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.

⚠	**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).

Chapter 1

Getting started with FactoryTalk ViewPoint

Chapter 2

Setting up Site Edition (SE) web applications

Chapter 3

Setting up Machine Edition (ME) web applications

Legal Notices
Index

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 system requirements

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® 9.2.1
- iPad Air® 1 with IOS 9.2
- iPad Air 2 IOS 10.0.1
- iPad Air 2 IOS 10.1.1
- Samsung Galaxy Tab® S with Android 5.0.2
- Nexus™ 7 with Android 6.0.1
- Surface® Pro 3 with Windows 10
- Samsung Galaxy Note® 3 with Android 5.0
- Samsung Galaxy Note 4 with Android 5.1.1
- Samsung Galaxy Note 5 with Android 6.0.1
- iPhone 6 Plus with IOS 9.3.1
- iPhone 6S Plus with IOS 10.0.1
- iPhone 6S Plus with IOS 10.1.1

Software requirements

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

    * For more information about the Windows 10 operating system support, see [Answer ID 964391](#)   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 9.00.00 or later.

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

- FactoryTalk Services Platform version 2.90.00

- FactoryTalk Alarms and Events version 2.90.00

- FactoryTalk Activation Manager version 4.00.02

- FactoryTalk View Site Edition Client version 9.00.00

- Internet Information Services

- Microsoft .NET Framework 4.6

Desktop web browsers

FactoryTalk ViewPoint has been tested with the following desktop web browsers:

- Microsoft Edge™

- Internet Explorer® 11.0

- Google® Chrome™ browser 50.0 or later

Mobile browsers

FactoryTalk ViewPoint has been tested with the following mobile browsers:

- Google Chrome browser

- Apple® Safari®

- Internet Explorer

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® 9.2.1
- iPad Air® 1 with IOS 9.2
- iPad Air 2 IOS 10.0.1
- iPad Air 2 IOS 10.1.1
- Samsung Galaxy Tab® S with Android 5.0.2
- Nexus™ 7 with Android 6.0.1
- Surface® Pro 3 with Windows 10
- Samsung Galaxy Note® 3 with Android 5.0
- Samsung Galaxy Note 4 with Android 5.1.1
- Samsung Galaxy Note 5 with Android 6.0.1
- iPhone 6 Plus with IOS 9.3.1

- iPhone 6S Plus with IOS 10.0.1

- iPhone 6S Plus with IOS 10.1.1

Software requirements

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

* For more information about the Windows 10 operating system support, see Answer ID 964391   in the 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 9.00.00 or later.

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

- FactoryTalk Services Platform version 2.90.00

- FactoryTalk Activation Manager version 4.00.02

- Microsoft .NET Framework 4.6

Desktop web browsers

FactoryTalk ViewPoint has been tested with the following desktop web browsers:

- Microsoft Edge™
- Internet Explorer® 11.0
- Google® Chrome™ browser 50.0 or later

Mobile browsers

FactoryTalk ViewPoint has been tested with the following mobile browsers:

- Google Chrome browser
- Apple® Safari®
- Internet Explorer

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

FactoryTalk View Machine Edition can create Machine Edition Runtime applications (.mer) that run on PanelView Plus graphic terminals. The PanelView Plus firmware must support the .mer file to host FactoryTalk ViewPoint content.

PanelView Plus Terminal Firmware Version	Machine Edition Runtime Version	FactoryTalk ViewPoint Content (contained in .mer)
9.00-2016mmdd or later	9.00	9.00
8.20-2016mmdd or later	8.20	8.20
8.10-2015mmdd or later	8.10	8.10
8.00-2014mmdd or later	8.00	8.00
7.00-2012mmdd or later	7.00	2.60
6.1-2011mmdd or later	6.10	2.10
6.0-20110425 or later	6.00	1.20 or 2.00
5.10.01 or later	5.10	1.10

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 and unattended 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 .

