### • Upgrading firmware using ControlFlash.

 Browsing networks and getting device information such as firmware revision.

### RSLinx Classic Gateway

RSLinx Classic Gateway extends RSLinx Classic-based communication throughout the enterprise by connecting clients over TCP/IP networks. Programming and configuration products such as RSLogix and RSNetWorx use a local RSLinx Classic Lite or better with a Remote Devices via Linx Gateway driver configured to communicate to the RSLinx Classic Gateway. Remote HMIs and VB/VBA applications including Microsoft Office can use remote OPC to communicate to RSLinx Classic Gateway for data collection. This allows you to have multiple distributed computers performing data collection without having RSLinx Classic installed on each machine!

In addition to the capabilities provided in the RSLinx Classic Professional version, RSLinx Classic Gateway offers remote connectivity to:

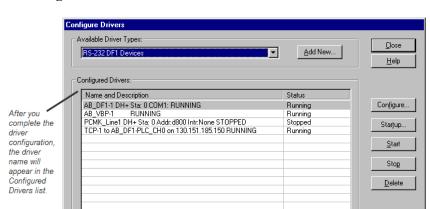
- Multiple RSView32, FactoryTalk View SE, and FactoryTalk View ME Station clients accessing data through one RSLinx Classic Gateway (remote OPC).
- Remote computer running RSLogix connecting to a plant network over a modem for online program changes.
- Remote Microsoft Office applications showing plant floor data such as Excel.
- A web page showing plant floor data when the web server and RSLinx Classic are on separate computers.

### **Quick start**

This section outlines the main tasks you need to perform to use the RSLinx Classic software. The quick start information included in this section is intended to be a high-level, conceptual overview. When you are ready to use RSLinx Classic software, follow the detailed procedures found in the Quick Start, which is located in the RSLinx Classic help. To access the Quick Start, click **Help > Quick Start** from within RSLinx Classic. For information about specific controls on RSLinx Classic windows and dialog boxes, right-click any control.

### Step 1 Configure a driver

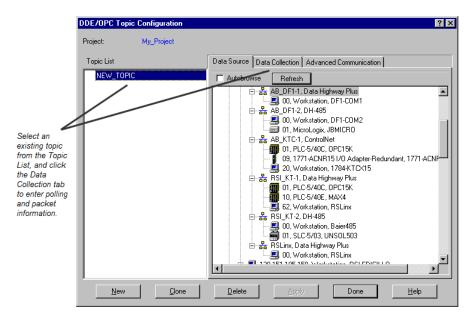
A driver is the software interface to the hardware device that will be used to communicate between RSLinx Classic and your processor. To configure a driver in RSLinx Classic, click **Communications > Configure Drivers**. The **Configure Drivers dialog** box appears, which is used for adding, editing, or deleting drivers. Click a driver to configure from the Available Driver Types list, click **Add New**, and complete the information required in the driver configuration dialog box that shows. The driver configuration dialog box varies depending on which driver you select.



After you complete the driver configuration, the driver name will appear in the **Configured Drivers** list.

### Step 2 Configure a topic

In RSLinx Classic, a project is a storage container for one or more topics, and a topic represents a specific path to a processor. By grouping topics together in a project, you can make multiple topics available at the same time. To create or edit a project in RSLinx Classic, select **File > Open Project** (opens the Open Project window). To create or edit a topic, select **DDE/OPC > Topic Configuration** (opens the DDE/OPC Topic Configuration window). If you attempt to create a topic without creating a project, RSLinx Classic creates default project for you.



If you selected Configure New DDE/OPC Topic by right-clicking a station in RSWho, the Topic Name field is pre-filled for you. RSLinx Classic starts with the name of the program running in the processor, and if this topic

Welcome to RSLinx Classic Chapter 2

exists, it adds a number to the end until it finds one that does not exist. If there are any spaces, it converts them to underscores (\_). You can change the topic name RSLinx Classic selected for you.

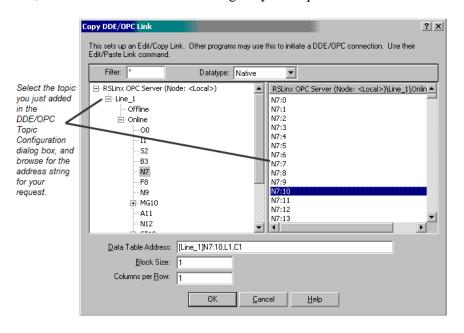
From the Data Source tab, click the device, with which you wish to set up communication. To add a new topic to a project that already has at least one topic configured, click **New**. To edit an existing topic, click the topic from the list. Use the **Data Collection** tab to include more detailed information about specific topics.

### Step 3 Copy a link to the clipboard

RSLinx Classic provides a mechanism for easily establishing a link from RSLinx Classic to a compatible program. To use the Copy to Clipboard function, choose an RSLinx Classic project that contains topics. Select **Edit** > **Copy DDE/OPC Link**, select the topic, and then click **OK**.

The Copy function takes the information needed to create a link and places it on the Windows clipboard. Some packages support the ability to paste links from the clipboard. The Copy to Clipboard function can be used with these applications only.

Select the topic you just added in the DDE/OPC Topic Configuration dialog box, and browse for the address string for your request.



The Copy to Clipboard function only establishes hot links from RSLinx Classic, the DDE server, to a Windows DDE client application. The Data Table Address, Block Size, Columns per Row, and selected topic are maintained from the last time that you used this function. Changing these values has no effect on the last established link.

### Step 4 Paste a link from the clipboard

Most Windows applications support a Paste Link operation, and this feature is generally located in the Edit menu.

Go to your application program that supports the Paste Link function. For

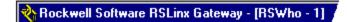
example, in Microsoft Excel, click an open cell in a spreadsheet where you would like to place the data, click **Edit** > **Paste Special**, click **Paste Link**, and click **OK**. The hot link is pasted into the spreadsheet at the location you selected and begins to update. If you click **Paste**, instead of **Paste Link**, the item string will get copied.

### **Explore RSLinx** Classic

When you start RSLinx Classic, the Rockwell Software RSLinx Classic application window appears. The application window contains a title bar, a menu bar, a tool bar, the application workspace where opened child windows (RSWho, diagnostics, and so on), and a status bar.

#### Title bar

The title bar shows the RSLinx Classic icon, the name of the software product (for example, Rockwell Software RSLinx Classic Gateway), the RSWho instance number (RSWho - 1 opens by default when you open RSLinx Classic), and the **Minimize**, **Maximize**, and **Close** button.





To view the Control Menu, click the RSLinx Classic icon on the title bar. The following items appear on the Control Menu.

Item	Description
Restore	Restores the window to its former size after you enlarged it by using the Maximize command or shrunk it by using the Minimize command.
Move	Allows you to reposition the window on the desktop using the arrow keys on the keyboard.
Size	Allows you to resize the window by using the arrow keys on the keyboard.
Minimize	Shrinks the window to an icon, which is located on the task bar. This performs the same function as if you clicked the <b>Minimize</b> button on the title bar.
Maximize	Enlarges the window to occupy the entire screen. This performs the same function as if you clicked the <b>Maximize</b> button on the title bar.
Close	Exits the RSLinx Classic application. This performs the same function as if you clicked the <b>Close</b> button on the title bar.

#### Menu bar

The RSLinx Classic menu bar contains the following menus:



Each menu contains options for performing the following tasks:

Menu	Description
File	Create and open RSLinx Classic projects.
Edit	Copy DDE and OPC links to the clipboard.

Welcome to RSLinx Classic Chapter 2

Menu	Description
View	Set and change RSLinx Classic interface shows, open the Event Viewer, and click the RSWho view.
Communications	Configure drivers, topics, and other RSLinx Classic options, and view driver, DDE, other client application diagnostics.
Station	Perform actions on diagnostic counters and view the Data Monitor.
DDE/OPC	Configure DDE/OPC topics and view event and diagnostic information.
Security	Set security user and access rights.
Window	Arrange RSLinx Classic windows.
Help	View help options for RSLinx Classic and other Rockwell Software products and services.

### **Toolbar**

The toolbar contains shortcuts to several commonly used RSLinx Classic functions. Each toolbar button is a graphical representation of a command that is also available from the RSLinx Classic menu bar. The following items appear on the RSLinx Classic toolbar.



Icon	Menu Selection	Description
<b>≟</b>	File > Open Project	Shows the currently defined projects and allows you to open a DDE/OPC project.
몲	Communications > RSWho	Opens an additional instance of RSWho (one instance is opened by default each time you open RSLinx Classic).
<del>్ట</del> ి	Communications > Configure Drivers	Shows the currently configured RSLinx Classic software drivers and allows you to add additional drivers for use with your hardware devices.
<b>®</b>	Communications > Driver Diagnostics	Shows a list of currently configured drivers and provides the option to view diagnostic information for each driver.
	Edit > Copy DDE/OPC Link	Provides the ability to create a DDE/OPC link between RSLinx Classic and a client application such as Microsoft Excel.
2	DDE/OPC > Topic Configuration	Allows you to create and modify a DDE/OPC topic, which is a specific path to a processor.
<b>\?</b>	Help > Whats This?	Changes the cursor to an arrow and a question mark to indicate you are in What's This? help mode. Click any screen item to show help text for that item and to exit What's This? help mode.

### **Application workspace**

The application workspace shows open child windows, such as the RSWho and RSLinx Classic dialog boxes.

#### **RSWho**

RSWho is RSLinx Classic's main window that shows networks and devices in a style similar to Windows Explorer. It allows you to view all network connections from a single screen. For more details about RSWho, refer to Chapter 4: RSWho on page 23.

#### Status bar

The status bar at the bottom of the RSLinx Classic screen provides information about the current status of your system.



The left area of the status bar is used to pass messages to the user. For example, when you scroll through the items on the menus, a brief description of the function of that menu item appears in this area of the status bar.

The right area of the status bar shows:

- CAP if the Caps Lock key on your keyboard is toggled for all caps.
- NUM if the Num Lock key on your keyboard is set to enable the numeric keypad on your keyboard.
- SCRL if the Scroll Lock key on your keyboard is set.
- The current date from your computer system clock and calendar.
- The current time from your computer system clock and calendar.

