FACTORYTALK® ASSETCENTRE MACHINE EDITION

INSTALLATION MANUAL

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Allen-Bradley  •  Rockwell Software
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Introduction

FactoryTalk® AssetCentre Machine Edition version 2.21.02 is a workstation version of the FactoryTalk AssetCentre product. It can operate on only one computer. FactoryTalk AssetCentre Machine Edition monitors your factory automation system and provides centralized tools to minimize downtime due to unauthorized actions or failing devices. It does this by:

- providing version control and archiving of program files and documents.
- providing a disaster recovery system for Rockwell Automation® devices that verifies your devices’ program and configuration files against protected master files, ensuring quick and accurate recovery if a problem should occur.
- monitoring FactoryTalk-enabled software products and logging system events and user actions (recorded in the Event log and Audit log respectively).
- managing device files.

FactoryTalk AssetCentre Machine Edition uses FactoryTalk Services Platform to provide seamless connectivity with other FactoryTalk-enabled software. Users are defined in FactoryTalk Directory; access to actions within the FactoryTalk AssetCentre system is controlled with FactoryTalk Security.

Optional upgrades with CPR 9 SR 1

FactoryTalk AssetCentre Machine Edition provides optional upgrades from CPR 9 to CPR 9 SR 1 for these software products used by FactoryTalk AssetCentre Machine Edition:

- FactoryTalk Activation
- FactoryTalk Services Platform
- RSLinx® Classic Lite
- RSLinx Enterprise

If you already have the CPR 9 version of these products installed, you do not need to reinstall them or upgrade them. FactoryTalk AssetCentre Machine Edition works with both CPR 9 and CPR 9 SR 1 versions of these products.

If you want to upgrade them to CPR 9 SR 1, you must do so manually by running setup.exe for the product on the installation disc. We recommend that you do this before installing FactoryTalk AssetCentre Machine Edition.
If you do not have these products installed, FactoryTalk AssetCentre Machine Edition will automatically install the CPR 9 SR 1 version.

An optional upgrade is also provided for RSLogix 500, available on the FactoryTalk AssetCentre Machine Edition installation disc.

Location of upgrade setup files
The setup files for the optional upgrades are available on the FactoryTalk AssetCentre Machine Edition installation disc.

<table>
<thead>
<tr>
<th>This product’s setup.exe file</th>
<th>Is located in this folder</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryTalk Activation</td>
<td>FTActivation\autorun.exe</td>
</tr>
<tr>
<td>FactoryTalk Services Platform</td>
<td>Server\Packages\ClientPrep\FTAP\setup.exe</td>
</tr>
<tr>
<td>RSLinx Classic Lite</td>
<td>Server\Packages\ClientPrep\RSLinxClassic\setup.exe</td>
</tr>
<tr>
<td>RSLinx Enterprise</td>
<td>Server\Packages\ClientPrep\RSLinxEnterprise\setup.exe</td>
</tr>
<tr>
<td>RSLogix 500</td>
<td>Additional Software\Rockwell CPR9\RSLogix 500\setup.exe</td>
</tr>
</tbody>
</table>

About the documentation set (or, Where do I start?)
The documentation set includes:


- **Online help**. Use the comprehensive online help for assistance while using the FactoryTalk AssetCentre system. For information about getting started, see the help topic Quick Start, on the Help menu.

About this book
This book is written for FactoryTalk AssetCentre Machine Edition administrators and IT professionals. To perform many of the tasks described in this book, you need to log on to the computer onto which you are installing software as an Administrator (or log on using an account that has administrative privileges).
We assume you are familiar with:

- Microsoft® Windows® operating systems including basic Windows networking and administration tasks
- Microsoft SQL Server Express 2005
- RSLinx™ communication software
- Rockwell Software programming tools for programmable logic controllers
- control networks such as DeviceNet and programmable logic controllers such as PLC-5® processors

Instructions in this manual are written for Windows XP Professional. When instructions vary slightly for different operating systems, only instructions for Windows XP Professional are given.

Please use the feedback form, which you will find packaged with your software, to report errors and to let us know what information you would like to see added in future editions of this manual.

**System requirements**

The FactoryTalk AssetCentre Machine Edition computer must meet the following minimum requirements. FactoryTalk AssetCentre does not support 64-bit Windows operating systems. Only 32-bit versions of Windows operating systems are supported.
The operating system can be in English, Portuguese, French, Spanish, Italian, German, Japanese, Korean, or Chinese.

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>• PC with 1.8 GHz or higher processor clock speed recommended. Intel Pentium/Celeron family, or AMD K6/Athlon/Duron family, or compatible processor recommended</td>
<td>• Windows XP Professional (with Service Pack 2), or Windows Server 2003 R2 with Service Pack 2 or higher</td>
</tr>
<tr>
<td>• CD-ROM or DVD drive</td>
<td>• Microsoft SQL Server 2005 Express Edition (included)</td>
</tr>
<tr>
<td>• 1 GB of RAM (more, depending on application requirements)</td>
<td>• Microsoft SQL Server Management Studio Express</td>
</tr>
<tr>
<td>• 3 GB of free hard disk space (more, depending on application requirements), and an additional 4 GB of free hard disk space for data. (Microsoft SQL Server 2005 Express has a data limit of 4 GB.)</td>
<td>• RSLogix 5 or RSLogix 500 version 7.30 or higher, or RSLogix 5000 version 12 or higher, or any other version released as part of CPR 9 or CPR 9 SR 1.*</td>
</tr>
<tr>
<td></td>
<td>• RSLinx Classic Lite 2.53.00 (CPR 9) or 2.54.00 (CPR 9 SR 1) (included)</td>
</tr>
<tr>
<td></td>
<td>• RSLinx Enterprise version 5.00.00 or higher if your system includes PanelView Plus operator interfaces (included)</td>
</tr>
<tr>
<td>• Graphics adapter capable of a minimum resolution of 1024 x 768 pixels</td>
<td>• FactoryTalk View ME if your system includes PanelView Plus operator interfaces</td>
</tr>
<tr>
<td>• Keyboard and pointing device (mouse)</td>
<td>• DriveExecutive™ software if your system includes Rockwell Automation drives</td>
</tr>
<tr>
<td>• Network adapter card</td>
<td></td>
</tr>
</tbody>
</table>

*For Disaster Recovery functions, the appropriate RSLogix programming software for your devices MUST be installed.

Instructions in this manual are written for Windows XP Professional.