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

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**.
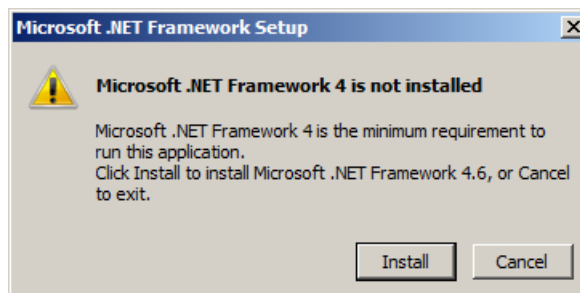
4. (Optional) On the **Welcome** page, select a language to be shown during the installation process. By default, your system language is selected.
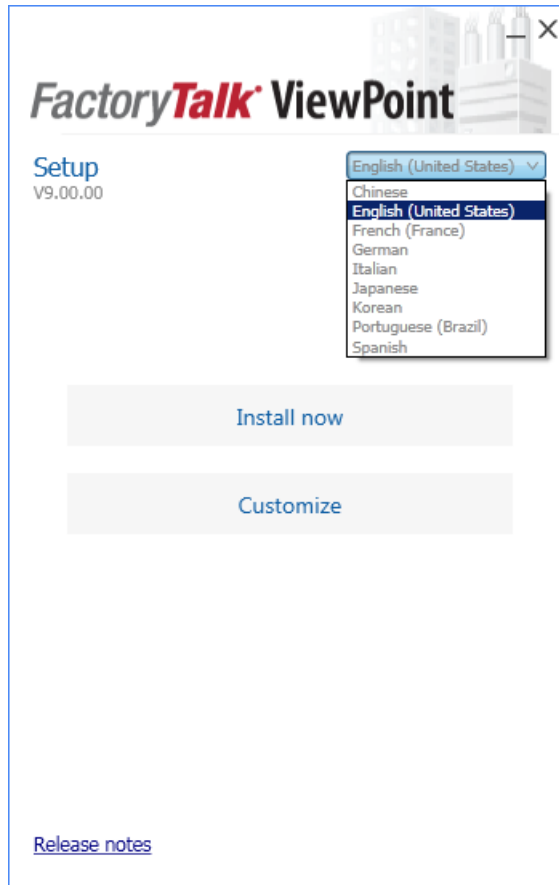
5. To install all components available in the selected software using the recommended settings, click **Install now** and skip to .

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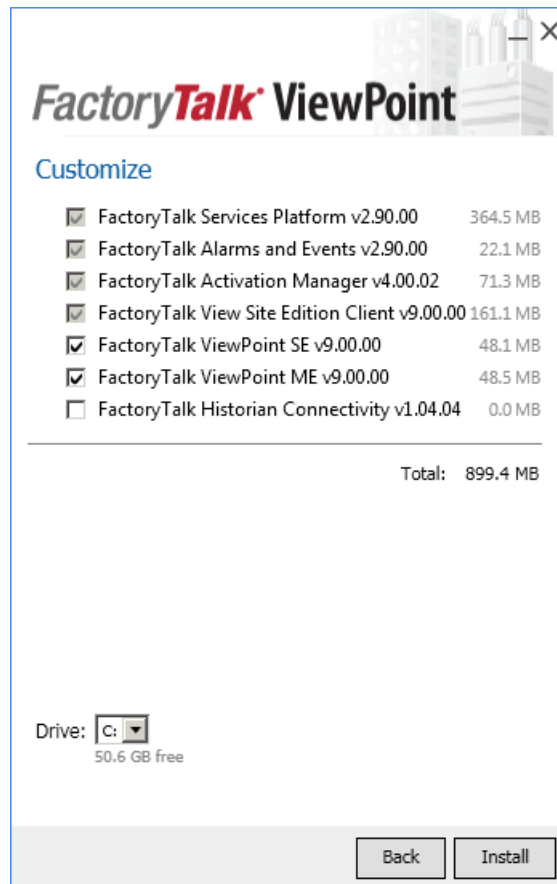
8. Select the location for Rockwell Automation software. The default location is **C:**.