### **Install and start RSLinx Classic**

RSLinx Classic supports two installation methods: Setup wizard installation and automated installation with command line syntax. This chapter uses the Setup wizard installation method to illustrate the steps.

This chapter includes information on the following:

- System requirements
- Installation procedure
- Update an existing installation
- Start procedure
- Troubleshooting installation

The automated installation with command line syntax reduces user interaction and provides command line parameters to install RSLinx Classic. See Install RSLinx Classic with command line syntax on page 57.

### Before you begin

Rockwell Software uses a software key to implement copy protection for Windows-based software products. Every software product has a unique key. Although, you can install the software on any number of computers, you are only licensed to run the software on one computer at a time. After you install the RSLinx Classic software, the Setup program will prompt you to activate your software. For more information about moving software keys, copy protection, and software activation, refer to Appendix A in this guide.

# System requirements Hardware requirements

To effectively use RSLinx Classic, your personal computer must meet the following minimum hardware and software requirements:

To install RSLinx Classic software, you will need the following hardware:

- Intel Core 2 Duo, 2.8 Ghz processor; 2 GB of memory.
- At least 2.2GB of available hard drive space; more hard disk space may be required for specific application features.
- A 16-color, SVGA display with 800 by 600 or greater resolution.
- A mouse or other Windows-compatible pointing device.
- An Ethernet card, and Allen-Bradley communication device or cable.
- This version of RSLinx Classic will not run on Alpha, MIPS, or Power computer processors.

### **Software requirements**

To run RSLinx Classic v3.90.00 (CPR 9 SR 9), one of the following operating systems is required:

#### Supported operating systems

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

- Windows 7 Enterprise with Service Pack 1
- Windows Embedded Standard 7 with Service Pack 1
- Windows 7 Home Premium with Service Pack 1
- Windows 7 Ultimate with Service Pack 1
- Windows 7 Professional with Service Pack 1
- Windows 8
- Windows 8 Enterprise
- Windows 8 Professional
- Windows 8.1
- Windows 8.1 Enterprise
- Windows 8.1 Professional
- Windows 10 Enterprise\*
- Windows 10 Professional\*
- Windows 10 IoT Enterprise 2016 Long Term Servicing Branch (LTSB) Embedded\*\*
- Windows Server 2008 R2 Enterprise Edition with Service Pack 1
- Windows Server 2008 R2 Standard Edition with Service Pack 1
- Windows Server 2012 Datacenter
- Windows Server 2012 Standard Edition
- Windows Server 2012 R2 Datacenter
- Windows Server 2012 R2 Standard Edition

RSLinx Classic is a 32-bit application. While it will function on 64-bit edition of Windows, the RSLinx Classic Single Node and OEM activations may not operate with a Windows 64-bit application running on the same computer. Windows 64-bit forces 32-bit and 64-bit applications to run in

<sup>\*</sup>See Rockwell Automation Knowledgebase Answer ID <u>964391</u> for Windows 10 support information.

<sup>\*\*</sup>Supported with the Allen-Bradley 61xx family of Industrial Computers or CompactLogix<sup>TM</sup> 5480 family of controllers.

different processes which causes RSLinx Classic Single Node and OEM to see the 64-bit application as running remote and thus prevents it from using the OPC interface. In this case the system should upgrade to RSLinx Gateway to work with 64bit applications.

For the latest information regarding software platform support, refer to http://www.rockwellautomation.com/compatibility/#/scenarios.

### Install RSLinx Classic software

You can install one or more Rockwell Software products to a single personal computer.

#### Important:

- This procedure could shut down your process applications.
   Depending on which applications you are installing or upgrading, it is possible that your factory automation system will become inoperable, shutting down your processes. Be certain you have prepared for this downtime and all of your company's systems are prepared for these applications to be terminated.
- To install RSLinx Classic, you must log onto your computer as an Administrator.

#### To install RSLinx Classic software:

- 1. Start your Windows operating system.
- 2. Insert the RSLinx Classic DVD into the DVD-ROM drive.
  - Click **Start**, and then click **Run**. The **Run** dialog box appears.
  - In the Open control, type x:\setup, where x is the letter of the drive containing the RSLinx Classic DVD-ROM, and then click OK.
- 3. If Microsoft .NET Framework 4.0 or later is not installed on your computer, the **Microsoft .NET Framework Setup** dialog box shows. Click **Install**.
- 4. On the **RSLinx Classic Setup** dialog box, choose one of the following:
  - Click Install Now to start the software installation process with the default installation directory, that is, C:\Program Files\Rockwell Software (for 32-bit operating systems) or C:\Program Files(x86)\Rockwell Software (for 64-bit operating systems).
  - Click **Customize** to start the software installation process with a different drive where you want to install the RSLinx Classic software, and then click **Install**.
- (Optional) If you select Customize in Step 3, and RSSecurity Emulator
  was previously installed on the computer, the RSLinx Classic
  Security Configuration Selection dialog box shows. Select Enable
  Security if you want to use security, and click Install.

- 6. On the **End-User License Agreements** dialog box, read the agreements and click **Accept all** to continue the installation, or click **Decline** to return to the previous page.
- 7. The **We'll take it from here** dialog box shows with the installation progress bar. Wait while the wizard installs the required components.
- 8. (Optional) When prompted to restart your computer, click **Restart now** to restart your computer and continue the installation, or **Restart later** to suspend and exit the installation.
- On the Almost there dialog box, select one of the following, and click Next.
  - Select **Activate your software** to activate the software now. For more information, refer to <u>Appendix A Activation</u> on <u>page 45</u>.
  - Select **Skip activation** to activate the software later. Some features may not by available until you complete the software activation.
- 10. After the RSLinx Classic software finishes installing, the **That's it!** dialog box shows.
  - Click **Installation Summary** to see the installation details.
  - Click **Register for updates** to learn how to receive email updates about product patches.
  - Click **Download it free** to install Adobe Acrobat Reader. Adobe
     Acrobat Reader is required to open the RSLinx Classic Getting
     Results Guide and other documents.
  - Click **Restart now** to restart your computer and continue the installation, or **Restart later** to exit the installation. You must restart your computer before using RSLinx Classic.
- 11. When you finish installing the software, remove the RSLinx Classic DVD from the DVD-ROM drive, and store it in a safe place.

After installing the software, you are recommended to read the release notes located in the help. The release notes may contain more up-to-date information than was available when this document was published. To view the release notes, start RSLinx Classic, and then choose **Help > Release Notes** from the main menu.

### Update an existing installation

Perform the following steps to update an existing RSLinx Classic installation to RSLinx Classic v3.90.00 (CPR 9 SR 9):

- 1. Close your current version of RSLinx Classic.
- Insert the RSLinx Classic DVD into the DVD-ROM drive. Refer to <u>Install RSLinx Classic software</u> on <u>page 19</u> and perform the installation steps. The old version of RSLinx Classic that exists on your computer

Install and start RSLinx Classic Chapter 3

is automatically uninstalled when you install a newer version of RSLinx Classic.

Tip:

The Installation Setup Wizard automatically backs up the driver configuration that exists in the old version of RSLinx Classic, and restore the configuration automatically into RSLinx Classic v3.90.00 (CPR 9 SR 9). You can find the backup file BackupFromSystemInstall.rsx in C:\Users\<use>username>\AppData\Local\Temp.

3. When the upgrade completes, restart your computer.

# Updating the FactoryTalk Services Platform software

For RSLinx Classic version 2.57.00 and later, a compatible version of FactoryTalk Services Platform must be installed along with RSLinx Classic. In the Installation Setup Wizard of RSLinx Classic version 3.70.00 and later, a compatible version of FactoryTalk Services Platform is automatically installed (or upgraded) along with the RSLinx Classic installation (or upgrade).

For more details about upgrading FactoryTalk Services Platform, refer to *Upgrading the FactoryTalk Services Platform software* in *FactoryTalk Services Platform Online Help*.

### Start RSLinx Classic software

To start RSLinx Classic software, select **Start > Programs > Rockwell Software > RSLinx > RSLinx Classic**.

**Note:** We assume that you used the default names for the directory and program group. If you did not use the default names, substitute the actual names that you specified for the default names shown.

# RSLinx Classic running as a service vs. running as an application

RSLinx Classic can run as a service or as an application. When you start RSLinx Classic, it automatically runs as a service by default.

Tip: Starting with RSLinx Classic v3.74.00, when RSLinx Classic is running as a service, if you select Start > Programs > Rockwell Software > RSLinx > RSLinx Classic, the following warning message shows, and you can choose to Stop Service or Cancel.

"RSLinx Classic is currently running as a service. To view or change the RSLinx configuration, the service must be stopped and RSLinx started as an application. Stopping the service will stop all communications and may impact other client software."

To switch RSLinx Classic to run as an application, follow the steps below:

- 1. Click Start > Programs > Rockwell Software > RSLinx > RSLinx Classic Launch Control Panel.
- 2. In the RSLinx Classic Launch Control Panel dialog box, click Stop.

- 3. Once RSLinx Classic service stops running, clear the **Always Run As Service** check box.
- 4. Click **Start** to start RSLinx Classic as an application.

RSLinx Classic now runs as an application, and the RSLinx Classic main window shows on the screen. When RSLinx Classic is running as an application, the RSLinx Classic icon appears in the lower right corner of the Windows task bar. You can also click this icon to show RSLinx Classic main window.

**Note:** To modify RSLinx Classic configuration, you must run it as an application.

### Troubleshooting installation

If RSLinx Classic does not start or run properly, consider the following:

- Does your computer have enough memory? Running RSLinx Classic requires a minimum of 512MB of RAM.
- Does your computer have enough disk space? Running RSLinx Classic requires a minimum of 2.2GB of available hard disk space.
- Do you have the correct activation for RSLinx Classic installed? If your RSLinx Classic installation shows as RSLinx Classic Lite, RSLinx Classic Single Node, or RSLinx Classic OEM, the proper activation files were not installed. See <a href="Activate RSLinx Classic with FactoryTalk Activation Manager">Activation Manager</a> on <a href="page 45">page 45</a> for information about activation files.
- Have you reinstalled an earlier Service Pack or removed a component, such as DCOM, that RSLinx Classic requires?

