# FactoryTalk View SE / ME VERSION 13.00



expanding human possibility°

# Agenda

FactoryTalk® View version 13.00

Data connectivity and presentation

Extensibility and scripting improvements

Improved application design

Imp app mai

Improved application maintenance

Feedback-driven enhancements Modernization for FactoryTalk® View SE Modernization for FactoryTalk® View ME





# FactoryTalk View version 13.00

### FactoryTalk View v13.00 release summary

#### NEW FEATURES AND SUSTAINABILITY

Build upon features in v12.00, continue to enhance system components and increase scalability

Confirm platform sustainability and ease of maintenance with refresh of key technologies

Enhanced mobility features with a responsive, mobilefirst design

Support requirements to enable the PlantPAx® 5.10 solution

#### RSView®32 MIGRATION SUPPORT

Complete the feature set required to enable migration of existing RSView32 applications

RSView32 moving to discontinued lifecycle status in May 2022

#### DIAGNOSTICS AND REPORTING

Display basic HMI system status for operators and share status with analytics products

Mobile visibility to system diagnostics

#### LICENSE SIMPLIFICATION

New bundled pricing and licensing model for FactoryTalk View SE systems

Simplified product selection for FactoryTalk View SE with all-unlimited displays and clients included

FactoryTalk View v13.00 enhances a sustainable, feature-rich HMI platform with bundled licensing to make it <u>easier than ever</u> to choose FactoryTalk View

# FactoryTalk View V13.00 feature summary

#### DATA CONNECTIVITY AND PRESENTATION

- New Data Grid data source: data log model
- XY Plot Control for FactoryTalk View SE Client and ViewPoint

#### EXTENSIBILITY AND SCRIPTING IMPROVEMENTS

- HMI Tag access for Server-Side scripts
- Client-specific tags for Network Applications
- Native .NET Control Object
- OPC AE Client adoption

#### IMPROVED APPLICATION DESIGN

- Add Component Tool Enhancement
- Use and Evaluate Tag Based Alarms as desired (v.6.21)

#### IMPROVED APPLICATION MAINTENANCE

- System Status Portal
- Mobile Access to Automatic Diagnostics

#### FEEDBACK-DRIVEN ENHANCEMENTS

- Support for language switching in TrendPro & Recipe Pro Plus
- Custom User Message for Electronic Signature and String Input
- Application export to XML from Application Documenter
- Synchronization of HMI Tag Values in a Redundant System
- HMI Tag access for Server-Side scripts
- Client-specific tags for Network Applications
- Native .NET Control Object
- Animation driven by Automatic Diagnostics

#### FACTORYTALK VIEW SE MODERNIZATION

- SQL Server LocalDB Compatibility Update •
- Adoption of MS FactoryTalk<sup>®</sup> Analytics<sup>™</sup> Edge Web Browser ٠

#### **FACTORYTALK VIEW ME MODERNIZATION**

PanelView<sup>™</sup> Plus 7 Performance Series B Update



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# License simplification

# FactoryTalk View SE license simplification

With add-on option:

•

FactoryTalk<sup>®</sup> View Studio Enterprise

Introducing new licensing tiers for the FactoryTalk View SE portfolio to simplify buying decisions by including everything needed for a visualization solution in one part number

Station Lite	Station	Small	Medium	Large
<ul> <li>View SE Station</li> <li>25 display count</li> <li>Unlimited web clients</li> </ul>	<ul> <li>View SE Station</li> <li>Unlimited display count</li> <li>Unlimited web clients</li> </ul>	<ul> <li>View SE Distributed</li> <li>HMI server with unlimited display count</li> <li>5 HMI clients</li> <li>Unlimited web clients</li> </ul>	<ul> <li>View SE Distributed</li> <li>HMI server with unlimited display count</li> <li>10 HMI clients</li> <li>Unlimited web clients</li> </ul>	<ul> <li>View SE Distributed</li> <li>HMI server with unlimited display count</li> <li>25 HMI clients</li> <li>Unlimited web clients</li> </ul>
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With add-on options:

- Additional HMI client, full or read-only
- FactoryTalk View Studio Enterprise
- Redundant HMI server



# Data connectivity and presentation

# New Data Grid data source: data log model

Your data - where and how you want to see it

New data source for the Data Grid control introduced in v12.00 allows users to visualize FactoryTalk View SE data log models and information from an MS SQL Database

