FactoryTalk ViewPoint Quick Start Guide
Important user information

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

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

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**WARNING:** Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

**ATTENTION:** Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

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

---

Labels may also be on or inside the equipment to provide specific precautions.

**SHOCK HAZARD:** Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

**BURN HAZARD:** Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

**ARC FLASH HAZARD:** Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

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Chapter 1

Getting started with FactoryTalk ViewPoint

This chapter describes:

- What a FactoryTalk® ViewPoint web application is.
- FactoryTalk ViewPoint system requirements.
- How to install the FactoryTalk ViewPoint software.
- How to upgrade the FactoryTalk ViewPoint software.
- How to set up web client computers.

About FactoryTalk ViewPoint web applications

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

A web application consists of graphic displays selected from the FactoryTalk View application, converted for viewing in a web browser, and then published to a FactoryTalk ViewPoint Server (also called the web server).

- For Site Edition applications, the FactoryTalk ViewPoint Server runs on a desktop or server computer.
- For Machine Edition applications, a PanelView™ Plus or PanelView Plus Pro operator terminal functions as the server.

To learn more about differences between Site Edition and Machine Edition web applications, see the next chapters in this manual.

What to expect when you open a web application

To open a published web application, you open a browser and enter the address of the computer or terminal running the web server that hosts the application, such as http://computer name/FTVP.
Important: When you enter a web address in the browser, do not exceed the maximum length of 2048 characters. Rework the screen so that the web address is less than 2048 characters. If the web address exceeds the maximum 2048 characters allowed, the following error message appears, "Unable to open the requested display. The web address exceeds the maximum length of 2048 characters".

Note: Different browsers have different length limits. If you get this error message because you are using large numbers of parameters it is recommended that you use a parameter file instead.

The initial display that you specified for the web application opens first. From there, you can navigate the entire application using buttons and touch animation created in FactoryTalk View Studio. Touch animation is not supported in FactoryTalk ViewPoint for Machine Edition.

Tip:
- If you are using FactoryTalk View Site Edition applications published to FactoryTalk ViewPoint, you can view multiple displays using a startup macro.
- If you are using FactoryTalk View Machine Edition applications published to FactoryTalk ViewPoint, you can view a single display on startup. Macros are not supported in FactoryTalk ViewPoint for Machine Edition.

Displays in a FactoryTalk ViewPoint application can be secured. In runtime, an authenticated user who is a member of a security group, is allowed or denied access to secured displays. There are two types of access: Write and View. Graphic objects in the displays are fully animated; and depending on your security permissions you can use the objects to write to tags. You cannot start and stop HMI components. For example, a numeric input object with a tag connection will display the tag’s current value, but will not permit downloads.

As in FactoryTalk View, objects with tag or expression connections will show in outline form if the connection is broken.

To learn more about FactoryTalk View features that are not supported in FactoryTalk ViewPoint applications, see the FactoryTalk ViewPoint Help.

FactoryTalk ViewPoint for Site Edition works within the system requirements of all Rockwell Automation software products.

For the latest compatibility information, refer to the Product Compatibility and Download Center.

Hardware Requirements

FactoryTalk ViewPoint requires the following hardware to publish applications:

- Intel® Core™ 2 Duo processor running at 2.8. Ghz
- 2 GB memory (RAM)
- 16 GB available hard disk space
FactoryTalk ViewPoint has been tested with the following mobile devices:

- iPad mini™ with IOS® 10.3.3
- iPad Air® with IOS 11.0.3
- iPad Air 2 with IOS 10.3.3
- Nexus™ 6P with Android 8.0.0
- Nexus 7 with Android 6.0.1
- Google® Pixel C with Android 7.1.1
- Surface® Pro 3 with Windows 10
- Samsung Galaxy Note 4 with Android 5.1.1
- Samsung Galaxy Note 5 with Android 6.0.1
- iPhone 6 Plus with IOS 10.3.3
- iPhone 6S Plus with IOS 11.1.2
- iPhone 7 with IOS 10.2.1
- iPhone 7 Plus with IOS 10.3.3

**Operating systems**

FactoryTalk ViewPoint server runs on either the 32-bit or the 64-bit versions of the following operating systems:

- Windows® 7 Enterprise with Service Pack 1
- Windows 7 Professional with Service Pack 1
- Windows 7 Ultimate with Service Pack 1
- Windows 8 Enterprise
- Windows 8 Professional
- Windows 8.1 Enterprise
- Windows 8.1 Professional
- Windows 10 Enterprise*
- Windows 10 Professional*
- Windows Server® 2008 R2 Enterprise with Service Pack 1
- Windows Server 2008 R2 Standard with Service Pack 1
- Windows Server 2012 Datacenter
- Windows Server 2012 Standard
• Windows Server 2012 R2 Datacenter
• Windows Server 2012 R2 Standard
• Windows Server 2016 Datacenter*
• Windows Server 2016 Standard**

* For more information about the Windows 10 operating system support, see Answer ID 964391 in the Rockwell Automation Knowledgebase.

** For more information about the Windows Server 2016 operating system support, see Answer ID 991031 in the Rockwell Automation Knowledgebase.

** Required software

FactoryTalk ViewPoint for Site Edition is an add-on to an existing FactoryTalk View system and requires FactoryTalk View version 10.00.00.

FactoryTalk ViewPoint for Site Edition automatically installs the following required software on the host computer, if necessary:

• FactoryTalk Services Platform version 3.00.00
• FactoryTalk Alarms and Events version 3.00.00
• FactoryTalk Activation Manager version 4.02.00
• FactoryTalk View Site Edition Client version 10.00.00
• Internet Information Services
• Microsoft .NET Framework 4.6

** Supported Browsers

The following web browsers have been tested and are supported for use with this release:

• Microsoft Edge™
• Internet Explorer™ 11.0
• Google™ Chrome™ browser 59.0 or later

The following mobile web browsers have been tested and are supported for use with this release:

• Apple® Safari™
• Google Chrome browser
Windows Firewall Program and Services exception list

- Add ViewPoint.Server.LDPoolGateway.exe to the Windows Firewall Program and Services exception list. To learn more, see Answer ID 64560 in the Rockwell Automation Knowledgebase.