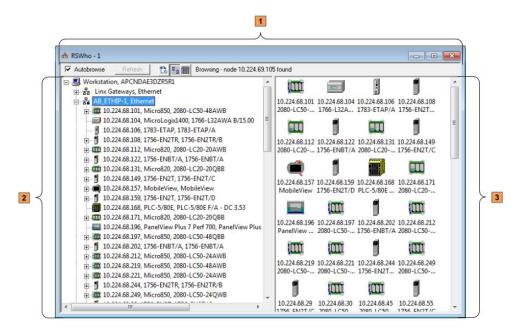
### **RSWho**

This chapter describes the features of the RSWho network browser interface. RSWho allows you to view all the active network connections from a single screen.

### **Use RSWho**

**RSWho** is RSLinx Classic main window that shows networks and devices in a style similar to Windows Explorer. A variety of integrated configuration and monitoring tools are accessible from the right mouse button in the **RSWho**. Some of the available tools are the ControlLogix Gateway Configuration Tool for Controlnet, DeviceNet, Ethernet, 1756-DHRIO, and 1756-DH485 modules, and a Data Monitor for monitoring live data out of any ControlLogix, PLC-5, SLC, or MicroLogix family controllers.

The following figure shows the main areas of the RSLinx Classic **RSWho**.



Item	Name
1	Control bar
2	Tree control (left pane)
3	List control (right pane)

### **Control bar**



The control bar of the **RSWho** contains the following items:

Item	Description
☐ Autobrowse	<ul> <li>The Autobrowse check box is selected by default.</li> <li>If you select the check box, RSWho continually queries the selected device or network to discover items to display in the browser (regardless if the selected item is expanded or collapsed). Additionally, the Refresh button is disabled.</li> <li>If you clear the check box, the Refresh button is enabled, and RSWho stops the discovery process. To refresh the browser you must then click the Refresh button.</li> </ul>
Refresh	The <b>Refresh</b> button is available if you clear the <b>Autobrowse</b> check box. Clicking the <b>Refresh</b> button instructs RSWho to perform one discovery cycle of the selected device or network. Since clicking the button only performs one discovery cycle, you may need to click multiple times to discover everything on the network.
ta e	The <b>EDS</b> file auto-upload button indicates whether the EDS files automatic upload and registration function is enabled. If you turn on the <b>EDS</b> file auto-upload button, RSLinx Classic automatically uploads and registers EDS files of unrecognized online devices when detected during a browse discovery operation. By default, the button is turned off, and the automatic upload and registration function is disabled.
<u>D</u>	The <b>Show large icons</b> button indicates how devices and networks show in the list control (right pane) in the <b>RSWho</b> . If you click the <b>Show large icons</b> button, devices and networks show as large icons. By default, the button is turned on, and devices and networks show as large icons.
	If you click the <b>Show details</b> button, devices and networks in the list control (right pane) show in a list. You can view device details such as Address, Device Type, Online Name, and Status.
Status	The status of device and network browsing.  Tip: Be patient when browsing some networks, such as through a 1785-KA, as it may appear that no devices exist, but the update is only being delayed as RSWho checks all possible station addresses.

### **Tree control**

The left pane of the **RSWho** is the tree control, which shows networks and devices.

The RSWho icon indicates a network. If the icon is animated, the network is being browsed. Click a network or device to start browsing. The **RSWho** only browses one network at a time.

A network is browsed when you click the "+" sign to expand it, or select it or a device under the network node. When the network or device is collapsed (indicated by the "+" sign), click "+" or double-click the network or device icon next to the "+" sign to expand the view and begin browsing. When the

RSWho Chapter 4

network or device is expanded (indicated by the "-" sign), click "-" or double-click the network or device icon next to the "-" sign to collapse the view.

Right-click a supported device to select Station Diagnostics, Configure DDE Topic, or other supported services for that device.

Note: A device that appears with a red X indicates that RSWho previously recognized this device, but now it cannot. The red X indicates a communication status error, such as unplugging a recognized device. These devices can be removed from the RSWho display by right-clicking the device and selecting Remove.

### **List control**

The right pane of the **RSWho** is the list control, which shows all members of a collection. A collection is a network, or a device that is a bridge. Right click in the list control and choose a view option of large icons or details. You can also right click a supported device to select Station Diagnostics, Configure DDE Topic, or other supported services for that device.

### **OPC and DDE Connectivity**

This chapter describes the features of:

- OPC (OLE for Process Control)
- DDE (Dynamic Data Exchange)

OPC (OLE for Process Control) is a communication standard based on OLE technology provided by Microsoft, and developed and maintained by the OPC Foundation, a coalition of industrial manufacturing companies, of which Rockwell Automation is a member. The charter of this group is to provide an industrial standard exchange mechanism between plant floor devices and client applications. RSLinx Classic is an OPC-compliant server exposing the required interfaces for an OPC client application to access data consistent with other OPC-compliant servers. The added benefit provided from RSLinx Classic is its ability to provide several DDE formats in addition to OPC.

OPC is designed to allow client applications access to plant floor data in a consistent manner. OPC provides many benefits:

- Hardware manufacturers only have to make one set of software components for customers to use in their applications.
- Software developers do not have to rewrite drivers because of feature changes or additions in a new hardware release.
- Customers have more choices with which to develop world class integrated manufacturing systems.

With OPC, system integration in a heterogeneous computing environment is simple. Leveraging the OLE/COM environment is possible.

RSLinx Classic is an OPC-compliant server. For more information about OPC, visit the OPC Foundation web site at http://www.opcfoundation.org. For more information on using OPC with Rockwell Software products, visit our web site at http://support.rockwellautomation.com.

DDE (Dynamic Data Exchange) is a standard inter-application communication protocol, which is built into Microsoft Windows operating systems and supported by many applications that run under Windows. DDE takes data from one application and gives it to another application. It allows Windows programs that support DDE to exchange data between themselves.

**OPC** 

**DDE** 

- A DDE server is a program that has access to data and can provide that data to other Windows programs.
- A DDE client is a program that can obtain data from a server.

By specifying an application, topic, and item, a client application can exchange data with a server application. DDE works like a conversation between two people. The people represent the different applications running under Windows, and the data they share is what they are talking about. RSLinx Classic does not know the type of data it is receiving, it only knows that a DDE link is providing the data.

For example, if you have a DDE link from RSLinx Classic to an Excel spreadsheet, Excel does not know that you are sending a counter value into a spreadsheet. All Excel sees is data.

For example, RSLinx Classic is the application name, PLC5TOPIC1 is an example topic name, and C5:0.ACC is an example item, in this case a counter accumulator in an Allen-Bradley PLC-5.

**Note:** Not all applications that run under Microsoft Windows support DDE. Check with the applications manufacturer before purchasing an application for use with RSLinx Classic.

For more information about DDE, refer to the DDE topic in the RSLinx Classic help.

### DDE/OPC client connectivity

RSLinx Classic provides connectivity for client applications using OPC or multiple DDE data formats. The OPC and AdvanceDDE interfaces provide optimized read operations by packing multiple requests from multiple clients in a single transaction. In configuring a DDE Topic, you can specify whether or not you want DDE poke operations optimized. Optimized pokes only work with PLC-5 and SLC processors.

The benefit of optimizing DDE poke operations is packing multiple updates in a single write operation, thus reducing the overall number of packets required. Operations such as downloading a recipe can take advantage of this feature.

Other DDE formats supported include FastDDE (for Wonderware clients), XL\_Table and CF\_Text to support Microsoft Office products, and other generic DDE client applications.

### Register EDS files of devices

Electronic Data Sheet (EDS) files (\*.eds) are text files that contains configuration data for specific device types. The EDS file of a device is provided by the device vendor and is required for compliance with Open DeviceNet Vendor Association, Inc. (ODVA) standards.

This chapter introduces the possible ways to register EDS files of devices in RSLinx Classic, the folder path of all the existing EDS files, and how to remove EDS files from your computer.

- Manually upload and register EDS files in the **RSWho**
- Automatically upload and register EDS files in the RSWho
- Manually register EDS files in the EDS Hardware Installation Tool
- View existing EDS files of devices on the computer
- Unregister EDS files in EDS Hardware Installation Tool
- Uninstall EDS Hardware Installation Tool and all EDS files

## Manually upload and register EDS files in the RSWho

For an online device whose EDS file is not registered, RSLinx Classic detects whether the device contains an EDS file within its firmware. If there is an EDS file found, you can manually upload and register the device's EDS file in the **RSWho**.

To manually upload and register EDS file from device in the **RSWho**, perform the following steps:

- 1. Connect the device to the computer.
- 2. Open RSLinx Classic, and browse for the device in the **RSWho**.
- 3. Once you find the device, right-click it, and select **Upload EDS file from device** from the context menu.

**Tip:** If you right click an unregistered online device, and the context menu does not contain the **Upload EDS file from device** option, it means the device does not support this function.

You can manually upload and register one EDS file of a device at a time. If you want to upload and register multiple EDS files at a time, refer to

Automatically upload and register EDS files in the RSWho and Manually register EDS files in the EDS Hardware Installation Tool.

# Automatically upload and register EDS files in the RSWho

For an online device which supports manually upload and registration in the **RSWho**, RSLinx Classic can automatically upload and register it, if you enable the EDS files automatic upload and registration function. With this function enabled, you can upload and register the EDS file(s) of one or more devices at a time.

To upload and register EDS files automatically, perform the following steps:

1. Turn on the EDS file auto-upload button on the control bar of the **RSWho** window.

**Tip:** This enables the automatic upload and registration function. By default, the function is disabled.

2. In the communication tree in the **Explorer** of the **RSWho**, double click (or click the "+" sign beside) a node or a bus under a certain network to expand and view devices under the selected node or bus.

**Tip:** To trigger the automatic upload and registration, you must double click (or click the "+" sign beside) a sub-node under a certain network. Double clicking (or clicking the "+" sign beside) a root node of a network (for example, Ethernet) does not trigger the automatic upload and registration.

The software performs a browse discovery query for a selected node or bus. If an unregistered online device is found with its EDS file upon browsing, the EDS file is uploaded and registered automatically. A progress bar shows beside the unregistered device in the communication tree.

