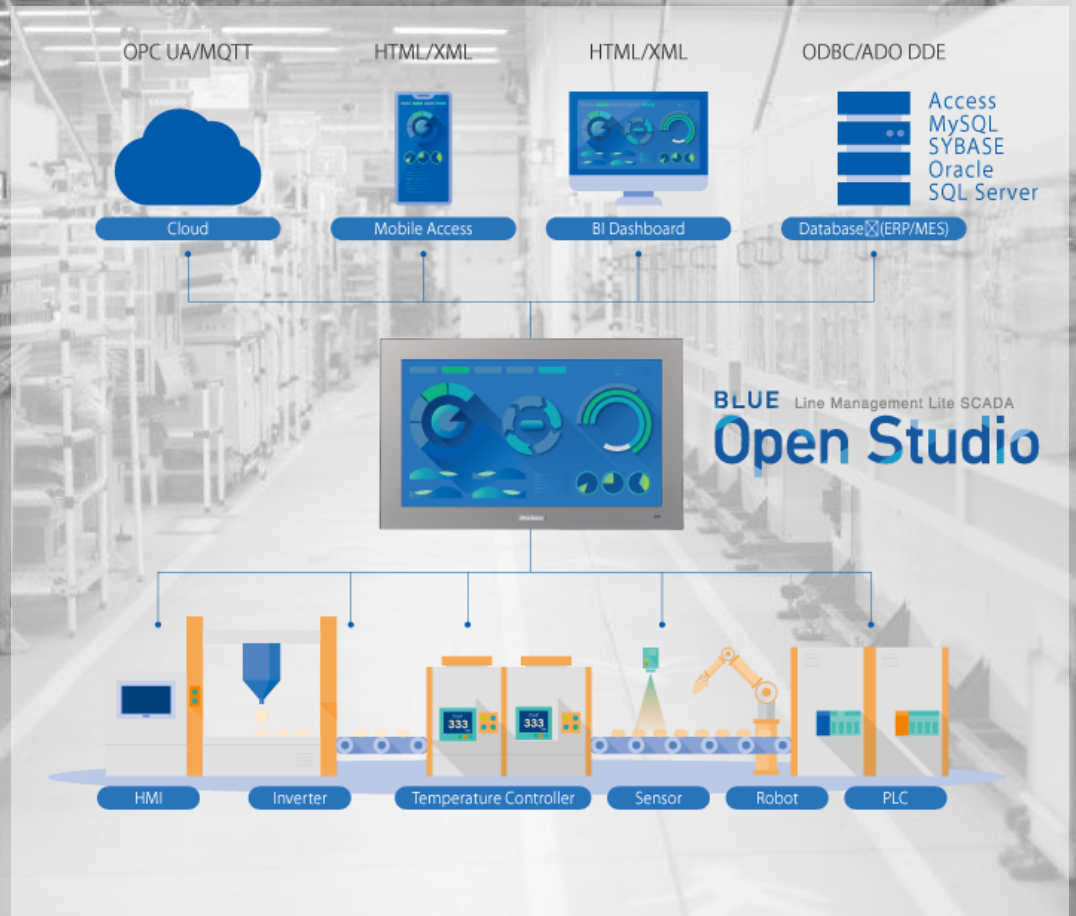


# Pro-face America Learning Center

What is new in BLUE Open Studio



# BLUE Open Studio

Version 8.1 + Service Pack 4 (v81.4.0)

## Mobile Access Thin Client (HTML5) Enhancements




### Benefits


- Support for Localization on HTML5
  - Dynamically switching languages.
  - Allows more flexibility for projects installed in different areas.
- Additional Improvements:
  - Support for Sorting the columns on Alarm Control object.
  - “Push-like” style on Check-boxes and Radio Buttons.
  - Improved Performance, Scalability and Stability.



### Studio Mobile Access (SMA) Thin Clients

Platforms: Agnostic    

Host: Web Browser agnostic   

Technology: HTML5 



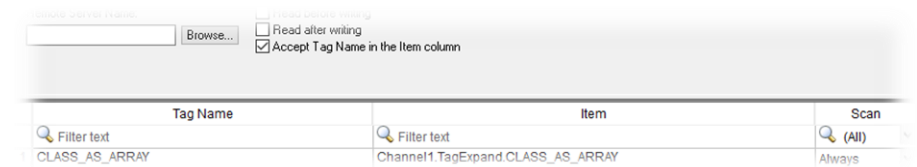
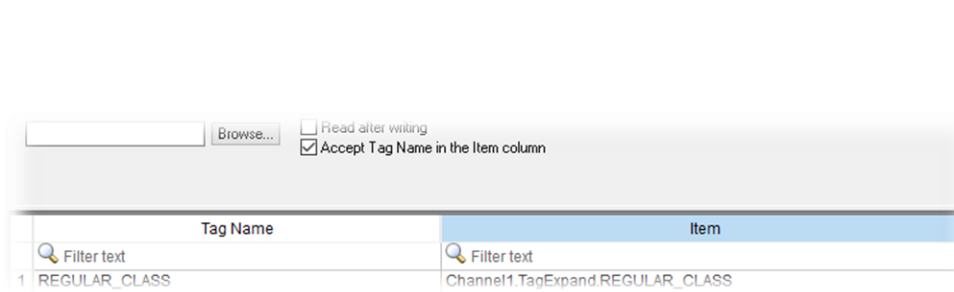
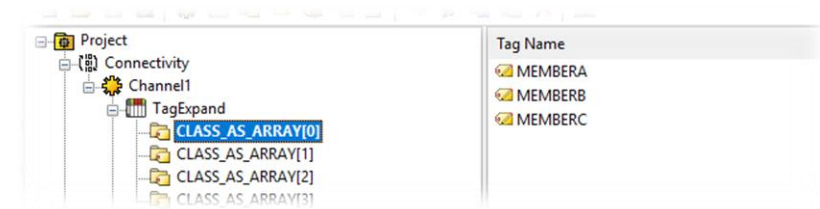
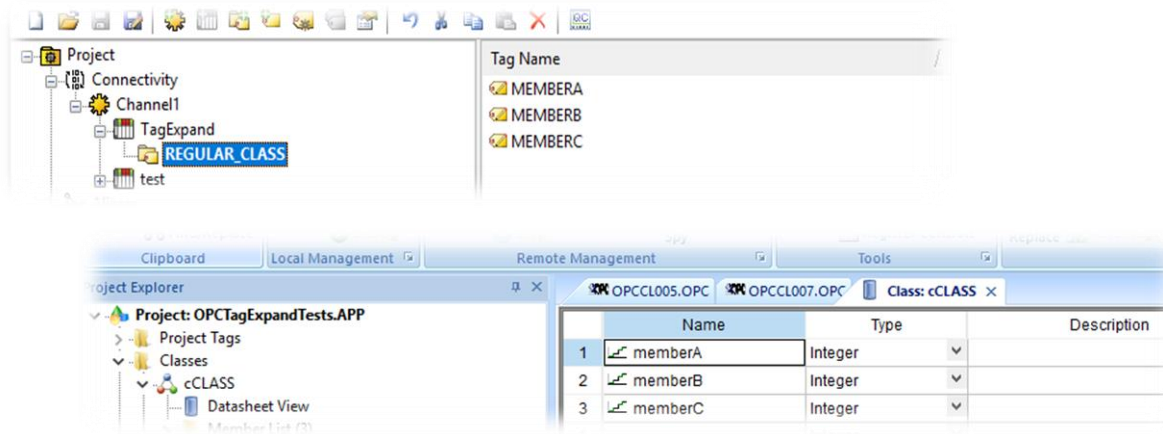
# Interoperability

## Tag Expansion for OPC UA and OPC XML/DA Clients



### Benefits

- Easily associate a Class Tag with a Structure from the third-party OPC Servers, using only one line on the OPC Client worksheets.



# Interoperability

## Array Distribution for OPC UA and OPC XML/DA Clients



### Benefits

- Easily associate an Array Tag with an Array Item from the third-party OPC Servers, using only one line on the OPC Client worksheets.

Property Editor - Data Type Examples.16 Bit Device.R Registers.DWordArray

Property Groups: General, Scaling

**Identification**

Name	DWordArray
Description	32-Bit unsigned integer array

**Data Properties**

Address	R0550 [4]
Data Type	DWord Array
Client Access	Read/Write
Scan Rate (ms)	100

Tag Name: R\_Registers\_DoubleArray\_UA[0]

Browse Path: /0:Objects/2:Data Type Examples/2:Data Type Examples.16 Bit Device/2:Data Type Examples.16 Bit Device.R Registers/2:Data Type Examples.16 Bit Device.R Registers.DoubleArray

Address: [Empty]

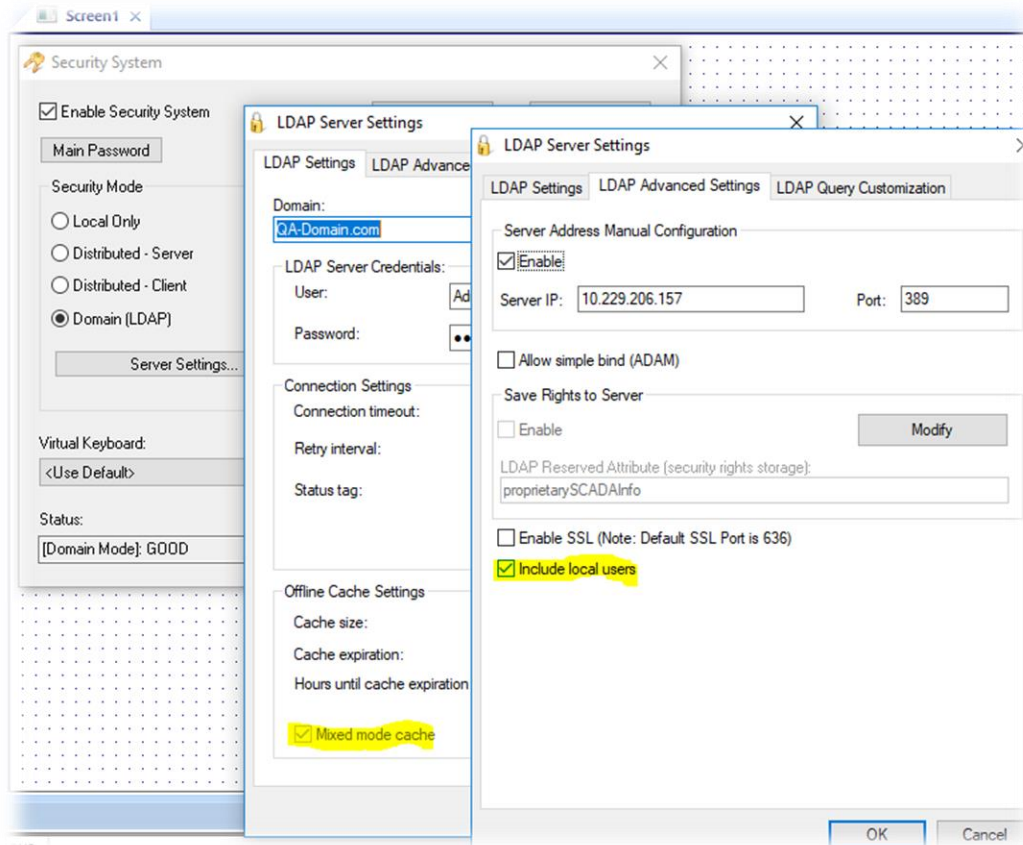
Buttons: OK, Cancel, Apply, Help

Tag Name	Browse Path	Scan	Div	Add	Node Id
1 R_Registers_DoubleArray_UA[0]	/0:Objects/2:Data Type Examples/2:Data Type Examples.16 Bit Device/2:Data Type Examples.16 Bit Device.R Registers/2:Data Type Examples.16 Bit Device.R Registers.DoubleArray	Always	Filter text	Filter text	ns=2;s=Data Type Examples.16 Bit Device.R Registers.DoubleArray
2 R_Registers_DoubleWordArray_UA[0]	/0:Objects/2:Data Type Examples/2:Data Type Examples.16 Bit Device/2:Data Type Examples.16 Bit Device.R Registers/2:Data Type Examples.16 Bit Device.R Registers.DWordArray	Always	Filter text	Filter text	ns=2;s=Data Type Examples.16 Bit Device.R Registers.DWordArray