**Network requirements**

Your Microsoft Windows network must use the TCP/IP protocol.
If you use a firewall, you must configure the firewall to permit traffic on the following ports:

<table>
<thead>
<tr>
<th>This port:</th>
<th>is used for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP port 25</td>
<td>SMTP mail</td>
</tr>
<tr>
<td>TCP port 80</td>
<td>Standard WWW port</td>
</tr>
<tr>
<td>TCP port 135</td>
<td>Remote Process Calls</td>
</tr>
<tr>
<td>TCP port 139</td>
<td>File and printer sharing</td>
</tr>
<tr>
<td>TCP port 445</td>
<td>File and printer sharing</td>
</tr>
<tr>
<td>TCP port 1433</td>
<td>Communications to SQL Server</td>
</tr>
<tr>
<td>TCP ports 7002 - 7004</td>
<td>FactoryTalk AssetCentre Machine Edition</td>
</tr>
<tr>
<td>UDP port 137</td>
<td>File and printer sharing</td>
</tr>
<tr>
<td>UDP port 138</td>
<td>File and printer sharing</td>
</tr>
<tr>
<td>UDP port 1434</td>
<td>Browsing for SQL Servers</td>
</tr>
<tr>
<td>UDP port 21060</td>
<td>Rockwell Automation Trace Diagnostics</td>
</tr>
<tr>
<td>UDP port 21061</td>
<td>Rockwell Automation Trace Diagnostics</td>
</tr>
</tbody>
</table>

Some of these ports may vary on your network. Work with your network administrators to determine the correct port numbers to open.

You may need to open ports for other Rockwell Automation products as well. See “Additional ports you may have to open” on page 35.
Installing FactoryTalk AssetCentre Machine Edition

**IMPORTANT:** If you are using a firewall (such as the Windows Firewall), you must manually permit File and Printer Sharing through your firewall. Consult the documentation for your firewall software for instructions. You must also open Port 80 (or whatever port is used for HTTP).

Setting up FactoryTalk AssetCentre Machine Edition requires installing and configuring several software packages. These are listed on the installation menu. The FactoryTalk AssetCentre Machine Edition installation step in the menu launches a series of software installations and utilities.

**FactoryTalk AssetCentre Machine Edition must use a separate FactoryTalk Directory from all other software**

Install all components for FactoryTalk AssetCentre Machine Edition on the same computer, including FactoryTalk Directory and FactoryTalk Activation server. If you are installing more than one FactoryTalk AssetCentre Machine Edition workstation, install all the components on each workstation. If you are using enterprise software, such as FactoryTalk View Site Edition or FactoryTalk Historian Site Edition, that uses a centralized FactoryTalk Directory and FactoryTalk Activation server, install these components on each workstation computer for use only by the workstation (see following drawing). In other words, consider each FactoryTalk AssetCentre Machine Edition workstation a self-contained unit. Notice in the drawing that each FactoryTalk AssetCentre Machine Edition workstation is on a separate computer and does not use the same FactoryTalk Directory as any other software.
Installing Internet Information Services

Microsoft Internet Information Services (IIS) is provided with Windows XP Professional and Windows Server 2003. However, it is not installed by default. You must install this software on the workstation before installing FactoryTalk AssetCentre Machine Edition software.

You may want to run Windows Update to make sure you have the most recent IIS patches before proceeding.

To install IIS:

1. Log on to the workstation computer as an administrator (or a user with administrative privileges).
2. Click Start > Settings > Control Panel to display the Windows Control Panel.
3. In the Control Panel, open Add or Remove Programs.
4. In the Add or Remove Programs window, click the Add/Remove Windows Components icon. This starts the Windows Components Wizard.
5. In the Windows Components Wizard, select Internet Information Services (IIS), and then click Details. Make sure the following boxes are selected.
common files
- internet information services snap-in
- internet services manager (html) (for windows 2000 server only)
- smtp service (if you do not have another mail server that you are going to use)
- world wide web service

click ok. (if the appropriate boxes are already selected, click cancel, and then cancel again. iis is already installed.)

6. click next. windows installs iis. windows may prompt you to insert your operating system disc during the installation.

optional: if you want to use a web site other than the “default web site” for iis, create that web site now in computer management. right-click my computer, select manage or administrative, then, under services and applications, click internet information services (iis) manager. for more information, see your windows server documentation.

installing microsoft sql server 2005 express edition

factorytalk assetcentre machine edition uses a microsoft sql server express database to store project files and user data.

to install sql server express so it is compatible with factorytalk assetcentre machine edition software:

1. log on to the factorytalk assetcentre machine edition computer as an administrator or as a user with administrative rights.

2. insert the factorytalk assetcentre machine edition disc into your computer.

3. the installation program should start automatically. if it does not, open the factorytalk assetcentre machine edition disc in my computer and then run the setup.exe program.

4. click install microsoft sql server express.


6. follow the on-screen instructions for installation until you get to the registration information screen. clear the hide advanced configuration options checkbox.

7. continue following the instructions on the screen.

8. the service account window of the installation program asks how you want to run the services for the sql server. accept the default entries.
9. In the Authentication Mode window, click **Mixed Mode (Windows Authentication and SQL Server Authentication)**. This means that both the SQL Server and the Windows domain can authenticate users for the SQL Server.

FactoryTalk AssetCentre Machine Edition uses SQL Server authentication. When you click Mixed Mode, fields open for entering the password for the sa (SQL Server system administrator) account password. **Do not forget the password.** You will need this password when you install FactoryTalk AssetCentre Machine Edition.

Do not leave the password blank. Doing so leaves your SQL Server and your computer open to attack.

10. In the Collation Settings window, select **SQL collations** and then the dictionary-order, case-insensitive collation option.

The collation settings must be case-insensitive! If the settings are case-sensitive, the FactoryTalk AssetCentre Machine Edition database installation will fail.

11. Follow the on-screen instructions to complete the installation.

**Installing Microsoft SQL Server Management Studio Express**

The Microsoft SQL Server Management Studio Express provides the graphical interface with which you can manage SQL Server 2005 Express Edition.

1. The FactoryTalk AssetCentre Machine Edition installation menu for Microsoft SQL Server should still be open from the previous section.

2. Click Microsoft SQL Server Express Management Studio and follow the on-screen instructions to install the software.

3. Click **Back** to return to the FactoryTalk AssetCentre Machine Edition installation menu.

Local help files are not included with the Microsoft SQL Server Management Studio Express. You can access help over the Internet from the Help menu. Online books are also available at [http://msdn.microsoft.com/en-us/library/ms165706(SQL.90).aspx](http://msdn.microsoft.com/en-us/library/ms165706(SQL.90).aspx). (Internet addresses are subject to change without notice.)
Installing FactoryTalk Activation

FactoryTalk AssetCentre Machine Edition software uses a software activation system called FactoryTalk Activation and is activated on two criteria: the software itself, and capacity (number of devices).

**Capacity** is the number of device assets that can be represented in your FactoryTalk AssetCentre Machine Edition software.

By default (and without capacity activation), you are permitted to add up to ten devices (including process devices and other non-Rockwell Automation devices) in your FactoryTalk AssetCentre Machine Edition software. Above that, you can purchase capacity activation in increments of five with a maximum of 25 devices. Only device and process device assets count for capacity activation. You can add as many files, folders, file links, generic devices, and generic containers as your system requires.

Only Rockwell Automation devices can be used in Disaster Recovery schedules (automatic backups and comparisons of device files). Other devices can be added to the representation of your plant, but they will consume capacity activation without taking advantage of Disaster Recovery functions.

Adding activations in the future

If you add capacity activations to the system in the future, you will have to refresh activation.