#### Note

- If you turn off the EDS file auto-upload button when an EDS file is in the process of being uploaded, the EDS file upload process is aborted. While an EDS file is being registered, the EDS file auto-upload button cannot be turned off.
- If an EDS file is invalid, or an error occurs during the upload and registration, the EDS file cannot be registered, and a diagnostics message is logged into FactoryTalk Diagnostics Viewer. To view the diagnostics messages:
  - From the Windows Start menu: Start > All Programs > Rockwell Software > FactoryTalk Tools > Diagnostics Viewer, or
  - From the FactoryTalk Administration Console: From the Tools menu, click FactoryTalk Diagnostics > Viewer.
- If there are multiple RSWho instances:
  - To allow automatic upload and registration, you need to turn on the EDS file auto-upload button in each RSWho instance respectively. If a RSWho instance does not enable this function, double clicking (or clicking the "+" sign beside) a node or a bus in this RSWho instance triggers the network browsing, but not the automatic upload and registration process.
  - If a device is automatically uploaded and registered in one RSWho instance, the device information of this specific device is synchronized in the rest of RSWho instances (including the RSWho instances which disable the automatic upload and registration function). Note that no progress bar shows for the synchronization in the other RSWho instances.
- RSWho may respond slowly if there are many EDS files being registered.

# Manually register EDS files in the EDS Hardware Installation Tool

You can manually register EDS files of devices by launching the EDS Hardware Installation Tool. The EDS Hardware Installation Tool is installed on your computer when you install RSLinx Classic.

#### Important:

- You must have a valid and complete EDS file of the device which you want to register. To search and download the EDS file of a specific device, visit Rockwell Automation Network Resources at http://www.rockwellautomation.com/support/networks/overvie
  - http://www.rockwellautomation.com/support/networks/overvie w.page.
- If an icon file (\*.ico) exists for the device, save it with the same name as the EDS file in the same directory. You can save one or more EDS files (and the related icon files) in one directory.

To manually register EDS files of devices in the EDS Hardware Installation Tool, perform the following steps:

 Launch the EDS Hardware Installation Tool from Start > All Programs > Rockwell Software > RSLinx > Tools > EDS Hardware Installation Tool.

- On the Rockwell Automation Hardware Installation Tool dialog box, click Add. The Rockwell Automation's EDS Wizard dialog box opens.
- 3. On the **Registration** screen, do one of the following, and then click **Next**:
  - Select **Register a single file** to register one EDS file at a time, and click **Browse** to select the EDS file
  - Select Register a directory of EDS files to register two or more EDS files at a time, and click Browse to select the directory of the EDS files
- 4. On the **EDS File Installation Test Results** screen, review the hardware device list, and click **Next**.
- 5. On the **Change Graphic Image** screen, review the icon(s) of the hardware device(s), and click **Next**.

Note: The Rockwell Automation's EDS Wizard assigns a default icon to each hardware device. You can specify another icon for the hardware device(s) by selecting the hardware device and clicking the **Change icon** button.

- 6. On the **Final Task Summary** screen, review the hardware device list and click **Next**.
- 7. When the registration is complete, click **Finish** to return to the **Rockwell Automation Hardware Installation Tool** dialog box.
- 8. Click Exit.

## View existing EDS files of devices on the computer

All the existing EDS files (and related icons) are stored in a default folder on your computer. These existing EDS files include:

- EDS files that are installed from the RSLinx Classic installation media
- EDS files that are uploaded and registered in the **RSWho**, either manually or automatically
- EDS files that are manually registered via the EDS Hardware Installation Tool

To view existing EDS files on your computer, refer to the default folder path below.

• For RSLinx Classic v3.80.00 or earlier

- C:\Program Files\Rockwell Software\RSCommon\EDS (for 32-bit operating systems)
- C:\Program Files (x86)\Rockwell Software\RSCommon\EDS (for 64-bit operating systems)
- For RSLinx Classic v3.81.00 or later

#### C:\Users\Public\Documents\Rockwell\EDS\*

\*RSLinx Classic v3.81.00 relocates the default EDS file folder. For RSLinx Classic v3.81.00 or later, you can register or remove EDS files in the EDS Hardware Installation Tool without having to login as Windows administrator on the computer.

#### Important:

If you want to remove one or more EDS files from your computer, do not delete EDS files (or related icons) in this folder. Follow the steps in *Unregister EDS files in EDS Hardware Installation Tool* and *Uninstall EDS Hardware Installation Tool and all EDS files*.

## Unregister EDS files in EDS Hardware Installation Tool

To unregister one or more EDS files from your computer, perform the following steps:

- 1. Select Start > All Programs > Rockwell Software > RSLinx > Tools > EDS Hardware Installation Tool to launch the tool.
- 2. On the **Rockwell Automation Hardware Installation Tool** dialog box, click **Remove**. Wait while the tool prepares and generates a full list of the existing EDS files on your computer. A progress bar shows and indicates the status. This may take a few seconds.

**Tip:** The full list of the existing EDS files on your computer includes:

- EDS files that are installed from the RSLinx Classic installation media
- EDS files that are uploaded and registered in the RSWho, either manually or automatically
- EDS files that are manually registered via the EDS Hardware Installation Tool
- On the Rockwell Automation's EDS Wizard dialog box, select the check boxes before the EDS files which you want to unregister from the computer. For devices with multiple firmware revisions, select the check boxes before the specific revisions to be unregistered. Click Next.

Tip:

- Click Select All to select all the EDS files in the list, or click Clear All to clear your selections.
- Click Find Device and enter a keyword of a device's name to quickly locate the device's EDS file in the list.
- The full list of the existing EDS files shows in alphabetical order by default. You can select the **Display by Catalog Name** check box to view the devices by catalog name.
- 4. Review the **Final Task Summary**, and click **Next**.
- 5. Click Finish.
- 6. On the **Rockwell Automation Hardware Installation Tool** dialog box, click **Exit**.

#### Important:

The following products share the EDS files on your computer. If any of the products listed below are installed on your computer, you are not recommended to unregister the EDS files:

- RSNetworx
- RSLinx Classic
- RSLinx Enterprise
- RSLogix 5000 or Studio 5000 Logix Designer
- Logix Designer (RSLogix 5000) Module Profiles
- FactoryTalk Services Platform

# Uninstall EDS Hardware Installation Tool and all EDS files

To uninstall EDS Hardware Installation Tool and all EDS files, perform the following steps:

- Select Start > All Programs > Rockwell Software > RSLinx > Tools
   > Uninstall EDS Hardware Installation Tool and all EDS files to launch the uninstall EDS subsystem process.
- 2. Read the **Uninstall EDS Subsystem** warning message, and click **Yes**.

Wait while the system uninstalls the tool and unregisters devices from your computer. This may take a few minutes. A confirmation message shows when this is complete.

3. Click **OK** on the confirmation message.

#### Important:

The following products share the EDS subsystem on your computer. If any of the products listed below are installed on your computer, you are not recommended to uninstall the EDS subsystem:

- RSNetworx
- RSLinx Classic
- RSLinx Enterprise
- RSLogix 5000 or Studio 5000 Logix Designer
- Logix Designer (RSLogix 5000) Module Profiles
- FactoryTalk Services Platform

#### **Compact harmony files**

RSLinx Classic v3.90.00 (CPR 9 SR 9) allows you to compact existing harmony topologies through the RSLinx Classic user interface, instead of manually locating and deleting the harmony files from your computer's hard drive. This reduces the waiting time to open RSLinx Classic, or to expand the driver nodes in the **RSWho**.

#### Important:

- This operation deletes the browsed topologies and configured DDE/OPC topics in RSLinx Classic. If you are using RSLinx Classic for OPC communications, RSLinx Classic will not be able to serve data for the defined topics after the operation is completed.
- To re-establish communications after you have compact harmony files, you must re-open the application which uses RSLinx Classic, edit the topic in RSLinx Classic, re-browse and select a target device for each topic within RSLinx Classic's Topic Configuration.

## Compact harmony files in RSLinx Classic

#### To compact harmony files:

- In RSLinx Classic menu bar, click File > Compact Harmony, or
   In RSLinx Classic Launch Control Panel, click Tools > Compact Harmony.
- 2. The following warning message shows. Read the message and click **Yes** to continue, or click **No** to cancel the compact harmony operation.

"This operation will delete all of the RSLinx Classic stored topology information. If you are using RSLinx Classic for OPC communications, after the Compact Harmony Database operation is completed, RSLinx Classic will not be able to serve data for defined topics. To re-establish communications, you must manually browse and select a target device for each topic within RSLinx Classic's Topic Configuration. Do you want to continue?"

3. If RSLinx Classic or the Harmony service is running, the following warning message shows. Read the message and click **Yes** to continue, or click **No** to cancel the compact harmony operation.

"RSLinx Classic and Harmony service need to be shut down in order to perform this operation. Shut down RSLinx Classic and Harmony services?"

Tip: (Optional) Clear the Restart RSLinx Classic when finished check box if you do not want to restart RSLinx Classic after the compact harmony process. This option is selected by default.

4. If the system detects RSLinx Classic is in use by any other applications, the following warning message shows. Read the message and click **Yes** to continue, or click **No** to cancel the compact harmony operation.

"RSLinx Classic is currently in use by one or more applications. If RSLinx Classic is shut down now, these applications will experience timeouts and/or loss of data. Shut down RSLinx Classic anyway?"

- 5. Depending on your Windows User Account Control (UAC) level, an UAC warning message may show to confirm whether to make changes to your computer or not. Click **Yes** to start the compact harmony process.
- 6. The progress begins and the **Compact Harmony Progress** dialog box shows with progress bar. Click **Detail** to show or hide progress details.

**Tip:** During the compact harmony process, the **OK** button is disabled. The button is enabled once the compact harmony progress is completed or failed.

7. When the compact harmony process is completed, click **OK**.

#### Find the information you need

Use this chapter to review the sources of additional information about RSLinx Classic software. This chapter helps you find what you need efficiently by describing how to:

- Use the help
- Access guides
- Participate in Rockwell Software training courses
- Contact Technical Support

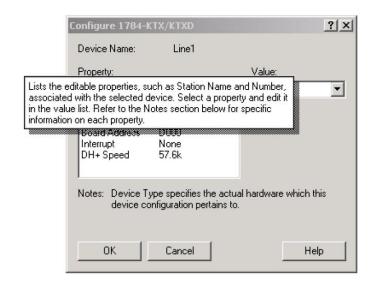
#### Use the help

RSLinx Classic help provides general overview information, comprehensive step-by-step procedures, and context-sensitive, dialog box control definitions for working with all of the features in the software. To view online help while running RSLinx Classic:

- Choose **RSLinx Classic Help** from the **Help** menu on the RSLinx Classic main window,
- Click **Help** on any RSLinx Classic dialog box or property page,
- Position the cursor over a control, with which you want help and right-click, or
- Press **F1**.