Database Spy

Tag/Expression	Value	Quality	Continuous
R_Registers_DoubleWordArray_UA[0]	4677	GOOD	<input checked="" type="checkbox"/>
R_Registers_DoubleWordArray_UA[1]	4677	GOOD	<input checked="" type="checkbox"/>
R_Registers_DoubleWordArray_UA[2]	4677	GOOD	<input checked="" type="checkbox"/>
R_Registers_DoubleWordArray_UA[3]	4677	GOOD	<input checked="" type="checkbox"/>

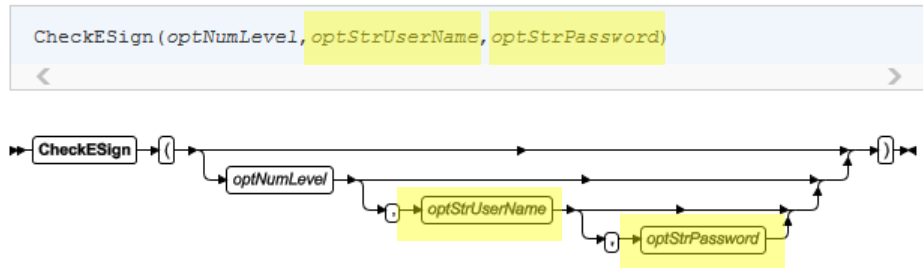
## Enhanced Security System Enabling Mixed Mode for Domain & Local Modes



### Benefits

- Users created using Local Mode can be used when the Security Mode is Domain (LDAP), even when connection with the Active Directory is available.
- Enhancement on existing Mixed Mode feature with the option to Include local users.
- Flexibility on OEM projects.
- Flexibility for Generic Templates.

## Enhanced CheckESign() built-in function



## Benefits

- New Optional Parameters for optUserName and optPassword.
- Script level check.
- Verification control for sophisticated specifications, including FDA 21 CFR Part 11.
- Enable custom authentication (e.g., double authentication).

# Additional Demo Projects

## Embedded Demo

Windows IoT

Windows Embedded 8 Standard

Windows Embedded Standard 7

Windows Embedded Compact

The screenshot displays the 'Embedded Demo' interface. At the top, there is a navigation bar with icons for Home, Refresh, Back, Keys, Information, Help, and Power. Below this, the main area is divided into several panels:

- Animations:** Shows various shapes and colors in motion.
- User Controls:** Displays a grid of colored shapes and a yellow arrow.
- Visibility:** Shows a circular gauge and a green motor.
- Rotation:** Features a circular gauge with a needle pointing to 64.
- Resize:** Shows a flame icon.
- Position:** Displays a yellow robotic arm.
- Hyperlink:** Shows a globe icon and a URL: <http://www.Wonderware.com>.
- Command:** Contains buttons for 'On', 'Open', 'Manual', and 'Message'.
- Text Box:** Shows numeric and alphanumeric outputs, input fields, and a multi-line text area.
- Bargraph:** Displays a vertical bar chart with green and black segments.
- Color:** Shows a red 'Off' button, a green circle, and a yellow arrow.

At the bottom, a status bar shows the date and time (05/21/2019 11:48:04), the current mode (Animations), and the number of active alarms (1 alarm(s) active).

## Benefits

- New demo Project.
- Installed as part of the Setup process.
- Same folder as the traditional PC Demo (C:\Users\Public\Public Documents\- Allows demonstrations for EmbeddedView.



# BLUE Open Studio

Version 8.1 + Service Pack 3 (v81.3.0)

# Enhanced Support

## HTML5 Remote Database Spy

### Benefits

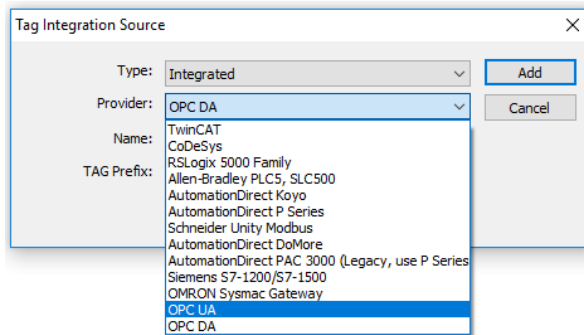
- The HTML5-based Remote Database Spy allows the user to monitor/set tags, execute expressions to troubleshoot projects remotely.
  - Set/Monitor tags remotely.
  - Execute expressions remotely.
  - Access Database Spy from any HTML5-compatible browser from PCs, Tablets, or Smart Phones (plug-in free).
  - Secure (TLS) connection with the server (firewall friendly) and built-in authentication.



Database Spy			
Tagname	Expression		
::::	second	49	GOOD
::::	minute	7	GOOD
::::	hour	17	GOOD
::::	time	17:07:49	GOOD

# Interoperability

## Tag Integration for third-party OPC UA and DA Servers



### Benefits

- Tag Integration drastically improves productivity and prevents typing errors allowing the user to browse remote tags instead of typing them when configuring the screens and other application tasks.
- Browse items from external OPC UA Servers while designing project interfaces.
- Automatically set up tag communications in the background.
- No need to open up worksheet and manually set tag communications.
- Includes tag integration for Schneider-Electric OPC. Factory Server (OFS), which supports tag-based PLCs.

## Support for {TagName} in the OPC XML/DA Configuration Interface



### Benefits

- Allows the user to change the connection settings for the OPC Server(s) dynamically during runtime.

A screenshot of a "Server Connection" dialog box. The dialog has a title bar with a close button (X). Inside, there is a "Connection Name" field with the text "Tanks". Below this is a "Settings" section. It contains a "Specification" dropdown menu set to "Data Access 2.XX". The "Host Name" field is set to "localhost" and has a "Refresh" button to its right. The "Server Url" field is set to "{TanksOPCConnection}" and also has a "Refresh" button to its right. There are empty text boxes for "User Name" and "Password". The "Ping Rate" is set to "60000" with "ms" to its right. At the bottom of the dialog are "Ok" and "Cancel" buttons.

## Enhanced support for Animations on Mobile Access Thin Clients (HTML5)



### Studio Mobile Access (SMA) Thin Clients

Platforms: Agnostic



Host: Web Browser agnostic



Technology: HTML5



### Benefits

- Continuous improvements in the HTML5 graphical interface (Mobile Access Thin Clients) provides a high level of portability and mobility to InTouch Edge HMI users.
- Support for suitable Animations (e.g., Visibility/Position, Resize) on the following objects: Alarm/Event Control, Grid Control, Trend Control, Push-button, List-Box, Smart Message.
- Support for rotated linked pictures.
- Support for button styles (Standard, 3D Sharp, 3D Soft), in addition to the OS Like style.

# BLUE Open Studio

Version 8.1 + Service Pack 2 (v81.2.0)

# Expanded OS Support

Two modern operating systems added to software support

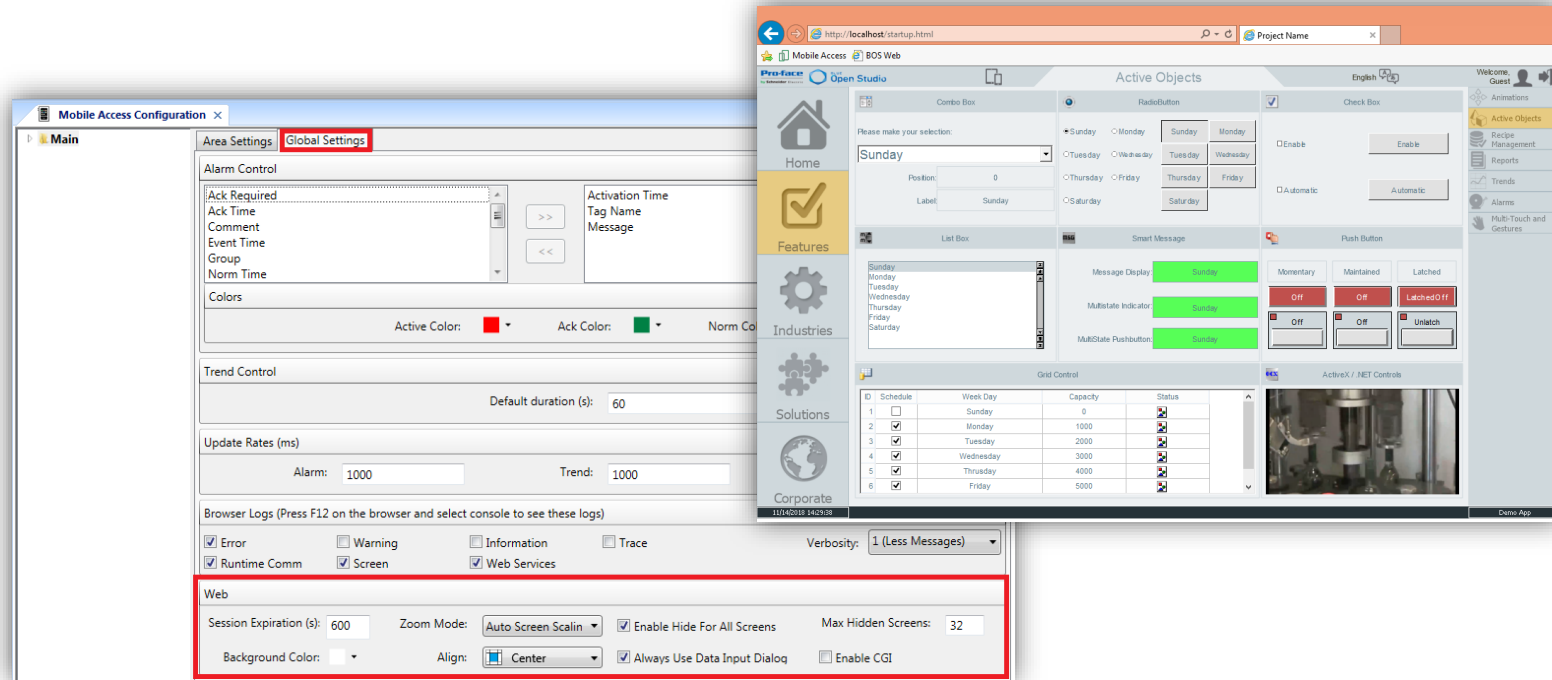


## Benefits

- Support of major operating systems used on PFA hardware & 3<sup>rd</sup>-party PCs.
- Both Runtime & Buildtime supported.