FactoryTalk ViewPoint for Machine Edition system requirements

FactoryTalk ViewPoint for Machine Edition works within the system requirements of all Rockwell Automation software products.

For the latest compatibility information, refer to the Product Compatibility and Download Center.

Hardware Requirements

FactoryTalk ViewPoint requires the following hardware to publish applications:

- Intel® Core™ 2 Duo processor running at 2.8 GHz
- 2 GB memory (RAM)
- 16 GB available hard disk space

FactoryTalk ViewPoint for Machine Edition requires the following PanelView™ Plus graphic terminal hardware:

- PanelView Plus (700-1500 with 128 MB RAM)
- PanelView Plus 6
- PanelView Plus 7

FactoryTalk ViewPoint has been tested with the following mobile devices:

- iPad mini™ with iOS® 10.3.3
- iPad Air® with IOS 11.0.3
- iPad Air 2 with IOS 10.3.3
- Nexus™ 6P with Android 8.0.0
- Nexus 7 with Android 6.0.1
- Google® Pixel C with Android 7.1.1
- Surface® Pro 3 with Windows 10
- Samsung Galaxy Note 4 with Android 5.1.1
- Samsung Galaxy Note 5 with Android 6.0.1
- iPhone 6 Plus with iOS 10.3.3
Operating systems

FactoryTalk ViewPoint server runs on either the 32-bit or the 64-bit versions of the following operating systems:

- Windows® 7 Enterprise with Service Pack 1
- Windows 7 Professional with Service Pack 1
- Windows 7 Ultimate with Service Pack 1
- Windows 8 Enterprise
- Windows 8 Professional
- Windows 8.1 Enterprise
- Windows 8.1 Professional
- Windows 10 Enterprise*
- Windows 10 Professional*
- Windows Server® 2008 R2 Enterprise with Service Pack 1
- Windows Server 2008 R2 Standard with Service Pack 1
- Windows Server 2012 Datacenter
- Windows Server 2012 Standard
- Windows Server 2012 R2 Datacenter
- Windows Server 2012 R2 Standard
- Windows Server 2016 Datacenter**
- Windows Server 2016 Standard**

* For more information about the Windows 10 operating system support, see Answer ID 964391 in the Rockwell Automation Knowledgebase.

** For more information about the Windows Server 2016 operating system support, see in the Answer ID 991031 Rockwell Automation Knowledgebase.

Required software

FactoryTalk ViewPoint for Machine Edition is an add-on to an existing FactoryTalk View system and requires FactoryTalk View version 10.00.00.
FactoryTalk ViewPoint for Machine Edition automatically installs the following required software on the host computer, if necessary:

- FactoryTalk Services Platform version 3.00.00
- FactoryTalk Activation Manager version 4.02.00
- Microsoft .NET Framework 4.6

**Supported Browsers**

The following web browsers have been tested and are supported for use with this release:

- Microsoft Edge™
- Internet Explorer® 11.0
- Google® Chrome™ browser 59.0 or later

The following mobile web browsers have been tested and are supported for use with this release:

- Apple® Safari™
- Google Chrome browser

**Windows Firewall Program and Services exception list**

- Add ViewPoint.Server.LDPoolGateway.exe to the Windows Firewall Program and Services exception list. To learn more, see Answer ID 64560 in the Rockwell Automation Knowledgebase.

**Firmware requirements**


<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00-2017mmdd or later</td>
<td>10.00</td>
<td>10.00</td>
</tr>
<tr>
<td>9.00-2016mmdd or later</td>
<td>9.00</td>
<td>9.00</td>
</tr>
<tr>
<td>8.20-2016mmdd or later</td>
<td>8.20</td>
<td>8.20</td>
</tr>
<tr>
<td>8.10-2015mmdd or later</td>
<td>8.10</td>
<td>8.10</td>
</tr>
<tr>
<td>8.00-2014mmdd or later</td>
<td>8.00</td>
<td>8.00</td>
</tr>
<tr>
<td>7.00-2012mmdd or later</td>
<td>7.00</td>
<td>2.60</td>
</tr>
<tr>
<td>6.1-2011mmdd or later</td>
<td>6.10</td>
<td>2.10</td>
</tr>
<tr>
<td>6.0-20110425 or later</td>
<td>6.00</td>
<td>1.20 or 2.00</td>
</tr>
<tr>
<td>5.10.01 or later</td>
<td>5.10</td>
<td>1.10</td>
</tr>
</tbody>
</table>
Chapter 1  Getting started with FactoryTalk ViewPoint

Installing FactoryTalk ViewPoint

FactoryTalk ViewPoint is installed by default during the FactoryTalk View installation, and can also be installed separately using two installation methods:

- Setup wizard installation
- Unattended or silent installation

If you are installing the FactoryTalk ViewPoint for Machine Edition software, be sure you have FactoryTalk View Studio installed.

If you are already using FactoryTalk ViewPoint software, see Upgrading FactoryTalk ViewPoint software on page 20.

Important: The user installing FactoryTalk ViewPoint must have administrative rights in Windows. If you have problems, contact your System Administrator or try logging on as a different user.

Setup wizard installation

The Setup wizard installation process includes the following steps:

- Step 1: Launch the Setup wizard and select what to install on page 12
- Step 2: Read and accept license agreements on page 14
- Step 3: Start the installation on page 15
- Step 4: Finish the installation on page 15

1. Close all Windows programs.

2. Place the FactoryTalk ViewPoint installation DVD in the computer's DVD drive, or double click Setup.exe within the installation package.