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.
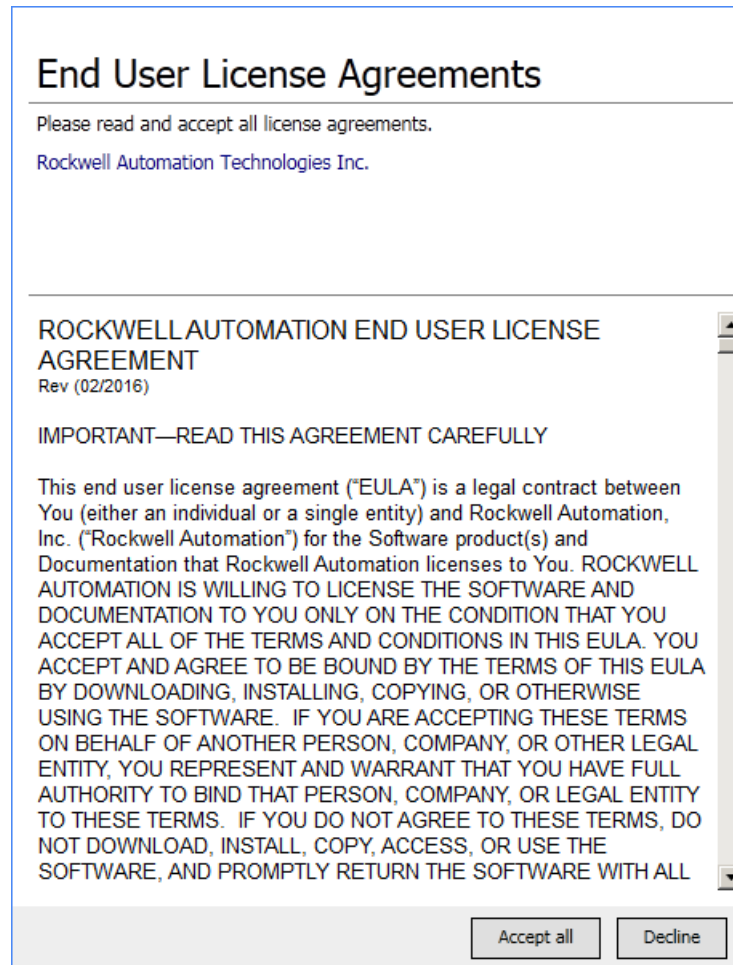
1. On the **End User License Agreements** page, select each agreement and read the agreement carefully.

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.
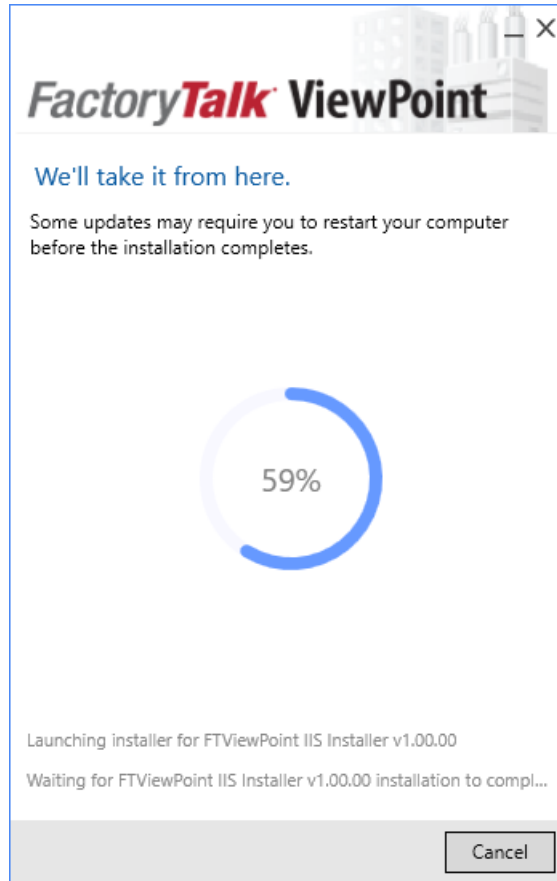
Step 4: Finish the installation

