

FactoryTalk ViewPoint Quick Start Guide



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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.

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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).

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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

To use FactoryTalk ViewPoint for Site Edition your computer must meet the hardware and software requirements. For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

See also

[Hardware requirements](#) on [page 7](#)

[Software requirements](#) on [page 8](#)

Hardware requirements

For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

FactoryTalk ViewPoint

FactoryTalk ViewPoint requires the following hardware to publish applications:

Hardware	Minimum	Recommended
Processor	Intel® Core 2 Duo	Intel Core i5
Processor Speed	2.8 Ghz	3.4 Ghz
Memory	2 GB	4 GB
Hard Disk Space	16 GB free	20 GB free
Graphics Device	1024x768, True Color	DirectX 9, with WDDM 1.0 or higher driver

Mobile Device Clients

FactoryTalk ViewPoint has been tested with the following mobile devices:

- iPad mini™ with IOS® 8.2
- iPad Air® 1 with IOS 9.1
- iPad Air 2 IOS 9.1
- Samsung Galaxy Note® 10.1 with Android™ 4.4
- Samsung Galaxy Tab® S with Android 4.4
- Samsung Galaxy Tab 4 with Android 4.4
- Nexus™ 7 with Android 5.0
- Surface™ Pro 2 with Windows 8.1
- Surface Pro 3 with Windows 8.1
- Samsung Galaxy Note 3 with Android 4.4
- Samsung Galaxy Note 4 with Android 5.0
- iPhone® 5S with IOS 9.0
- iPhone 6 with IOS 8.3
- iPhone 6 Plus with IOS 9.0

See also

[Software requirements](#) on [page 8](#)

Software requirements

For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

Operating Systems

FactoryTalk ViewPoint server has been tested on the following operating systems:

- Windows® 7 Professional (32-bit, 64-bit)
- Windows 7 Professional with Service Pack 1 (32-bit, 64-bit)
- Windows 7 Ultimate with Service Pack 1 (64-bit)
- Windows 7 Enterprise with Service Pack 1 (32-bit, 64-bit)
- Windows 8 Professional (32-bit, 64-bit)
- Windows 8 Enterprise (32-bit, 64-bit)
- Windows 8.1 Professional (32-bit, 64-bit)
- Windows 8.1 Enterprise (32-bit, 64-bit)
- Windows Server® 2008 Standard with Service Pack 2 (32-bit, 64-bit)
- Windows Server 2008 R2 Standard (64-bit)
- Windows Server 2008 R2 Standard with Service Pack 1 (64-bit)
- Windows Server 2008 R2 Enterprise with Service Pack 1 (64-bit)
- Windows Server 2012 Standard (64-bit)
- Windows Server 2012 R2 Standard (64-bit)
- Windows Server 2012 Datacenter Edition (64-bit)
- Windows Server 2012 R2 Datacenter Edition (64-bit)

Required Software

FactoryTalk ViewPoint for Site Edition is an add-on to an existing FactoryTalk View system and requires FactoryTalk View v8.20 or later.

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

- FactoryTalk® Services Platform 2.80, which includes:

- FactoryTalk® Activation Manager 4.00
- FactoryTalk Alarms and Events 2.80
- RSLinx® Enterprise 5.80
- FactoryTalk View Site Edition Client 8.20
- FactoryTalk View Site Edition Server 8.20
- Microsoft .NET Framework 3.5 with Service Pack 1
- Microsoft Internet Information Services

Desktop Web Browsers

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

- Internet Explorer 11.0
- Google® Chrome™ browser 47.0 or later

Mobile Web Browsers

FactoryTalk ViewPoint has been tested with the following mobile browsers:

- Google Chrome browser
- Safari
- Internet Explorer

See also

[Hardware requirements](#) on [page 7](#)

FactoryTalk ViewPoint for Machine Edition system requirements

To use FactoryTalk ViewPoint for Machine Edition, your computer must meet the hardware and software requirements. Your host PanelView Plus operator terminal must also meet the hardware and firmware requirements.