   Tip: If the installation does not start automatically, double-click D:\Setup.exe, where D\ is the drive containing the DVD.

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. (Optional) On the **Welcome** page, select a language to be shown during the installation process. By default, your system language is selected.

5. To install all components available in the selected software using the recommended settings, click **Install now** and skip to **Step 2: Read and accept license agreements** on page 14.

6. To select which components to install, click **Customize**.

7. On the **Customize** page, select the components. There may be two options shown:
• **Mandatory** (grayed-out and selected check box) indicates software that will be automatically installed as part of the selected application.

• **Recommended** (selected check box) indicates software that Rockwell recommends for the application. You may decide to clear the check box so the software does not install.

• **Optional** (clear check box) indicates software that you may wish to include depending on your system. Select the box to include the software during installation.

8. Select the location for Rockwell Automation software. The default location is C:\.

9. Click **Install**.

**Step 2: Read and accept license agreements**

End user license agreements (EULA) spell out your rights and responsibilities. Depending on the components being installed, there may be more than one license agreement on this page. The individual license agreements are listed above the text box.

Some software products may be delivered or made available only after you agree to the terms and conditions of each of the license agreements.
1. On the **End User License Agreements** page, select each agreement and read the agreement carefully.

2. When all license agreements have been read, click **Accept All**.

   **Tip:** If you click **Decline**, you will return to the **FactoryTalk ViewPoint Setup** page.

**Step 3: Start the installation**

After accepting the license agreements, the Setup wizard automatically installs all the Rockwell Software applications selected previously. Installation is automatic and does not require any input.

**Step 4: Finish the installation**

After the FactoryTalk ViewPoint software finishes installing, you can activate the software now or later.

- To proceed directly to activate the installed software, select **Activate your software** and click **Next**.

  The **Software Activation** dialog box opens.

  a. In the **Serial number** box, enter the serial number.
b. In the **Product key** box, enter the product key.

c. Select the earliest version of FactoryTalk ViewPoint you will use.

d. Select **Activate locally** or **Activate using a dongle**.

e. Click **Continue**.

You will be prompted to restart the computer after the activation.

- To finish the installation without activation, select **Skip activation** and click **Next**.
  - To view the installation details, click **Installation Summary**.
  - To receive the latest product updates and patch notification, click **Register for updates and subscribe**.
  - To install the latest version of Adobe Acrobat Reader, click **Download it free** and follow the on-screen instructions.

```
That's it!

Once you restart your computer and activate the software, you are ready to run FactoryTalk ViewPoint.

Installation Summary

Want to know when there is an update?
Register for updates

Want to install Adobe Acrobat Reader?
Download it free
```

 Restart now  Restart later

Restart the computer to complete the installation. For continuous use of the installed software, you must activate the software using FactoryTalk Activation Manager.
Unattended installation

The unattended installation is an automated installation method that you can use to install FactoryTalk ViewPoint for Site Edition and FactoryTalk ViewPoint for Machine Edition. You can use the unattended installation during large-scale rollouts when it might be too slow and costly to have administrators or technicians interactively install the FactoryTalk ViewPoint software on individual computers.

In the unattended installation, you enter a specified command with multiple parameters. During the installation process, instead of prompting you for installation and configuration information interactively, the process follows the parameters you specified in the command lines.

Parameters

Use command-line parameters to perform an unattended or silent installation of the software.

Command-line parameters

The following table identifies the installation command-line parameters. Command-line parameters are case-insensitive. However, if a specified value includes a space, be sure to enclose the value in quotation marks (for example, "value with spaces").

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/?</td>
<td>Shows the usage options for installation parameters.</td>
</tr>
<tr>
<td>/Q</td>
<td>Silent Install. Install runs in a quiet mode without any user interface.</td>
</tr>
<tr>
<td></td>
<td>This parameter is recommended if you are deploying the software installation using an IT tool or script, and don’t expect to see any error or restart messages. When using this parameter, your IT tool or script should check the error codes, and respond as needed. For example, if the installation returns error code 1641, then the IT tool or script should restart the computer and relaunch the installation after restart. This parameter is required if /QS or /Record is not specified.</td>
</tr>
<tr>
<td>/QS</td>
<td>Unattended Install. Install runs in a quiet simple mode and shows progress through the UI. It does not accept any input, but still shows error or restart messages. When using this parameter, you will not have to check the error codes, and the installation will stop and show a prompt if there are error or restart messages. For example, if an immediate restart is required to complete the install, a restart message will be shown for you to confirm the restart. Installation resumes automatically from the point of interruption after restart. This parameter is required if /Q or /Record is not specified.</td>
</tr>
<tr>
<td>/IAcceptAllLicenseTerms</td>
<td>Acknowledges acceptance of the license terms and agreement to continue the installation. This parameter is required.</td>
</tr>
<tr>
<td>/AutoRestart</td>
<td>Automatically restarts the computer after the installation is complete. Used when a restart is required to complete the installation. This parameter is optional. If this parameter is not used, silent install (/Q) will return error code 1641 or 3010 if a restart is required, and unattended install (/QS) will result in a confirmation prompt that must be agreed to before the installation is completed.</td>
</tr>
</tbody>
</table>
### Parameter Description

/SetupLanguage="value"

Specifies which language will be shown during install process.
The value must be one of the following:
- ENU
- CHS
- DEU
- ESP
- FRA
- ITA
- JPN
- KOR
- PTB

This parameter is optional. If this parameter is not used, the default language is the current user or operating system user interface language.

/Record

Records the installation options chosen to a recording file.
This parameter is optional.

/Playback

Plays back a recording file to specify the installation options.
This parameter is optional.

/InstallDrive="value"

Specifies the installation drive.
This parameter is optional. If this parameter is not used, the default install drive is C:.

