FactoryTalk View Machine Edition v10.0

What’s New

Wil Mattheis
Sr. Commercial Engineer
08-Feb-2018
Improved Legacy Project Support

Overview

Open 5.00, 5.10, and 6.00 projects on a PC running a 64-bit OS using FTView Studio 10.00, and v6.10 – v9.00 via patch

Benefits

Eliminate need to maintain a PC running 32-bit OS for sole purpose of migrating projects

Patch available in Answer ID 1059820, or the December 2017 Patch Roll-up
Overview

- ME Station displays version information on startup display
Reduced Microsoft SQL Server footprint

Overview

Adopt Microsoft SQL “Local dB” technology

Benefits

Reduces number of Microsoft SQL Server instances in a facility
Improved Usability Working With Objects On Displays

Overview

Support docking the Object Explorer and the Property Panel

Benefits

Simplify access to power editing tool
On-board Audit Trail Supports Regulated Industry Applications

Benefits

Overview

Store up to 10,000 actions on device

Use FactoryTalk View Machine Edition in applications requiring regulatory compliance such as US 21CFR Part 11 or EU Annex 11
Need to enable the Audit Trail server in order to generate the Audit log file
### Example Audit Trail

<table>
<thead>
<tr>
<th>Occurred Time</th>
<th>Location</th>
<th>Username</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/19/2018 8:22:43 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Write '25' to 'NumericTwo'. Previous value was '0'.</td>
</tr>
<tr>
<td>1/19/2018 8:22:43 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Electronic Signature Action. Proposed Write '25' to the tag 'NumericTwo'.</td>
</tr>
<tr>
<td>1/19/2018 8:22:26 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Successful login of user [Supervisor] on directory [Local]</td>
</tr>
<tr>
<td>1/19/2018 8:22:26 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Electronic Signature Action: Write '25' to the tag 'NumericTwo'. Previous *</td>
</tr>
<tr>
<td>1/19/2018 8:22:26 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Successful login of user [Operator] on directory [Local]</td>
</tr>
<tr>
<td>1/19/2018 8:22:12 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Successful login of user 'operator'.</td>
</tr>
<tr>
<td>1/19/2018 8:22:12 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Write 'Operator' to 'System\User'. Previous value was 'DEFAULT'.</td>
</tr>
<tr>
<td>1/19/2018 8:22:12 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Successful login of user [Operator] on directory [Local]</td>
</tr>
<tr>
<td>1/19/2018 8:20:59 AM</td>
<td>PVP9777</td>
<td>DEFAULT</td>
<td>Write '0' to 'Alarm_Export_StatusMsg'.</td>
</tr>
<tr>
<td>1/19/2018 8:20:59 AM</td>
<td>PVP9777</td>
<td>DEFAULT</td>
<td>Write '0' to 'Audit_Export_StatusMsg'.</td>
</tr>
<tr>
<td>1/19/2018 8:20:59 AM</td>
<td>PVP9777</td>
<td>DEFAULT</td>
<td>Write '0' to 'Audit_Export_StatusCode'.</td>
</tr>
<tr>
<td>1/19/2018 8:20:59 AM</td>
<td>PVP9777</td>
<td>DEFAULT</td>
<td>Write '0' to 'Audit_High_High'.</td>
</tr>
<tr>
<td>1/19/2018 8:20:59 AM</td>
<td>PVP9777</td>
<td>DEFAULT</td>
<td>Write '0' to 'Audit_High'.</td>
</tr>
<tr>
<td>1/19/2018 7:41:27 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Write 'Machine Two Cleaning Cycle' to 'EchoMsg'. Previous value was 'M'</td>
</tr>
<tr>
<td>1/19/2018 7:41:27 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Write 'machine2' to 'LocalMsgFile'. Previous value was 'Machine1'.</td>
</tr>
<tr>
<td>1/19/2018 7:40:56 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Write 'Machine One Cleaning Cycle' to 'EchoMsg'. Previous value was 'M'</td>
</tr>
<tr>
<td>1/19/2018 7:40:55 AM</td>
<td>PVP9777</td>
<td>Operator</td>
<td>Write '0' to 'LocalMsgSelection'. Previous value was '1'.</td>
</tr>
</tbody>
</table>