To refresh activation:

1. Restart the FactoryTalk Activation server.
3. In the Components list, select FactoryTalk AssetCentre Server Features, and then click Refresh.

For more detailed information about activation for FactoryTalk AssetCentre Machine Edition, see the online help. For more information about FactoryTalk Activation, see the “Activate Rockwell Software Products” insert that came with your FactoryTalk AssetCentre Machine Edition software or the online help for the FactoryTalk Activation tool.

You need an Internet connection to install activation. If you do not have an internet connection, see the “Activate Rockwell Software Products” insert that came with your software.
Installing the FactoryTalk Activation server and activating the software

The FactoryTalk Activation system uses an activation server to store and manage activations. The FactoryTalk Activation server will be installed on the FactoryTalk AssetCentre Machine Edition computer.

If you already have FactoryTalk Activation server CPR 9 installed on your computer and you want to upgrade it to CPR 9 SR1, you must upgrade it manually from the installation disc, as described on page 1.

To install the FactoryTalk Activation server:

1. Log on to the computer on which you want to install the software as an administrator (or a user with administrative privileges).
2. Insert the FactoryTalk AssetCentre disc into your computer.
3. The installation program should start automatically. If it does not, open the FactoryTalk AssetCentre disc in My Computer and then run the Setup.exe program.
4. Click Install FactoryTalk Activation Components.
5. Click Install FactoryTalk Activation Server 3.01 (CPR 9 SR 1). Follow the on-screen instructions to complete the server installation.
6. If the HASP Device Drivers Installation opens while you are installing the FactoryTalk Activation server, proceed with the device driver installation following the on-screen instructions.
7. Continue following the instructions on the screen to complete the FactoryTalk Activation server installation.
8. Click Finish on the last page of the FactoryTalk Activation server installation.
9. Open the Activation Wizard.
   a. Click Start > Programs > Rockwell Software > FactoryTalk Activation > FactoryTalk Activation Tool.
   b. Select the Get Activations tab.
   c. Click Open Activation Wizard.
10. If you have a dongle, attach it to the USB port of your computer. (FactoryTalk Activation requires a specific USB dongle available from Rockwell Automation. The part number is 9509-USBDONG.)
11. In the Activation Wizard, select the Use the Expert Interface to activate multiple products check box on the first screen. This will allow you to get all the activations...
you need for FactoryTalk AssetCentre Machine Edition at once: product activation and capacity activations. Continue following the instructions in the wizard to obtain your activations.

Do not lock activations to virtual network adapters, such as those used for virtual private networks (VPN) or virtual machines. Instead, lock activations to the Host IDs of fixed hardware devices, such as hardware network adapters or hard disk serial numbers.

Installing FactoryTalk AssetCentre Machine Edition software

FactoryTalk AssetCentre Machine Edition works with either FactoryTalk Services Platform 2.10.00 (CPR 9) or 2.10.01 (CPR 9 SR 1). If you already have the CPR 9 version installed, you do not need to reinstall FactoryTalk Services Platform. If you do not have FactoryTalk Services Platform installed, FactoryTalk AssetCentre Machine Edition will install the CPR 9 SR 1 version.

If you already have the CPR 9 version installed and you wish to upgrade to the CPR 9 SR 1 version, you must manually upgrade it from the installation disc, as described on page 1. We recommend that you perform the upgrade before you begin installing the FactoryTalk AssetCentre Machine Edition software.

If you want to use the CPR 9 SR 1 version of RSLinx Classic, you must also use the CPR 9 SR 1 version of FactoryTalk Services Platform.

To install the FactoryTalk AssetCentre Machine Edition software:

1. Log on to the FactoryTalk AssetCentre Machine Edition computer as an administrator or as a user with administrative privileges.

2. Insert the FactoryTalk AssetCentre Machine Edition installation disc into your computer.

3. The setup program should start automatically. If it does not, open the FactoryTalk AssetCentre disc in My Computer and then run the Setup.exe program.


5. The Install FactoryTalk AssetCentre Machine Edition window opens. The installer searches the computer for required components and displays the results in this window. The installer will not attempt to install components that already exist on the
computer. Components that will be installed are indicated with a computer icon and a checked box. You cannot select or clear the check boxes in this window.

If you see a red ‘X’ next to one or more components, this means that the installer cannot determine whether the component should be installed. Contact Technical Support using the contact information provided on the copyright page at the beginning of this guide.

Click **Start** to begin the installation process.

6. Follow the on-screen installation instructions for the components that need to be installed.

The installation of some components may require you to restart your computer. If this is the case and the setup program has not finished installing all of the necessary components, the setup program will restart the next time you log on to your computer.

The following components are checked for and installed or configured during the installation:

- **Windows Installer 3.1 v2.**
- **Microsoft .NET Framework.** The FactoryTalk AssetCentre Machine Edition software requires that Microsoft .NET Framework versions 1.1 (with Service Pack 1) and 2.0 be installed on your computer. If these components are not already installed on your computer, the setup program will install them.
- **FactoryTalk Services Platform 2.10.00 (CPR 9) or 2.10.01 (CPR 9 SR 1).** See “Installing FactoryTalk Services Platform,” next.
- **Check and Configure FTSP.** This occurs during the FactoryTalk Services Platform installation. See the substeps in step 4 on page 15.
- **FactoryTalk AssetCentre Server.** See “FactoryTalk AssetCentre server installer” on page 16.
- **FactoryTalk AssetCentre Common Components.** See “FactoryTalk AssetCentre Common Components installer” on page 18.
- **FactoryTalk AssetCentre Client host.** See “FactoryTalk AssetCentre Client installer” on page 18.
- **RSLinx Classic Lite.** See “Installing RSLinx Classic Lite” on page 19.
- **FactoryTalk AssetCentre RA Disaster Recovery Agent.** See “FactoryTalk AssetCentre Agent installer” on page 20.
- **FactoryTalk AssetCentre Agent Host.** See “FactoryTalk AssetCentre Agent installer” on page 20.
Installing FactoryTalk Services Platform

See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

FactoryTalk AssetCentre Machine Edition depends on the Rockwell Software FactoryTalk Services Platform to function. If the platform is not installed on your computer (or if the correct version is not installed), the setup program will install it. If you have a previous version of the platform installed, you may need to uninstall it before continuing (the setup program will inform you if this is the case).

By default, all members of the Administrators group on the computer are added to the FactoryTalk Directory.

1. Follow the on-screen instructions to install the platform. If FactoryTalk Services Platform 2.10.00 or 2.10.01 is already installed on your computer, go to step 4.

2. When you are asked whether you want to install the FactoryTalk Administration Console, be sure the check box is selected (you will need the console to help you configure the FactoryTalk Directory). Continue to follow the on-screen instructions.

3. Click Finish on the InstallShield Wizard for FactoryTalk Services Platform.

Respond to the FactoryTalk Directory Server Configuration window, explained in step 4, with care. Correctly identifying the FactoryTalk Directory is essential to a properly functioning system.