### Access help for a control or field

To show a definition for a control or a field, click the Whats This? icon in the upper right corner of the dialog box, drag the cursor to the selected area, and then click to show the definition. In this example, the Property control was selected.



### Find step-by-step procedures

To view a list of tasks related to the current topic, move to the See also section at the bottom of the help window and select one of the listed tasks. The current topic is replaced with a step-by-step procedure for completing the task.

For example, from the What is a driver? help topic, if you select Add a driver under the See also section, the procedure that describes how to add RSLinx Classic drivers shows.

#### What is a driver?

A driver is the software interface to the hardware device that allows RSLinx Classic to communicate with your PLC. Configuring a software driver is the first step in establishing a DDE hot link.

Select **Communications** > **Configure Drivers** to display the Configure Drivers dialog box that is used for adding, editing or deleting drivers. The available hardware drivers are shown in the <u>Available Drivers</u> list. The presently configured drivers are displayed in the Configured Drivers list.

**Tip:** For specific information on each dialog box control, right-click on the control and select the What's This? help option.

#### What do you want to do?

Add a driver

Edit a driver

Delete a driver

View information on driver diagnostics

#### Add a driver

How do I access the dialog?

- From the Configure Drivers dialog box, select the desired driver from the Available Drivers list.
- Click Add New. The configuration dialog box for that driver appears.
- Enter the appropriate parameters for the desired driver in the configuration dialog box.
- Click OK to close the configuration dialog box. The new driver now appears in the Configured Drivers list.

#### Find definitions

Within the RSLinx Classic help, blue text highlighted with an underline indicates a link to a pop-up definition or a link to a related topic. For example, in the Dynamic Data Exchange help topic, application, topic, and item are pop-up definitions, and DDE link is a link to a related topic.

#### DDE

DDE (Dynamic Data Exchange) is a standard inter-application communication protocol built into Microsoft Windows operating systems and supported by many applications that run under Windows. DDE takes data from one application and gives it to another application. It allows Windows programs that support DDE to exchange data between themselves.

- A DDE server is a program that has access to data and can provide that data to other Windows programs.
- . A DDE client is a program that can obtain data from a server.

By specifying an <u>application</u>, <u>topic</u>, and <u>item</u>, a client application can exchange data with a server application.

DDE works like a conversation between two people. The people represent the different applications running under Windows, and the data they share is what they are talking about.

Applications using DDE to talk to RSLinx Classic do not care what kind of data they are getting. All they know is there is a <u>DDE link</u>, and that link is providing data. What that data is and how it will be used is immaterial to the receiving application.

For example, if you have a DDE link from RSLinx Classic to an Excel spreadsheet, Excel does not know that you are sending a counter value into a spreadsheet. All Excel sees is data.

For example, RSLINX is the application name, PLC5TOPIC1 is an example topic name, and C5:0.ACC is an example item, in this case a counter accumulator in an Allen-Bradley PLC-5.

Tip: Not all applications that run under Microsoft Windows support DDE. Check with an application's manufacturer before purchasing an application for use with RSLinx Classic.

#### What do you want to do?

Set up a DDE conversation
Read data collection tips
Configure network DDE
Read about polled and unsolicited mode

#### **Access guides**

You can gain immediate access to product documentation through the guides included with RSLinx Classic. The guides include this Getting Results Guide, as well as any reference guides, in an electronic book format. The guides are included in a PDF (portable document format) on your RSLinx Classic DVD. These files must be viewed using the Adobe Acrobat Reader software, which you can download for free from the Adobe website at http://www.adobe.com.

#### **Training**

One of the best ways to increase your proficiency at using Rockwell Software products is to attend a Rockwell Software training program. Our training programs can help you master the basics and show you how to unleash the full potential of our software.

Rockwell offers a wide range of training programs, from regularly scheduled classes conducted at Rockwell Software facilities, to custom-tailored classes conducted at your enterprise. The size of each class is kept small intentionally to maximize student engagement.

If you would like more information about Rockwell training programs, visit the Rockwell Software site or contact the Rockwell Software Training Coordinator. Our World Wide Web address and telephone numbers appear on the inside front cover of this document.

#### **Technical support**

If you cannot find answers to your questions in the *Getting Results with RSLinx Classic* guide, the help, or the guides, you can call Rockwell Software Technical Support at the numbers listed on the inside front cover of this guide. The technical support staff is available Monday through Friday from 8:00 A.M. to 5:00 P.M. Eastern Time, except holidays. You can also access the Rockwell Software Online Support Library from the web site listed on the inside front cover of this guide.

#### When you call

When you call, you should be at your computer and prepared to give the following information:

- Product serial numbers
- Product version number
- The product serial numbers and version number can be found in the software by clicking **Help > About RSLinx Classic**.
- Version of Windows and any service packs that you are using
- Hardware you are using
- Exact wording of any errors or messages that appeared on your screen
- Description of what happened and what you were doing when the problem occurred
- Description of how you attempted to solve the problem

#### **Activation**

RSLinx Classic v2.58.00 (CPR 9 Service Release 4) and later only supports activation using FactoryTalk Activation.

Note: EvRSI activation is replaced by FactoryTalk Activation. If you are a current user using EvRSI activation and want to upgrade to RSLinx Classic v2.58.00 or later, contact your local Rockwell Automation Sales office or Rockwell Automation Technical Support for information on migrating your activations to FactoryTalk Activation Manager. For Rockwell Automation Technical Support in the U.S. call 1 (440) 646-3434. Outside the U.S. see http://www.rockwellautomation.com/locations/.

RSLinx Classic v3.90.00 (CPR 9 SR 9) shows a message indicates the activation status when you place the cursor over the tray icon in the notification area. If the activation status changes during runtime, the message shows the new status after you restart RSLinx Classic.

#### **Grace period**

RSLinx Classic v2.52.00 (CPR 9) and later supports a seven-day activation grace period when a valid activation is not found. During the grace period:

- When the software is started, a message is logged to the FactoryTalk Diagnostic log every four hours until a valid activation is found.
- RSLinx Classic can be started an unlimited number of times. If the grace period ends, and a valid activation has not been found, RSLinx Classic Lite is started.

**Note:** If RSLinx Classic is unable to successfully obtain valid activations (for example, a network failure occurs), the software will attempt to run in grace period for up to seven days.

# Activate RSLinx Classic with FactoryTalk Activation Manager

How to activate RSLinx Classic

RSLinx Classic v3.70.00 introduces the ability to activate the software during the software installation. The new Installation Setup Wizard contains an **Activate products using FactoryTalk Activation** check box. This no longer requires you to open FactoryTalk Activation Manager to activate the software.

To activate your RSLinx Classic v3.90.00 and later in the **RSLinx Classic Installation Setup wizard**, perform the following steps:

1. Perform the steps in <u>Install RSLinx Classic software on page 17</u> on page 19 to install RSLinx Classic software.

- 2. On the **Almost there** dialog box in the Installation Setup wizard, select the **Activate your software** check box and click **Next**.
- 3. On the **Software Activation** dialog box, enter the serial number and product key from your Activation Certificate.
- 4. Select a version from the **Earliest version** drop down list.
- 5. Select **Activate locally** to activate RSLinx Classic on a single computer, or select **Activate using a dongle** to activate RSLinx Classic on any computer by using a dongle.

**Note:** The **Activate using a dongle** option requires that you have a dongle to lock the activation.

#### 6. Click Continue.

You can still activate RSLinx Classic via FactoryTalk Activation Manager by clicking the **Explore other options** link in the **Software Activation** dialog box. The link provides direct access to the FactoryTalk Activation Manager software. To activate your copy of RSLinx Classic in the FactoryTalk Activation Manager, click **Get New Activations** and follow the instructions in the FactoryTalk Activation Manager.

For more information on using the FactoryTalk Activation Tool, click **More** or **Help** in the FactoryTalk Activation Manager window.

## Find more information about FactoryTalk Activation

For help with FactoryTalk Activation Manager at any point, you can click:

- **Help** on the FactoryTalk Activation Manager window
- **Help** on the Rockwell Software Activation website: https://licensing.software.rockwell.com

If you cannot connect to the Internet, call Technical Support for help creating an activation file from an e-mail or a fax.

Phone: 440-646-3434 in North America. Outside of North America, call your local support organization.

## Secure RSLinx Classic with FactoryTalk Security

FactoryTalk Security<sup>TM</sup> is intended to improve the security of your automation system by limiting access to those with a legitimate need. FactoryTalk Security authenticates user identities and authorizes user requests to access a FactoryTalk-enabled system. These security services are fully integrated into the FactoryTalk Directory and are included as part of the FactoryTalk Services Platform that installs with many products.

For more information on how to use security services, refer to FactoryTalk Security help.

## How do I set up security in RSLinx Classic?

RSLinx Classic, along with supporting RSSecurity, also supports FactoryTalk Security. FactoryTalk Security is intended to improve the security of your automation system by limiting access to those with a legitimate need. FactoryTalk Security authenticates the identities of users and authorizes user requests to access a FactoryTalk-enabled system against a set of defined user accounts and access privileges held in the FactoryTalk Directory. For more information on FactoryTalk Security, read the About FactoryTalk Security topic located in RSLinx Classic Help. The following sections explain the steps you would need to perform to implement one of the two security mechanisms (FactoryTalk Security and RSSecurity) supported by RSLinx Classic.

Follow the steps in the sections below to set up security in RSLinx Classic v3.70.00 (CPR 9 SR 7) and later versions. The steps below take RSLinx Classic v3.81.00 (CPR 9 SR 8.1) as an example.

Note: When you install or upgrade the RSLinx Classic software, make sure to install or upgrade a compatible version of FactoryTalk Services Platform. For the compatibility information, refer to http://www.rockwellautomation.com/compatibility/#/scenarios.