After the FactoryTalk ViewPoint software finishes installing, you can activate the software now or later.
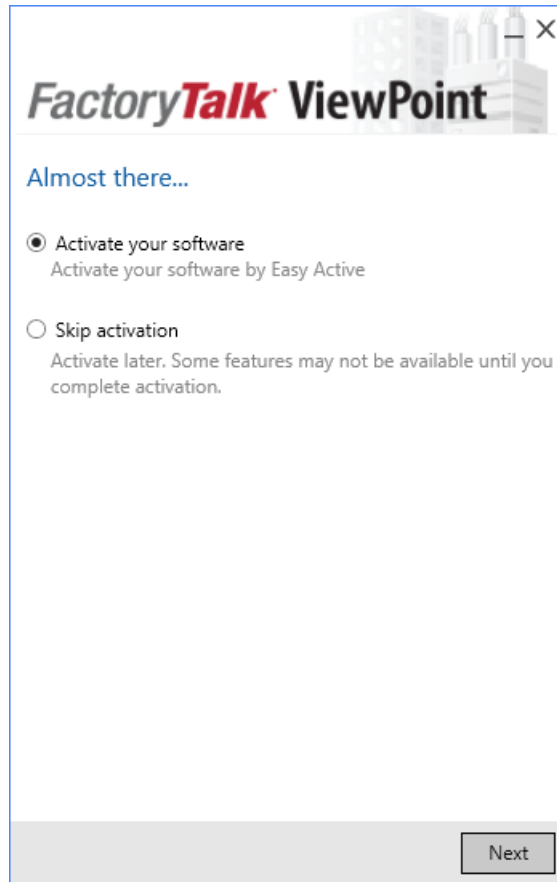
- To proceed directly to activate the installed software, select **Activate your software** and click **Next**.

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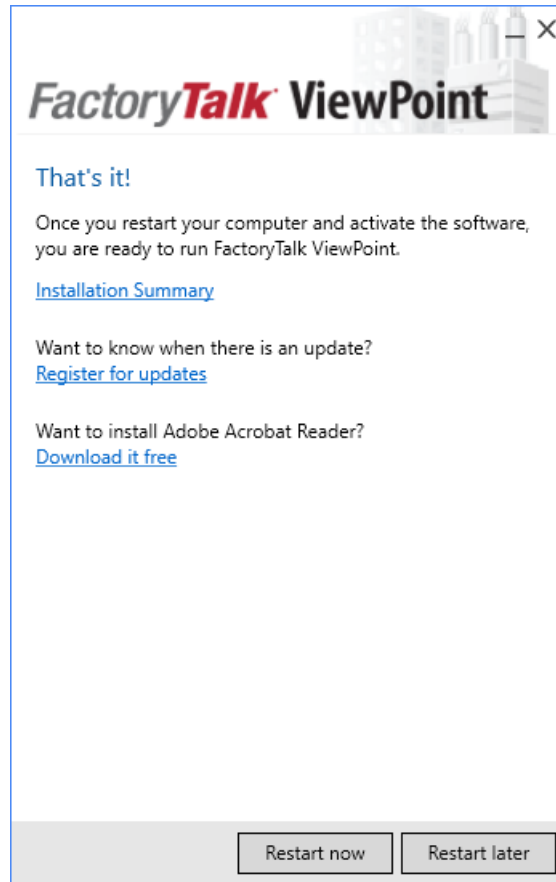
Restart the computer to complete the installation. For continuous use of the installed software, you must activate the software using FactoryTalk Activation Manager.

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 line 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.

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]
    [/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.

For detailed description about each parameter, see Parameters. You can also type **Setup /?** in the **Command Prompt** window and press **Enter** to view the help information of all parameters and examples.