Display information from data log models in a tabular format

Simplified configuration for developers at design time and operators at runtime

#### **BENEFITS**

- Quick and easy method to access the historical information at the operator station
- Eliminates many steps in the process for exporting data from data log model
- Visualize pens from data log models "on the fly" by modifying the Data Grid properties at runtime

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# XY Plot control for FactoryTalk View SE client and web client

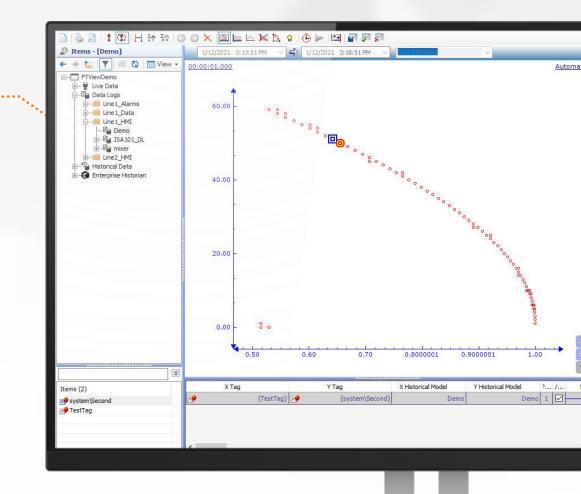
Extends trending capabilities by providing the ability to plot two sets of production data, one as a function of the other: y=f(x)

Plot two variables of interest against one another

BENEFITS

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- No longer restricted to plotting data points as a function of time
- Access to existing FactoryTalk data sources:
  - FactoryTalk Live Data
  - FactoryTalk View SE Data log
  - FactoryTalk® Historian SE
- Analyze the relationship of two sets of data against one another







# Extensibility and scripting improvements

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# HMI Tag access for server-side scripts

Transitioning scripting from the client to the server

Bidirectional interactions with data using PowerShell scripts

Further extends the PowerShell Scripting Engine capabilities introduced in FactoryTalk View SE v12.00

Trigger/call scripts from system events or application clients

V13.00 provides the capability to write information back to HMI Tags from the PowerShell script

#### BENEFITS

Use PowerShell scripts to:

- Change tag values in the HMI Tag database with script
- Push data from FactoryTalk View SE to Microsoft Excel(ex: send an Excel spreadsheet with parts that must be ordered right from an HMI display)
- Import data from Excel or a database to PowerShell, send this information to control system via HMI Tags
- Send email
- Update a text file

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# Client tags for customizing client behavior and functionality

Drive operator-specific display functionality with tag values specific to each client/user session in a distributed system

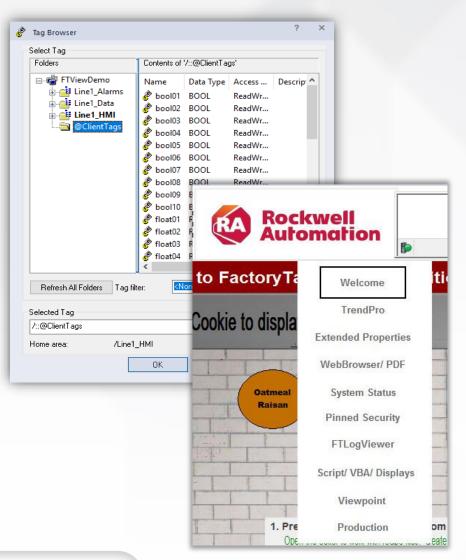
Four pre-defined data types: BOOL, dint, float, and string

Available for distributed systems with multiple clients or Network Station applications

#### BENEFITS

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- Customize client-specific:
  - Animation
  - Object visibility
  - Custom navigation menus
- Enables client-specific behavior that does not affect other clients in the system, driven by tag values specific to one client





# Native .NET control object support

Leverage reusable custom tools in the FactoryTalk View platform

.NET objects are developed with the .NET Framework to provide a graphical interface to a business function

Support for Windows Form Control and Windows Presentation Foundation (WPF Control)

BENEFITS

- Provides greater flexibility with control system connectivity
- Users can develop their own .NET controls and use them in FactoryTalk View SE applications (ex: systems integrators)
- Native support for .NET means no need to convert from .NET to ActiveX
- Third-party libraries of .NET controls can be added to FactoryTalk View SE applications