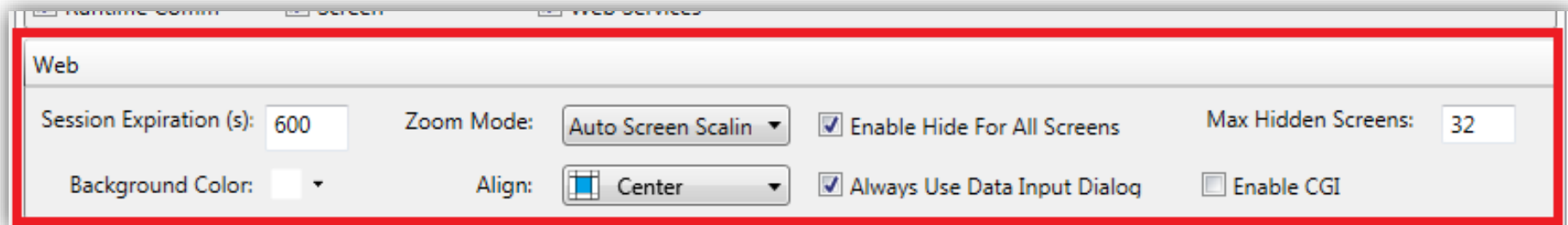
# SMA – Mobility

## Substantial Performance Enhancement



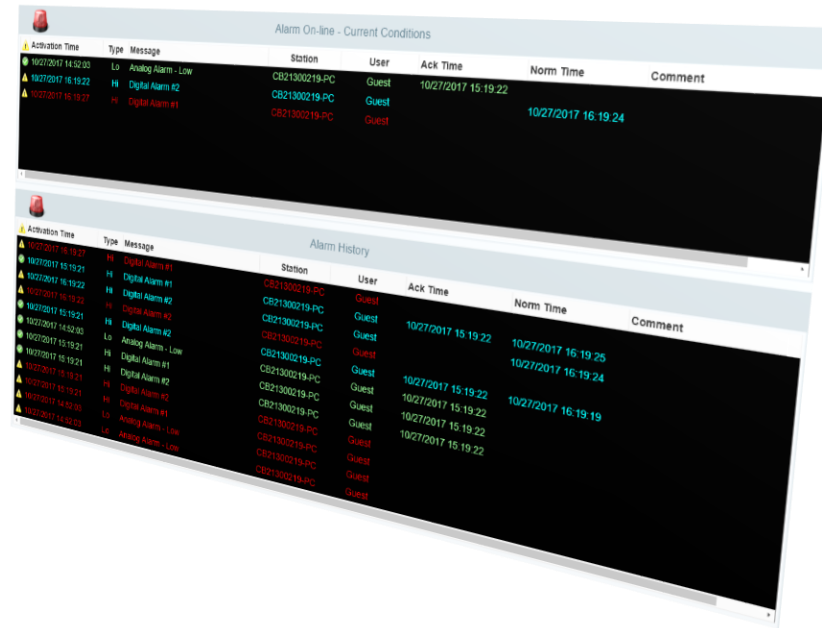
## Benefits

- The new "Hide screen" feature allows for faster switching among screens by saving the screen graphics in memory.





## Support for Alarm/Event Control on Studio Mobile Access Thin Clients (HTML5)



The screenshot displays two panels of alarm and event data. The top panel, titled 'Alarm On-line - Current Conditions', shows a table with columns for Activation Time, Type, Message, Station, User, Ack Time, Norm Time, and Comment. The bottom panel, titled 'Alarm History', shows a similar table with a larger number of entries.

Activation Time	Type	Message	Station	User	Ack Time	Norm Time	Comment
10/27/2017 14:52:00	Lo	Analog Alarm - Low	CB21300219-PC	Guest	10/27/2017 15:19:22		
10/27/2017 16:19:22	H	Digital Alarm #2	CB21300219-PC	Guest			
10/27/2017 16:19:21	H	Digital Alarm #1	CB21300219-PC	Guest		10/27/2017 16:19:24	

Activation Time	Type	Message	Station	User	Ack Time	Norm Time	Comment
10/27/2017 16:19:21	H	Digital Alarm #1	CB21300219-PC	Guest			
10/27/2017 16:19:21	H	Digital Alarm #1	CB21300219-PC	Guest			
10/27/2017 16:19:22	H	Digital Alarm #2	CB21300219-PC	Guest	10/27/2017 15:19:22		
10/27/2017 16:19:21	H	Digital Alarm #2	CB21300219-PC	Guest			
10/27/2017 14:52:00	Lo	Analog Alarm - Low	CB21300219-PC	Guest	10/27/2017 15:19:22	10/27/2017 16:19:25	
10/27/2017 15:19:21	H	Digital Alarm #1	CB21300219-PC	Guest		10/27/2017 16:19:24	
10/27/2017 15:19:21	H	Digital Alarm #2	CB21300219-PC	Guest	10/27/2017 15:19:22		
10/27/2017 15:19:21	H	Digital Alarm #1	CB21300219-PC	Guest	10/27/2017 15:19:22	10/27/2017 16:19:19	
10/27/2017 16:19:21	H	Digital Alarm #2	CB21300219-PC	Guest			
10/27/2017 14:52:00	Lo	Analog Alarm - Low	CB21300219-PC	Guest	10/27/2017 15:19:22		
10/27/2017 15:19:21	H	Digital Alarm #1	CB21300219-PC	Guest			
10/27/2017 15:19:21	H	Digital Alarm #2	CB21300219-PC	Guest			

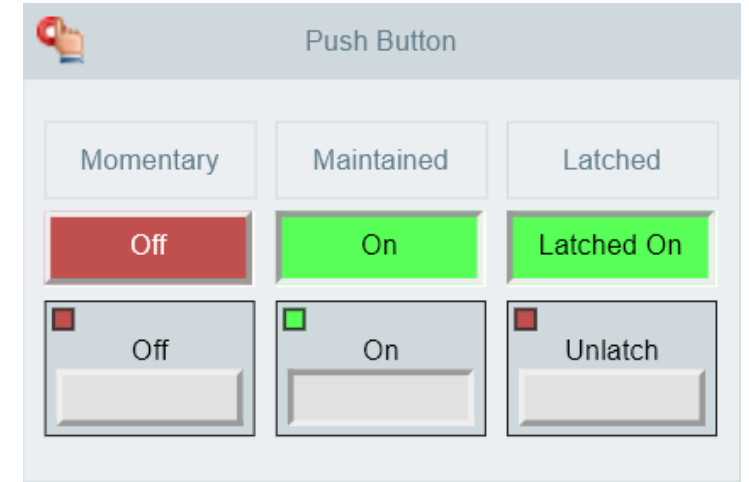
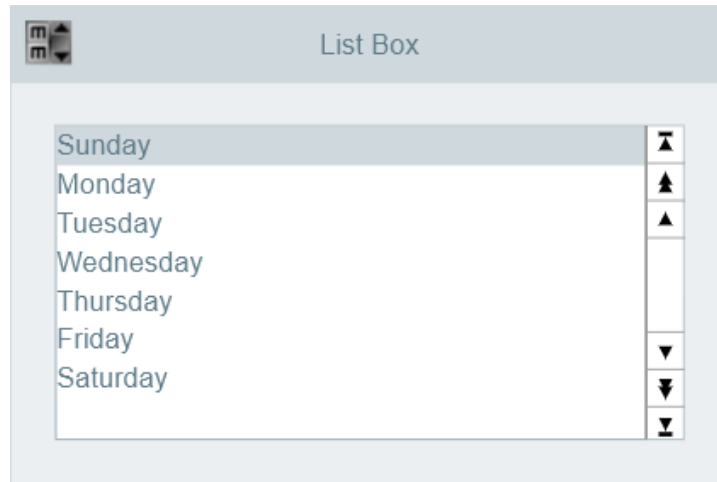
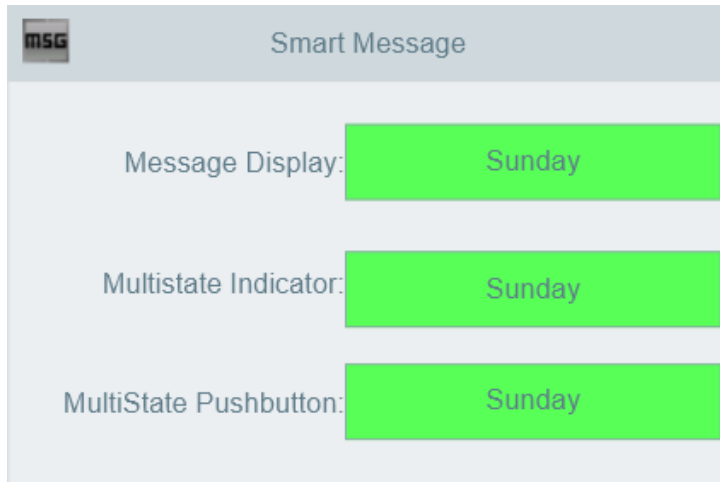


### Benefits

- Ability to visualize and interact (e.g.: acknowledge, filter, etc) with online and history alarms from devices based on different platforms and web browsers (HTML5), using a modern and intuitive user interface.
- Support for Proprietary Database format allows the user to not need an external relational database when saving Alarm and Event history and displaying it on Mobile Access thin clients.
- Enhanced filtering capabilities, allows user to have a better visibility of the alarms and events that are being presented.

# SMA – Mobility

## Support for Additional Active Objects on Studio Mobile Access Thin Clients (HTML5)

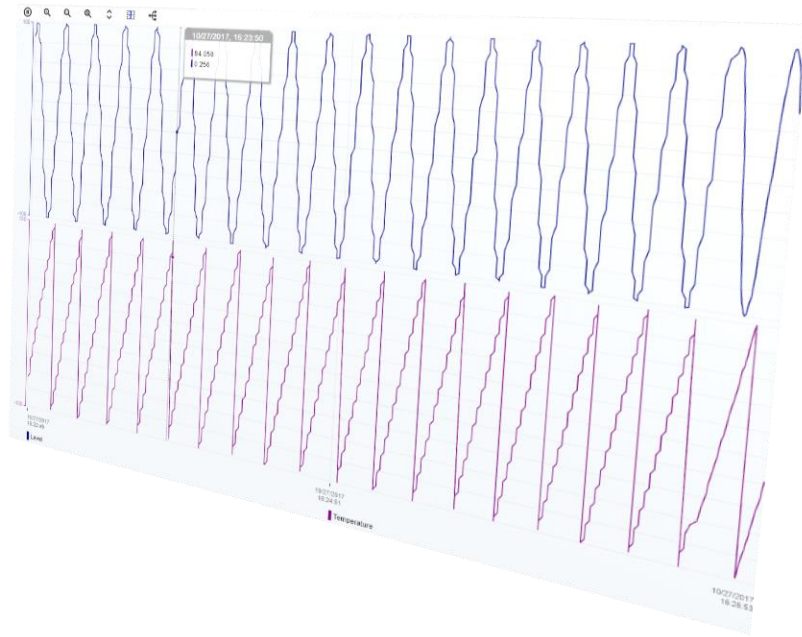


### Benefits

- Ability to visualize and interact with additional native objects from Mobile Access Thin Client stations (HTML5).