### Details

- **Occurred Time**: 1/19/2018 8:22:43 AM
- **Source**: FactoryTalk View ME Station
- **Location**: PVP9777
- **Username**: Operator
- **Message**: Electronic Signature Action. Proposed Write '25' to the tag 'NumericTwo'. Previous value was '0'. Approved by 'supervisor'. Comment: approved chg.
Export Alarm History and Audit History To CSV

Overview

Export triggered at run-time via tag
CSV files are time-stamped and tamper-proof

Benefits

Application controls when export occurs
Captures source data for a ‘batch record’
Dynamic Local Message File

Overview

Use different local message file based on application context

Benefits

Eliminate stacked Local Message Display controls
Example Variable Local Message

Screen before

Screen After
Example Variable Local Message

- Dint tag to trigger the message number.
- String tag to select the message file name.
Example Echo Local Message

Screen Before

Screen After

Goto Display Button

Machine Two Setup
FactoryTalk® View Machine Edition
What's NEW in v9.0

December 2016
Common Installer

Overview

Common install experience for Logix Designer, View Designer, and FactoryTalk View users

Benefits

More intuitive installation process
Context-Sensitive Alarm Behavior

Overview

Alarm History stores *Alarm Identifier* value

Benefits

Allows creation of context-sensitive behaviors
Support Logix Extended Tag Properties

Overview

Support Logix Extended Tag Properties @Min, @Max, @Description, @State0, @State1, @EngineeringUnit

Benefits

Simplified maintenance of captions, text, and localized in Logix Designer
Customize Keyboard/Keypad Appearance

Overview

Allow customization of keypad, keyboard, and character input interfaces.

Benefits

Better match the user input interfaces to the color scheme of the application.
Launch Multiple Displays at Application Start-up

Overview

Up to five displays can be open at launch. Displays are opened in order, top to bottom.

Benefits

Simplify application use of ActiveX (Ex. DataStorePlus) that need to be memory-resident to use in an application.
Hyperlink Animation

Overview

Embed website links directly on a display without using ProgramLauncher ActiveX control

Benefits

Supported in FactoryTalk Viewpoint
Updated PanelView Plus 7 Standard Application
Constraints

Overview

PanelView™ Plus 7 Standard application limits updated to support 50 displays, (25 Replace and 25 On Top), 1 controller shortcut, and 500 alarms

Benefits

PanelView Plus 7 Standard supports more applications
Connectivity Improvements

Overview

Direct connect to devices supporting CIP Energy

http://ab.rockwellautomation.com/Energy-Monitoring/

Shortcut Enable / Disable at run-time via pre-defined @ tags

Benefits

Monitor energy consumption of enabled devices
Reduce error messages during maintenance activities, or known down devices.
FactoryTalk® View Machine Edition
v8.20 Overview

Design-time Improvements
• Control group visibility from Object Explorer
• Switch design-time HMI application language
• Other usability enhancements

Run-time Enhancements
• PanelView™ Plus 7 Standard with Device Level Ring (DLR)
• Multi-pen XY Chart ActiveX
• Improved control over system response to operator inactivity

Regulated Environments
• Intrinsic electronic signature function
• Detect data falsification in CSV data log

Platform Support
• Dropped Windows XP support
Control Group Visibility at Design-time

Overview

Control what objects or groups are visible while editing a display

Benefits

Simplify maintenance of complicated displays with overlapping or stacked objects and groups
Design-time Language Switching

Overview

Text changes are persisted in current language locale

Benefits

Eliminates need to close and re-open the HMI application
Design-time Language Switching
Design-time Language Switching

Select the text
Edit the Text
Design-time Language Switching
Improved Control of System Response to Operator Inactivity

Overview

Control program can inhibit inactivity timeout

Benefits

Allow maintenance to be performed without the operator inactivity action execution adding time to the maintenance task
Enabling FDA 21CFR Part11 Compliance – Electronic Signature

Overview

Controls that write data can be configured to required an electronic signature.

Benefits

Enables application validation to FDA 21CFR Part11 regulation.
Thank you!