/SerialNumber="value"

Specifies the serial number of the software being installed. This is used to activate the software during installation.
This parameter is optional. If it is not specified the software must be activated manually after installation if activation is required.
Some software does not require activation. If activation is not required, this parameter is not available.

/ProductKey="value"

Specifies the product key used to get activation keys during installation.
This parameter is optional. If it is not specified, the software must be activated manually after installation if activation is required.
Some software does not require activation. If activation is not required, this parameter is not available.

/Version="value"

Specifies the version of the software to activate which corresponds to the product version associated with the SerialNumber and ProductKey.
This parameter is optional. If it is not specified, the installer will use the most recent product version available.
Some software does not require activation. If activation is not required, this parameter is not available.

### Error codes

The following table identifies the error codes that can be returned by an installation.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR_SUCCESS</td>
<td>0</td>
<td>Installation completed successfully.</td>
</tr>
<tr>
<td>ERROR_INVALID_PARAMETER</td>
<td>87</td>
<td>One parameters is invalid.</td>
</tr>
<tr>
<td>ERROR_INSTALL_USEREXIT</td>
<td>1602</td>
<td>Installation cancelled by user.</td>
</tr>
<tr>
<td>ERROR_INSTALL_FAILURE</td>
<td>1603</td>
<td>Fatal error during installation.</td>
</tr>
<tr>
<td>ERROR_BAD_CONFIGURATION</td>
<td>1610</td>
<td>Configuration data for product corrupt. Contact support personnel.</td>
</tr>
<tr>
<td>ERROR_REBOOT_CONTINUE</td>
<td>1641</td>
<td>Restart required to continue installation.</td>
</tr>
<tr>
<td>ERROR_SUCCESS_REBOOT_REQUIRED</td>
<td>3010</td>
<td>Restart required to complete installation. After restart, product is successfully installed.</td>
</tr>
</tbody>
</table>
## Get started with FactoryTalk ViewPoint

### Chapter 1

#### Error Code Table

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR_REBOOT_PENDING</td>
<td>3012</td>
<td>Restart pending. Restart computer for installation to continue.</td>
</tr>
</tbody>
</table>

#### Perform unattended installation

1. Close all Windows programs.

2. Open the **Command Prompt** window.

3. In the **Command Prompt** window, navigate to \D:\, where \D:\ is the drive containing the FactoryTalk ViewPoint installation DVD.

   In this example, type `D:` and press **Enter**.

   **Tip:** During the unattended installation, if **User Account Control** dialog box shows, click **Yes** to continue with the installation. You need administrator rights to complete the unattended installation.

4. Type a command with the following syntax:

   ```
   Setup {/Q | /QS} /IAcceptAllLicenseTerms [ /AutoRestart ] [ /SetupLanguage=language ] [ /Record ] [ /Playback ] [ /InstallDrive=drive ] [ /SerialNumber=serial_number ] [ /ProductKey=product_key ] [ /Version=product_version ]
   ```

5. Press **Enter**.

   The installation process starts with the parameters you specified. FactoryTalk ViewPoint for Site Edition and FactoryTalk ViewPoint for Machine Edition will be installed.

#### Examples

The following examples show how to use the installation commands.

- To install FactoryTalk ViewPoint using the default settings during the installation process. (Silent install)

  ```
  Setup.exe /Q /IAcceptAllLicenseTerms
  ```

- To install FactoryTalk ViewPoint version 10.00.00 on the D:\ drive and show the progress, error, or complete message during installation, and restart the computer if necessary. The language shown during installation is Chinese. (Unattended install)

  ```
  Setup.exe /QS /IAcceptAllLicenseTerms /AutoRestart /SetupLanguage=CHS /InstallDrive=D: /SerialNumber=12345ABCDE /ProductKey=ABCD2-34KDC /Version=10.00.00
  ```
The same versions of FactoryTalk software updates (also called patches) must be installed on all computers participating in a distributed, FactoryTalk control system.

Even if FactoryTalk ViewPoint is the only FactoryTalk software installed on a computer, you must also install any FactoryTalk updates installed on other computers in the system. To learn how to install software updates, see the Rockwell Automation Knowledgebase.

For the latest Product Updates and Patches, refer to Knowledgebase Answer IDs 748683 and 604248, respectively. To be notified when new Product Updates or Patches are released, click the Add to My Favorites link at the bottom of the Knowledgebase Answer.

To download software updates, firmware updates, or patch roll-ups, refer to the Product Compatibility and Download Center.

If you are installing FactoryTalk ViewPoint for Machine Edition, you will need to update the PanelView Plus terminal firmware using the Firmware Upgrade Wizard. The firmware containing FactoryTalk ViewPoint includes “with ViewPoint” in the name of the Firmware Upgrade Package. To install PanelView Plus terminal firmware, see PanelView Plus Terminals User Manual.

If you already have a version of FactoryTalk ViewPoint installed, to upgrade the software and to ensure that an existing web application is compatible with the new version, complete these tasks:

- Upgrade the FactoryTalk ViewPoint software.
- Upgrade the existing web application by republishing displays.

Before upgrading FactoryTalk ViewPoint software, you need upgrade FactoryTalk View. For example, upgrade FactoryTalk View to 10.00.00 before you can upgrade FactoryTalk ViewPoint to version 10.00.00.

To upgrade FactoryTalk ViewPoint software

1. Close all Windows programs.

2. Place the FactoryTalk ViewPoint installation DVD in the computer’s DVD drive or double-click Setup.exe within the installation package.

   **Tip:** If the DVD does not start automatically, run D:\Setup.exe, where D: is the drive containing the DVD.

3. In the FactoryTalk ViewPoint Setup dialog box:
• Click **Install** to upgrade **FactoryTalk ViewPoint for Site Edition** and **FactoryTalk ViewPoint for Machine Edition**.