4. The FactoryTalk Directory Server Configuration window asks if the computer on which you are installing the software is also the computer that will be the FactoryTalk Directory server. Click Continue.

5. When you see a checklist window showing that the FactoryTalk Services Platform components were all installed and configured, click Continue. This will proceed to the next segment of the FactoryTalk AssetCentre Machine Edition server installation.
FactoryTalk AssetCentre server installer

See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

After the setup program checks your FactoryTalk Services Platform installation, it starts the installation for the FactoryTalk AssetCentre server software.

If you have a firewall (such as the Windows Firewall) installed on your computer, you may see warnings that the Scheduler Service and trace diagnostics are being blocked. For FactoryTalk AssetCentre Machine Edition to function correctly, you must unblock traffic for these services.

To install the FactoryTalk AssetCentre Machine Edition server:

1. Follow the on-screen instructions.

2. If you have created another web site for IIS (see page 9), you will see a Select Web Site dialog box. Select the web site you want to use, and then click OK.

3. When the Database Installer utility opens, follow the instructions below

   a. Use the table below to determine the server location setting:

<table>
<thead>
<tr>
<th>If you installed the SQL Server Express software here</th>
<th>Then enter this in the Server field</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the default location and default (local) instance.</td>
<td>Leave the setting as it is (local).</td>
</tr>
<tr>
<td>On a named instance of SQL Server Express</td>
<td>The name or IP address of the computer, a backslash, and the instance where you installed the SQL Server. For example, MYCOMPUTER\SQLEXPRESS or (local)\SQLEXPRESS</td>
</tr>
</tbody>
</table>

   b. For the user credentials, the utility is looking for the system administrator account (sa) you created when you installed the SQL Server. Type sa in the Username field, and the password for the sa account in the Password field. If someone else installed SQL Server, get the correct administrator username and password.

   c. Click Start.


4. The Database User Configuration utility opens. Create a database user for the FactoryTalk AssetCentre software to use to access the database.
a. You can accept the information provided or enter a different username and password, then click **OK**.

If you provide a username and password, provide a SQL user account, not a Windows user account.

b. After you click **OK**, the software asks if you want to create a new login for the database. Click **Yes**.

c. After running the Database User Configuration utility, the software may ask you to log on to FactoryTalk. If so, log on using a FactoryTalk Administrator account.

5. The **Configure Server Settings** utility opens. Configure the port and e-mail settings that specify how the FactoryTalk AssetCentre Server software communicates with other computers.

<table>
<thead>
<tr>
<th>This setting:</th>
<th>Does this:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Location</td>
<td>Sets the name of the FactoryTalk AssetCentre Machine Edition computer. Leave this setting as it is.</td>
</tr>
<tr>
<td>Base IP Port</td>
<td>Sets the Internet Protocol (IP) port that the FactoryTalk AssetCentre Scheduler Service will use. By default, this port is 7002. The system uses the base port, plus the next two consecutive ports. So by default 7002 to 7004 are reserved. If you specify 7000, for example, 7000 through 7002 would be reserved.</td>
</tr>
<tr>
<td>SMTP Server</td>
<td>Specifies the SMTP (Simple Mail Transport Protocol) address of your outgoing SMTP (e-mail) server. For example, mailrelay.myplant.com. The domain provided here (myplant.com in the example above) is used to form the address from which e-mail notifications from FactoryTalk AssetCentre will be sent. The “From” e-mail address will be <a href="mailto:FACTORYTALKASSETCENTRE_NOREPLY@yourdomain.com">FACTORYTALKASSETCENTRE_NOREPLY@yourdomain.com</a>. If you do not know the name of your SMTP server, consult your network administrator.</td>
</tr>
<tr>
<td>SMTP Server IP Port</td>
<td>Sets the IP port used to communicate with your SMTP server. By default, this port is 25. Some facilities use a different port. If you do not know your SMTP port number, consult your network administrator. If you use a port other than 25 and are using a firewall, you’ll have to also open that port in your firewall.</td>
</tr>
</tbody>
</table>

6. When the settings are as desired, click **OK**.

7. If you see messages indicating that the firewall has blocked a program, select **Unblock** on each message.
8. On the final page of the FactoryTalk AssetCentre Server InstallShield Wizard, click Finish.

**FactoryTalk AssetCentre Common Components installer**

*See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.*

To install the common components:

1. Follow the on-screen instructions.
2. When asked to restart your computer, click Yes. You must restart the computer before you run the FactoryTalk AssetCentre Machine Edition server.
3. If you see messages indicating that the firewall has blocked a program, select Unblock on each message.

**AFTER REBOOTING**

The installation software initiates each component install again in sequence beginning with the FactoryTalk Services Platform. You can cancel the installation for all components that you have already installed. The list below provides a step-by-step sequence to cancel all installs that have been completed to this point. What you see may vary depending on your particular system.

2. Depending on your FactoryTalk Directory setting, you may see the stop sign window again about how to set the FactoryTalk Directory. See step 4 on page 15 to make the appropriate choice.
3. Click Continue on the Check FactoryTalk Services Platform Configuration window. This proceeds to the next segment of the installation.

**FactoryTalk AssetCentre Client installer**

*See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.*

After rebooting, the setup program starts the installation for the FactoryTalk AssetCentre client software. This component provides the interface, the part of the software that you interact with.
To install the FactoryTalk AssetCentre client:

1. Follow the on-screen instructions.

When finished, there may be a short delay before you see the RSLinx Classic Lite installer start.

**Installing RSLinx Classic Lite**

See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

RSLinx Classic allows you to connect to Rockwell Automation control hardware. If RSLinx Classic is not installed on the computer, the installation program for the FactoryTalk AssetCentre client will install RSLinx Classic Lite v. 2.54. RSLinx Classic is required even if you have RSLinx Enterprise.

The version of RSLinx Classic installed is RSLinx Classic Lite, which is a version that does not support connections through OPC. For more information about RSLinx Classic, see the RSLinx Classic documentation.

If you have RSLinx Classic (version 2.53 or higher) installed on your computer, you do not need to install this component (and the FactoryTalk AssetCentre client installation program will not ask you to install it).

To install RSLinx Classic Lite:

1. On the RSLinx Classic Welcome Page, click **Required Steps**.
2. Click **Install RSLinx Classic**.
3. Follow the on-screen instructions until you get to the Standard Setup page of the installation wizard.
4. The Standard Setup page allows you to select the components of the software you want to install and to change the folder where the software is installed. We advise that you install all of the components. Change the settings on this page as desired, and then click **Next**.
5. Continue following the on-screen instructions to complete the installation.
6. On the InstallShield Wizard Completed window, click **Finish**.
7. Click **Exit** on the RSLinx Classic installation menu.
8. Restore the Install FactoryTalk AssetCentre Machine Edition window and click **Continue**.

When finished, there may be a short delay before you see the RSLinx Enterprise installer start.
FactoryTalk AssetCentre Agent installer
See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

After installing RSLinx Enterprise software, the setup program starts the installation for the FactoryTalk AssetCentre agent software. Agents are programs that perform certain scheduled operations, such as Disaster Recovery and searches.

