



VAN METER



smart

SOLUTIONS SUMMIT

VISUALIZATION FOR VISIONARIES

WELCOME



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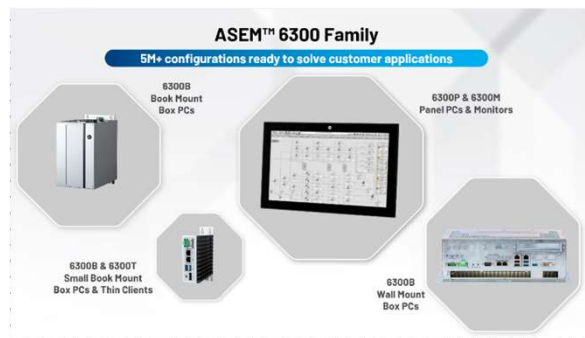


DOMINIQUE HAIN

Associate Technical Consultant,
Rockwell Automation

ASEM™ PORTFOLIO

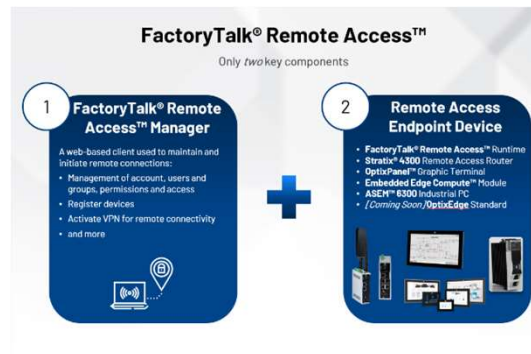
ASEM joins the Rockwell Automation family in 2020



HARDWARE (PART 1)

Initial focus on ASEM hardware

Introduced ASEM 6300 with an eventual goal is to consolidate all IPCs into one brand.



SOFTWARE (PART 2)

UBIQUITY® was introduced as FactoryTalk® Remote Access™ and includes the Stratix® 4300 Remote Access™ Router.



SOFTWARE (PART 3)

UNIQUO was introduced as FactoryTalk® Optix™. A new visualization platform to complement the existing portfolio.

A VISUALIZATION PORTFOLIO WITH THE RIGHT HMI SOLUTION FOR ANY NEED



VIEW DESIGNER PANELVIEW™ 5000

Machine Level HMI

- Premier integration with ControlLogix® + I/O high-speed jog functionality
- Design-time software included with Studio 5000®
- Automatic diagnostics and Logix alarming



FACTORYTALK VIEW ME PANELVIEW™ PLUS

Machine Level HMI

- ControlLogix® & 3rd party controllers via Kepware
- Common design-time across all PanelView Plus products and IPCs
- Best migration for PanelBuilder32



FACTORYTALK VIEW SE ON A WINDOWS PC

Scalable HMI

- PlantPAx® Modern DCS
- Fully distributed with redundancy
- ControlLogix & 3rd party controllers via Kepware
- Best migration for RSVIEW®32



FACTORYTALK OPTIX OPTIXPANEL™

Scalable HMI

- Cloud-enabled through FactoryTalk® Hub™
- Native 3rd party and MQTT connectivity
- OPC/UA interoperability
- Web clients, remote management/access