• Click **Customize** to select **FactoryTalk ViewPoint for Site Edition** or **FactoryTalk ViewPoint for Machine Edition** to upgrade.

4. Follow the instructions to finish the installation. For more information about the installation, see **Setup wizard installation** on page 12.

5. After the installation of FactoryTalk ViewPoint, install any necessary product updates. For more information, see **Installing FactoryTalk ViewPoint software updates** on page 20.

If you want to upgrade both **FactoryTalk ViewPoint for Site Edition** and **FactoryTalk ViewPoint for Machine Edition**, you can also use the unattended installation method. For more information, see **Unattended installation** on page 17.

1. Connect to FactoryTalk ViewPoint Administration. For more information, see **Connecting to FactoryTalk ViewPoint Administration** on page 27.

2. On the **Home** page, click **Publish Displays to Web**.

3. Select the FactoryTalk View application type.

4. Select the FactoryTalk View application that corresponds with the existing web application, and then click **Select displays**.

5. All the displays that make up the web application are selected in the list of displays.

6. Make sure that the check box **Re-publish all selected displays** is selected, and click **Publish displays**.

1. Open FactoryTalk ViewPoint Administration. For more information, see **Creating a new Machine Edition web application** on page 36.

2. In the Home page, click **Publish Displays to Web**.

3. All the displays that make up the web application are selected in the list of displays.

4. Make sure that the check box **Re-publish all selected displays** is selected, and then click **Publish displays**.

If you are using Internet Explorer to connect to FactoryTalk ViewPoint Administration or to open published web applications, ensure that Internet Explorer is set up to:
• recognize FactoryTalk ViewPoint as a trusted site.
• check for new versions of stored pages with every visit to a page.
• work online.

Tip: To learn more about the effect of Internet Explorer security settings on FactoryTalk ViewPoint, see Answer ID 58985 in the Rockwell Automation Knowledgebase.

Adding FactoryTalk ViewPoint to the list of trusted sites

To add FactoryTalk ViewPoint to the list of trusted sites:

1. In Internet Explorer, from the **Tools** menu, select **Internet Options**.
2. On the **Security** tab, select **Trusted sites**, and then click **Sites**.
3. In the **Trusted sites** dialog box, clear the check box, **Require server verification (https:) for all sites in this zone**.
4. Type the following web address, and then click **Add**.

   \[http://ComputerName/FTVP\]

   where \(ComputerName\) is the name or IP address of the FactoryTalk ViewPoint server computer.

Checking for new versions with every visit to a page

To set up Internet Explorer to check for new versions of stored pages with every visit:

1. In Internet Explorer 11.0, on the **Tools** menu, click **Internet Options**.
2. In Internet Explorer 11.0, on the **General** tab under **Browsing history**, click **Settings**.
3. Under **Check for newer versions of stored pages**, click **Every time I visit the webpage**.

Working online

To ensure that Internet Explorer is working online, select the **File** or **Tools** menu (depending on your version of Internet Explorer). If there is a check mark beside **Work Offline**, clear the check mark by clicking **Work Offline**.
Chapter 2

Setting up Site Edition (SE) web applications

This chapter describes:

- how FactoryTalk ViewPoint works in a Site Edition environment.
- how to set up the FactoryTalk ViewPoint Server to provide activation.
- how to create a new Site Edition web application.
- how to connect to an existing Site Edition web application.

A FactoryTalk ViewPoint for Site Edition application is a set of graphic displays selected from an existing FactoryTalk View Site Edition application, converted for viewing on the web, and published to a FactoryTalk ViewPoint Server (also called the web server).

About the FactoryTalk ViewPoint for Site Edition environment

The FactoryTalk ViewPoint Server web application can be installed on any computer participating in a FactoryTalk View SE network application, or on the computer hosting a local application.

In the previous illustration, the FactoryTalk ViewPoint Server in a network application is installed and running on the same computer as the FactoryTalk View SE Server.
The role of the FactoryTalk ViewPoint Server

FactoryTalk ViewPoint for Site Edition setup program installs the FactoryTalk ViewPoint Server and FactoryTalk ViewPoint Administration software on the computer.

The FactoryTalk ViewPoint Server hosts the currently published web application and provides ViewPoint client licenses to web browsers that connect to the application.

To set up FactoryTalk ViewPoint activation and security, and to create a web application, you can connect to FactoryTalk ViewPoint Administration from any supported web browser. To learn how, see the next section, "Setting up FactoryTalk ViewPoint Site Edition activation on page 24."

To learn how to install FactoryTalk ViewPoint for Site Edition, see "Installing FactoryTalk ViewPoint on page 12."

Web browsers connecting to a published web application obtain client access licenses from the FactoryTalk ViewPoint Server.

Each web browser requires a separate client license, unless browsers are connecting to the same web application from the same computer. In that case, up to three browsers (or three tabs, in browsers that support tabs) can share a single license.

When a browser disconnects or, if FactoryTalk ViewPoint security is enabled, when the user logs off from the web application, all licenses that were held by the current user are released for other browsers to use.

To set up the FactoryTalk ViewPoint Server to provide licenses to connecting web browsers, perform these tasks:

- Download the FactoryTalk ViewPoint licenses you purchased to a FactoryTalk Activation server.
- If the activation server and the FactoryTalk ViewPoint Server are on different computers, use FactoryTalk Activation Manager on the FactoryTalk ViewPoint Server to specify the name of the activation server computer.
- Assign FactoryTalk ViewPoint licenses to the FactoryTalk ViewPoint Server.
To get activations for an activation server:

1. On the activation server computer, click Start > All Programs > Rockwell Software > FactoryTalk Activation > FactoryTalk Activation Manager.