# SMA – Mobility

## Support for Multiple Section for Trend on Studio Mobile Access Thin Clients (HTML5)

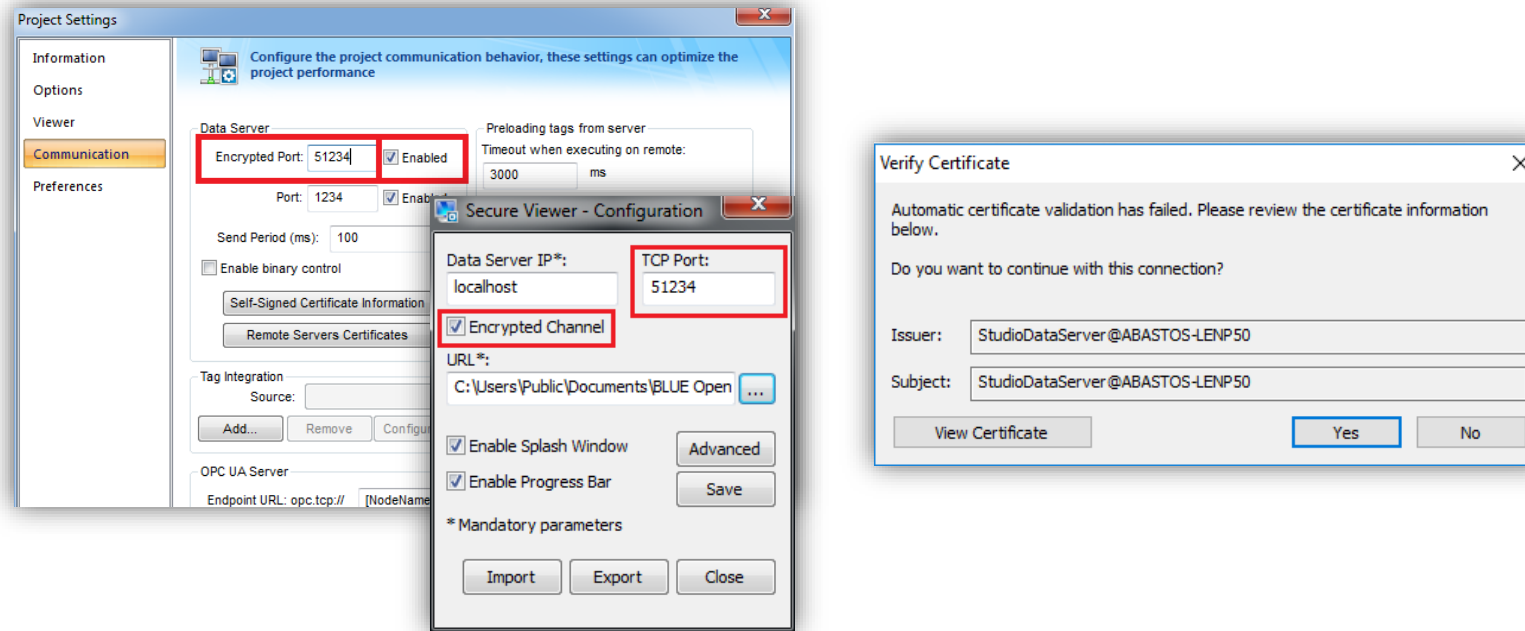


### Benefits

- Ability to enable or disable dynamically multiple sections to stack the pens automatically in independent Y axis.

# Secure Viewer – Security

## Enhanced Cybersecurity – Encrypted TLS 1.2 TCP Port

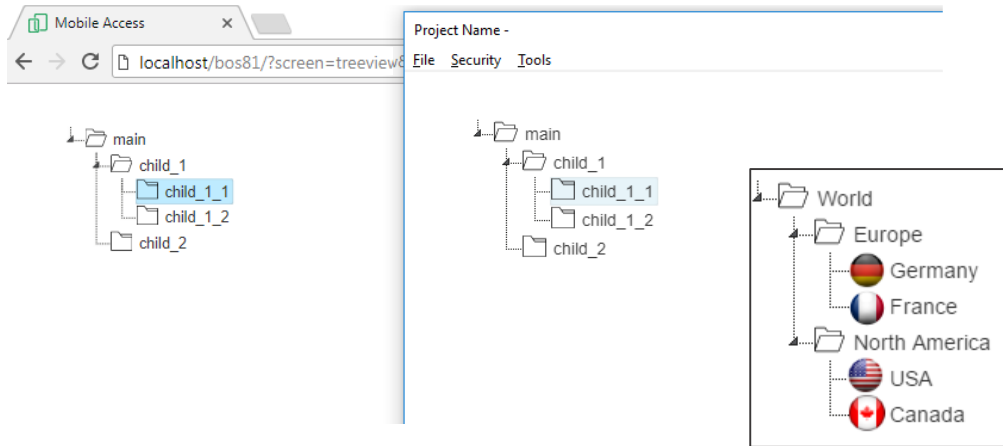


### Benefits

- All messages are encrypted using TLS 1.2.
- Certificate management help the decision making process on which clients can connect to the Servers.
- Easy to configure, yet powerful protection.

# Custom Widgets – Additions

## Tree View



## Full Calendar

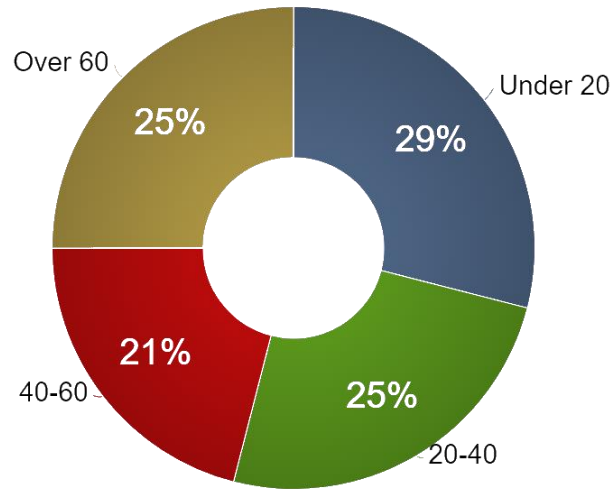
	6/5/2016	6/6/2016	6/7/2016	6/8/2016
9 AM				
10 AM	Event 1		Event 3	
11 AM		Event 2		
12 PM				
1 PM				
2 PM			Event 4	
3 PM				
4 PM				
5 PM				

## Benefits

- The Tree View custom widget allows the user to build and manipulate different nodes through a hierarchical graphical interface, with full support for both Viewer and Mobile Access.
- The Calendar custom widget allows the user to build and manipulate events on a calendar with the precision of minutes.

# Custom Widgets – Additions

## Pie Chart



## Image List



## Benefits

- Allows users to show their data in a Pie chart or Donut charts.
- Image List custom widgets allows users to display a images from different formats, including animated GIFs, animated PNGs, SVG, among many others.
- Allows the user to set a list of images and control the frequency used to switch them, creating advanced animations and effects.
- Allows creating color masks that will be applied dynamically on top of the original image.

# Custom Widgets – Additions

## Web Browser

### Benefits

- The WebBrowser is a simple Custom Widget that allows the user to host external content inside of their applications.
- It can be used to load:
  - Webpages
  - PDF files
  - MP4 videos
  - Any other content supported by the web browsers.

The screenshot displays a Pro-face dashboard with various widgets. At the top, there are tabs for 'Machine Selection' and 'Period Selection'. The 'Machine Selection' tab shows five machine icons. The 'Period Selection' tab shows 'Current Shift (2)', 'Current Day (Monday)', 'Current Week (14)', 'Current Month (April)', and 'Current Year (2018)'. Below these are four main performance metrics: Availability (86.59%), Performance (56.77%), Quality (90.47%), and OEE (44.47%). A 'Six Big Losses' chart is also present. The dashboard is divided into several sections: 'Time', 'Speed', and 'Production'. Each section contains a table of data and a corresponding bar chart. A green arrow points to a 'Web Browser' widget displaying a Wikipedia article titled 'Automation'. The article text is partially visible, discussing the definition of automation and its applications in various industries.

Machine Selection	Period Selection	Current Shift (2)	Current Day (Monday)	Current Week (14)	Current Month (April)	Current Year (2018)
Availability	Performance	Quality	OEE	Six Big Losses		
86.59 %	56.77 %	90.47 %	44.47 %	Operation Time		
				Non-Loss Time		
				BreakDowns		
				Long Stops		
				Speed Loss		
				Short Stops		
				Startup Rejects		
				Production Stops		

Time			
Idle Time	16:00:00	66.67 %	Idle Time
Operation Time	08:00:00	33.33 %	Operation Time
Total Time	24:00:00	100.00 %	

Speed			
Missed Speed	53 units/min	44.11 %	Missed Speed
Actual Speed	67 units/min	55.89 %	Actual Speed
Maximum Speed	120 units/min	100.00 %	

Production			
Bad Units	1508 units	5.56 %	Bad Units
Good Units	25616 units	94.44 %	Good Units
Total Units	27124 units	100.00 %	

WIKIPEDIA: Automation

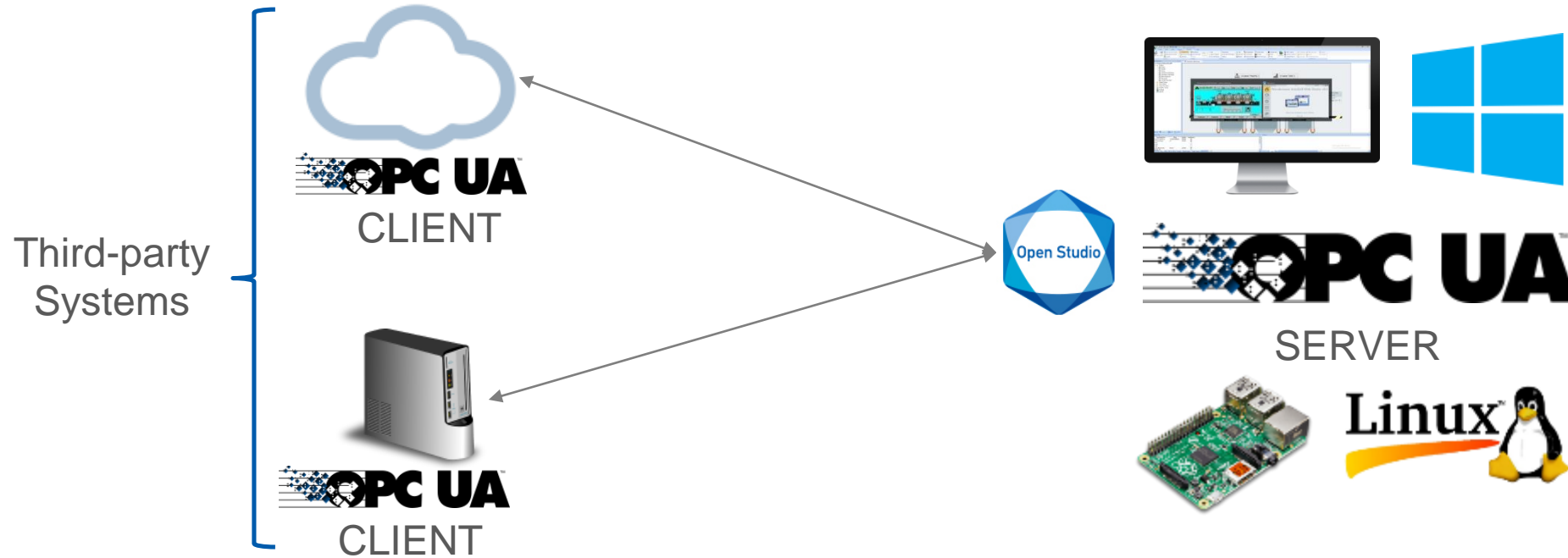
It has been suggested that *automatic control* be merged into this article. (Discuss) Proposed since March 2018.