Simplicity

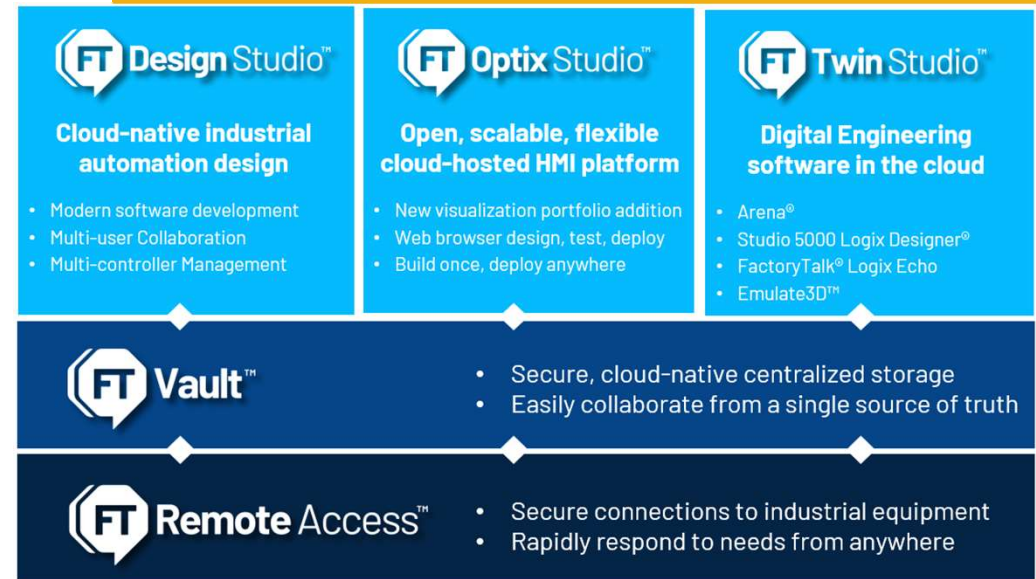
Flexibility

A CLOUD ENABLED SOLUTION

FACTORYTALK REMOTE ACCESS IS A SERVICE IN FACTORYTALK HUB

FactoryTalk Hub

- On-demand platform that provides you and your customers design automation systems that:
- Reduce risk
- Accelerate schedules
- Enable better agility
- FactoryTalk® Design Hub™ is built on Microsoft Azure and uses the cloud to:
- Increase scalability
- Reduce capital & maintenance expense
- Deliver new tools that increase productivity



SCALABLE

THE FACTORYTALK OPTIX PLATFORM



FactoryTalk Optix for SCADA

- System configuration and monitoring
- Cloud-hosted deployment
- Remote management and deployment



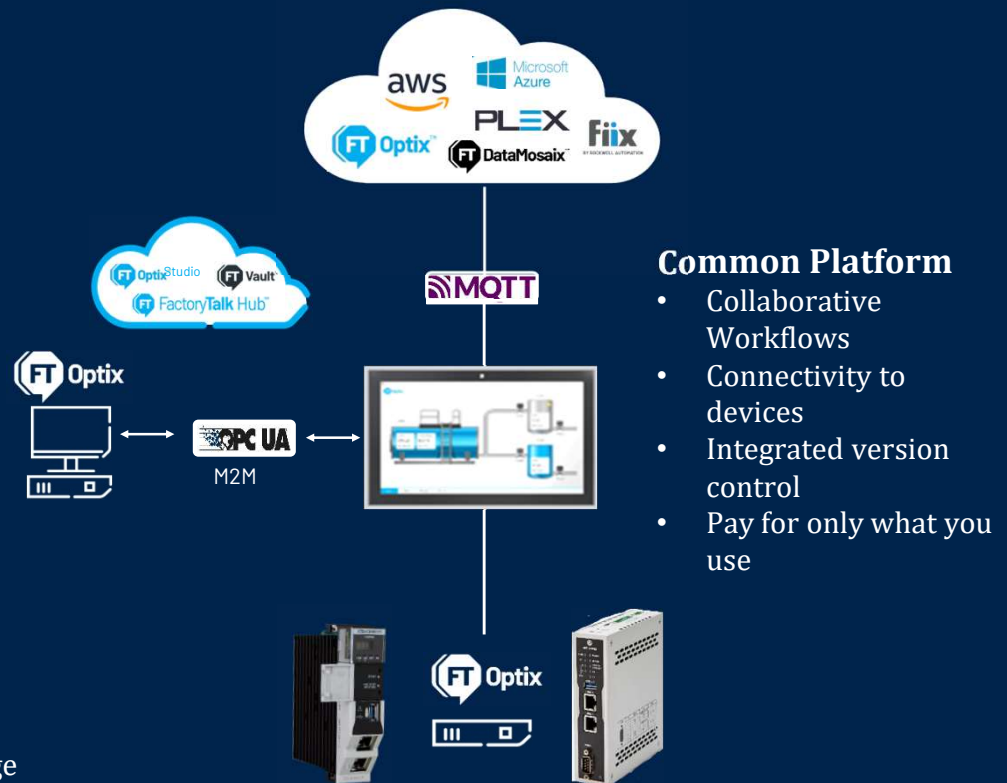
FactoryTalk Optix for HMI

- Responsive Graphics
- Embedded and Station deployment
- 3rd party Drivers
- OPC UA machine-to-machine



FactoryTalk Optix for Edge

- IOT connectivity, MQTT
- Smaller, purpose-built applications
- Embedded runtime devices: LEEC, OptixEdge



ENABLING SOLUTIONS WITH FACTORYTALK OPTIX

**BUILD YOUR HMI AND IIOT PROJECTS AND DEPLOY TO
DEVICES WHEREVER YOU ARE – IT'S NO PROBLEM!**

- **Multi-user collaboration** - With a web-based designer in the cloud
- **Version control** - Using industry tools such as GitHub and FactoryTalk® Vault™
- **Responsive graphics** - Detects screen size and adapts screen layout accordingly
- **Library Management** - Extensibility, reuse and management made simple
- **Pre-built content** - Device object libraries and software libraries
- **Open architecture** - Fully extensible with C# programs
- **IIoT and smart manufacturing platform** - Support Digital Transformation with built-in OPC UA
- **Third-party support** - Built-in connectivity to non-Rockwell Automation devices
- **Remote management** - Update and maintain projects online
- **Modular and scalable deployments** - Use and license only what's needed to run the project



AVAILABLE ANYTIME, ANYWHERE

**DESIGN MODERN, INTUITIVE APPLICATIONS WITH
UNMATCHED FLEXIBILITY, SCALABILITY AND
INTEROPERABILITY**

Don't have FactoryTalk Optix installed on your PC? No problem!