To install the FactoryTalk AssetCentre agent:

1. Follow the on-screen instructions.

When finished, there may be a short delay before you see the RSLogix 5000 Compare installer start.

RSLogix 5000 Compare installer
See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

To be able to perform compares between RSLogix 5000 projects, the Disaster Recovery agent uses version 3.0 or later of the RSLogix 5000 Compare utility.

To install the RSLogix 5000 Compare utility:

1. Follow the on-screen instructions.

2. If you have RSLogix 5000 software installed on this computer, you can add a Compare option to the RSLogix 5000 Tools menu. (This requires version 13 or later of RSLogix 5000.) To do this, select the Add Compare Tool to RSLogix 5000 Tools menu check box. Click Next.

3. On the Select Installation Folder screen, you can choose where the compare utility is installed. By default, the utility is installed in the C:\Program Files\Rockwell Software\RSLogix 5000 Compare v2 folder (the folder name was not updated to v3 for this release). You can change this folder by typing a new path in the Folder field, or by clicking the Browse button.

The Select Installation Folder screen also asks whether you want to install the compare utility for yourself or for everyone who uses the computer. Select Everyone. This is very important to the proper functioning of the agent.

4. Click Next.

5. Continue to follow the on-screen instructions.
When finished, the setup program opens the RSLinx Enterprise installer.

**Installing RSLinx Enterprise**

See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

RSLinx Enterprise is required for your FactoryTalk AssetCentre system to communicate with PanelView Plus operator interfaces. RSLinx Classic Lite is still required even if you install RSLinx Enterprise.

If you have RSLinx Enterprise (version 5.00.00 or higher) installed on your computer, you do not need to install this component (and the FactoryTalk AssetCentre agent installation program will not ask you to install it). If you do not have RSLinx Enterprise, version 5.17 will be installed.

1. On the Welcome to FactoryTalk Services page click Install RSLinx Enterprise.
2. On the next menu, click Install RSLinx Enterprise.
3. Follow the on-screen instructions.
4. When prompted for a serial number, enter any 10-digit number, for example 1234567890.
5. In the Setup Type page of the installation wizard, select Standard Feature Set Installation, and then click Next.
6. Continue following the on-screen instructions to complete the installation.
7. On the InstallShield Wizard Completed screen, click Finish.
8. Click Exit on the RSLinx Enterprise installation menu.
9. Restore the Install FactoryTalk AssetCentre window and click Continue.

**Using the Windows Firewall Configuration Utility**

See “Installing FactoryTalk AssetCentre Machine Edition software” on page 13 for the steps to get to this part of the installation.

If you have a firewall other than Windows Firewall, use the information in “Network requirements” on page 4 and “Additional ports you may have to open” on page 35 to configure your firewall to allow communication through the appropriate ports and with specific processes.

The Windows Firewall Configuration Utility will run whether you are using the firewall or not.
If your Windows Firewall/Internet Connection Sharing (ICS) service is stopped or is disabled, the FactoryTalk AssetCentre Windows Firewall Configuration window will indicate this with a red x. Click Continue. The FactoryTalk AssetCentre Machine Edition agent installation is complete.

If you are using a firewall other than Windows Firewall, use the information in “Network requirements” on page 4 and “Additional ports you may have to open” on page 35 to configure your firewall to allow communication through the appropriate ports and with specific processes.

If your Windows Firewall/Internet Connection Sharing (ICS) service is running, the FactoryTalk AssetCentre Windows Firewall Configuration window will indicate this with a green check mark. Click Start. The Rockwell Software Windows Firewall Configuration Utility window opens. The list of exceptions (things to allow through the firewall) generally includes default SQL server and e-mail ports.

If no exceptions need to be made, none will be listed and the Accept button will be unavailable. In that case, click Exit to close this utility.

Click Accept. On the Confirm Windows Firewall Changes window make the appropriate selection depending on whether your Windows Firewall will be on or off, then click OK.

Set Microsoft SQL Server Express Permissions

Finally, now that FactoryTalk AssetCentre Machine Edition has been installed, the SQL Server administrator must set the minimum required SQL Server Express permissions.

The AssetCentreUser SQL user’s default database value can be “master” or “AssetCentre.” By default, the database value is set to “AssetCentre.” The AssetCentreUser SQL user needs to belong to the following AssetCentre database roles:

- db_dataexecute
- db_datareader
- db_datawriter
- public

The “db_dataexecute” database role is added to the FactoryTalk AssetCentre database at install time. It is used to group Execute permissions of stored procedures and functions within the AssetCentre database.

All of the user stored procedures and user functions in the FactoryTalk AssetCentre database need to have the Execute permission granted to the “db_dataexecute” database role.
Configuring FactoryTalk AssetCentre Machine Edition

Configuring for security-enabled RSLogix programming software

If FactoryTalk Security is enabled in your RSLogix programming software (RSLogix 5, RSLogix 500, or RSLogix 5000), you must configure the Disaster Recovery agent and FactoryTalk Security to grant the necessary permissions for Disaster Recovery operations.

Scheduled events for Rockwell Automation processors (Logix5000, MicroLogix, SLC 500, and PLC-5 processors) will fail if FactoryTalk Security is enabled for that device’s programming software (RSLogix 5000 versions 16 and earlier, RSLogix 500, or RSLogix 5). The problem is fixed in RSLogix 5000 versions higher than 16 and a software patch is provided to fix the problem for RSLogix 500 and RSLogix 5. The minimum patched version of RSLogix 500 is 8.00.05.01 and the minimum patched version of RSLogix 5 is 7.30.10.3. For information about installing the patch, see the FactoryTalk AssetCentre Machine Edition Release Notes, located on the FactoryTalk AssetCentre Machine Edition Installation CD and on the Start menu in the FactoryTalk AssetCentre Server group. This issue does not affect other devices’ schedules (such as robots or PanelView devices). If a schedule contains both Rockwell Automation processors and other devices, the scheduled event will only fail for those Rockwell Automation processors for which FactoryTalk Security is enabled in the programming software; the event will complete for the other devices.

If operating in a Windows domain

1. Create a domain account for the Verification Agent service to run as. (The Verification Agent service is for the Disaster Recovery agent.) This is generally performed by someone in your Information Technology department. This account must be used exclusively for the service, not by users.

2. Add the new domain account to the Administrator user group in Windows.

3. Configure the Verification Agent service to run as the new domain account. To do so, open the Services utility in Microsoft Windows. Find the Verification Agent service and edit its properties to log on as the account created above.

4. Open the FactoryTalk Administration Console (logging on to the Network directory using a FactoryTalk Administrator account) and add the new domain account as a new Windows-linked user.