Automation can be defined as the technology by which a process or procedure is performed without human assistance.<sup>[1]</sup>

In other words, **Automation**<sup>[2]</sup> or **automatic control**, is the use of various control systems for operating equipment such as machinery, processes in factories, boilers and heat treating ovens, switching on telephone networks, steering and stabilization of ships, aircraft and other applications.

# Interoperability

## Native OPC UA Server for Windows and Linux



### Benefits

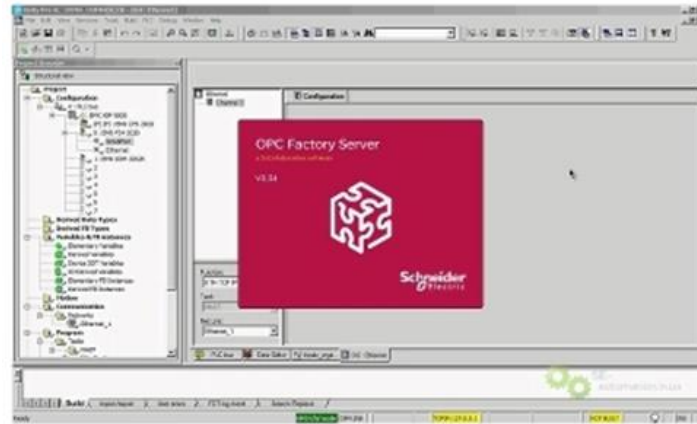
- Native OPC UA Server allows the Full Runtime to exchange data directly with external systems, such as ERPs, third-party HMI/SCADA systems, or Cloud-based systems, which provide a native OPC UA Client.



# Interoperability

## Schneider-Electric OPC Factory Server (OFS) Native Integration

BLUE Line Management Lite SCADA  
**Open Studio**

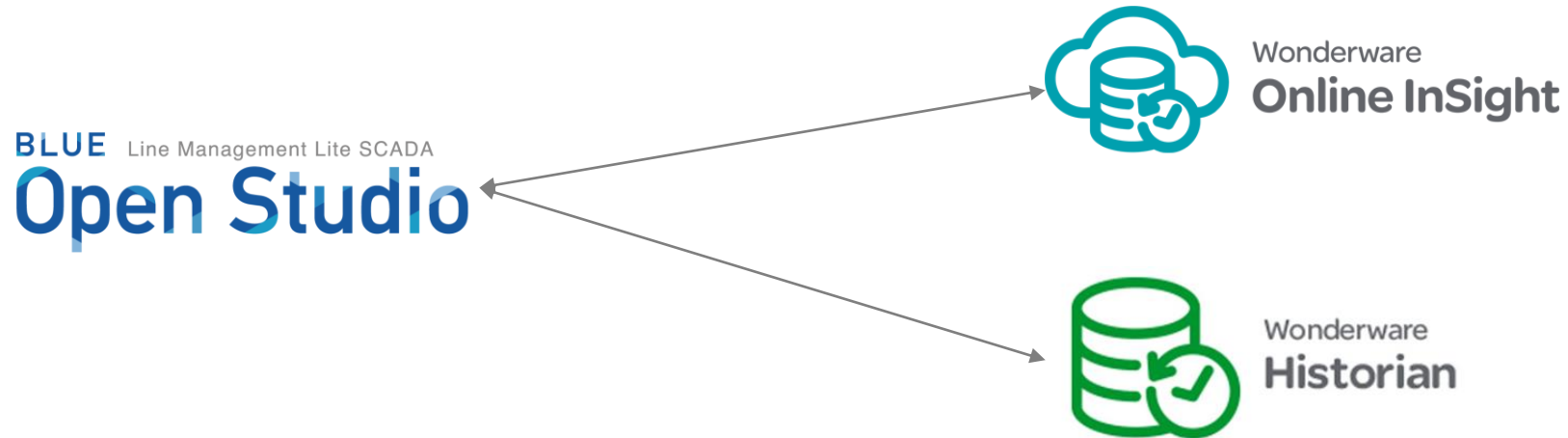


### Benefits

- Ability to communicate with Tag-based Schneider-Electric PLCs through the OFS (OPC Factory Server).

# Interoperability

## Native interface for Wonderware Historian and Wonderware Online Insight

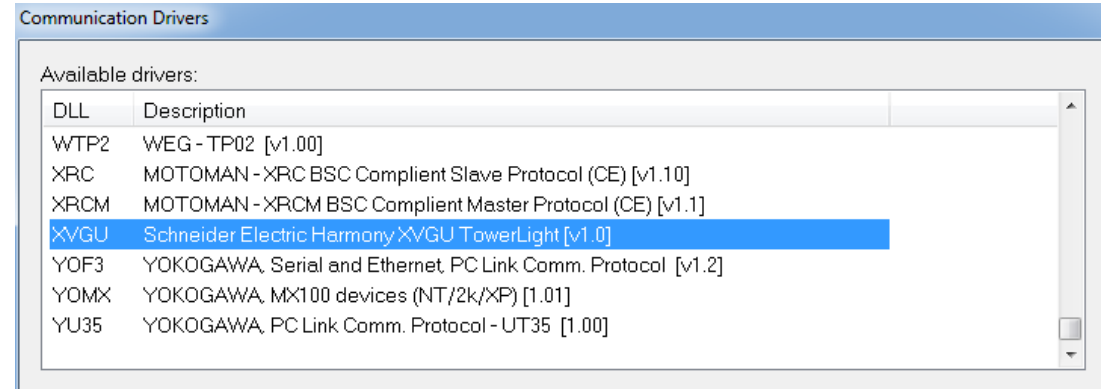


- **Benefits**

- Ability to communicate with Wonderware Historian & Online Insight without any additional driver(s) required.

# Interoperability

## Support for EZ Series USB Tower Light (Driver: XVGU)



### Benefits

- Allows direct (integrated) communication with the USB tower light (USB driver still required).
- Provides detailed instructions on how to configure & address the USB stacklight.

# Interoperability

## Support for Electrical Protocols



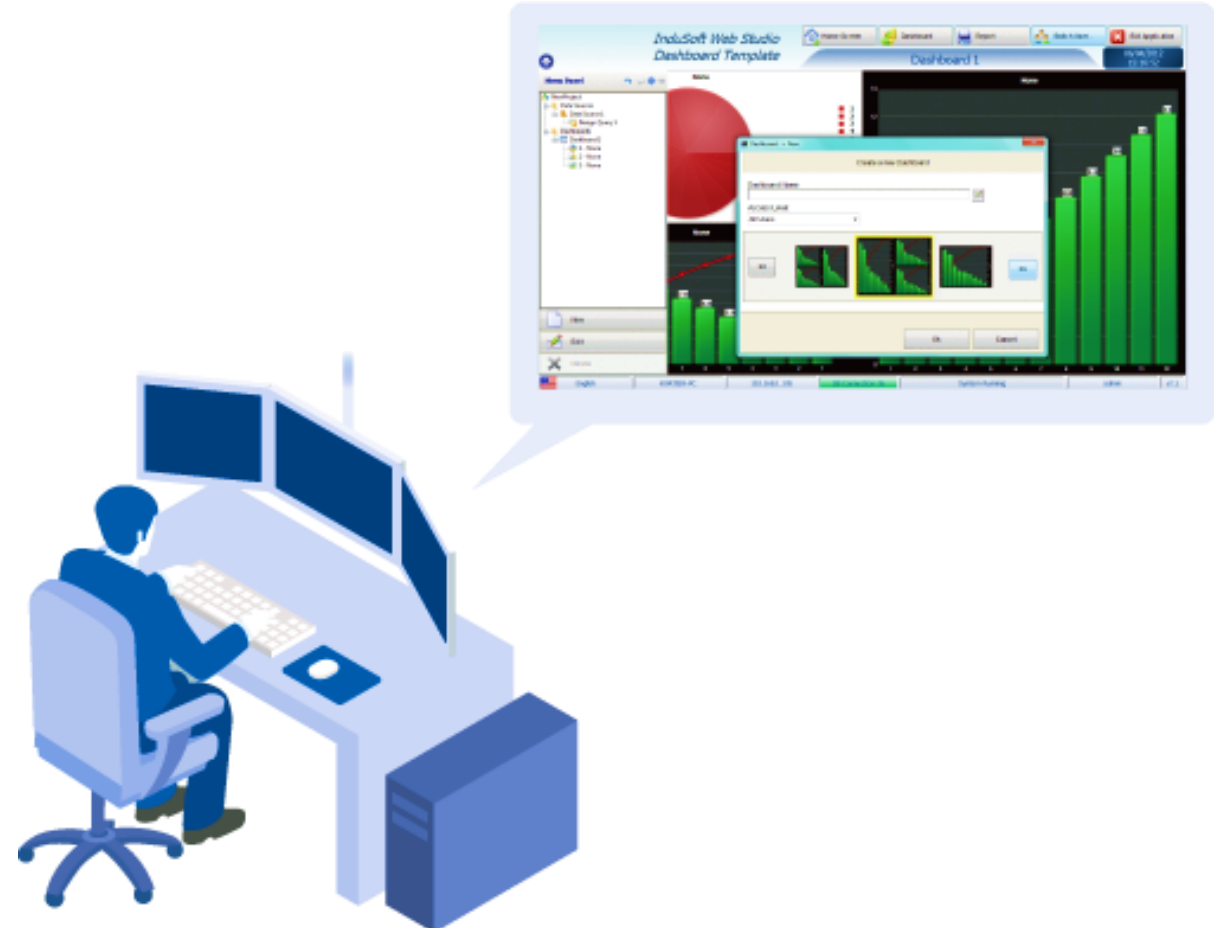
## Benefits

- Native communication drivers for the electrical protocols (DNP/IEC) available for all licenses, no longer an add-on.

## BI-Dashboard (Business Intelligence Dashboard) Template

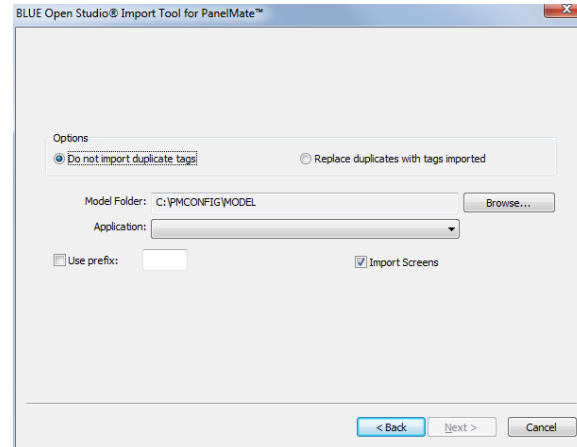
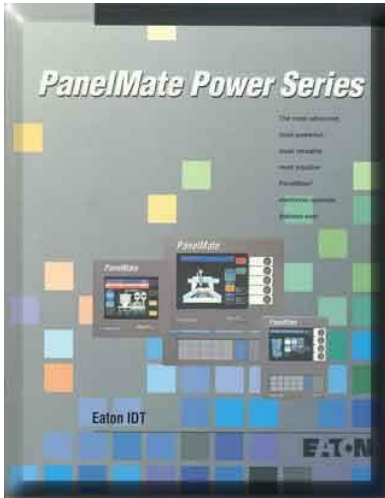
### Benefits

- Through intuitive and customizable configurations, the Business Intelligence Dashboard Template allows retrieving information from Microsoft Access or SQL Server and displays it in meaningful easy-to-understand dashboards.
- This add-on product is built as a BOS application. Users can use this project as a stand-alone tool or merge it with another project.