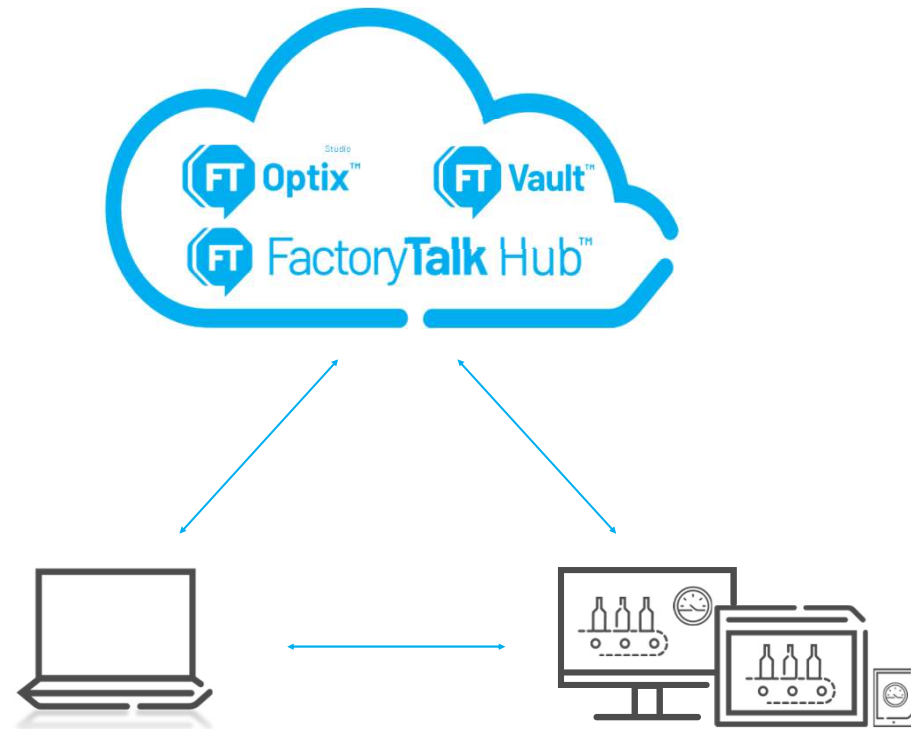
- Design, test, and deploy your HMI projects directly from a web browser using cloud-based FactoryTalk® Optix Studio™ Pro, available from FactoryTalk Hub
- Collaborative workflows allow modifications anywhere, anytime

No internet connection? No problem!

- Install FactoryTalk Optix Studio locally on your laptop **at no charge**
- Seamlessly transition from browser to desktop app for disconnected editing and deployment

Not sure which device you'll be using? No problem!

- Build projects and deploy dynamically scalable to any compute surface



CREATE AN APPLICATION ONCE...



Deploy and run applications on your choice of devices

- EDGE devices – Embedded Compute Module, OptixEdge
- OptixPanel™ graphic terminals
- Industrial PCs
- Containers
- Open platforms
 - ARM and x86 architectures
 - Linux and Windows® operating system

Scalable deployments to target devices

- What gets configured is the only content that gets deployed
- Pay only for what is deployed

Enable visibility from anywhere

- **Thick client:** built-in FactoryTalk Optix client
- **Web client:** built-in HTML clients viewable from a web browser



A SEAMLESS CONTINUUM OF DEPLOYMENT OPTIONS

When you're ready to deploy FactoryTalk Optix, pick the optimal platform for performance, functionality and openness



ASEM 6300 Industrial PCs

A high-powered, open compute platform for hardware and software expandability



OptixPanel

A sealed, firmware-based visualization appliance at a low total cost of ownership



Embedded Edge Compute

High-speed backplane communication with a ControlLogix controller for edge computing



OptixEdge*

An edge device that connects to your control system to collect, analyze, and send data to the cloud