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CheckBox	System.Windows.Forms	System.Windows.Forms (4.0.0.0)	Global Assembly Cache	
CheckedListBox	System.Windows.Forms	System.Windows.Forms (4.0.0.0)	Global Assembly Cache	
ComboBox	System.Windows.Forms	System.Windows.Forms (4.0.0.0)	Global Assembly Cache	
ContainerControl	System.Windows.Forms	System.Windows.Forms (4.0.0.0)	Global Assembly Cache	
DataGrid	System.Windows.Forms	System.Windows.Forms (4.0.0.0)	Global Assembly Cache	
DataGridTextBox	System.Windows.Forms	System.Windows.Forms (4.0.0.0)	Global Assembly Cache	
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# Improved application design



# FactoryTalk View SE Add Component tool enhancements

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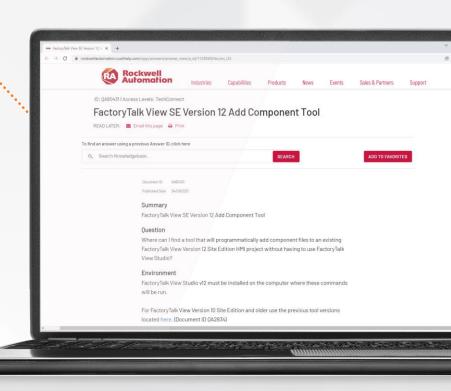
The FactoryTalk View SE Add Component tool allows users to add project elements to an existing FactoryTalk View SE HMI project via command line

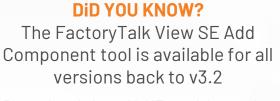
Command-line utility capable of adding or updating components in a deployed FactoryTalk View SE application

Add displays, global objects, macros, or data log models programmatically

#### BENEFITS

- Update a running application without FactoryTalk View Studio (ex: OEM/SI updates)
- No longer necessary to back up and restore the entire application
- Added security:
  - Username and password
  - Account must have Create Children, Delete, List Children, Read, and Write access
- Support for XML file format
- Enhanced to allow import for applications that leverage Language Switching
- Support for FactoryTalk<sup>®</sup> Alarms and Events configurations PUBLIC • Copyright ©2022 Rockwell Automation, Inc.





Download the v12/13 tool from the Knowledgebase

## **Use and Evaluate Tag-based Alarms**

FactoryTalk Alarms and Events v6.21.00

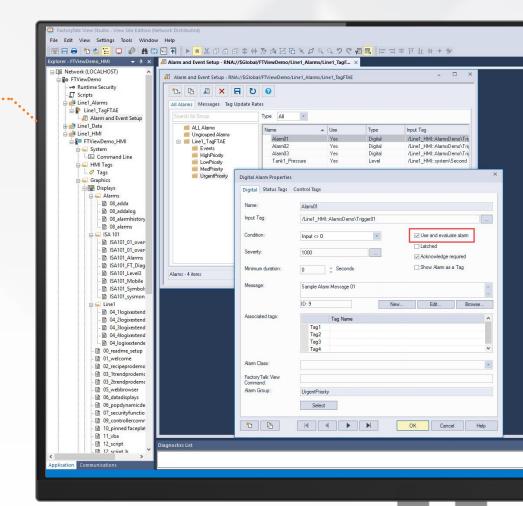
Design time property allowing users to specify whether an alarm configuration should be evaluated

For alarms defined in FactoryTalk View SE (OPC alarms / legacy or third-party controllers)

#### BENEFITS

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- If building a project from a template or importing XML, you must define alarms, but not use them for certain applications
  - Helpful in commissioning and maintenance of systems
  - Check box to use and evaluate the alarm once all components are in place
- Alarms with "Use and Evaluate" unchecked will not be evaluated or show up in any alarm object