# Migration Tools

## Improvements to the PanelMate© Import Wizard



BLUE Line Management Lite SCADA  
**Open Studio**

## Benefits

- Uses more suitable font sizes when converting projects.

# Expanded Part Numbers

## New dedicated part numbers for SP5000 series



## Benefits

- Quickly & easily order a SP5000 with BLUE Open Studio preloaded.
- Part Numbers:
  - SP Open Box with BLUE Open Studio v8.0 + SP2 = **PFXSP5B41S8A**
  - SP Open Box with BLUE Open Studio v8.1 + SP2 = **PFXSP5B41S8B**

# Expanded Licensing

## New Software Upgrade Part Numbers Added

PFXBOSVU64KRT	Version Upgrade License for Supervision (Runtime)
PFXBOSVU32KRT	Version Upgrade License for Line Management Plus (Runtime)
PFXBOSVU4KRT	Version Upgrade License for Line Management (Runtime)
PFXBOSVU1KRT	Version Upgrade License for Machine Control (Runtime)
PFXBOSVU64KBT	Version Upgrade License for Supervision (Buildtime)
PFXBOSVU32KBT	Version Upgrade License for Line Management Plus (Buildtime)
PFXBOSVU4KBT	Version Upgrade License for Line Management (Buildtime)
PFXBOSVU1KBT	Version Upgrade License for Machine Control (Buildtime)
PFXBOS3PVU64KRT	Version Upgrade License for Supervision For 3rd-Party PC (Runtime)
PFXBOS3PVU32KRT	Version Upgrade License for Line Management Plus For 3rd-Party PC (Runtime)
PFXBOS3PVU4KRT	Version Upgrade License for Line Management For 3rd-Party PC (Runtime)
PFXBOS3PVU1KRT	Version Upgrade License for Machine Control For 3rd-Party PC (Runtime)

## Benefits

- Faster upgrade process & execution via predefined processes & part numbers.
- Provides users with various options for both software & license upgrades.



# Simplified Licensing

## New Licensing Model Streamlines Add-Ons / Ordering

PFXBOSPBTk – BLUE Open Studio PanelBuilder32 Import Wizard  
PFXBOSPMTk – BLUE Open Studio PanelMate Import Wizard  
PFXBOSFTTk – BLUE Open Studio FactoryTalk ME/SE Import Wizard



PFXBOSTk – BLUE Open Studio Import Wizard License

PFXBOSMA4LV80 – BLUE Open Studio Mobile Access (4 Licenses)  
PFXBOSMA8LV80 – BLUE Open Studio Mobile Access (8 Licenses)  
PFXBOSSV4LV80 – BLUE Open Studio Secure Viewer (4 Licenses)



PFXBOSTC – BLUE Open Studio Thin Client License (1 License)

## Benefits

- All Import Wizards (PanelBuilder™, PanelMate™, and FactoryTalk™) are enabled in the same add-on.
- License no longer restricts the type of Thin Clients, nor pre-defined packages of Thin Clients. The user can define the exact number of maximum Thin Clients that should be concurrently supported by the license.
- The maximum number of simultaneous Thin Client connections is 128.
- **All licenses will support an unlimited number of concurrent communication drivers (still limited by physical constraints).**
- **Native communication drivers for the electrical protocols (DNP/IEC) available for all licenses – no longer an add-on.**

# Important Notes

---

- **Major version update**
  - This update is a paid upgrade, special pricing will be available for recently purchased versions of v8.0.
  - Version 8.0 will still be available for download, along with licenses.
  - The DVD option of the BOS Buildtime will only be available for version 8.1
  - The IPC recovery media will contain BOS v8.1.
- **Licensing Procedures**
  - BLUE Open Studio does not use the Schneider-Electric One Licensing system yet.
- **Version Interactions**
  - v8.1 runtime will need a v8.1 buildtime application.
  - v8.0 runtime will only be able to run a v8.0 application.

# BLUE Open Studio

Version 8.0 + Service Pack 2 (v80.2.0)

# Additional Pro-face IPC Support

Expanding our software & hardware bundling offer to the SP5000 Open Box



## Benefits

- Easily upgradable front end (display) seamlessly works with BLUE Open Studio's scalability feature.
- Provides lower-cost model IPC with BLUE Open Studio included.

# USB Hard Key



## Benefits

- Easy to use.
- Portable license able to be used on multiple installations.
- Easily upgradeable, uses the same process as the soft keys.

# Expanded Licensing

Support for 3rd-Party PCs with both Hardkeys & Softkeys

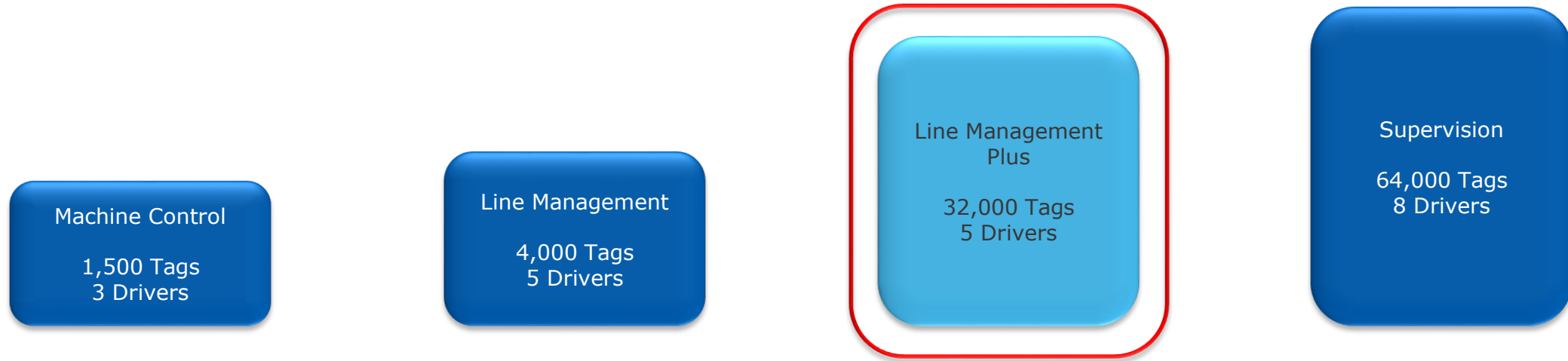


## Benefits

- Easy to use.
- Portable license able to be used on multiple installations.
- Easily upgradeable, uses the same process as the soft keys.
- Able to combine both development & runtime on the same license.

# Expanded Licensing

## Line Management Plus (32,000 Tag) License Added



### Benefits

- Additional license intended for mid-sized applications.
- Provides a fill for the license gap between Line Management (4K tags) & Supervision (64K tags).

# Expanded Licensing

## New License Upgrade Part Numbers Added

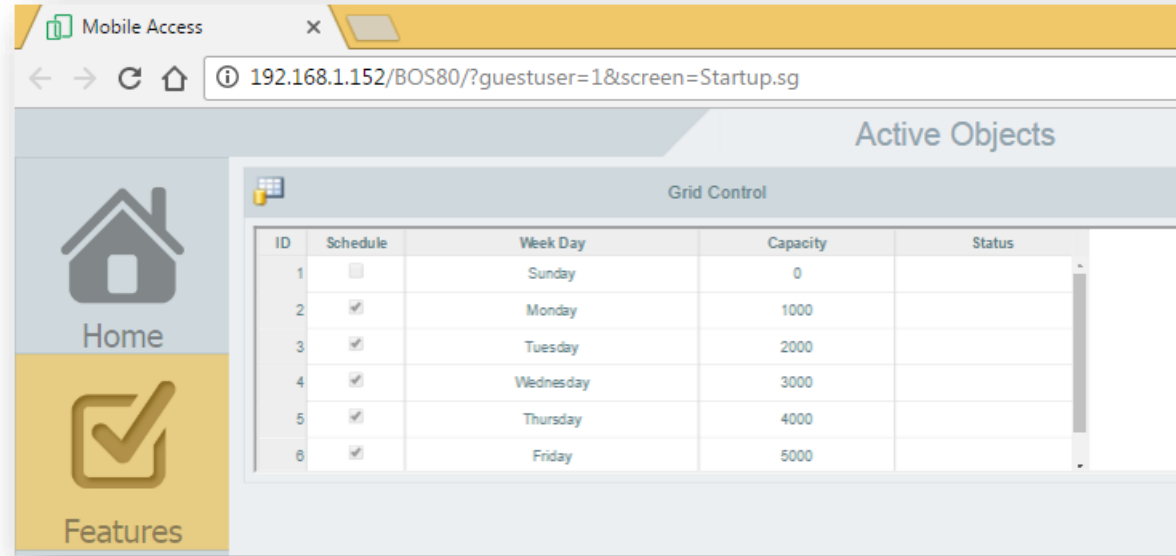
PFXBOS3PUG64KRT	Upgrade from Line Management Plus to Supervision for 3rd Party PC (Runtime)
PFXBOS3PUG32KRT	Upgrade from Line Management to Line Management Plus for 3rd Party PC (Runtime)
PFXBOS3PUG4KRT	Upgrade from Machine Control to Line Management for 3rd Party PC (Runtime)
PFXBOSUG64KBT	Upgrade License (Build time) from 32000 tags to 64000 tags
PFXBOSUG32KBT	Upgrade License (Build time) from 4000 tags to 32000 tags
PFXBOSUG4KBT	Upgrade License (Build time) from 1500 tags to 4000 tags
PFXBOSUG64KRT	Upgrade License (Runtime) from 32000 tags to 64000 tags
PFXBOSUG32KRT	Upgrade License (Runtime) from 4000 tags to 32000 tags
PFXBOSUG4KRT	Upgrade License (Runtime) from 1500 tags to 4000 tags
PFXBOSUG8MA	Upgrade License (Mobile Access) from 4 to 8 Licenses

## Benefits

- Faster upgrade process & execution via predefined processes & part numbers.
- Provides users with various options for both software & license upgrades.



## Support for Grid Control on Studio Mobile Access Thin Clients (HTML5)



### Benefits

- Display information from any SQL Relational database using Studio Mobile Access (SMA) Thin Clients, hosted on web browsers that support HTML5.
- Easily create dynamic web-based reports using the native Grid control.
- Publish screens from applications designed in previous version of the product and visualize the Grid control on SMA Thin Clients.