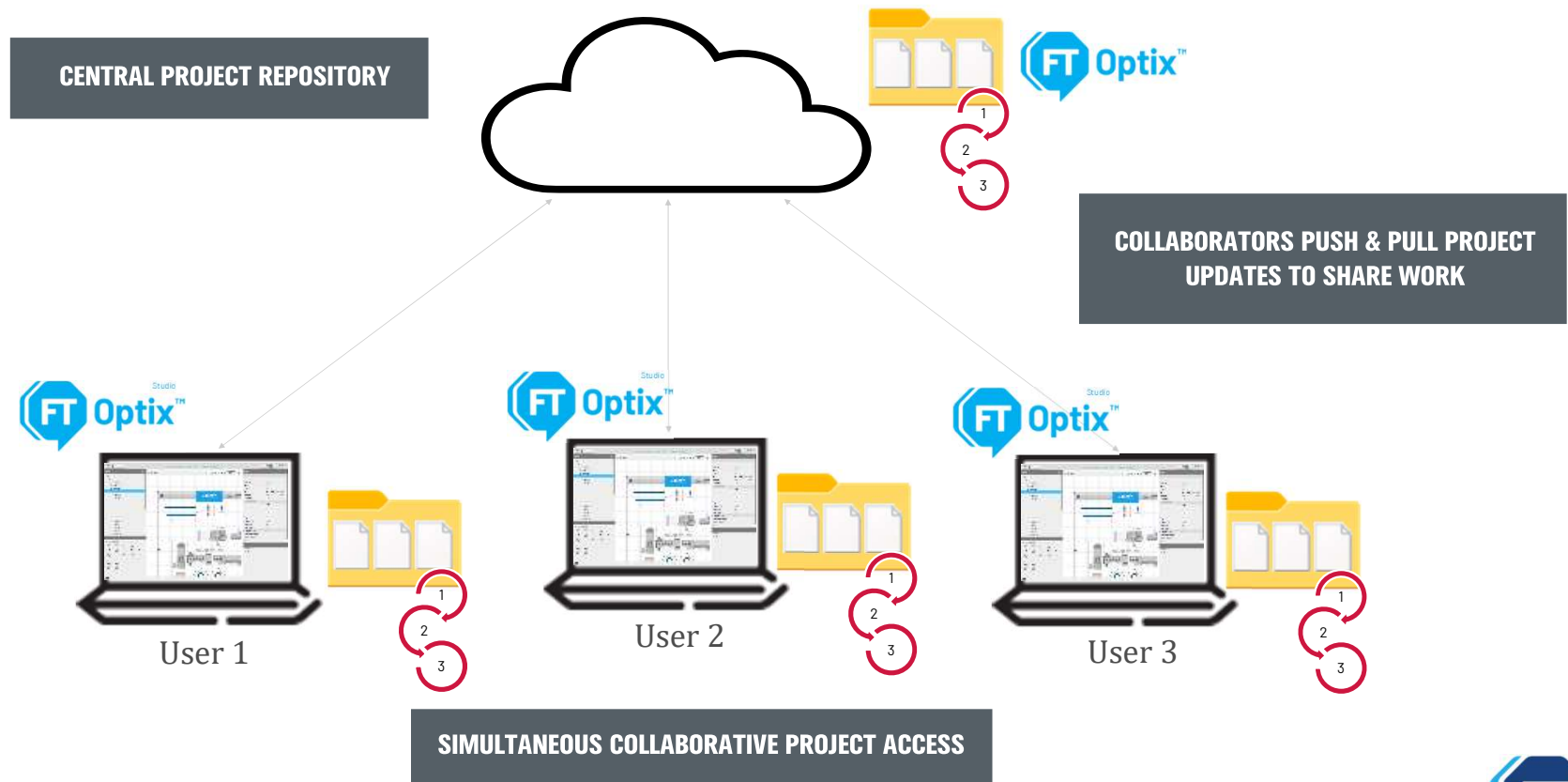
**available soon*



FACTORYTALK OPTIX

KEY FEATURES

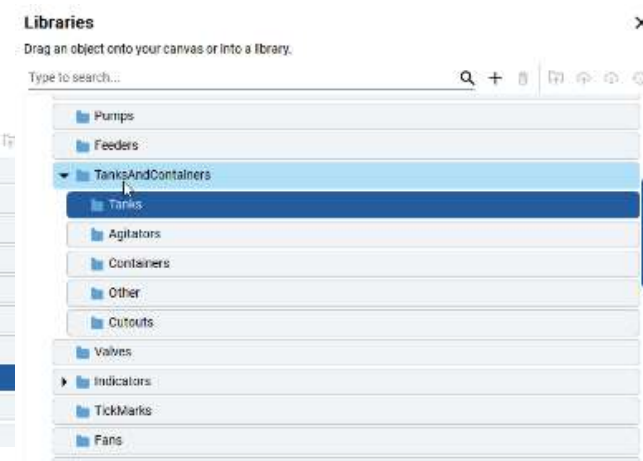
MULTI-USER COLLABORATION ENVIRONMENT



LIBRARIES AND LIBRARY MANAGEMENT

Extensibility, reuse and management made simple

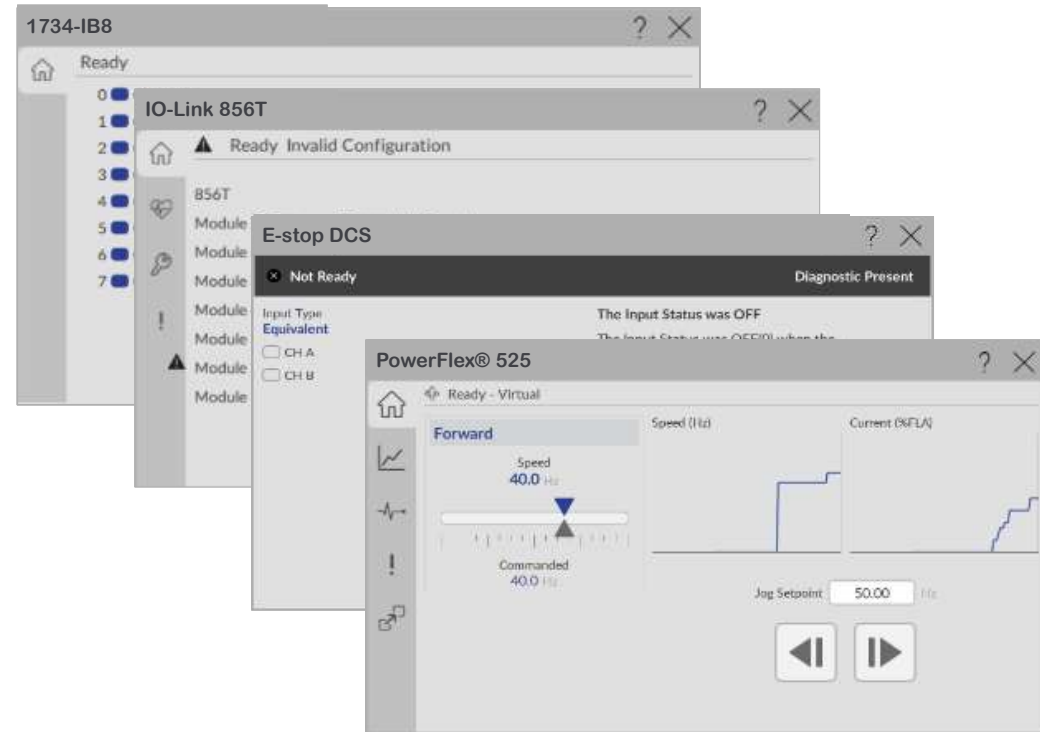
- Rockwell Automation standard libraries
- 1,000s of graphical objects
- Industry standard objects
- Search to quickly find and filter objects
- Logical folder organization
- Reuse made easy – drag and drop
- User-defined libraries
 - Save single object or complete project
- Library Management Options
 - Save Local or Remote
 - Multi-user collaboration helps manage library standards with plant engineering, OEMs and Integrators
 - Commit, Push, Pull, History