Parameters

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

Parameters	Descriptions
/Q	• Installs the product in the silent mode without any user interface. • If */QS* is not specified, this parameter is required.
/QS	• Installs the product in the unattended mode without user interaction during installation, and shows the progress, errors, or complete messages on the user interface. • If */Q* is not specified, this parameter is required.

/IAcceptAllLicenseTerms	• Specifies that you read and acknowledged all license agreements, and agree to continue the installation.
	• This parameter is required.
/AutoRestart	• If a restart is required to complete the installation and this parameter is specified, the computer will be restarted automatically after the installation.
	• If a restart is not required, this parameter will be ignored.
	• This parameter is optional.
/SetupLanguage=*language*	• Specifies which language will be shown during the installation process. The value must be one of ENU, CHS, DEU, ESP, FRA, ITA, JPN, KOR, or PTB.
	• If this parameter is omitted or if the specified language is not available, the default language will be the user or system user interface language.
	• This parameter is optional.
/InstallDrive=*drive*	• Specifies the installation drive.
	• If omitted, the default drive is **C:**.
	• This parameter is optional.
/SerialNumber=*serial_number*	• Specifies the serial number that is required if you want to get activation keys during installation.
	• If your installation package is Personalized Edition, this parameter will be ignored.
	• This parameter is optional.
/ProductKey=*product_key*	• Specifies the product key.
	• If your installation package is Personalized Edition, this parameter will be ignored.
	• If you want to get activation keys during installation, this parameter is required.
/Version=*product_version*	• Specifies the version corresponding to the product version that the *SerialNumber* and *ProductKey* are able to activate if you want to get activation keys during the installation.
	• If omitted, the installer uses a default version which is the most recent product version available when retrieving the activation.
	• This parameter is optional.

Examples

The following examples show how to use the commands to install FactoryTalk ViewPoint for Site Edition and FactoryTalk ViewPoint for Machine Edition during the unattended installation.

Example 1

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

means:

- During the installation process, the installation uses the default settings and skip the activation.

Example 2

```
Setup.exe /QS /IAcceptAllLicenseTerms /AutoRestart
/SetupLanguage=CHS /SerialNumber=12345ABCDE
/ProductKey=ABCD2-34KDC /Version=1.00
```

means:

- During the installation, the shown language is Chinese.

- The setup will get the activation key version 1.00 during the installation if the serial number *12345ABCDE* and product key *ABCD2-34KDC* are valid.

- If a restart is required, the computer will be restarted automatically.

Installing FactoryTalk ViewPoint software updates

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 .

Installing PanelView Plus firmware

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*.

Upgrading FactoryTalk ViewPoint software

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.

Upgrade FactoryTalk ViewPoint software

Before upgrading FactoryTalk ViewPoint software, you need upgrade FactoryTalk View. For example, upgrade FactoryTalk View to 9.00.00 before you can upgrade FactoryTalk ViewPoint to version 9.00.00.

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 21.

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 18.

Upgrade existing FactoryTalk ViewPoint for Site Edition web applications by republishing displays

1. Connect to FactoryTalk ViewPoint Administration. For more information, see Connecting to FactoryTalk ViewPoint Administration on page 29.

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**.

Upgrade existing FactoryTalk ViewPoint for Machine Edition web applications by republishing displays

1. Open FactoryTalk ViewPoint Administration. For more information, see Creating a new Machine Edition web application on page 38 .

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**.

Setting up web client computers

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**.

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.