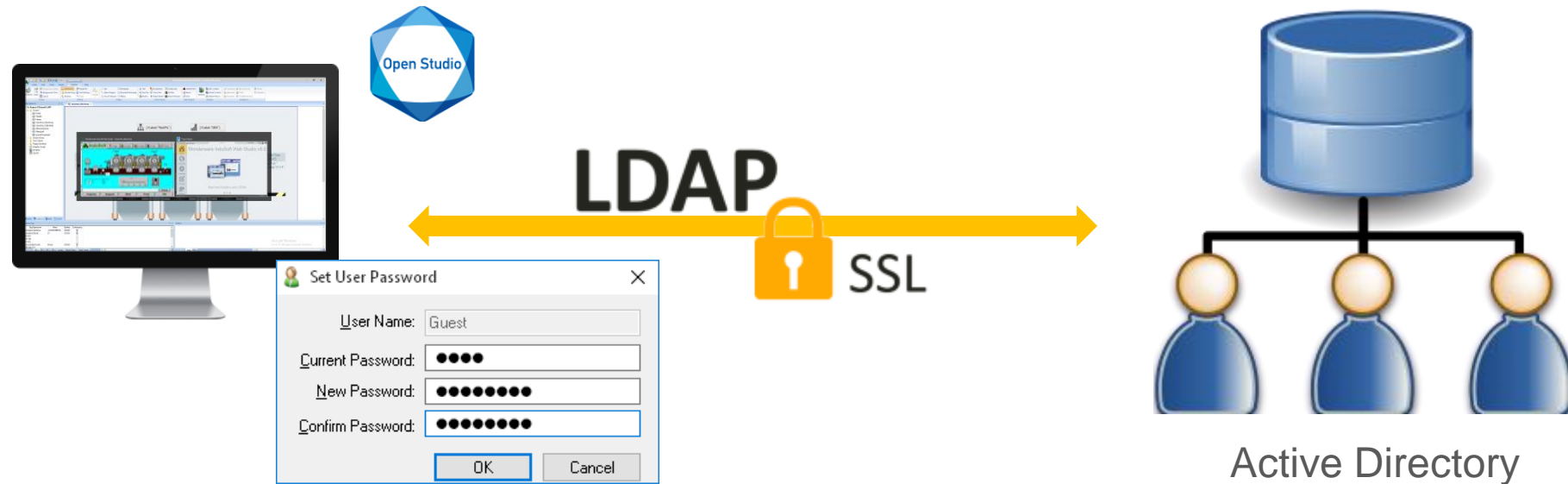
## Support for MQTT Driver Encryption & Authentication



### Benefits

- Layer to support encryption (SSL) and Authentication (User Name and Password) for native communication drivers that implement protocols where these interfaces are applicable, such as MQTT.
- Provides an easy configuration interface to improve the security of communication interfaces implemented by the product.

## Password Change via LDAP



## Benefits

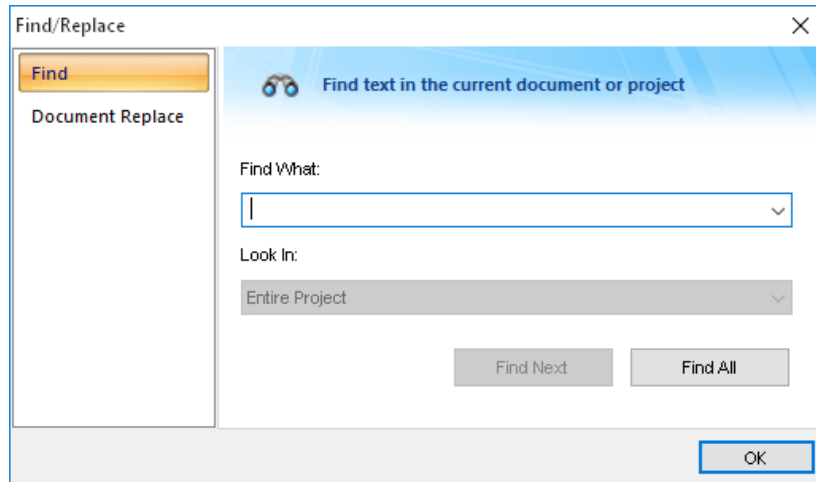
- Support to set/change the Active Directory's users passwords from the application, during runtime, using the built-in function `$SetPassword()`.
- Support the Password Aging policy configured on Active Directory, prompting the user to change the password during runtime.
- Improved integration with Active Directory through the native LDAP interface.

# BLUE Open Studio

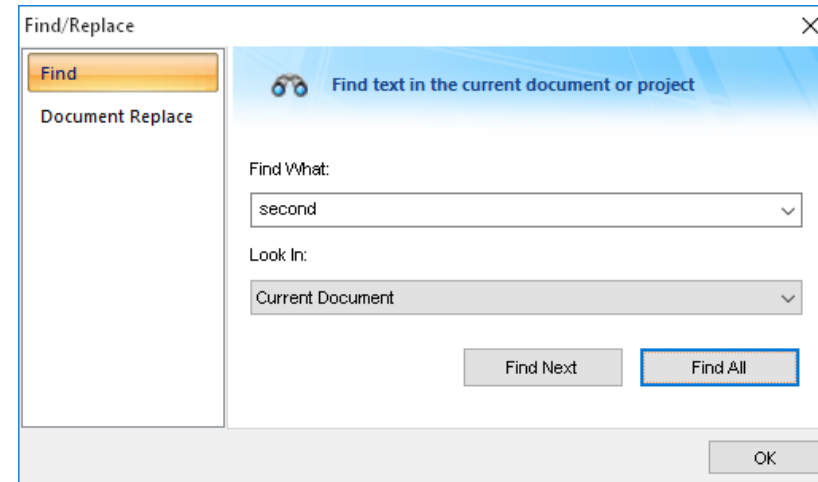
Version 8.0 + Service Pack 2 (v80.1.1)

# Text Find – IDE Productivity

## Global Text-Based



## Document Text-Based Find/Replace

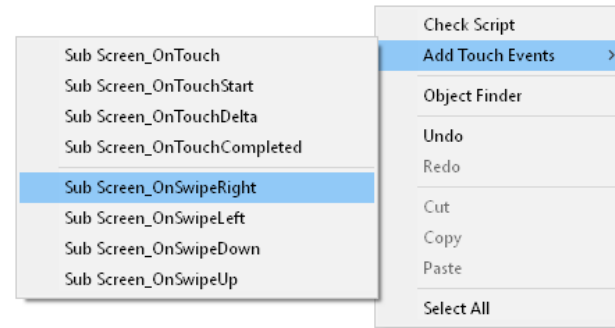


## Benefits

- High performance when developing, maintaining, and troubleshooting applications. Results displayed immediately, even in large projects.
- Ability to look for any references throughout the project and replace terms efficiently and reliably.

# Screen Gestures – Swiping

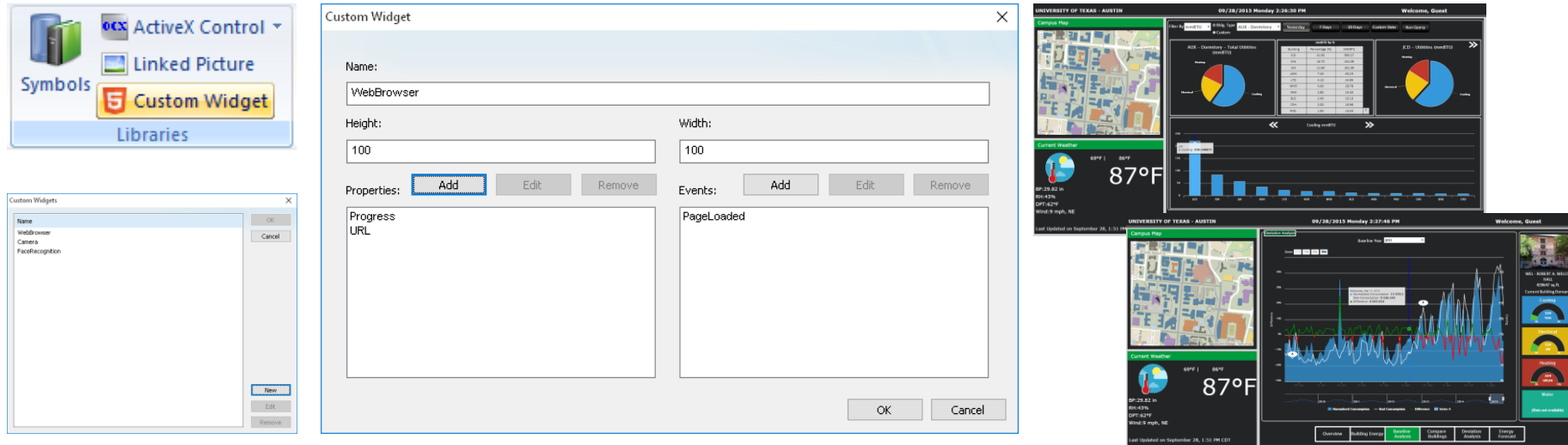
```
1 'Variables available on this screen can be declared and initialized here.  
2  
3  
4 'Procedures available on this screen can be implemented here  
5  
6  
7 'This procedure is executed just once when this screen is open.  
8 Sub Screen_OnOpen()  
9  
10 End Sub  
11  
12 'This procedure is executed continuously while this screen is open.  
13 Sub Screen_WhileOpen()  
14  
15 End Sub  
16 |  
17 'This procedure is executed just once when this screen is closed.  
18 Sub Screen_OnClose()  
19  
20 End Sub  
21  
22 'This procedure is executed when swipe right on screen.  
23 Sub Screen_OnSwipeRight()  
24   $Open("Screen2")  
25 End Sub  
26  
27 'This procedure is executed when swipe left on screen.  
28 Sub Screen_OnSwipeLeft()  
29   $OpenPrevious()  
30 End Sub
```



## Benefits

- Easily identify swiping gestures on the screen and trigger actions accordingly. For example, navigate through screens swiping on the touch screen interface.

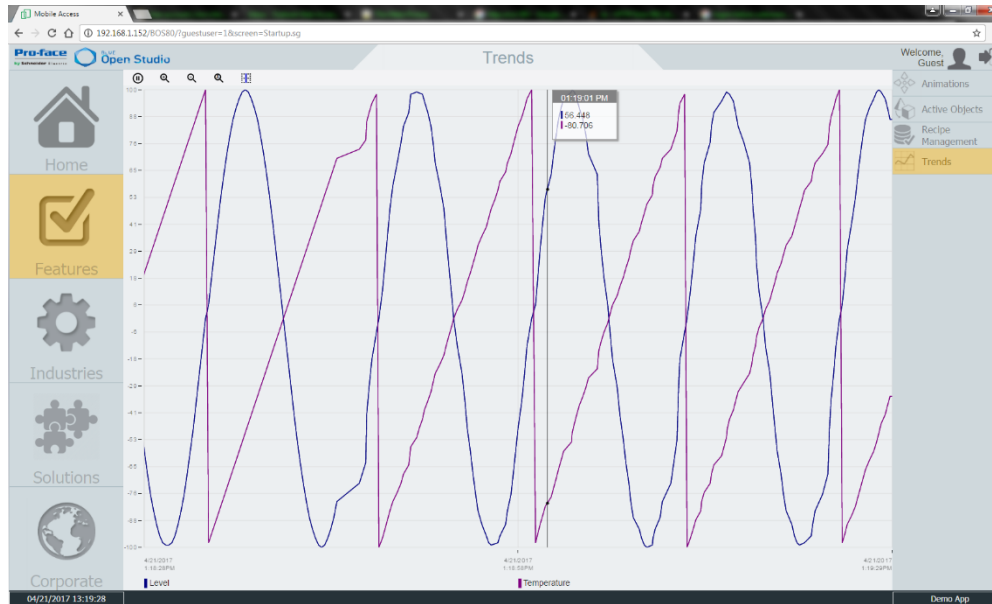
## Openness and Flexibility



## Benefits

- Ability to integrate third-party web-based controls into the HMI/SCADA project screens.
- Engineers with HTML/JScript can easily create Custom Widgets and define Properties/Events through the IDE. Users can use the Custom Widgets on the local Viewer and Thin Clients.
- Ability to create an ecosystem where different users build and share library of controls that can be easily integrated into application and accessible through multiple platforms.