For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

See also

[Hardware requirements](#) on [page 10](#)

[Software requirements](#) on [page 11](#)

[Firmware requirements](#) on [page 13](#)

Hardware requirements

For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

FactoryTalk ViewPoint

FactoryTalk ViewPoint requires the following hardware to publish applications:

Hardware	Minimum	Recommended
Processor	Intel® Core 2 Duo	Intel Core i5
Processor Speed	2.8 Ghz	3.4 Ghz
Memory	2 GB	4 GB
Hard Disk Space	16 GB free	20 GB free
Graphics Device	1024x768, True Color	DirectX 9, with WDDM 1.0 or higher driver

PanelView Plus

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

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

See also

[Software requirements](#) on [page 11](#)

[Firmware requirements](#) on [page 13](#)

Software requirements

For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

Operating Systems

FactoryTalk ViewPoint server has been tested on the following operating systems:

- Windows® 7 Professional (32-bit, 64-bit)
- Windows 7 Professional with Service Pack 1 (32-bit, 64-bit)
- Windows 7 Ultimate with Service Pack 1 (64-bit)
- Windows 7 Enterprise with Service Pack 1 (32-bit, 64-bit)
- Windows 8 Professional (32-bit, 64-bit)
- Windows 8 Enterprise (32-bit, 64-bit)
- Windows 8.1 Professional (32-bit, 64-bit)
- Windows 8.1 Enterprise (32-bit, 64-bit)
- Windows Server® 2008 Standard with Service Pack 2 (32-bit, 64-bit)
- Windows Server 2008 R2 Standard (64-bit)
- Windows Server 2008 R2 Standard with Service Pack 1 (64-bit)
- Windows Server 2008 R2 Enterprise with Service Pack 1 (64-bit)
- Windows Server 2012 Standard (64-bit)
- Windows Server 2012 R2 Standard (64-bit)
- Windows Server 2012 Datacenter Edition (64-bit)
- Windows Server 2012 R2 Datacenter Edition (64-bit)

Required Software

FactoryTalk ViewPoint for Machine Edition is an add-on to an existing FactoryTalk View system and requires FactoryTalk View v8.20 or later.

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

- FactoryTalk® Services Platform 2.80, which includes:
 - FactoryTalk® Activation Manager 4.00
- RSLinx® Enterprise 5.80

- Microsoft .NET Framework 3.5 with Service Pack 1

Desktop Web Browsers

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

- Internet Explorer 11.0
- Google® Chrome™ browser 47.0 or later

Mobile Web Browsers

FactoryTalk ViewPoint has been tested with the following mobile browsers:

- Google Chrome browser
- Safari
- Internet Explorer

See also

[Hardware requirements](#) on [page 10](#)

[Firmware requirements](#) on [page 13](#)

Firmware requirements

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

For the latest compatibility information, refer to the [Product Compatibility and Download Center](#).

PanelView Plus Terminal Firmware Version	Machine Edition Runtime Version	FactoryTalk ViewPoint Content (contained in .MER)
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

See also

[Hardware requirements](#) on page 10

[Software requirements](#) on page 11

Installing FactoryTalk ViewPoint

To install FactoryTalk ViewPoint and supporting software, run the setup program from the FactoryTalk ViewPoint CD. If you are already using FactoryTalk ViewPoint software, see [Upgrading FactoryTalk ViewPoint software](#) on page 15.

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

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.

To install FactoryTalk ViewPoint:

1. Close all open Windows programs.
2. Place the FactoryTalk ViewPoint CD in the computer's CD drive.
3. The CD should start running automatically. If not, run **D:\setup.exe**, where D is the drive containing the CD.