FACTORYTALK OPTIX DEVICE LIBRARY SUPPORT

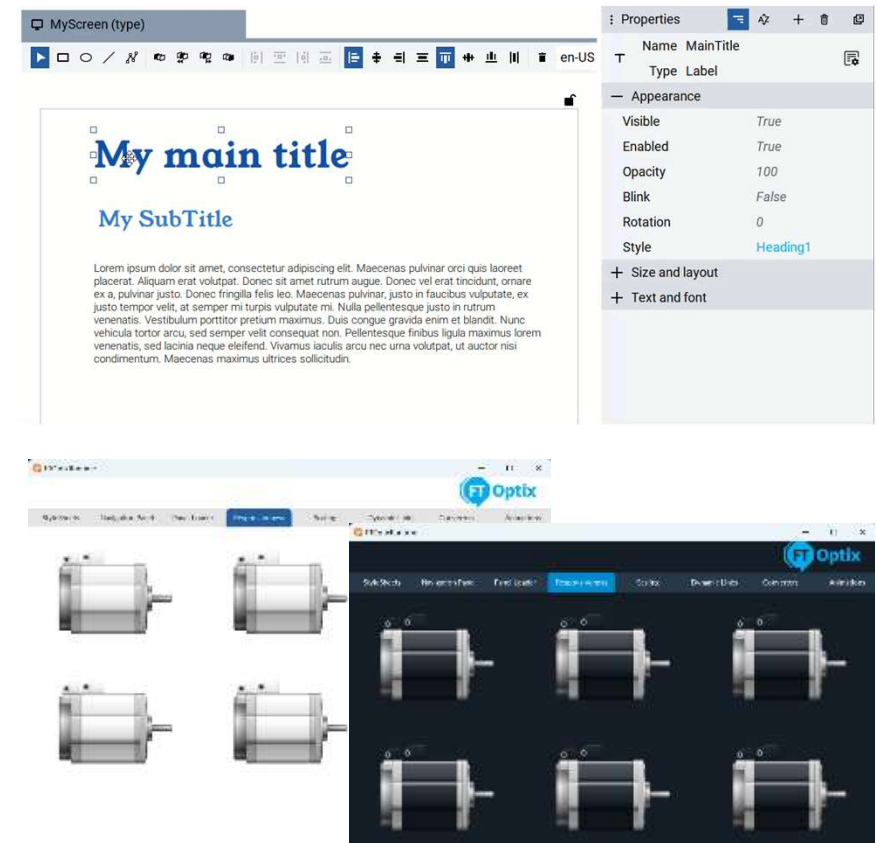
CORE CAPABILITIES

- FactoryTalk Optix support for Power Device and Safety Device libraries
- New FactoryTalk Optix HMI faceplates available for all existing Power Device and Safety Library objects!
- Published to PCDC in Power Device and Safety Libraries as free download.
- Available Now



UI CUSTOMIZATION STYLE SHEETS

- Define **multiple styles for every control** in the style sheet
 - This is useful not only at design time, but also at runtime, letting you change the style of some controls under predefined conditions
- Projects can contain **multiple style sheets**. Multiple style sheets let you switch between styles. For example, you can switch between a light interface and dark interface at runtime



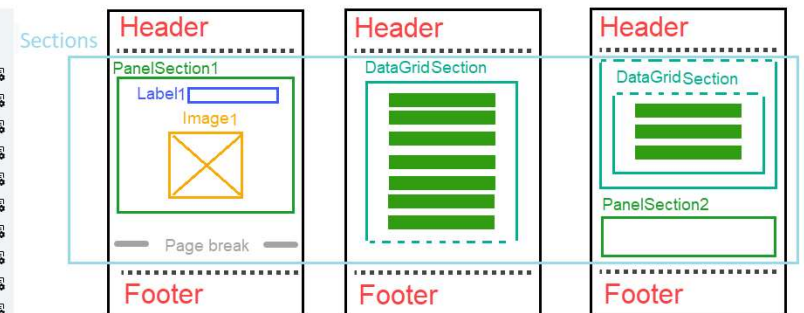
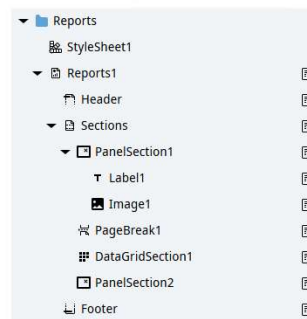
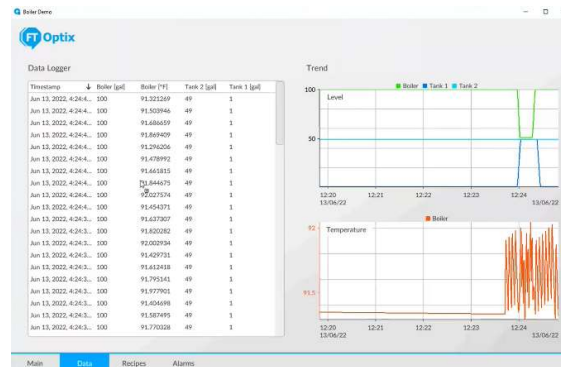
REPORTING AND DASHBOARDING

Simple database interface available for all components of the project

- Display historical or real-time data
 - Alarm summary & history
 - Trending & charts
 - Data Grid
 - Recipes
 - Text box and data controls

Reporting and dashboarding

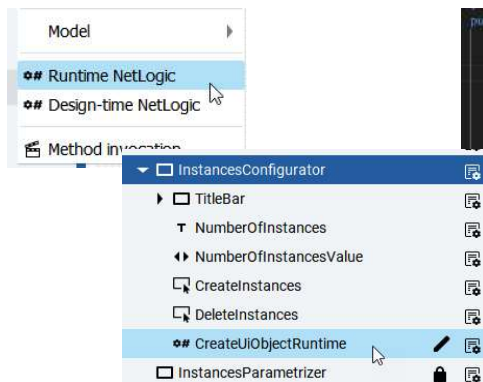
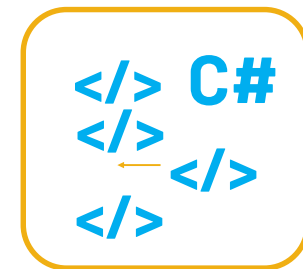
- Customizable layouts containing text, tables, and static graphics.
- Automatically generated PDF reports
- Live dashboards