## Support for Trend Control on Studio Mobile Access Thin Clients (HTML5)

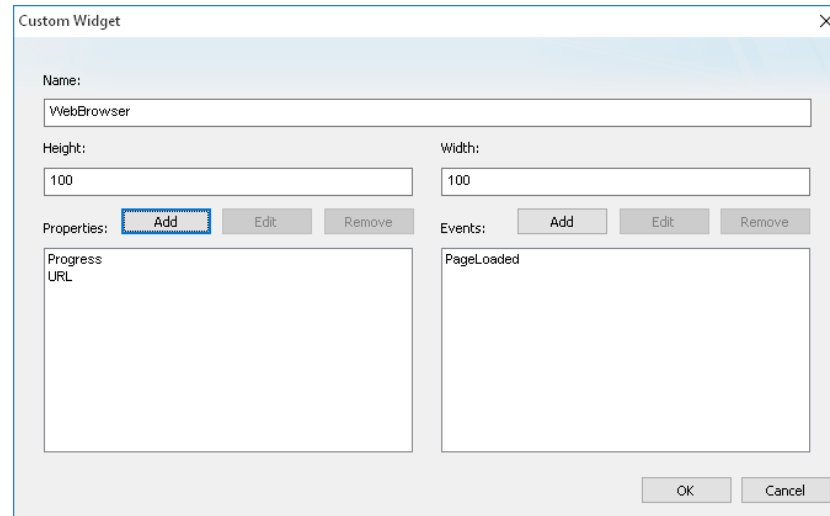
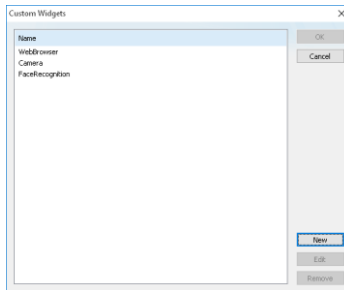


### Benefits

- Ability to visualize online and history data from tag values on multiple devices based on different platforms and web browsers (HTML5), using a modern and intuitive user interface.



## Support for Custom Widgets



## Benefits

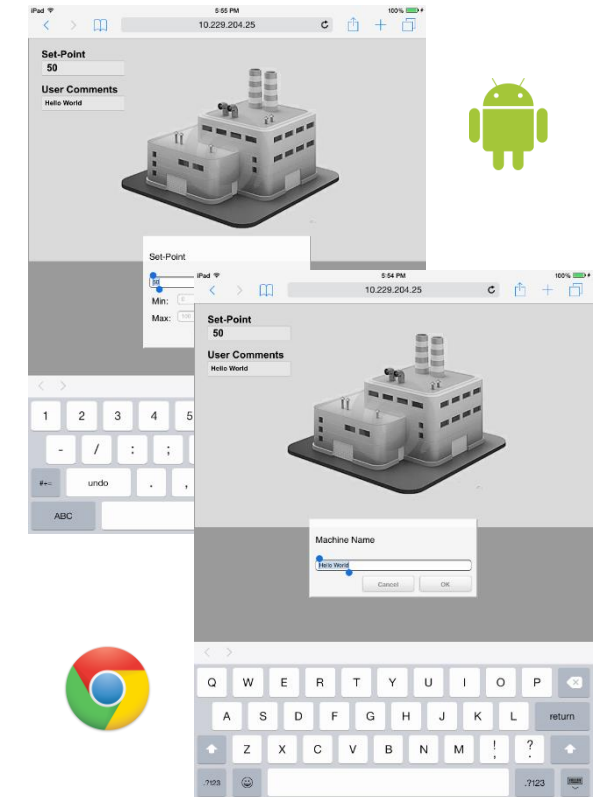
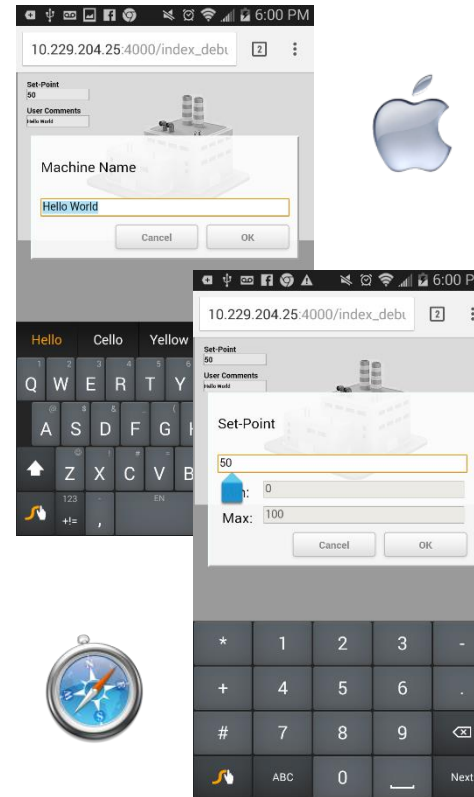
- Users can use the Custom Widgets on multiple devices based on different platforms and web browsers (HTML5), using a modern and intuitive user interface.

# SMA – Mobility

## Data Input with Native Virtual Keypad/Keyboard

### Benefits

- Support the mobile device's language.
- Consistent with the native virtual keyboard provided by the mobile device's operating system.
- Support for both numeric and alphanumeric input.



## Zoom Modes

### Benefits

- Allow the user to select the zoom mode that best fits the project on different platforms and devices.
- Single Screen Scaling option provides backward compatibility to behavior available in previous versions.

Web

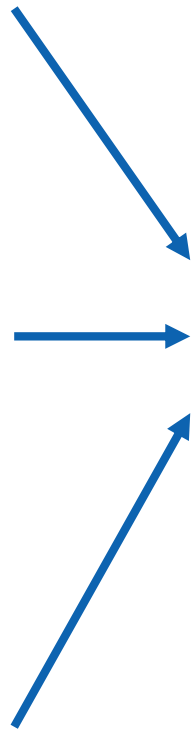
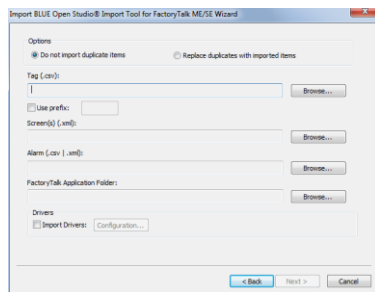
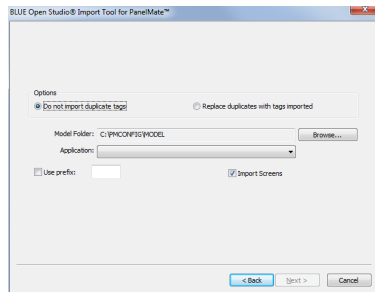
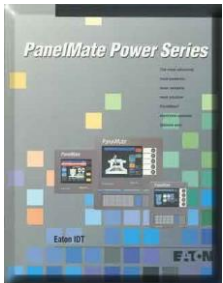
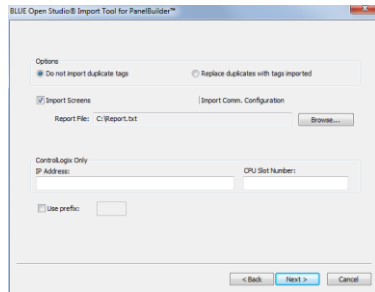
Session Expiration (s):

Zoom Mode:

- Disabled
- Auto Screen Scaling
- Custom Zoom
- Single Screen Scaling

# Migration Tools

## Import Wizard for PanelBuilder32© / PanelMate© / FactoryTalk™ ME/SE (Add-Ons)



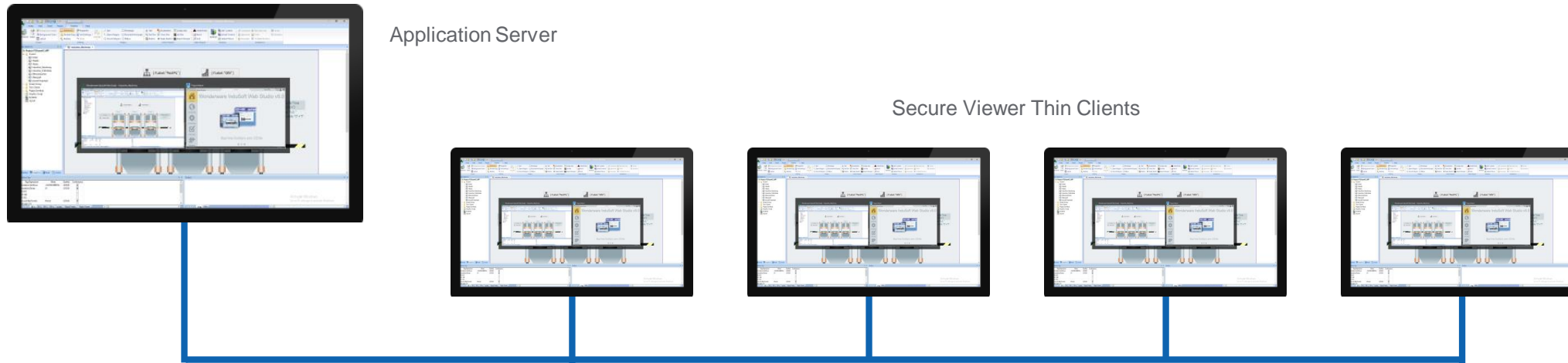
BLUE Line Management Lite SCADA  
**Open Studio**

Minimize cost of migration from legacy applications to BLUE Open Studio by automatically converting applications to BOS (graphical interface, communication interface, tags, etc.).

**Note:** Manual adjustments can be done after executing the automatic conversion.

# Secure Viewer Thin Client

## Expandable Operation & Monitoring with a Native Viewer



### Benefits

- Access the application from any computer with a small, standalone Thin Client.
- Operates as an extension of the runtime (Viewer).
- Span multiple screens/workstations with a single application.

## New and Updated Communication Drivers and Tag Integration

MQTT → Industry 4.0

KAWR → Robotics

SNMP → IT

SITIA → PLC + Tag Integration

20+ Updated drivers



### Benefits

- Enable integration of multiple devices and systems from the plant-floor to the ERP/Cloud in a seamless manner.
- Increase productivity and quality through native tag integration for tag-based devices.

# How to Contact Pro-face America

# How to Contact Pro-face America



## General Contact Information

Pro-face America  
1050 Highland Drive, Suite D  
Ann Arbor, MI 48108  
Phone: 800-289-9266  
Fax: 734-864-7347  
Email: [customercare@profaceamerica.com](mailto:customercare@profaceamerica.com)

## Customer Service/Inside Sales:

- Orders and order status
- Product Lead Time
- Warranty and Repair

**Phone:** 800-289-9266 (option 1)  
**Fax:** 734-864-7347  
**Customer Care:** [customercare@profaceamerica.com](mailto:customercare@profaceamerica.com)  
**Leadtime:** [leadtime@profaceamerica.com](mailto:leadtime@profaceamerica.com)  
**Repair (RMA):** [rmasupport@profaceamerica.com](mailto:rmasupport@profaceamerica.com)

## Application Technical Support\*:

- Product Support
- Product Migrations
- Product Documentation Help

**Phone:** 800-289-9266 (option 2)  
**Fax:** 734-864-7347  
**Support:** [support@profaceamerica.com](mailto:support@profaceamerica.com)

\*Visit our [technical support](#) web site for manuals, drivers, and product FAQs.





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by **Schneider** Electric

**30<sup>th</sup>**  
GP Series  
ANNIVERSARY