4. Under **Select software products to install**, ensure that either **FactoryTalk ViewPoint SE** or **FactoryTalk ViewPoint ME** is selected, and then click **Next**.
 - **FactoryTalk ViewPoint for Site Edition** - install this version to create web applications for FactoryTalk View SE. For network applications, install the software on one of the computers participating in the FactoryTalk Network Directory. For local applications, install the software on the computer hosting the local application.
 - **FactoryTalk ViewPoint for Machine Edition** - install this version to create web applications for FactoryTalk View ME. This software must be installed on a computer running FactoryTalk View Studio.
5. Click **Accept all** to accept the License Agreement.
6. Accept or change the default product location, or change the location, and then click **Next**.
7. Click **Install** to begin installing FactoryTalk ViewPoint and any listed prerequisites.
8. Click **Finish** after the software finishes installing.
9. If you see a message asking to restart the computer, click **Yes**.

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*, Chapter 8, "Upgrade Firmware".

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

1. Close all open Windows programs.
2. Place the FactoryTalk ViewPoint CD in the computer's CD drive.
3. The CD should start running automatically. If not, run **D:\setup.exe**, where D is the drive containing the CD.
4. If necessary, the setup program presents a message about missing prerequisites that you need to install manually. For instructions, click the Help links in the setup wizard.
5. Under **Select software products to install**, ensure that **FactoryTalk ViewPoint SE** or **FactoryTalk ViewPoint ME** is selected, and then click **Next**.
6. Confirm that you are upgrading your version of FactoryTalk ViewPoint when the dialog box is displayed by clicking **Next**. The upgrade installation automatically saves all configuration settings.
7. Accept the Software License Agreement.
8. Accept the default product location, or change the location, and then click **Next**.
9. To begin installing FactoryTalk ViewPoint and any listed prerequisites, click **Install**.

10. After the software finishes installing, click **Finish**.

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 23](#).
2. In 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 then 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 32](#).
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, on the **Tools** menu, click **Internet Options**.
2. In 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**.

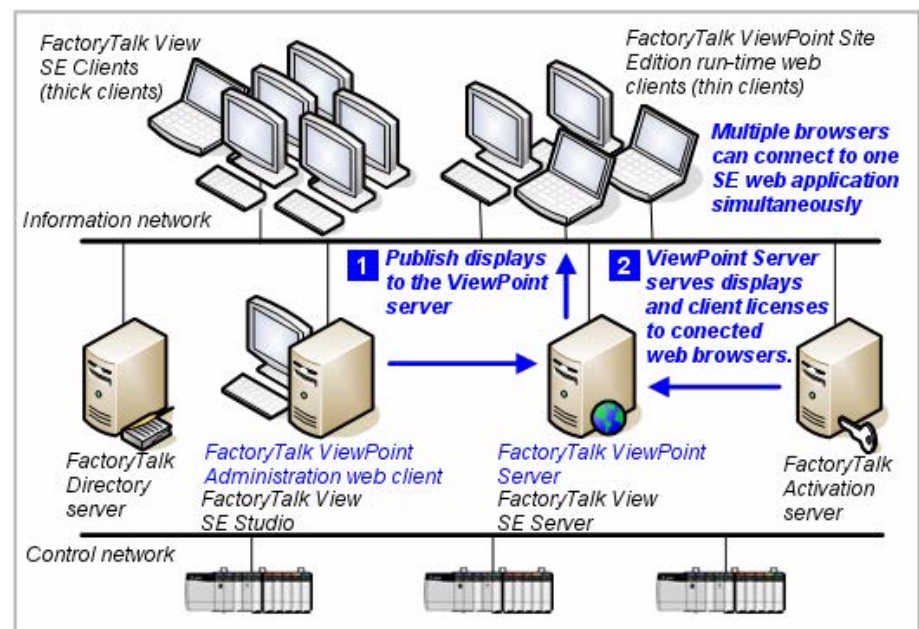
Setting up Site Edition (SE) web applications

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 20](#)."

To learn how to install FactoryTalk ViewPoint for Site Edition, see "[Installing FactoryTalk ViewPoint](#) on [page 13](#)."

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 [page 24](#) on [page 23](#).
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.

FactoryTalk ViewPoint Server

Number of licenses in use: 0

Number of licenses to assign:

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

'1' licenses are currently assigned.