About the FactoryTalk ViewPoint for Site Edition environment

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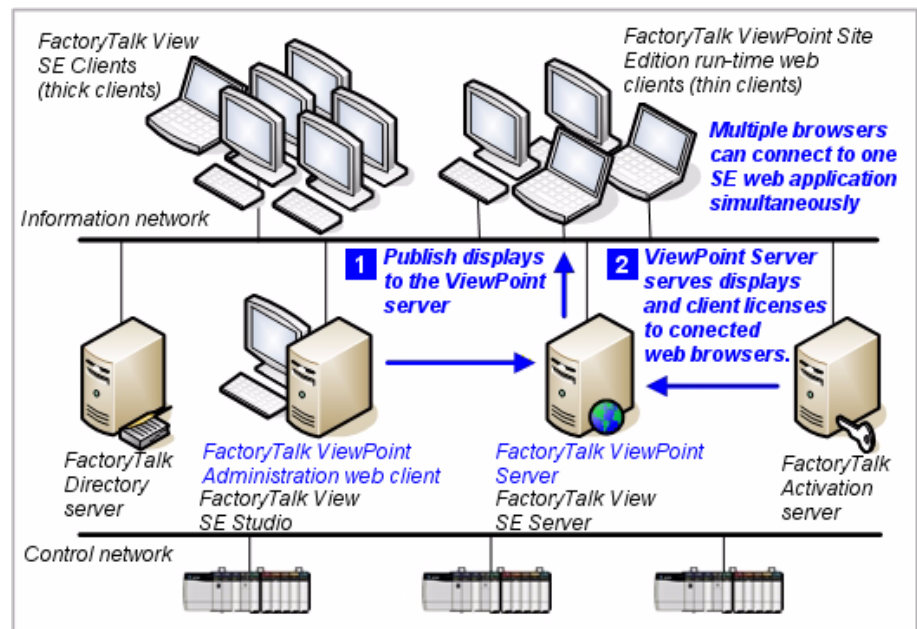
The FactoryTalk ViewPoint Server web application can be installed on any computer participating in a FactoryTalk View SE network application, or on the computer hosting a local application.

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.

| Important: | A web application will not display data if HMI servers, data servers, or alarm servers in the corresponding FactoryTalk View SE application are unavailable or not running. |
| | To ensure that an HMI server is running in a distributed application, in FactoryTalk View Studio, open the server's **Properties** dialog box and set the startup type to **Load and run startup components when operating system initializes**. For details, click **Help**. |

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 26."

To learn how to install FactoryTalk ViewPoint for Site Edition, see "Installing FactoryTalk ViewPoint on page 11."

Setting up FactoryTalk ViewPoint Site Edition activation

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.

Downloading licenses to an activation 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.

Connecting the ViewPoint Server to a remote activation server

1. On the FactoryTalk ViewPoint Server computer, open FactoryTalk Activation Manager, and then click the **Manage Activations** tab.

2. Click **Find Available Activations** in the left pane.

3. Click the blue underlined text **Update Activation Search Path**.

4. Click **Add Server** to add an additional row.

5. Click the browse button in the newly added row.

6. From the **Browse for Server** dialog, navigate to the location of the activation server on your network and select it.

7. Click **Save**.

   > **Note:** If you make a change that affects the local folders in the search path, the software displays the **Update Activation Search Path** dialog box. Click **Restart Server**.

   In FactoryTalk ViewPoint Administration, the next time the Activation page is opened or refreshed, the number of FactoryTalk ViewPoint licenses that the specified server can provide is displayed, as shown below in "Assigning licenses to the ViewPoint Server."

For comprehensive information about FactoryTalk Activation services, on the FactoryTalk ViewPoint Server computer, click **Start** > **All Programs** > **Rockwell Software** > **FactoryTalk Activation** > **FactoryTalk Activation Manager**, and then click **Help**.

Assigning licenses to the FactoryTalk ViewPoint Server

1. Connect to FactoryTalk ViewPoint Administration. To learn how, see on .

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**.

These fields indicate how many ViewPoint licenses the activation server can provide.

FactoryTalk Activation

Total number of ViewPoint licenses: 1000

Number of available ViewPoint licenses: 999

This field indicates how many browsers are connected to the ViewPoint server.

To assign more or fewer licenses to the server, type the desired number, and then click Apply.

FactoryTalk ViewPoint Server

Number of licenses in use: 0

Number of licenses to assign: [1]   [Apply]

Type the number of licenses you want this FactoryTalk ViewPoint Server to have, and then click Apply.

'1' licenses are currently assigned.

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:

    - 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**.

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**.

> **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.

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*.

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**.