OPEN INTERFACES WITH SCRIPTING CAPABILITIES

Unlimited customizations and automatic generation

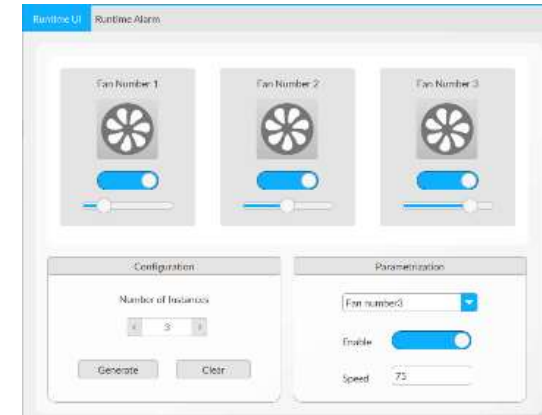
- Open API available to all aspects of a project available by C# scripting
- Create application logic for customized functionality
- Automatically generate parts of the project at design time and runtime
- Customize the visual style of graphics instantly



```
public void Configuration()
{
    // Read number of FAN to be set
    var numberFanExisting = Project.Current.GetObject("Run

    // Read variable indicating the number of FAN
    var numberFun = Project.Current.GetObject("Model/Proto

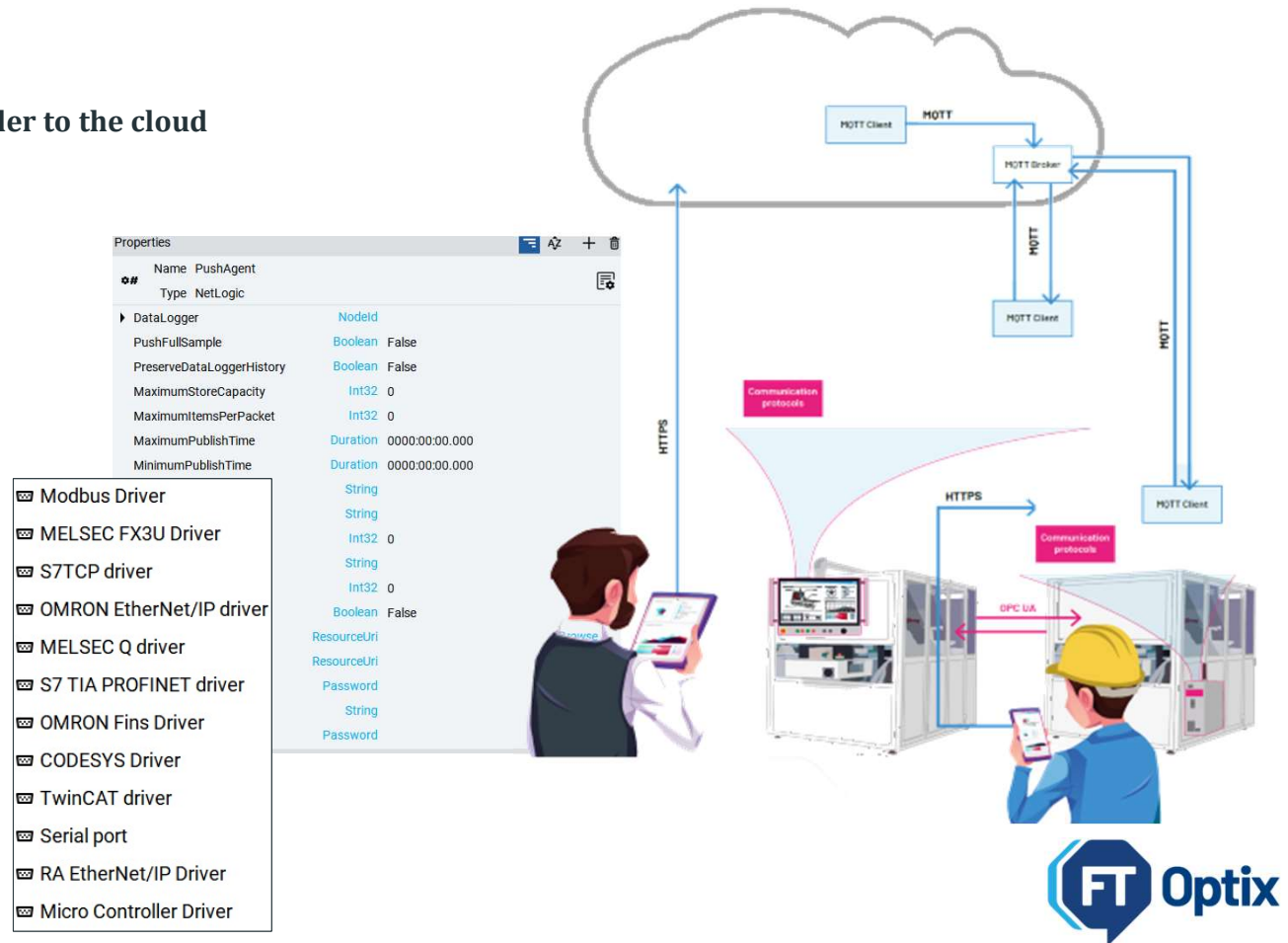
    // Execute for the number of FANs to create
    if (numberFun > numberFanExisting) {
        for (int i = numberFanExisting + 1; i <= numberFun; i++)
        {
            // Create object of type FAN and insert in the
            var modelloFan = InformationModel.MakeObject<F
            modelloFan.Number = i;
            Project.Current.Get<Folder>("RuntimeObjectUI")
        }
    }
}
```