# Improved application maintenance

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# **System Status Portal**

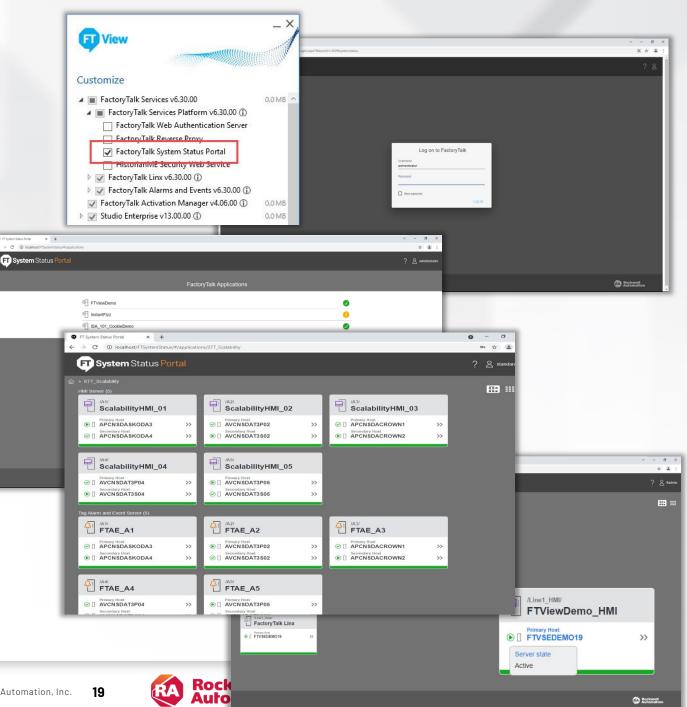
Included with FactoryTalk® Services Platform

Webpage that provides an overview of all FactoryTalk application servers and their respective status: HMI, Data servers (FactoryTalk® Linx, OPC) and FactoryTalk Alarm and Events servers

Accessible via link: http://<ftsystemstatus\_server>/ftsystemstatus/

#### BENEFITS

- Enabled with checkbox during install
- Access application server status via web browser, either from a web browser object inside a FactoryTalk View application or from a separate web browser
- Status of application servers
  - Loading, Running, Failed
  - Redundancy Active, Standby
- Only an indication of server status



## **Mobile access to Automatic Diagnostics**

Automatic device diagnostics and analytics are generated by the controller in a system

FactoryTalk View SE v12.00 introduced access to these messages via Automatic Diagnostics –v13.00 expands access to Automatic Diagnostics from mobile devices with FactoryTalk ViewPoint

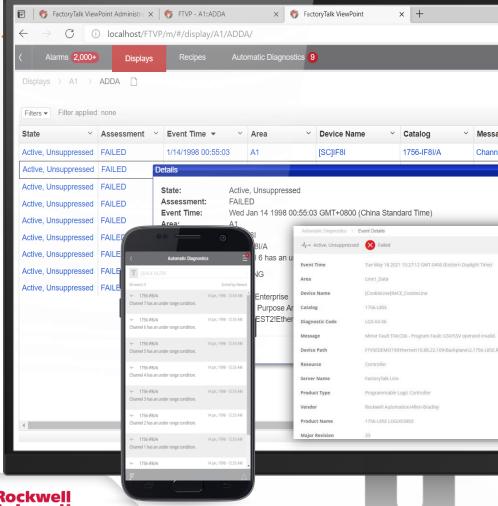
#### BENEFITS

- Information about I/O communications and faults in the controller code can now be sent automatically to the HMI to provide information to operators
- Easily access information about the devices in a control system in all HMI clients, full or mobile
  - Fault messages
  - Disconnected I/O

#### **DID YOU KNOW?**

Automatic Diagnostics are supported by ControlLogix® 5580, CompactLogix™ 5480, and CompactLogix 5380 controllers, V33+





# **Animation driven by Automatic Diagnostics**

Allows users to drive animation from information retrieved from Automatic Diagnostics

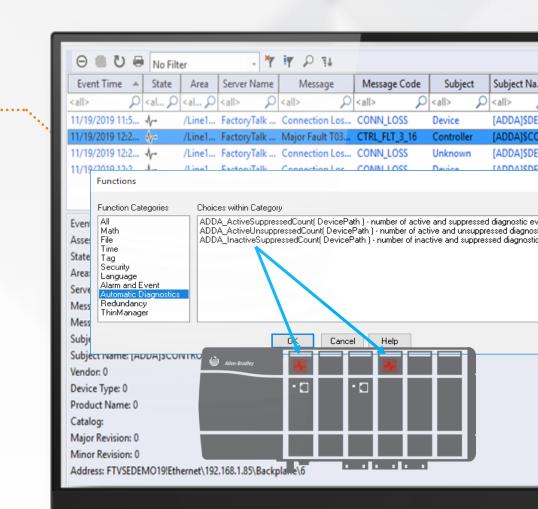
New functions:

- ADDA\_ActiveSuppressedCount(Device Path)
- ADDA\_ActiveUnSuppressedCount(Device Path)
- ADDA\_InactiveSuppressedCount(Device Path)

#### BENEFITS

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- Visual indications of conditions present in devices, provided by diagnostics messages (fault, disconnect, and so on)
- Feature used in Rockwell Automation Process Object Library faceplates, allowing process customers to display problems within the system on display objects





# **E** Linx OPC UA Connector

OPC UA Alarms and Conditions integration

Simplified integration of FactoryTalk View SE with other systems and vendors

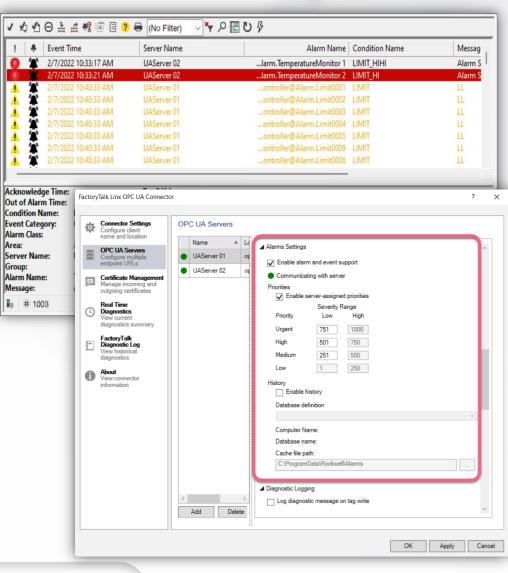
Enabled and configured in the OPC UA Connector

FactoryTalk Alarms and Events will retrieve alarm definitions from the OPC UA Server, receive alarm state change messages, and return operator feedback

BENEFITS

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- Eliminates the need to duplicate alarm configurations in the FactoryTalk Alarms and Events Server when third-party OPC UA systems are leveraged
- Automatic integration into FactoryTalk Alarms and Events
  - Subscribe to OPC UA Alarms and Conditions
  - Visualize and interact with existing FactoryTalk Alarms and Events objects, providing consistent interactions for operators
  - Historize the information to the centralized FactoryTalk Alarms and Events database







# Feedback-driven enhancements

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# Custom user message for Electronic Signature and String Input

Customized diagnostic audit messages for String Input object when new values are downloaded

#### **CUSTOM USER MESSAGE**

Displayed to the operator at runtime to confirm they are aware of the impact their activities may have on the production system

Audit messages logged to FactoryTalk® Diagnostics when values are

# BENEFITS

• Aligned with new FDA requirements

#### **STRING INPUT REMARK**

Ability to configure custom remark on string input object

Supports use of tags or parameters

Current and new tag values can be used by leveraging the "/c" and "/n"

### BENEFITS

• Developers can now configure custom diagnostics for Numeric and String inputs to provide granular audit logging

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## Language switching support in TrendPro and Recipe Pro Plus

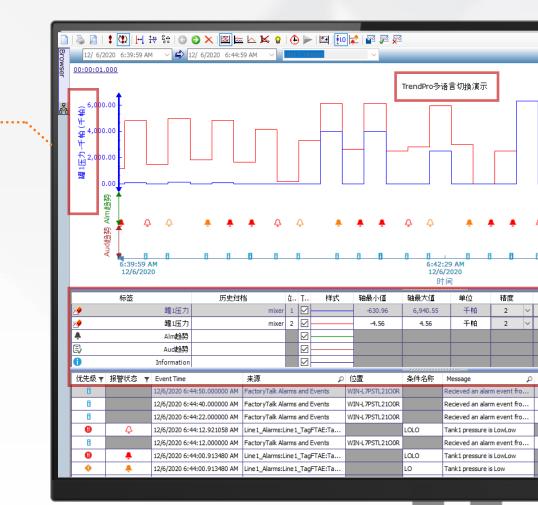
Provides HMI users with an interface that is easy to read and understand in the runtime language they have selected

Language switching extended to tools integrated into FactoryTalk View SE for trending and recipe management

Column headings, tooltips, and other text can now be switched to the language selected by the operator

#### BENEFITS

• Uniform operator experience across a FactoryTalk View SE client for all components used in an HMI application





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 Uniform operator experience across a FactoryTalk View SE Client for all components used in an HMI application