Support for FactoryTalk View SE commands

FactoryTalk ViewPoint for Site Edition supports the Abort, Display, = (Equal), Macro, Ramp, Set, and Toggle commands. To open and close displays in a web application, you can use objects set up to issue these commands. You can also include these commands in a macro, and then select the macro to run when the web application starts up.

For more information on support for FactoryTalk View SE features, see the FactoryTalk ViewPoint Help. To learn how to gain access to the Help, see "Learning more about FactoryTalk ViewPoint Site Edition on page 35".

Important:	Macros still follow the supported FactoryTalk View SE 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.

Abort command support includes the following command parameters only:

- [/Me], used to close the display that the Abort command was issued from.

- [*DisplayName*], used to close the specified display.

- [*], used to close all open displays.

- [/D], used with [*] to include docked displays when closing all open displays.

Display command support includes the following command parameters only:

- [/T] and [/P], used to load parameter lists and files with a display.

- [/H] and [/W], used to specify the initial height and width of a display.

- [/X] and [/Y], used to specify the initial position coordinates of a display.

- [/DL], [/DR], [/DT], [/DB], used to dock displays to the left, right, top, or bottom of the web browser window.

- [/Q1], [/Q2], [/Q3], [/Q4], used to set positions. /Q1: Upper right corner, /Q2: Upper left corner, /Q3: Lower left corner, and /Q4: Lower right corner.

Equal (=) command is used to enter an expression from the command line or anywhere else a FactoryTalk View SE command is used.

The syntax for the Equal command is: **[&] <tag_name>=<expression>**

- **[&]** forces the command to be evaluated asynchronously, which can dramatically improve the performance of tag writes.

- **<tag_name>** is a relative or absolute reference to the tag that stores the result of the expression. The tag name can include an area name.

- **<expression>** is a value, string, tag name, or a more complex expression.

Ramp command increases or decreases a tag value by a specified value or by another tag's value.

The syntax for the Ramp command is **Ramp [/V] <tag_name> <value|tag>**

- **[/V]** performs a read immediately after the write to verify that the value was actually altered in the programmable controller or OPC server. This parameter is useful if the network is in poor condition or susceptible to noise interference. If the verification fails, the error message is sent to the Factory Diagnostics system.

- **<tag_name>** is a relative or absolute reference to the tag that will be increased or decreased in value.

- **<value|tag>** is an amount to add to or subtract from the current value of the specified tag, as follows:

- A numeric value with a sign indicating add (+) or subtract (-).

- The value to add or subtract, as a percentage of the total min/max range, with a sign indicating add (+) or subtract (-). The formula is: new = old +/- (percentage/100 * (max - min)) plus (+) or minus (-) a tag

- If Ramp calculates a value that is outside of a tag's min/max range, it will write the highest or lowest allowable value to programmable controller or OPC server.

Set command writes a value to a tag.

The syntax for the Set command is **[&] Set [/V] <tag_name> <value|tag>**

- **[&]** forces the command to be evaluated asynchronously, which can dramatically improve the performance of tag writes.

- **[/V]** performs read-back verify on the write.

- [/V] provides an extra level of security by performing a read immediately after the write to verify that the value was actually altered in the programmable controller or OPC server.

  - This option is useful if the communications network is in poor condition, or susceptible to noise interference.

  - If the verification fails, the error message is sent to the Factory Diagnostics system.

- **<tag_name>** is a relative or absolute reference to the tag whose value will be set.

- **<value|tag>** is a value and tag to set.

Toggle command reads the tag's value and writes back a 0 or 1. If the value is 0, Toggle changes it to 1; if the value is 1, Toggle changes it to 0.

The syntax for the Toggle command is **Toggle [/V] <tag_name>**

- **[/V]** performs a read immediately after the write to verify that the value was altered in the programmable controller or server.

  - This parameter is useful if the network is in poor condition or susceptible to noise interference.

  - If the verification fails, the error message is sent to the Factory Diagnostics system.