To assign more or fewer licenses to the server, type the desired number, 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`
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

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

To open other ViewPoint Administration pages, click the navigation bar.

To create an SE web application, complete these three steps.

To get Help with tasks on a page, click the [Learn about...](#) link.

Home ► **Publish Displays to Web** Security Settings Server Settings Activation About

Follow these 3 steps to make a FactoryTalk View application

Web-ready:

- 1 Select an application
- 2 Select displays
- 3 Publish displays

Learn about selecting applications

Rockwell Automation

FactoryTalk Directory: WIN-BH3B7RA5OPH

Application Type: Site Edition (Local)

Application Name: InstantFizz_SE

Select a FactoryTalk View application type:

Site Edition (Local)

Select the application:

InstantFizz_SE

Select graphic displays

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 displays 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`
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 29](#)".

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: $\text{new} = \text{old} \pm (\text{percentage}/100 * (\text{max} - \text{min}))$ 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.

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.

Learning more about FactoryTalk ViewPoint for Site Edition

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.

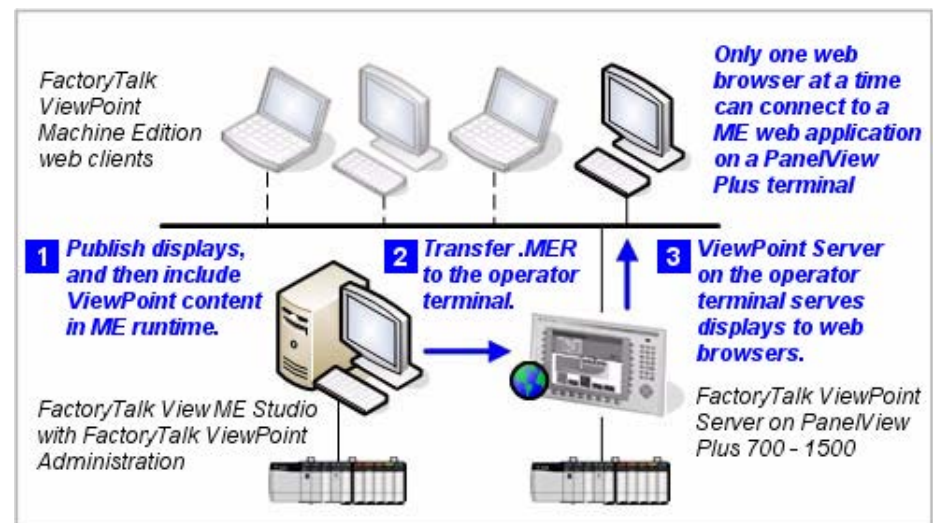
Setting up Machine Edition (ME) web applications

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 32](#)".

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 13](#)".

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.

Follow these 2 steps to make a FactoryTalk View application Web-ready:

- 1 Select displays
- 2 Publish displays

[Learn about selecting displays](#)

Application Type: Machine Edition
Application Name: InstantFizz_ME

Web Enable	Initial Display	Name
<input checked="" type="checkbox"/>		InstantFizz_ME
<input checked="" type="checkbox"/>	<input type="radio"/>	[ALARM]
<input checked="" type="checkbox"/>	<input type="radio"/>	[DIAGNOSTICS]
<input checked="" type="checkbox"/>	<input type="radio"/>	[INFORMATION]
<input checked="" type="checkbox"/>	<input type="radio"/>	00 Read me first
<input checked="" type="checkbox"/>	<input type="radio"/>	0A Security
<input checked="" type="checkbox"/>	<input type="radio"/>	0B Languages
<input checked="" type="checkbox"/>	<input checked="" type="radio"/>	1 Overview
<input checked="" type="checkbox"/>	<input type="radio"/>	2 Blending

Re-publish all selected displays [What is this?](#)

Publish 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 displays 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`
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.

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.

Learning more about FactoryTalk ViewPoint for Machine Edition

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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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
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