2. Click Get New Activations.

3. Follow the instructions displayed within FactoryTalk Activation Manager to get activations.

To assign licenses to the FactoryTalk ViewPoint Server:

1. Connect to FactoryTalk ViewPoint Administration. To learn how, see page 24 on page 27.
2. On the Activation page, in the field **Number of licenses to assign** (shown in the next illustration), type the number of licenses needed, and then click **Apply**.

---

**What happens if the activation server is unavailable?**

If the FactoryTalk Activation server is unavailable or unable to provide FactoryTalk ViewPoint licenses, the FactoryTalk ViewPoint Server will provide three temporary licenses to connecting web browsers, for up to seven days.

To resume normal operations, before the seven-day grace period expires, ensure that the activation server can provide the necessary licenses.

After the grace period expires, as soon as you restart the FactoryTalk ViewPoint Server, no web browsers will be able to view the published web application.

**Creating a new Site Edition (SE) web application**

After installing the FactoryTalk ViewPoint software, to create a new Site Edition web application, connect to FactoryTalk ViewPoint Administration, and then perform these tasks:

- Select a FactoryTalk View SE application.
- Select graphic displays from the FactoryTalk View SE application.
• Publish the displays to the FactoryTalk ViewPoint Server.

Note: Only one web browser can connect to FactoryTalk ViewPoint Administration on a given FactoryTalk ViewPoint Server.

Connecting to FactoryTalk ViewPoint Administration

To connect to FactoryTalk ViewPoint Administration

1. Open a web browser.

2. In the browser’s Address bar, enter the following URL, replacing computer_name_or_ip_address with the hostname or IP address of the FactoryTalk ViewPoint server:

   http://computer_name_or_ip_address/FTVP/Admin

   If the site has an HTTPS binding, enter https instead of http.

   For secure communications, HTTPS binding is recommended. For the instructions about how to create an HTTPS binding, see FactoryTalk ViewPoint Help.

3. (Optional) If Administration has security enabled:
   a. Enter a username and password.
   b. (Optional) Select Remember me on this computer to save the login details until the account is logged off, the password expires, or the account is disabled.
   c. Click Log on.

Creating a new Site Edition web application
To create a new Site Edition web application

1. In FactoryTalk ViewPoint Administration, on the **Home** page, click **Publish displays to Web.**

2. On the **Publish Displays to Web** page, finish the first step, **1 Select an application** (shown in the illustration). For the application type, choose from the following.

   - **Site Edition (Network Distributed)** to select an application from the FactoryTalk Network Directory that the FactoryTalk ViewPoint Server computer is connected to. The Network Directory could be on the same computer as the FactoryTalk ViewPoint server or on another computer.
   - **Site Edition (Network Station)** to select an application from the FactoryTalk Network Directory that the FactoryTalk ViewPoint Server computer is connected to and that is hosted on the FactoryTalk ViewPoint computer.
   - **Site Edition (Local)** to select an application from the FactoryTalk Local Directory on the computer running the FactoryTalk ViewPoint Server.

3. To select the graphic displays to publish, click **2 Select displays.**

4. To begin the publishing process, click **3 Publish displays.**
5. After publishing is finished, to open the newly published web application, click **Open Web application**.

6. The initial display (or displays, if specified in a startup macro) selected for the application should open in the web browser.

   **Tip:** You can set up security for FactoryTalk ViewPoint Administration or for a published SE web application. To learn how, see the FactoryTalk ViewPoint Help.

---

### Connecting to an existing Site Edition web application

FactoryTalk ViewPoint for Site Edition provides two ways to view a SE web application: the desktop interface and the mobile interface. The desktop interface presents navigation and status information as defined in the original application in a format suitable for a high resolution computer screen. The mobile interface is designed for viewing displays on mobile phones and tablets. The mobile interface automatically scales itself and the active display to the size of your device.

FactoryTalk ViewPoint for Site Edition servers require one FactoryTalk ViewPoint license per connected session where each session can view up to three displays in browser windows or tabs. If all available licenses are in use, FactoryTalk ViewPoint shows the error, "**There are no licenses currently available for the Web browser to use.**"

If the web application has security enabled and **Remember me on this computer** is selected, FactoryTalk ViewPoint automatically logs in using the most recently entered username and password. To prevent unauthorized access to the FactoryTalk ViewPoint server, do not select this option on shared or public computers.

**To connect to an existing Site Edition web application**

1. Start a web browser.

2. In the browser’s **Address** bar, enter the desktop or mobile URL, replacing `computer_name_or_ip_address` with the hostname or IP address of the FactoryTalk ViewPoint server:

   - (desktop) `http://computer_name_or_ip_address/FTVP`
   - (mobile) `http://computer_name_or_ip_address/FTVP/m`

   If the site has an HTTPS binding, enter `https` instead of `http`. 

---

**Note:** The language used in the FactoryTalk ViewPoint web application is determined by the default language of the FactoryTalk View application. This is independent from the 'initial' (startup) language or from the languages included in the application contents. Language switching is not supported in FactoryTalk ViewPoint. To change the language of the FactoryTalk ViewPoint application, change the default language in FactoryTalk View Studio, then publish the application in FactoryTalk ViewPoint Administration again.
For secure communications, HTTPS binding is recommended. For the instructions about how to create an HTTPS binding, see FactoryTalk ViewPoint Help.

3. (Optional) If the web application has security enabled:
   - Enter a username and password.
   - (Optional) Select **Remember me on this computer** to save the login details until the account is logged off, the password expires, or the account is disabled.
   - Click **Log on**.

**FactoryTalk ViewPoint commands with tags**

FactoryTalk ViewPoint supports the following FactoryTalk View SE commands:
- Abort
- Display
- = (Equal)
- Macro Name (the actual macro name and not the word macro)
- Ramp
- RecipeProDownload
- Set
- Toggle

For more information about each command, see FactoryTalk View SE Help.