5. Grant this user read access to the FactoryTalk Directory. To do so, right-click the Network node at the top of the tree, and then select Security. On the Permissions tab, select the domain account and then expand the Common permissions group. Make sure the Read permission is set to Allow.
6. Set permissions for RSLogix software (depending on what type of processors you are using). Under System in the Explorer pane, right-click Networks and Devices and select Security. On the Permissions tab, select the new domain user. (If the user account you just created doesn’t appear in the list of users, add it.) Expand the permissions group for the appropriate RSLogix software and set the following permissions to Allow:
   - For RSLogix 5 grant Offline Program File Monitoring, Save, and Upload.
   - For RSLogix 500 grant Offline Program File Monitoring, Save, and Upload.


If operating in a Windows workgroup

Create a new Windows user account and a new FactoryTalk user account.

1. Install all RSLogix software programs that will be used with the workstation if you have not already done so.
2. Use the Computer Management utility in Microsoft Windows to create a Windows user account that can be used to authenticate with FactoryTalk Security.
3. Add the new Windows user account to the local Administrators group.
4. Configure the Verification Agent service to run as the new Windows user account you created above. To do so, open the Services utility in Microsoft Windows. Find the Verification Agent service and edit its properties to log on as the account created above.
5. Open the FactoryTalk Administration Console and add the new Windows user account created above as a new Windows-linked user.

Set up RSLogix software permissions.

1. In the FactoryTalk Administration Console, create a new user group called “Local Agent Users.” Add each of the new FactoryTalk users created in step 5 above to the Local Agent Users group. This will facilitate making security settings because you will be able to set them once for the whole group, rather than for each user.
2. Grant the Local Agent Users group read access to the FactoryTalk Directory. To do so, right-click the Network node at the top of the tree, and then select Security. On
3 • CONFIGURING FACTORYTALK ASSETCENTRE MACHINE EDITION

the Permissions tab, select the Local Agent Users group and then expand the Common permissions group. Make sure the Read permission is set to Allow.

3. Set permissions for RSLogix software (depending on what type of processors you are using). Under System in the Explorer pane, right-click Networks and Devices and select Security. If the Local Agent Users group doesn’t appear in the list, add it. On the Permissions tab, select the Local Agent Users group. Expand the permissions group for the appropriate RSLogix software and set the following permissions to Allow:

- For RSLogix 5 grant Offline Program File Monitoring, Save, and Upload.
- For RSLogix 500 grant Offline Program File Monitoring, Save, and Upload.


Adding users to the FactoryTalk Directory

A user must have a FactoryTalk Directory user account in order to use FactoryTalk AssetCentre Machine Edition.

This section contains only basic instructions for using the FactoryTalk Directory and FactoryTalk Security. For background information and information regarding more advanced procedures, please see the online help for the FactoryTalk Administration Console.

By default, all members of the Administrators group on the computer were added to the Administrators group in the FactoryTalk Directory when you installed FactoryTalk Services Platform. Any rights that you assign to a Windows User Group are assigned to all members of that group.

To add a user to the FactoryTalk Directory:

1. Start the FactoryTalk Administration Console (click Start > All Programs > Rockwell Software > FactoryTalk Administration Console).
2. Log on to the Network directory using a FactoryTalk Administrator account.
3. Open the Users and Groups folder.
4. Under the Users and Groups folder, right-click the Users folder, and then select New.
5. Specify whether you want to create a new User or a Windows-Linked User. User accounts are visible only to the FactoryTalk system and their access is independent of Windows. A Windows-linked user is validated by Windows. For FactoryTalk AssetCentre Machine Edition either type of account works equally well.

If you choose to use Windows-linked users, consider using Windows-linked group accounts rather than Windows-linked user accounts if possible. This simplifies the process if you ever move your software to a different domain. You cannot move individual Windows-linked user accounts from one domain to another. You can move Windows-linked group accounts to a new domain, while retaining all of the security permissions for the group. If you change the domain an individual Windows-linked user account belongs to, you must delete the old account, create the new account, and then recreate all of the security permissions for the new account.

6. Enter the information for the user.

**Configuring feature security for FactoryTalk AssetCentre users**

By default, all users and the Administrators group in FactoryTalk Directory can perform any task in the FactoryTalk AssetCentre Machine Edition software. To deny specific users the right to perform tasks in FactoryTalk AssetCentre, you must edit the Feature Security settings in the FactoryTalk Administration Console.

Never explicitly deny rights to the All Users or Administrators group in FactoryTalk. Rather, set up specific user groups of your own and deny rights to those groups. Denying rights to All Users or Administrators could lock everyone out and would deny rights in all FactoryTalk-enabled products on the workstation that use FactoryTalk version 2.10.00 (CPR 9) or version 2.10.11 (CPR 9 SR 1).

To change which users can perform tasks in FactoryTalk AssetCentre:

1. Start the FactoryTalk Administration Console (click Start > Programs > Rockwell Software > FactoryTalk Administration Console).
2. Log on to the Network directory using a FactoryTalk Administrator account.
3. In the Explorer pane of the FactoryTalk Administration Console, navigate to System > Policies > Product Policies > FactoryTalk AssetCentre.
4. Double-click **Feature Security**.

There is also a Server Settings object in the FactoryTalk AssetCentre folder. Do NOT attempt to change any of the settings in this object. Doing so may render your FactoryTalk AssetCentre system inoperative. If you need to change server settings (to use a different mail server, for example), click **Start > All Programs > Rockwell Software > FactoryTalk AssetCentre Server > Server Settings**.

5. In the Feature Security Properties window, click the policy you want to change, and then click the browse button for the policy. See the table after step 8 for a description of each policy.

6. In the Configure Securable Action dialog box, select the user or group for whom you want to assign permissions. (If the user or group does not appear in the list, click **Add**, click **Show all**, select the user or group, and then click OK.)

7. Click the appropriate box to allow or deny the user permission to the selected feature.
8. Click OK.

<table>
<thead>
<tr>
<th>This Policy Setting</th>
<th>Controls whether users can</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Address Book</td>
<td>View the Address Book (which contains addresses for the purpose of sending automatic e-mail notifications).</td>
</tr>
<tr>
<td>Edit Address Book</td>
<td>Edit or add contacts and groups in the Address Book (which contains addresses for the purpose of sending automatic e-mail notifications).</td>
</tr>
<tr>
<td>Override Archive Check In</td>
<td>Check in a file regardless of who checked it out or from where it was checked out.</td>
</tr>
<tr>
<td>Override Archive Undo Check Out</td>
<td>Undo a check out even if a different user checked the file out.</td>
</tr>
<tr>
<td>Override Removal of Local Copies</td>
<td>Choose to keep local copies of checked-in files on the computer. If this right is allowed, the user can keep local copies. If this right is denied, the user is not given this option.</td>
</tr>
<tr>
<td>Configure Personal Archive File Associations</td>
<td>Configure which software product launches when opening a particular type of file. If a personal file association is set, it will take precedence over the system file association.</td>
</tr>
<tr>
<td>Configure System Archive File Associations</td>
<td>Configure which software product launches when opening a particular type of file. This setting applies unless the user has specified a personal file association.</td>
</tr>
<tr>
<td>Configure Personal Archive Working Folders</td>
<td>Set a personal working folder for checking out files. For more information on working folders and personal working folders see the FactoryTalk AssetCentre Machine Edition online help.</td>
</tr>
<tr>
<td>Configure System Archive Working Folders</td>
<td>Set the system working folder to which all users check out files unless they have a personal working folder. For more information on working folders and system working folders see the FactoryTalk AssetCentre Machine Edition online help.</td>
</tr>
<tr>
<td>Run Archive Database Cleanup Wizard</td>
<td>Run the Archive Database Cleanup Wizard to delete unused versions of files.</td>
</tr>
<tr>
<td>Switch to Design mode</td>
<td>Enter Design mode, in which the user can edit the asset tree.</td>
</tr>
<tr>
<td>View Event Log</td>
<td>Display the Event Log and run a search on the Event Log.</td>
</tr>
<tr>
<td>View Audit Log</td>
<td>Display the Audit Log and run a search on the Audit Log.</td>
</tr>
<tr>
<td>View Diagnostics and Health Log</td>
<td>Display the Diagnostics and Health Log and run a search on the Diagnostics and Health Log.</td>
</tr>
<tr>
<td>Change Diagnostics and Health Log Message</td>
<td>Change the status of or add a comment to a Diagnostics and Health Log record.</td>
</tr>
</tbody>
</table>
For more information on these policy settings or the features to which they refer, see the FactoryTalk AssetCentre Machine Edition online help.