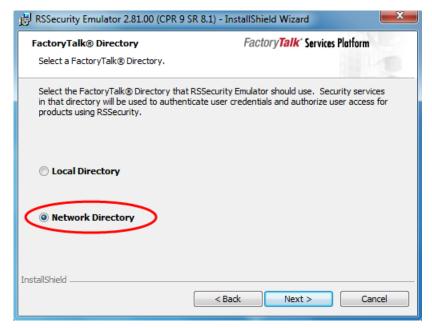
## If you have not used FactoryTalk Security or RSSecurity before

If you have not used FactoryTalk Security before, and have never configured security using RSSecurity, follow the steps below to set up security in RSLinx Classic.

1. Install FactoryTalk Services Platform v2.81.00 and RSLinx Classic v3.81.00 using RSLinx Classic Setup Wizard.

2. Install RSSecurity Emulator from **Start > All Programs > Rockwell Software > FactoryTalk Tools > RSSecurity Emulator Install.** 

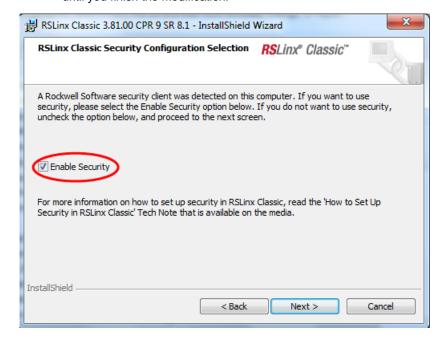
Note: During the RSSecurity Emulator installation, the FactoryTalk Directory screen appears (see the following figure) where you will be prompted to select the FactoryTalk Directory (Network or Local) that RSSecurity Emulator should use. At this step, be sure to make a note of the directory you choose — you will require this information when adding security policies to FactoryTalk Directory in Step 4.



Open the Windows Control Panel. Select Add or Remove Programs or Programs and Features in the Control Panel. In the list of installed programs, right click RSLinx Classic 3.81.00 CPR 9 SR 8.1, and then select Change. The RSLinx Classic Setup Wizard opens. While running the RSLinx Classic Setup Wizard, select Modify in the Program Maintenance page.



**Note:** In the RSLinx Classic Security Configuration Selection page, select Enable Security. Click Next and follow the instructions until you finish the modification.



Open FactoryTalk Administration Console from Start > All Programs > Rockwell Software > FactoryTalk Administration Console to add user accounts and set security settings to secure RSLinx Classic.

# Note: • For more information on how to add user accounts, read the Add a user account topic in FactoryTalk Administration Console help, located at Manage FactoryTalk-enabled systems > Log on and configure security > Configure security > How To > Work with user accounts > Add a user account.

- For more information on how to secure RSLinx Classic features, read the Secure Product Features topic in FactoryTalk Security help, located at Configure Security > How to > Set up product policies > Secure product features.
- For more information on what you can secure in RSLinx Classic, read the What can I secure in RSLinx Classic topic in RSLinx Classic Online help, located at How to > Secure RSLinx Classic with FactoryTalk > What can I secure in RSLinx Classic.
- Open RSLinx Classic from Start > All Programs > Rockwell
   Software > RSLinx > RSLinx Classic, and click Security > Set
   Security User from the main menu. In the New User dialog box, enter
   the username and password of the user you created in FactoryTalk
   Administration Console in step 4, and click OK.

Note: Because the access to features in RSLinx Classic is governed by the permissions you set for a user in FactoryTalk Administration Console, some features out of the 13 securable features in RSLinx Classic may be inaccessible (for example, if the user you entered in Step 5 does not have the appropriate permission).

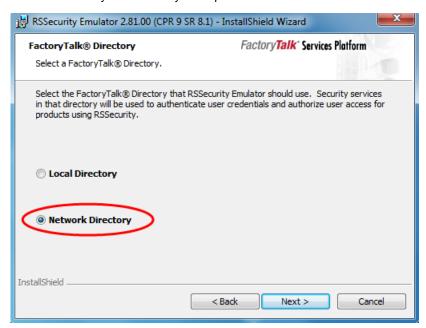
This completes the security setup for RSLinx Classic.

## If you have used RSSecurity but not FactoryTalk Security

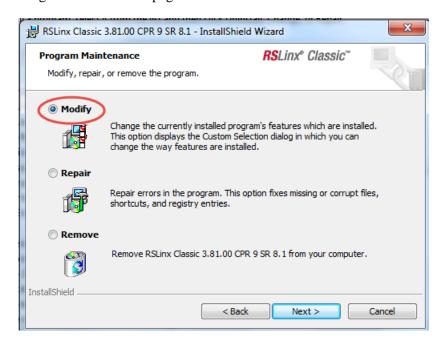
If you have not used FactoryTalk Security before, and want to import an existing RSSecurity Configuration into the FactoryTalk Directory, follow the steps below to configure security in RSLinx Classic. The steps below take RSLinx Classic v3.81.00 (CPR 9 SR 8.1) as an example.

- 1. Install FactoryTalk Services Platform v2.81.00 and RSLinx Classic v3.81.00 using RSLinx Classic Setup Wizard.
- 2. Launch the Security Config Explorer by selecting **Start > All Programs > Rockwell Software > Security Server Network Edition > Security Config Explorer.**
- 3. Locate the RSSecurity Configuration (\*.bak) file, and select **File** > **Export** to backup the \*.bak file.
- 4. Close the Security Config Explorer.
- 5. Uninstall RSSecurity Server/Client (whichever is installed on this machine) from Windows Control Panel.
- 6. Install RSSecurity Emulator from **Start > All Programs > Rockwell Software > FactoryTalk Tools > RSSecurity Emulator Install**.

Note: During the RSSecurity Emulator installation, the FactoryTalk Directory page appears. Select the FactoryTalk Directory (Network or Local) which RSSecurity Emulator uses. At this step, be sure to make a note of the directory you choose—this directory information is needed when adding security policies to FactoryTalk Directory in Step 8 below.



7. Open the Windows Control Panel. Select Add or Remove Programs or Programs and Features in the Control Panel. In the list of installed programs, right click RSLinx Classic 3.81.00 CPR 9 SR 8.1, and then select Change. The RSLinx Classic Setup Wizard opens. While running the RSLinx Classic Setup Wizard, select Modify in the Program Maintenance page.



Note: In the RSLinx Classic Security Configuration Selection page, select Enable Security. Click Next and follow the instructions until you finish the modification.



8. Import RSSecurity Server database by selecting **Start > All Programs** > **Rockwell Software > FactoryTalk Tools > Import RSSecurity Configuration**.

Note: While running the Import RSSecurity Configuration utility, the FactoryTalk Security Import dialog box appears. In the Destination directory of the FactoryTalk Security Import dialog box, be sure to import the .bak file to the directory where you installed the Emulator (Local or Network).



9. Open RSLinx Classic, and select **Security > Set Security User** from the main menu. In the New User dialog box, enter the username (domain name\username) and password of the RSSecurity user.

- Note: If you do not remember the usernames of the users that existed in your old RSSecurity setup, perform the following
  - a. Run FactoryTalk Administration Console by selecting Start > Programs > Rockwell Software > FactoryTalk Administration Console.
  - b. In the Explorer pane, expand the FactoryTalk Local or Network Directory tree, and then expand the Systems folder until the Users folder is visible.
  - c. In the Users folder, the users who have domain associated with their usernames (for example, na\Bob) are your RSSecurity users.
  - Because access to features in RSLinx Classic is governed by the permissions you set in the security server, some features out of the 13 securable features in RSLinx Classic may be inaccessible (for example, if the user you entered in Step 9 does not have the appropriate permission)

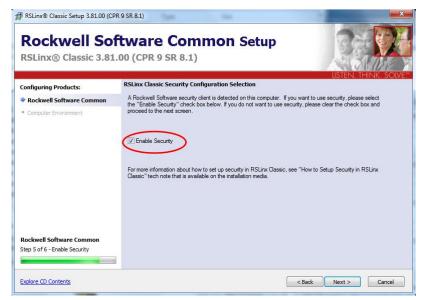
This completes the security setup for RSLinx Classic.

#### If you have used FactoryTalk Security before

If you used FactoryTalk Security before, and want to continue to use FactoryTalk Security when upgrading RSLinx Classic to v3.81.00 or later, follow the steps below to set up security in RSLinx Classic. The steps below take RSLinx Classic v3.81.00 (CPR 9 SR 8.1) as an example.

Install FactoryTalk Services Platform v2.81.00 and RSLinx Classic v3.81.00 using RSLinx Classic Setup Wizard.

Note: While running the RSLinx Classic Setup Wizard, the RSLinx Classic Security Configuration Selection page appears. Select Enable Security. Click Next and follow the instructions until you finish the installation.



2. Open FactoryTalk Administration Console from **Start > All Programs** > Rockwell Software > FactoryTalk Administration Console to add user accounts and set security settings to secure RSLinx Classic.

- Note: For more information on how to add user accounts, read the Add a user account topic in FactoryTalk Administration Console help, located at Manage FactoryTalk-enabled systems > Log on and configure security > Configure security > How To > Work with user accounts > Add a user account.
  - For more information on how to secure RSLinx Classic features, read the Secure Product Features topic in FactoryTalk Security help, located at Configure Security > How to > Set up product policies > Secure product features.
  - For more information on what you can secure in RSLinx Classic, read the What can I secure in RSLinx Classic topic in RSLinx Classic Online help, located at How to > Secure RSLinx Classic with FactoryTalk > What can I secure in RSLinx Classic.
- 3. Open RSLinx Classic from **Start > All Programs > Rockwell** Software > RSLinx > RSLinx Classic, and click Security > Set Security User from the main menu. In the New User dialog box, enter the username and password of the user you created in FactoryTalk Administration Console in Step 2, and click **OK**.

- Note: Because the access to features in RSLinx Classic is governed by the permissions you set for a user in FactoryTalk Administration Console, some features out of the 13 securable features in RSLinx Classic may be inaccessible (for example, if the user you entered in Step 3 does not have the appropriate permission).
  - When RSLinx Classic is reinstalled, all security settings that were previously configured for networks and devices are lost. You must redefine these security settings in the Networks and Devices tree, or in RSWho. For more information, see Considerations when using RSLinx Classic with FactoryTalk Security.

This completes the security setup for RSLinx Classic.