**Tip:**
- Macros still follow the supported FactoryTalk ViewPoint commands.
- All other commands will be ignored if they are included in a macro or specified as the press or release action for a button or for touch animation.
- FactoryTalk ViewPoint does not execute StartUp/ShutDown commands configured in **Display Settings**. It also does not support runtime security macros or command execution from FactoryTalk Alarms and Events summary objects.

**How these commands are supported**

FactoryTalk ViewPoint supports commands using press and release actions through a button or through touch animation. The following controls support touch animation press and release actions:

- **Arc**
- **Rectangle**
- **Ellipse**
- **Rounded Rectangle**
- **Freehand**
- **String Display & Input**
- **Line**
- **Symbol Factories**
How FactoryTalk ViewPoint processes commands

All commands that perform updates are processed before any display navigation occurs. FactoryTalk ViewPoint processes commands in the following order:

1. First pass (each step must complete before its matching second step)
   a. Download parameter file
   b. Download macro file
   c. Request display information
2. Second Pass (each step must complete before processing commands)
   a. Parameter file substitution
   b. Macro command creation (commands get pushed onto the existing command queue)
   c. Verify display(s) are not missing or are authorized to view.
3. Process commands (Set, Toggle, Ramp, =)
4. Process abort displays
5. Process replace displays
6. Either re-navigate to a new replace display or show all new popup displays.

Example

In the following example, if the button press action is "Set Tag 2; Display Display1; Ramp Tag1 12" FactoryTalk ViewPoint does the following:

1. Processes the Set and Ramp commands before navigating to Display1.
2. If the display does not exist, FactoryTalk ViewPoint still sends the commands to the command sub-system.

How FactoryTalk ViewPoint processes the Abort and Display commands

FactoryTalk ViewPoint groups all writable commands into one command sequence and sends the command sequence to the command subsystem before it processes Display or Abort commands.
Example

In the following example, if the press action is "Ramp Tag +4; Display PlantFloor; Toggle Tag2" FactoryTalk ViewPoint does the following:

1. Sends the command string "Ramp Tag +4; Toggle Tag2" to the command subsystem.
2. Waits for the subsystem to verify it received the command.
3. Verifies the display exists and that it is authorized for viewing.
4. Continues processing the Display command.

Note: When processing a Press and Release action for the same button or touch animation, there may be instances when the release action may not get processed. FactoryTalk ViewPoint may miss the mouse up event while it processes the press action because the client blocks user interface interactions while it is sending commands to the command sub-system.

FactoryTalk ViewPoint Site Edition text fonts

Fonts not available on your client computer will be replaced with Arial in the web application. Replaced fonts may cause unexpected text wrapping in objects in the published web application.

Learning more about FactoryTalk ViewPoint for Site Edition

For additional information about FactoryTalk ViewPoint, assistance with a specific task, or troubleshooting tips, open the FactoryTalk ViewPoint Help.

You can gain access to the Help from FactoryTalk ViewPoint Administration pages and from the run-time web client.

Getting help related to an Administration task

In FactoryTalk ViewPoint Administration, click the Learn about link at the bottom left of the page.

Opening the Help while viewing an SE web application

When viewing the web application from the desktop interface:

- On the FactoryTalk ViewPoint banner at the top of the web browser window, click Help.

When viewing the web application from the mobile interface:

- Open the Menu, then select the Help icon.
Browsing the Help contents

To browse the Help contents, use any of these methods:

- On any page, click sections and topics in the Contents pane.
- Click the breadcrumb links displayed above the currently open Help topic.
- Enter keywords in the Search field.
- Use the Forward, Back, and History features of your web browser.
Chapter 3

Setting up Machine Edition (ME) web applications

This chapter describes:

- how to create a new Machine Edition web application.
- how to connect to an existing Machine Edition web application.

A FactoryTalk ViewPoint for Machine Edition web application is a set of graphic displays selected from an existing FactoryTalk View Machine Edition application, converted for viewing on the web, and published to a supported PanelView Plus operator terminals.

About the FactoryTalk ViewPoint for Machine Edition environment

As shown in the previous illustration, the FactoryTalk ViewPoint Server software for a Machine Edition web application is installed on a PanelView Plus or PanelView Plus 6 operator terminal. New operator terminals contain the firmware with FactoryTalk ViewPoint included. Operator terminals that contain earlier versions of firmware without FactoryTalk ViewPoint installed can be updated by upgrading the firmware on the terminal. For more information on upgrading PanelView Plus firmware, see the PanelView Plus Terminals User Manual, Chapter 8, "Upgrade Firmware".

Only one web browser at a time can connect to a ME web application on a PanelView Plus terminal.

Publish displays, and then include ViewPoint content in ME runtime.

Transfer .MER to the operator terminal.

ViewPoint Server on the operator terminal serves displays to web browsers.

FactoryTalk ViewME Studio with FactoryTalk ViewPoint Administration

FactoryTalk ViewPoint Server on PanelView Plus 700 - 1500
The FactoryTalk ViewPoint Administration software, used to convert displays and set up security, is installed as part of FactoryTalk ViewPoint for Machine Edition on the FactoryTalk View Studio computer.

To learn how to convert displays and then include them in the Machine Edition runtime web application that will be downloaded to the operator terminal, see the next section, "Creating a new Machine Edition web application on page 36".

To learn how to set up security, click Help.

To learn how to install FactoryTalk ViewPoint for Machine Edition, see "Installing FactoryTalk ViewPoint on page 12".

Creating a new Machine Edition web application

1. In FactoryTalk View Studio, open the FactoryTalk View Machine Edition application that contains the displays you want to convert for the web.