**Starting FactoryTalk AssetCentre Machine Edition**

To start the FactoryTalk AssetCentre Machine Edition software:

1. Click **Start > Programs > Rockwell Software > FactoryTalk AssetCentre Client > AssetCentre Client**.
Troubleshooting FactoryTalk AssetCentre Machine Edition installation

General installation

A red x appears next to an item to be installed
The initial installation window displays a list of all necessary components, whether they were found on the computer, and whether they will be installed. A red x is displayed next to a component if the installer could not determine whether the correct version already exists on that computer.

Contact Technical Support using the contact information provided on the copyright page at the beginning of this guide.

A “Program Maintenance” window appears while installing
This indicates that the component of the software you are installing is already installed. You do not need to install it again. If you suspect your installation is damaged, you can choose to repair the installation.

Server installation

SQL collation error encountered during database installation
The SQL Server collation must be case-insensitive for use with FactoryTalk AssetCentre Machine Edition software. If your SQL Server Express collation is case-sensitive, the FactoryTalk AssetCentre Machine Edition database installation will fail. Follow the directions here if your SQL Server Express collation is case-sensitive.

- If this SQL Server Express has no other databases on it:
  Either: Uninstall SQL Server Express and reinstall it using the default collation in the setup program.
  Or: Rebuild the master database using a case-insensitive collation. Refer to the SQL Server Express online books for instructions.

- If this SQL Server Express has other databases on it, then setup or use another SQL Server Express that is configured with a case-insensitive collation.

If you have an MSDN subscription, you can find more information at http://msdn.microsoft.com/en-us/library/ms143503(SQL.90).aspx, or search the
Microsoft MSDN site for SQL Server 2005 collation settings. (Internet addresses are subject to change without notice.)

Unable to log on to SQL Server Express during server installation

The logon during the installation process requires the use of the SQL Server Express sa (system administrator) account. If you configured your SQL Server to use mixed (both SQL Server and Windows domain) authentication, the sa account is available. Use the password you created for the sa account when the installation program prompts you for it. If your SQL Server Express installation is not configured for mixed authentication, you will need to change the authentication method. See the documentation for SQL Server Express for more information.

If you have forgotten your sa account password, you will need to change it. See the Microsoft SQL Server Express documentation for more information.

Starting FactoryTalk AssetCentre Machine Edition

“Cannot initialize application eventing subsystem” or “No connection could be made because the target machine actively refused it” appears when starting the software

If you see the error “Cannot initialize application eventing subsystem” or an error indicating that the target machine actively refused the connection, then:

- Make sure the FactoryTalk AssetCentre Server service is started.
- Reboot the computer. If you still see the error, then:
- Stop and disable all schedules. Reboot the computer.

“At least one service or driver failed during system startup. Use Event Viewer to examine the event log for details” appears when starting the software

This message may appear when launching RSLinx Classic on a computer that has both RSLinx Classic and RSLinx Enterprise installed. The System Event log contains the message, “The A-B Virtual Backplane service failed to start due to the following error: The system cannot find the file specified.”

In some cases, the Virtual Backplane driver does not get installed correctly. For more information see the Rockwell Automation Knowledgebase article 34128 (http://www.rockwellautomation.com/knowledgebase/).
Other errors starting the software
If the FactoryTalk AssetCentre Machine Edition software won’t start or you see other error messages not specifically mentioned above, try the following:

- Make sure the FactoryTalk AssetCentre Server service, IIS, and SQL server are all running.

**TO MAKE SURE IIS IS RUNNING ON THE SERVER COMPUTER**

- **For Windows Server 2003**: Click Start. On the Start menu, right-click the My Computer icon, and then click Manage. This starts the Computer Management console.
  - **For Windows XP**: On the Windows Desktop, right-click the My Computer icon, and then click Manage. This starts the Computer Management console.
- In the Computer Management console, open Services and Applications.
- Click Internet Information Services. The right pane lists the Internet services running under IIS. Open the Web Sites folder, and make sure the correct web site for IIS is “Running.” This is generally the “Default Web Site,” however, if you have created a different web site for IIS (see page 9) be sure to select that web site instead. If the web site is not running, continue to step d.
  - To start the service, right-click the Default Web Sites icon, and then select Start.

- If you are running in an environment without a domain controller (in a workgroup), you may need to turn off the single sign-on feature of FactoryTalk. See the FactoryTalk Help for more information.
- Make sure the server location setting is correct. Click Start > Programs > Rockwell Software > FactoryTalk AssetCentre Server > Server Settings. The server location must be set in this utility, NOT in the FactoryTalk Administration Console.
- Make sure the SQL Connection is set properly. On the server computer, click Start > Programs > Rockwell Software > FactoryTalk AssetCentre Server > Data Source Configuration.
- If you are using a firewall, make sure your firewall is configured properly to permit access to the FactoryTalk AssetCentre Server service. See “Network requirements” on page 4 and “Additional ports you may have to open” on page 35.
FACTORYTALK ASSET CENTRE MACHINE EDITION INSTALLATION GUIDE
Additional ports you may have to open

If you are using a firewall, you may need to open ports for other Rockwell Automation products as well as for FactoryTalk AssetCentre Machine Edition. For the ports to open for FactoryTalk AssetCentre Machine Edition, see “Network requirements” on page 4.