#### What can I secure in **RSLinx Classic?**

The following table explains the features you can restrict access to in RSLinx Classic. For example, you might restrict the ability to shut down the RSLinx Classic service to a small group of users, to prevent parts of your automation system from going down at runtime.

Important:	h	m	р	o	rt	a	n	t	:
------------	---	---	---	---	----	---	---	---	---

If you selected Network Directory during the RSLinx Classic security setup procedure, you must use FactoryTalk Security to secure the following list of features. For more information, contact your local Rockwell Automation distributor.

Securable feature	Description
Clear DDE/OPC Event Log	Shows information on any DDE/OPC error messages logged while running RSLinx Classic with DDE/OPC compliant programs.
Configure CIP Options	Administers how PCCC requests that use the CIP protocol are sent over networks.
Configure Client Applications	Maps configured and running RSLinx Classic drivers to legacy INTERCHANGE C API, as well as shows the link identifier of the virtual network maintained by RSLinx Classic for the use of Client Applications in the virtual link unsolicited messaging model.
Configure ControlLogix Gateway	Provides you with information about the modules in your ControlLogix Gateway.
Configure DDE/OPC Topic	Configures DDE/OPC topic.
Configure Drivers and Shortcuts	Configures (add, edit, or delete) drivers and shortcuts that allow RSLinx Classic to communicate with your PLC, and provide quick access to specific networks.
Configure Gateway	Allows you to enable the RSLinx Classic Gateway.
Configure Network Properties	Allows you to configure network properties.
Edit DDE/OPC Project	Allows you to edit your DDE/OPC project.
Edit Options	Shows the options dialog box, which contains the <b>General</b> and <b>DDE</b> tabs.
Reset Station Diagnostic Counters	Clears the counters in the station diagnostic screens.
Shutdown	Shuts down RSLinx Classic.
View NT Event Log	Records important system occurrences such as RSLinx Classic drivers successfully starting and stopping.

#### Using FactoryTalk Security Network/Local Directory

Keep the following in mind when using RSLinx Classic with FactoryTalk Security:

The FactoryTalk Services Platform can install two completely separate and independent FactoryTalk Directories: Local Directory and Network Directory. User accounts, passwords, and security permissions to securable features are completely separate and cannot be shared between the Network Directory and the Local Directory. Configuring any of these items on one directory does not configure them on the other. Similarly, changing the password to a user account in one directory does not change the password in the other directory, even if the account has the same name in both directories.

When configuring RSLinx Classic to work in one of the two directories, keep the following in mind:

• RSLinx Classic security policies and RSSecurity Emulator must be installed in the same directory (either Local or Network).

- If you configured RSLinx Classic to work in the Network Directory, you must use FactoryTalk Security to administer centralized security across the network.
- If you configured RSLinx Classic to work in Local Directory and want to use FactoryTalk Security, you can administer security only on a single computer.

#### **Reset Network Tree**

When RSLinx Classic is reinstalled, all security settings that were previously configured for networks and devices are lost. You must redefine these security settings in the Networks and Devices tree, or in RSWho. For more information, read the Network and Devices are not shown correctly topic in FactoryTalk Security help, located at Configure security > Troubleshooting security > Network and Devices are not displayed correctly.

#### **Miscellaneous**

Keep the following additional FactoryTalk Security considerations in mind:

- If you did not select the **Enable Security** check box during the RSLinx Classic installation, but want to enable security now, you will need to uninstall and then reinstall RSLinx Classic.
- Every time you are in RSLinx Classic, be sure to verify that the
  Username shown in the Current Security User text box of the Set
  Security dialog box (Security > Set Security User) is correct. If it is
  incorrect, enter the new Username and Password, and click OK.

## Install RSLinx Classic with command line syntax

Besides the Setup Wizard installation, RSLinx Classic supports automated installation using command line syntaxes. You can typically use this automated installation method during large-scale rollouts, when it might be too slow and costly to have administrators or technicians interactively install the software on individual computers.

This automated installation method requires you enter a command line at the beginning of the installation. During the installation process, instead of prompting you for installation and configuration information interactively, the process follows the specific command line, without user intervention.

RSLinx Classic supports the following automated installation:

- Unattended installation (recommended)
- Silent installation for RSLinx Classic .msi file

### Comparing different installation methods

RSLinx Classic v3.90.00 (CPR 9 SR 9) supports setup wizard installation, and installation with command line syntax (that is, unattended installation and silent installation). The following table illustrates the differences among each installation method.

Installation method	Description	References
Setup wizard installation	The standard method to install RSLinx Classic. It installs all the necessary prerequisites software and required components. The installation processes are visible, easy to use, and provides full installation details such as installation summary and how to register for products updates.	Install RSLinx Classic software on page 19
Unattended installation	A new automated installation method in CPR 9 SR 9. It installs all the necessary prerequisites software and required components with little (or no) user intervention, and provides multiple parameters that allow customized installations. It is recommended for large-scale rollouts.  Tip: Depending on the customized parameters, you can silently install RSLinx Classic,	Use unattended installation on page 58
	prerequisite software, and required components using this method. See <a href="Example 1">Example 1</a> on <a href="page 60">page 60</a> .	

Silent
installation for
<b>RSLinx Classi</b>
.msi file

An automated installation method in CPR 9 SR 6 and later. It installs the RSLinx Classic .msi file with little (or no) user intervention. You need to manually install the prerequisite software and required components before silent installation.

Use silent installation for RSLinx Classsic .msi file on page 60

### Use unattended installation

### Perform unattended installation

Starting with CPR 9 SR 9, RSLinx Classic support unattended installation. In the unattended installation, you enter a specified command line syntax with multiple parameters. You can customize the parameters to meet your needs.

To perform RSLinx Classic unattended installation, follow the steps below. The steps may vary slightly. Follow the on-screen instructions that apply to your operating system.

- 1. Close all open Windows programs.
- 2. Open the **Command Prompt** window as administrator.
- 3. In the **Command Prompt** window, navigate to *D*:, where *D*: is the drive containing the RSLinx Classic installation DVD or installation package, and press **Enter**.

Tip: The User Account Control dialog box may show after you press Enter, click Yes to continue.

4. Type a command line with the following syntax:

```
Setup.exe {/Q | /QS}

/IAcceptAllLicenseTerms
[/AutoRestart]
[/SetupLanguage=language]
[/InstallDrive=drive]
[/SerialNumber=serial_number]
[/ProductKey=product_key]
[/Version=product_version]
```

- 5. Press **Enter**. The installation process starts with the parameters you specified.
- 6. For detailed description about each parameter, see Parameters. You can also type **Setup** /? in the **Command Prompt** window, and press **Enter** to view the help information of all parameters and examples.

#### **Parameters**

The parameters and values are not case sensitive. If the value includes spaces, you need to enclose it in quotation marks (" ").

**/Q** 

Required if /QS is not specified.

Installs the product in the silent mode without any user interface.

#### /QS

Required if /Q is not specified.

Installs the product in the unattended mode without user interaction during installation, and shows the progress, errors, or complete messages on the user interface.

#### /IAcceptAllLicenseTerms

Required. Specifies that you read and acknowledge all license agreements, and agree to continue the installation.

#### /AutoRestart

Optional. If specified, the computer will be restarted automatically after the installation, if a restart is required to complete the installation.

The parameter is ignored if a restart is not required.

#### /SetupLanguage=language

Optional. Specifies which language will be displayed during the installation process. The value must be the one of **ENU**, **CHS**, **DEU**, **ESP**, **FRA**, **ITA**, **JPN**, **KOR**, or **PTB**.

If omitted, the default language is the user or system user interface language.

#### /InstallDrive=drive

Optional. Specifies the installation drive.

If omitted, the default drive and location are:

- C:\Program Files (x86)\Rockwell Software (64-bit) or
- C:\Program Files\Rockwell Software (32-bit).

#### /SerialNumber=serial\_number

Optional. Specifies the serial number that is required if you want to get activation keys during installation.

#### /**ProductKey**=product\_key

Optional. Specifies the product key that is required if you want to get activation keys during installation.

#### /Version=product\_version

Optional. Specifies the version corresponding to the product version that the **SerialNumber** and **ProductKey** are able to activate if you want to get activation keys during the installation.

If omitted, the installer uses a default version which is the most recent product version available when retrieving the activation.

The following examples show how to use the commands during the unattended installation.

#### Example 1

Setup.exe /Q /IAcceptAllLicenseTerms

#### means:

The RSLinx Classic unattended installation uses the default settings during the installation process, with no user interface.

#### Example 2

Setup.exe /QS /IAcceptAllLicenseTerms /AutoRestart
/SetupLanguage=CHS /InstallDrive=D:
/SerialNumber=0123456789 /ProductKey=ABCDE-FGHIJ
/Version=3.90.00

#### means:

- During the installation, the progress, error, or complete messages show on user interfaces. The displayed language is Chinese.
- RSLinx Classic version v3.90.00 will be installed to D:\Program Files (x86)\Rockwell Software if you are using a 64-bit operating system, or D:\Program Files\Rockwell Software if you are using a 32-bit operating system.
- 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.

Use silent installation for RSLinx Classic .msi file Before you begin

Starting with RSLinx Classic v3.60.00 (CPR 9 SR 6), RSLinx Classic supports silent installation for RSLinx Classic .msi file. In the silent installation, RSLinx Classic is installed with default settings, with no (or little) dialog boxes, messages, or user intervention.

Before installing the .msi file of RSLinx Classic using the silent installation, you must manually install the following prerequisite software and required components, in the following sequences:

Microsoft .NET Framework 4.6

To manually install it, run it from RSLinx Classic installation directory \Redist\DotNETFX\_4.6.

For detailed instructions about how to install it, refer to http://msdn.microsoft.com/en-us/library/hh506443.aspx.

• Microsoft SQL Server Compact 4.0

To manually install it, run it from RSLinx Classic installation directory \Redist\SQLServerCE\_4.0.

• OPC .NET API 4.5

To manually install it, run it from RSLinx Classic installation directory \Redist\OPCNETAPIRedist\_2.01.10600\x86.

FactoryTalk Diagnostics v2.90.00

To manually install it, run it from RSLinx Classic installation directory \Redist\FTDiagnostics\_2.90.00.

• Windows Firewall Configuration Utility 1.00.08

To manually install it, run it from RSLinx Classic installation directory \Redist\WFCU 1.00.08.