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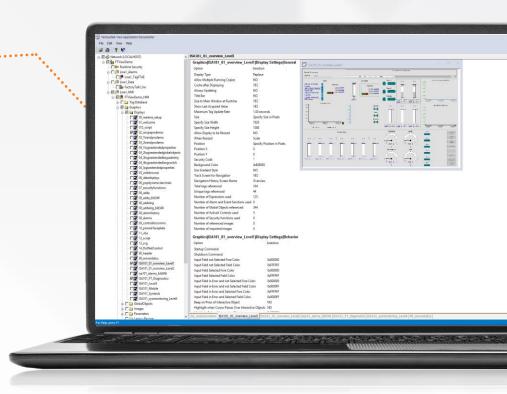
# **Application Documenter: export to XML**

Run Application Documenter via command line to generate an XML export of application details

Intended for comparison of components configured in the application

#### **BENEFITS**

- Exports can be loaded into GitHub or other file versioning solutions
- Generate reports on differences and application statistics, identifying changes that were made in the running application



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# **Redundant system synchronization enhancement**

Continued improvements to the behavior and reliability of a redundant system

Synchronization of HMI memory tags between active and standby servers

HMI memory tags are used to store application-specific values that are referenced by the HMI, but not stored in controller tags

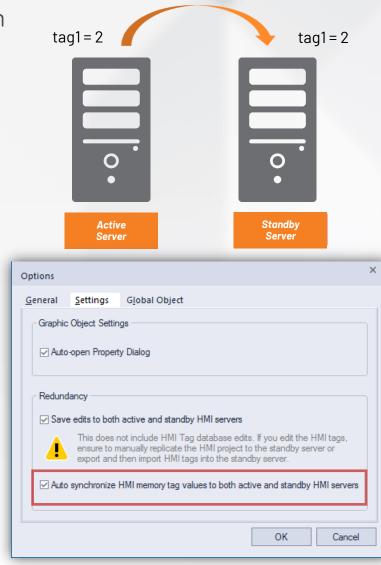
Before v13.00, HMI memory tag values were not synchronized in a redundant system; HMI tag value changes were reflected only in the active server

Enable HMI memory tag synchronization with a checkbox in HMI Server settings

#### **BENEFITS**

. . . . . . . . .

 In a v13.00 redundant system, HMI memory tag values are now synchronized – when failover/switchover occurs, these values remain consistent no matter which server is active







# Modernization for FactoryTalk View SE

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### Microsoft SQL Server LocalDB compatibility update

HMI Tag database maintenance update, with adoption of Microsoft SQL Server 2019 LocalDB

#### BENEFITS

- Provides continued maintenance and security to the SQL Server LocalDB component of our system
- Maintains the "latest and greatest" from Microsoft



FactoryTalk View v13.00 and aligned products no longer support 32-bit operating systems Reference Installation documentation for official OS support information



# Microsoft Edge web browser adoption

FactoryTalk View SE web browser control update to leverage Microsoft Edge technology from the Windows operating system

Shift in new versions of FactoryTalk View SE after Internet Explorer June 2022 End of Life date was announced by Microsoft



- No action necessary on existing displays
- Provides added HTML5 / Chromium rendering for
  - ThingWorx dashboards
  - FactoryTalk<sup>®</sup> Analytics<sup>™</sup> DataView



How will the end of support for Internet Explorer affect Rockwell Automation products?

Find an end of support / dependency summary on the <u>Knowledgebase</u>



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# **Modernization for** FactoryTalk View ME



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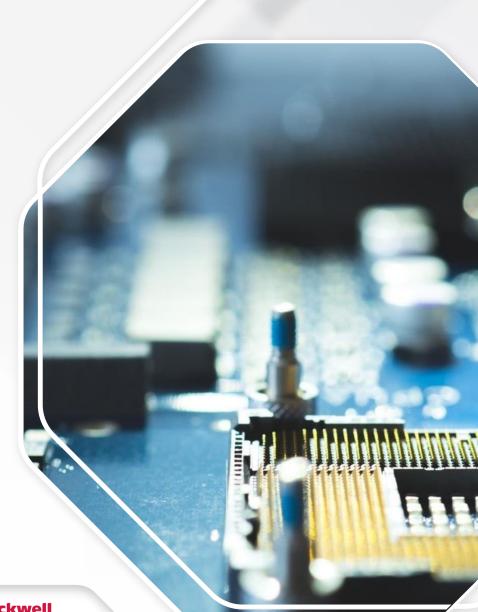
### PanelView<sup>™</sup> Plus 7 Performance Series B update