- **<tag_name>** is a relative or absolute reference to an analog or digital HMI tag.

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.

Setting up Machine Edition (ME) web applications

This chapter describes:

- how FactoryTalk® ViewPoint works in a Machine Edition environment.

- how to create a new Machine Edition web application.

- how to connect to an existing Machine Edition web application.

About the FactoryTalk ViewPoint for Machine Edition environment

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.
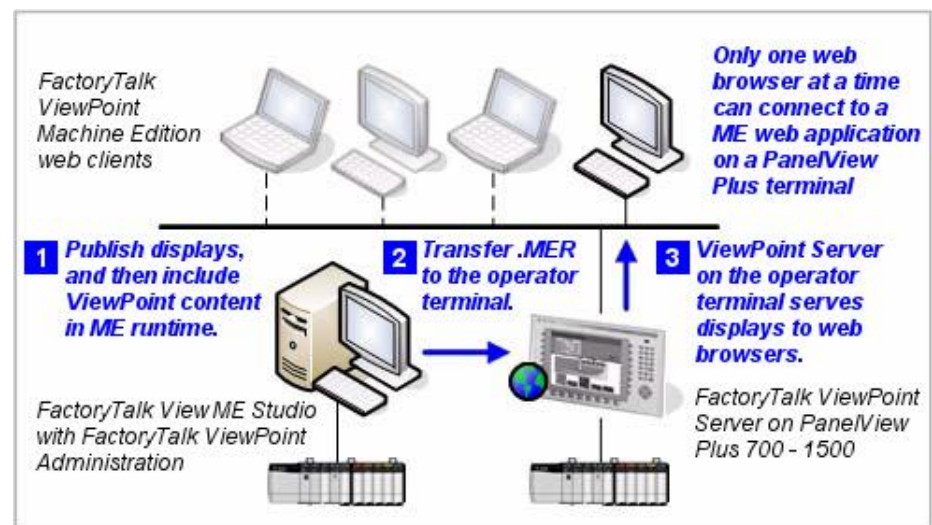
As shown in the previous illustration, the FactoryTalk ViewPoint Server software for a Machine Edition web application is installed on a PanelView Plus or PanelView Plus 6 operator terminal. New operator terminals contain the firmware with FactoryTalk ViewPoint included. Operator terminals that contain 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".

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 38".

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 11".

Creating a new Machine Edition web application

To create 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. For a chart of compatible versions see "Compatibility matrix for FactoryTalk ViewPoint on page 8".

    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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Index

A

Abort command   32
about
   Machine Edition environment   37
   Site Edition environment   25
   web applications   5
accessing help
   Machine Edition   41
   Site Edition   35
activation   26
assigning licenses   27

B

browsing help
   Machine Edition   41
   Site Edition   35

C

commands   32
connecting to
   Machine Edition   40
   remote activation server   27
   Site Edition   31
creating new web applications
   Machine Edition   38
   Site Edition   29

D

Display command   32
downloading licenses   27

F

FactoryTalk Directory   29
FactoryTalk View Point Machine Edition
   Administration   38
   environment   37
   installing   12
   requirements   9
   upgrading   22
FactoryTalk ViewPoint Site Edition
   Administration   29
   environment   25

   installing   12
   Server   26
   upgrading   22
fonts
   Machine Edition   41
   Site Edition   34

H

Help
   accessing ME   41
   accessing SE   35

I

installing
   FactoryTalk ViewPoint   12
   PanelView Plus firmware   21
   software updates   21

M

Machine Edition
   opening Administration   38

O

opening
   help   35
   ViewPoint for Machine Edition Administration   38
   ViewPoint for Site Edition Administration   29

S

setting up
   ME web applications   37
   SE web applications   25
   Site Edition activation   26

U

upgrading
   FactoryTalk ViewPoint   22

V

viewing web applications   5

W

web applications
   connecting to existing ME   40
   connecting to existing SE   31
Web server   25

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.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator available at http://www.rockwellautomation.com/locations , or contact your local Rockwell Automation representative.

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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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Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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