<table>
<thead>
<tr>
<th>This port</th>
<th>Of this type</th>
<th>Is used with this product</th>
<th>For this purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>TCP</td>
<td>1769-L35E</td>
<td>Outbound e-mail only</td>
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<td></td>
<td></td>
<td>RSBizWare</td>
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<td></td>
<td></td>
<td>RSSql</td>
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<td></td>
<td></td>
<td>RSView Messenger</td>
<td></td>
</tr>
<tr>
<td>67-68</td>
<td>UDP</td>
<td>1734-AENT</td>
<td>Client only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1747-L55x</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>1756-ENBT</td>
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<td></td>
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<td>1756-ENET</td>
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<td></td>
<td>1756-EWEB</td>
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<td></td>
<td>1761-NET-ENI</td>
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<td></td>
<td>1769-L35E</td>
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<td></td>
<td></td>
<td>1785-ENET</td>
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<td></td>
<td>1785-LXXE</td>
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<td>1788-ENBT</td>
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<td>1794-AENT</td>
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<td></td>
<td></td>
<td>5820-EI</td>
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<td></td>
<td></td>
<td>PowerFlex Drives</td>
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<td>PowerMonitor 3000</td>
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<td></td>
<td>PanelView</td>
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<tr>
<td></td>
<td></td>
<td>PanelView Plus</td>
<td></td>
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<tr>
<td>69</td>
<td>UDP</td>
<td>5820-EI</td>
<td>For binary download, used in conjunction with BootP</td>
</tr>
<tr>
<td>This port</td>
<td>Of this type</td>
<td>Is used with this product</td>
<td>For this purpose</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
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<td>---------------------------</td>
</tr>
<tr>
<td>80</td>
<td>TCP</td>
<td>1734-AENT, 1747-L55x, 1756-ENBT, 1756-ENET, 1756-EWEB, 1761-NET-ENI, 1763-L16x, 1769-L35E, 1785-ENET, 1785-LXXE, 1788-ENBT, 1794-AENT</td>
<td>PowerFlex Drives, PowerMonitor 3000, PanelView, PanelView Plus, RSBizWare, RSView32, RSViewSE</td>
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<td>123</td>
<td>UDP</td>
<td>PowerMonitor 3000</td>
<td>Network time protocol</td>
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<tr>
<td>135</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>DCOM endpoint mapper</td>
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<tr>
<td>135</td>
<td>TCP</td>
<td>RSMACC</td>
<td></td>
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<tr>
<td>300-400</td>
<td>UDP</td>
<td>PowerMonitor 3000</td>
<td>Master / slave configuration</td>
</tr>
<tr>
<td>This port</td>
<td>Of this type</td>
<td>Is used with this product</td>
<td>For this purpose</td>
</tr>
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<tr>
<td>400-402</td>
<td>TCP</td>
<td>RSSql</td>
<td>Transaction Manager, Compression Server, and Configuration Server</td>
</tr>
<tr>
<td>1089</td>
<td>TCP / UDP</td>
<td></td>
<td>Foundation Fieldbus</td>
</tr>
<tr>
<td>1090</td>
<td>TCP / UDP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1091</td>
<td>TCP / UDP</td>
<td></td>
<td></td>
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<tr>
<td>1330</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Object RPC</td>
</tr>
<tr>
<td>1331</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Service control</td>
</tr>
<tr>
<td>1332</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Server health</td>
</tr>
<tr>
<td>1433</td>
<td>TCP</td>
<td>RSMACC</td>
<td>SQL Server Communication (default port)</td>
</tr>
<tr>
<td>2222</td>
<td>TCP</td>
<td>1747-L55x 1771-DMC(x) 1785-ENET 1785-LxE 5820-EI INTERCHANGE PowerMonitor II RSLinx</td>
<td>Uses port 2223 as the source port for TCP connections</td>
</tr>
<tr>
<td>2222</td>
<td>UDP</td>
<td>1734-AENT 1756-ENBT 1769-L35E 1788-ENBT 1794-AENT</td>
<td>I/O communications (used only by products that support I/O over EtherNET/IP)</td>
</tr>
<tr>
<td>3060</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Directory Server file transfer</td>
</tr>
<tr>
<td>3622</td>
<td>TCP / UDP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4120</td>
<td>TCP</td>
<td>RSBizWare</td>
<td>Production Server</td>
</tr>
<tr>
<td>4121</td>
<td>TCP</td>
<td>RSBizWare</td>
<td>Server Manager</td>
</tr>
<tr>
<td>4122</td>
<td>TCP</td>
<td>RSBizWare</td>
<td>PlantMetrics Server</td>
</tr>
<tr>
<td>4123</td>
<td>TCP</td>
<td>RSBizWare</td>
<td>Task Manager</td>
</tr>
<tr>
<td>4124</td>
<td>TCP</td>
<td>RSBizWare</td>
<td>Scheduler Server</td>
</tr>
<tr>
<td>4125</td>
<td>TCP</td>
<td>RSBizWare</td>
<td>Scheduler CTP Server</td>
</tr>
<tr>
<td>6543</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Alarm Server</td>
</tr>
<tr>
<td>7600</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Event Multiplexor</td>
</tr>
</tbody>
</table>
If your computers are using virtual private networking (VPN) software, you may need to work with your network administrator to permit traffic for these ports.

<table>
<thead>
<tr>
<th>This port</th>
<th>Of this type</th>
<th>Is used with this product</th>
<th>For this purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>7700</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>Event Server</td>
</tr>
<tr>
<td>7720</td>
<td>TCP</td>
<td>RSVie\text{SE}</td>
<td>HMI Server</td>
</tr>
<tr>
<td>7721</td>
<td>TCP</td>
<td>RSVie\text{SE}</td>
<td>Server Framework</td>
</tr>
<tr>
<td>7722</td>
<td>TCP</td>
<td>RSVie\text{SE}</td>
<td>HMI Activation</td>
</tr>
<tr>
<td>7723</td>
<td>TCP</td>
<td>RSVie\text{SE}</td>
<td>Historical Data Log Reader</td>
</tr>
<tr>
<td>8080</td>
<td>TCP</td>
<td>RSBiz\text{Ware}</td>
<td>Production Server, reports</td>
</tr>
<tr>
<td>8081</td>
<td>TCP</td>
<td>RSBiz\text{Ware}</td>
<td>Server Manager</td>
</tr>
<tr>
<td>8083</td>
<td>TCP</td>
<td>CTP Server</td>
<td></td>
</tr>
<tr>
<td>27000</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>License Server</td>
</tr>
<tr>
<td>44818</td>
<td>TCP / UDP</td>
<td>1734-AENT 1747-L55x 1756-ENBT 1756-ENET 1756-EWEB 1761-NET-ENI 1763-L16x 1769-L35E 1785-ENET 1785-LXXE 1788-ENBT 1794-AENT INTERCHANGE (rsicd) PowerFlex Drives PowerMonitor 3000 PanelView PanelView Plus RS\text{Lin}x RS\text{Lin}x \text{Enterprise}</td>
<td>Messaging, data transfer, upload/download, peer messaging, and so on. TCP type is used by RS\text{Lin}x largely for browsing.</td>
</tr>
<tr>
<td>dynamic (1024-65535+)</td>
<td>TCP</td>
<td>FactoryTalk</td>
<td>DCOM dynamic ports</td>
</tr>
</tbody>
</table>

If your computers are using virtual private networking (VPN) software, you may need to work with your network administrator to permit traffic for these ports.
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