2. Click Application > ViewPoint Administration to open FactoryTalk ViewPoint Administration.

3. In FactoryTalk ViewPoint Administration, click Publish Displays to Web, and then select and publish the displays.

4. Create the Machine Edition runtime application, and include FactoryTalk ViewPoint content.
a. In FactoryTalk View Studio click Application > Create Runtime Application to create a run-time file (.MER). Select the Include ViewPoint Content check box located below the Type list. The check box is selected by default. The run-time file will provide the FactoryTalk View Machine Edition application and the published displays to the PanelView Plus or PanelView Plus Pro operator terminal.

b. In Save as type, select the runtime version compatible with the firmware version of the targeted operator terminal.

c. Click Save.

**Note:** FactoryTalk ViewPoint Administration for Machine Edition can generate FactoryTalk ViewPoint content for previous versions of FactoryTalk View Machine Edition. During the run-time application (.MER file) creation process, the published FactoryTalk ViewPoint content is converted to the version selected and included with the MER. In addition, the FactoryTalk ViewPoint server (which is a part of the operator terminal firmware) is also able to process and serve earlier versions of FactoryTalk ViewPoint content to the client (browser). This scenario could occur when a MER file created with FactoryTalk View Machine Edition 5.10 contains FactoryTalk ViewPoint 1.2 content and is loaded and run on a PanelView Plus 6 operator terminal.

d. In the Create Runtime Application Wizard - Select Languages dialog box, select all the languages to include in the runtime application, select the initial language to use, and then click Finish. The runtime file is created, which may take some time.

**Note:** The language used in the FactoryTalk ViewPoint web application is determined by the default language of the FactoryTalk View application. This is independent from the 'initial' (startup) language for the operator terminal application, and independent from the languages included in the operator terminal application contents. Language switching is not supported in FactoryTalk ViewPoint. To change the language of the FactoryTalk ViewPoint application, change the default language in FactoryTalk View Studio, publish the application in FactoryTalk ViewPoint Administration, then download the runtime file to the PanelView Plus or PanelView Plus Pro operator terminal.

5. Download the Machine Edition run-time application (.MER) to the PanelView Plus operator terminal that will host the web application.

a. In FactoryTalk View Studio, click the File Transfer Utility button on the toolbar.

b. In the Source file field, use the browse button (…) to select the run-time file that was just created.

c. In Select destination terminal, browse for the PanelView Plus terminal and then click Download.
d. Once the download completes, click OK and close the Transfer Utility window.

6. On your PanelView Plus or PanelView Plus Pro operator terminal, in the FactoryTalk View Machine Edition Station configuration screen, click Load Application and then select the run-time (.mer) file you downloaded. Click Load.

7. Click Run Application to start the project. For more information on loading and running an application, see the Panel View Plus Terminal's User Manual. The FactoryTalk ViewPoint client About menu contains information about the application version of ViewPoint content within a .MER file.

To learn more about creating and securing access to a Machine Edition web application, see the FactoryTalk ViewPoint Help.

Connecting to an existing Machine Edition web application

Connect to a web application to view displays containing information about your plant or process.

FactoryTalk ViewPoint for Machine Edition is limited to one connected session with one web browser window or tab. If all available licenses are in use, FactoryTalk ViewPoint shows the error, "There are no licenses currently available for the Web browser to use."

To connect to an existing Machine Edition web application

1. Start a web browser.

2. In the browser’s Address bar, enter the following URL, replacing computer_name_or_ip_address with the hostname or IP address of the PanelView Plus operator terminal:

   http://computer_name_or_ip_address/FTVP

   If the site has an HTTPS binding, enter https instead of http.

   For secure communications, HTTPS binding is recommended. For the instructions about how to create an HTTPS binding, see FactoryTalk ViewPoint Help.

3. (Optional) If the web application has security enabled:
• Enter a username and password.
• Click Log on.

**FactoryTalk ViewPoint Machine Edition text fonts**
Fonts not available on your client computer will be replaced with Arial in the web application. Replaced fonts may cause unexpected text wrapping in objects in the published web application.

**Learning more about FactoryTalk ViewPoint for Machine Edition**
For additional information about FactoryTalk ViewPoint, assistance with a specific task, or troubleshooting tips, open the FactoryTalk ViewPoint Help.

You can access Help from the FactoryTalk ViewPoint Administration tool that is installed on the FactoryTalk View Studio computer.

**Getting help related to an Administration task**
In FactoryTalk ViewPoint Administration, click the Learn about link at the bottom left of the page.

**Browsing the Help contents**
To browse the Help contents, use any of these methods:
• On any page, click sections and topics in the Contents pane.
• Click the breadcrumb links displayed above the currently open Help topic.
• Enter keywords in the Search field.
• Use the Forward, Back, and History features of your web browser.
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**Environmental compliance**


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Online Support — http://www.rockwellautomation.com/support/
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Rockwell Automation support

Rockwell Automation provides technical information on the web to assist you in using its products. At http://www.rockwellautomation.com/support you can find technical and application notes, sample code, and links to software service packs. You can also visit our Support Center at https://rockwellautomation.custhelp.com for software updates, support chats and forums, technical information, FAQs, and to sign up for product notification updates.

In addition, we offer multiple support programs for installation, configuration, and troubleshooting. For more information, contact your local distributor or Rockwell Automation representative, or visit http://www.rockwellautomation.com/services/online-phone.

Installation assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

<table>
<thead>
<tr>
<th>United States or Canada</th>
<th>1.440.646.3434</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside United States or Canada</td>
<td>Use the Worldwide Locator available at <a href="http://www.rockwellautomation.com/locations">http://www.rockwellautomation.com/locations</a>, or contact your local Rockwell Automation representative.</td>
</tr>
</tbody>
</table>

New product satisfaction return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

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<thead>
<tr>
<th>United States</th>
<th>Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.</th>
</tr>
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<tbody>
<tr>
<td>Outside United States</td>
<td>Please contact your local Rockwell Automation representative for the return procedure.</td>
</tr>
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