FactoryTalk View ME v13.00 adds support for PanelView Plus 7 Performance Series B

Series B offers updated hardware with improved long-term supply chain support

#### BENEFITS

- Increased user storage
- Enhanced product security
- Support for modern peripherals
- Firmware update via ControlFLASH<sup>™</sup>, aligned with other Allen-Bradley<sup>®</sup> products
- Improved ability for customers to restore a terminal to Factory Defaults







# OS support and new content for FactoryTalk View v13.00







#### **OS support**

- Windows Server 2019 (64 bit)
- Windows Server 2016 (64 bit)
- Windows Server 2012 R2 (64 bit)
- Windows 10 (64 bit)
- Windows 11 (64 bit)

#### Microsoft SQL server support

(for datalog & FactoryTalk A&E)

- MSSQL 2019 (64 bit)
- MSSQL 2017(64 bit)
- MSSQL 2016 SP2 (64 bit)
- MSSQL 2014 SP3 (64 bit)
- MSSQL 2012 SP4 (64 bit)

#### No longer supported

- Windows Vista (8.00)
- Windows Server 2003 (8.00)
- Windows Server 2008 R2 (11.00)
- Windows Server 2012 (10.00)
- Windows 7 (12.00)
- Windows 8 & 8.10 (11.00)
- Windows 10 32 bit (12.00)

Latest operating system info can be found at the Rockwell Automation Compatibility and Download Center



# **Demo application: FactoryTalk View SE distributed**

The demo application included with FactoryTalk View Studio Enterprise has been updated to include new v13.00 features

Walks a user through new features delivered in releases from v9.00 to v13.00

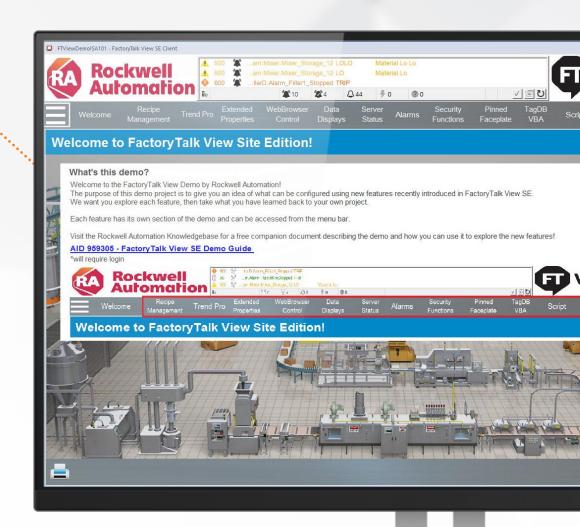
Automatically installed with FactoryTalk View SE v13.00

Setup instructions included in .PDF found in HMI Projects folder

- How to link the demo to a controller
- Location of the .CLI file
- How to configure FactoryTalk ViewPoint

.ACD file is also included in the HMI Project folder

Demo configured guide also found in <u>Knowledgebase</u>





# YouTube video playlists

Rockwell Automation provides "how to" videos for various features in:

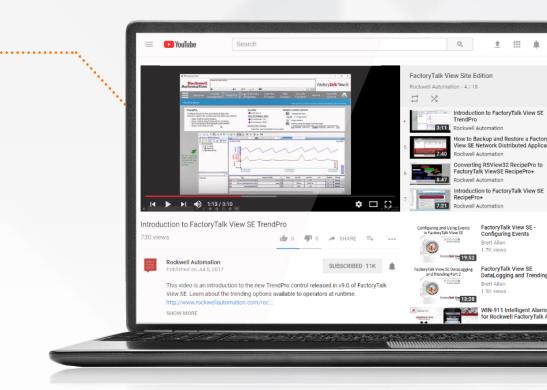
- FactoryTalk View SE
- FactoryTalk View ME with PanelView Plus 7
- View Designer with PanelView 5000
- And many other Rockwell Automation products

Videos created by Commercial Engineering to demonstrate product features and how they are configured

New content added monthly

YouTube playlist links:

- FactoryTalk® View Site Edition
- PanelView Plus 7 and FactoryTalk® View Machine Edition
- <u>FactoryTalk® AssetCentre</u>
- PanelView 5000 and Studio 5000 View Designer<sup>®</sup>





# THANK YOU



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