Certificates installation

For detailed instructions about how to install it, refer to <u>Install</u> certificates on page 62.

• USB CIP driver package (for 32-bit operating systems)

This driver is used for Rockwell Automation USB devices and is represented by the **Virtual Backplane** (**SoftLogix58xx**, **USB driver**) type on the **Configure Drivers** dialog box.

To manually install it, run it from RSLinx Classic installation directory \Redist\USBCIP\_3.18.06.

• x64 driver package (for 64-bit operating systems)

To manually install it, run it from RSLinx Classic installation directory \Redist\KN64Bit 2.00.00.

FactoryTalk Services Platform

To manually install it, run it from RSLinx Classic installation directory \Common\2.90.00-FTSP.

### RSLinx Classic x64 driver package

RSLinx Classic version 3.90.00 (CPR 9 SR 9) x64 driver package includes the following:

• 1747-UIC (DH485)

- 1752-SmartGuard USB
- 1784-PCIC(S) (ControlNet)
- 1784-PKTCS (ControlNet)
- 1784-PKTX (DH485/DH+/RIO)
- 1784-U2DHP (DH+)
- Micro800 Remote LCD (208-REMLCD / 820 Remote LCD)
- Micro810
- Virtual Backplane
- USB CIP

In addition, this release of x64 driver package includes a number of enhancements, including USB CIP driver improvements and new driver installation folder **C:\Program Files\Rockwell Automation**.

#### Install certificates

The following certificates are available in the installation directory **\Redist\Cert**:

- 2016-Rockwell-Driver-SHA1.cer
- 2016-Rockwell-SHA256.cer
- DriverCodeSigning2012-1.cer
- Rockwell\_2013.cer
- Rockwell\_2014.cer
- Rockwell\_2015.cer
- rockwellcert2010.cer
- rockwellcert2013.cer
- VeriSign Class 3 Public Primary Certification Authority G5 2036.cer

To manually install a certificate, perform the following steps. The steps below take the *VeriSign Class 3 Public Primary Certification Authority - G5 2036.cer* certificate as an example.

- Locate the certificate file at RSLinx Classic installation directory \Redist\Cert\VeriSign Class 3 Public Primary Certification Authority -G5 2036.cer, and double click it.
- 2. On the **General** tab of the **Certificate** dialog box, click **Install Certificate**.
- 3. In the Certificate Import Wizard dialog box, click Next.

- 4. Select **Place all certificates in the following store**, and click **Browse**.
- 5. In the **Select Certificate Store** dialog box, select the **Trusted Root Certificate Authorities** folder, and click **OK**.
- 6. In the Certificate Import Wizard dialog box, click Next.
- 7. Click Finish.

For more information on certificate installation, see *Deploying Certificates to the Trusted Publishers Store* at http://technet.microsoft.com/en-us/library/cc730989(v=ws.10).aspx.

### Perform silent installation

To install RSLinx Classic in silent mode with default parameter:

- 1. Close all open Windows programs.
- 2. Open the **Command Prompt** window as administrator.
- 3. In the **Command Prompt** window, navigate to  $D:\3.90.00$ -RSLinxClassic\ENU, where D: is the drive containing the RSLinx Classic installation DVD or installation package, and press **Enter**.

• For RSLinx Classic Lite, the directory is D:/3.90.00-RSLinxClassic-Lite\ENU; for RSLinx Classic SDK, the directory is D:/3.90.00-RSLinxClassic-SDK\ENU.

- The User Account Control dialog box may show after you press Enter, click Yes to continue.
- 4. Type the following command line syntax, and press **Enter**.

Msiexec /I "RSLinx.msi" /qn /L\*v+ "%Temp%\Rockwell - RSLinx
Classic Install.log"

**Tip:** The command line install has two options:

- /qb: basic UI (user interface) simple progress and error handling
- /qn: no UI completely silent installation

The installation process starts silently. For the installation log file, type the following command line syntax in the **Command Prompt** window:

%Temp%\Rockwell - RSLinx Classic Install.Log

During the installation, you may see one or two **Windows Security** messages:

- If the message shows "Windows can't verify the publisher of this driver software", click **Install this driver software anyway** to continue the installation.
- If the message shows "Would you like to install this device software", select the **Always trust software from Rockwell Automation** check box and click **Install**. Selecting the check box prevents this dialog box from appearing again.

## Using RSLinx Classic with ControlFlash

#### Select an RSLinx Edition in ControlFlash

When working with ControlFlash, you can use either RSLinx Enterprise or RSLinx Classic as your communications software. The default choice is RSLinx Classic.

To select or change an RSLinx edition in ControlFlash:

- 1. Launch ControlFlash on your computer.
- 2. On the **Welcome** page, click **Change RSLinx Edition**. The button is enabled only if RSLinx Classic and RSLinx Enterprise version 5.90.00 or higher are installed.
  - The default choice is RSLinx Classic to communicate over Data Highway Plus, DF1, DH485, ControlNet, DeviceNet, Ethernet, and USB networks.
  - The other choice is RSLinx Enterprise to communicate over USB and Ethernet networks.

The following table shows the RSLinx edition that ControlFlash uses.

ControlFlash uses	lf
RSLinx Classic	RSLinx Classic is installed, and RSLinx Enterprise is not installed.
RSLinx Enterprise	RSLinx Enterprise is installed, and RSLinx Classic is not installed.
Your preferred RSLinx edition	RSLinx Classic and RSLinx Enterprise are installed.

#### **RSWho**

RSWho is RSLinx Classic's main window that shows networks and devices in a style similar to Windows Explorer. It allows you to view all network connections from a single screen. For more details about RSWho, refer to Chapter 4: RSWho on page 23.

### Configure drivers in RSLinx Classic

To add a driver in RSLinx Classic:

1. From the RSLinx Classic main menu, select **Communications** >

#### **Configure Drivers.**

- 2. From the **Configure Drivers** dialog box, select the desired driver from the **Available Driver Types** list.
- Click Add New. The Add New RSLinx Classic Driver dialog box opens.
- 4. Enter a name for the selected driver (15 characters at maximum), and click **OK**. The **Configuration** dialog box for that driver shows.
- 5. In the **Configuration** dialog box, enter the appropriate parameters for the desired driver.
- 6. Click **OK** to close the **Configuration** dialog box. The new driver now appears in the **Configured Drivers** list.

#### To edit a driver in RSLinx Classic:

- 1. From the RSLinx Classic main menu, select **Communications** > **Configure Drivers**.
- 2. From the **Configure Drivers** dialog box, select the desired driver from the **Configured Drivers** list.
- 3. Click **Configure**. The **Configuration** dialog box for that driver shows.
- 4. Make the necessary modifications to the driver, and click **OK** to return to the **Configure Drivers** dialog box.

**Activation file** - A hidden, read-only, system file that activates a Rockwell Software product. The software will run only if your system can find the correct activation file.

**Activation key -** Activation files contain a database of activation keys. Each key is particular to a certain product and must be accessible on a local or remote drive for that product to run.

**Driver -** The software interface to the hardware device that will be used to communicate between RSLinx Classic and your processor.

**DDE** (**Dynamic Data Exchange**) - A form of inter-process communication. When two or more programs that support DDE are running simultaneously, they can exchange information and commands.

**License** - Authorization to use a specified number of instances of software. A products activation key contains a license for each copy of the software you have purchased.

**Links -** The data path established for one or more channels between two or more stations. DDE links can be hot, warm, or cold.

**OPC** - Provides an industry-standard mechanism to communicate and exchange data between clients and servers using OLE technology.

**Packet** - The transmission unit exchanged at the network layer.

**Poke -** DDE version of a write.

**Read -** To acquire data from somewhere (memory, an output, another station).

**Topic -** Represents a specific path to a processor.

Write - To load data into somewhere (memory, an output, another station).

A satisfaction 45	Н
activation 45 activate 45	hard drive space 17
application workspace 16	hardware 17
application workspace 10	
С	I
classes 42	Install 19
close 14	FactoryTalk Services Platform 47 RSLinx Classic 17
communications device 17 configure a driver 11	RSSecurity Emulator 47
configure a driver 11 configure a topic 12	intended audience 7
context-sensitive help 15, 39	
control definitions 39	L
Control menu 14 copy a link 13	license 17
Customer Information 19	License Agreement 19
Customer information 10	Lite version 9
D	Local Directory 55
_	
diagnostics 15 document conventions 8	М
document set 7	maximize 14
driver configuration 11	memory 22
Dyamnic Data Exchange 27	menu bar 14
	minimize 14
E	mouse 17
_	move 14, 54
electronic book format 8, 42 Electronic Data Sheet (EDS) 29	N
Enable Security 19	IN
ethernet card 17	Network Directory 54
F	0
FactoryTalk Activation 45	OEM version 10
FactoryTalk Administration Console 47	OLE for Process Control 27
FactoryTalk Security user 47	online guides 42
feedback 8	online help 7, 39
_	D
G	P
Gateway version 11	paste a link 13
grace period 45	pointing device 17
	pop-up definition 41
	Process Terminating 19 product
	product

serial numbers 43	system requirements 17
version number 43	
	Т
Q	•
· · ·	tasks 40
Quick start 11	technical support 43
	title bar 14
R	toolbar 15
IX.	topic configuration 12
RAM 17, 22	training 42
related topic 41	troubleshooting
release notes 17	installation 22
requirements	types of RSLinx Classic 9
hardware 17	,,
software 18	
restore 14, 47, 54	U
RSLinx Classic icon 14	updating an existing installation 20
RSLinx Classic types 9	
RSSecurity Emulator 47	V
RSSecurity user 47	V
•	version numbers 43
C	
S	187
security 47	W
Add user accounts 47	What's This? help 39
considerations 55	
enable security option 56	
FactoryTalk Administration Console 47	
FactoryTalk Security user 47	
FactoryTalk Services Platform 47	
Local Directory 55	
Network Directory 54, 55	
Network Tree 56	
RSSecurity Emulator 47, 55	
RSSecurity user 47	
securable features 54	
Set Security dialog box 56	
set up security 47	
serial numbers 43	
Single Node version 10	
size 14, 54	
software 18	
starting RSNetWorx for DeviceNet 17, 21	
status bar 16	
step-by-step procedures 39, 40	
support 43	
support library 43	
SVGA graphics adapter 17	

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