CONNECTIVITY AND INTEROPERABILITY

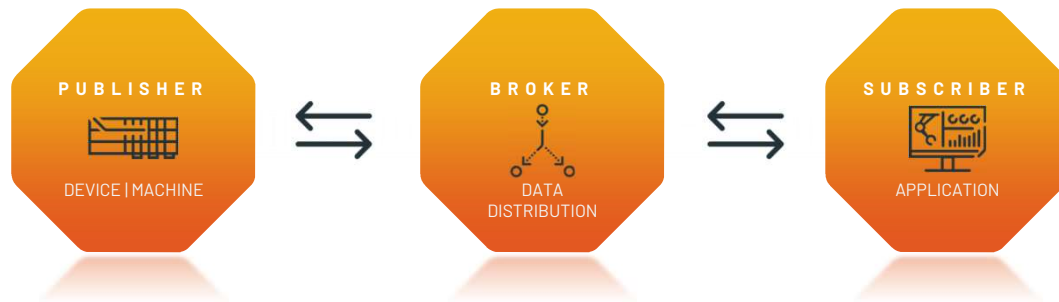
Built-in reliable connectivity – from the controller to the cloud

- Preferred Rockwell Automation connectivity
- IoT and IIoT connectivity (MQTT)
- Secure HTTPS protocols
- Built-in OPC UA protocols
- Built-in third-party drivers included



MQTT PROTOCOL SEAMLESS INTEGRATION

Enable secured edge-to-cloud communications with built-in MQTT capabilities in one software platform.



ENHANCED IIOT INTEGRATION

Built-in support simplifies connecting various devices, helping to ensure faster time-to-market for system integrators and OEMs.

EDGE-TO-CLOUD SEAMLESS DATA FLOW

Ideal for modern IIoT systems that require real-time monitoring and control from anywhere.

IMPROVED DATA MANAGEMENT

Efficient messaging reduces network bandwidth usage and helps to ensure reliable data transfer.



FACTORYTALK OPTIX SIZING TOOLS ON FACTORYTALK HUB

RUNTIME SIZING TOOL

What size license do I need?

- Walk through FactoryTalk Optix feature options to determine the right Optix Runtime license for your application
- Takes you to the ecommerce portal to purchase

The screenshot shows the 'Calculate runtime size' tool interface. At the top, there's a navigation bar with links: FT Optix, Releases, Endpoints, Runtime Sizing (active), Device Sizing, Resources, and Susan Burich. Below the navigation bar, a blue header contains the title 'Calculate runtime size' and a subtitle 'To determine the best package to purchase, calculate the number of tokens needed to build projects.' A progress bar with five steps is shown: 1. Select presentation, 2. Select features, 3. Controller connections, 4. Select interoperability, and 5. Preview and purchase. Below the progress bar, there are two checkboxes: 'Native HMI Client (1 token)' and 'Web HMI Client'. At the bottom, there are 'Help', 'Reset', 'Back', and 'Next' buttons.

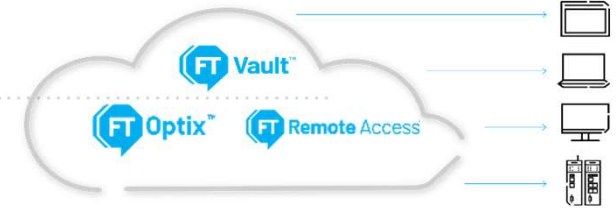
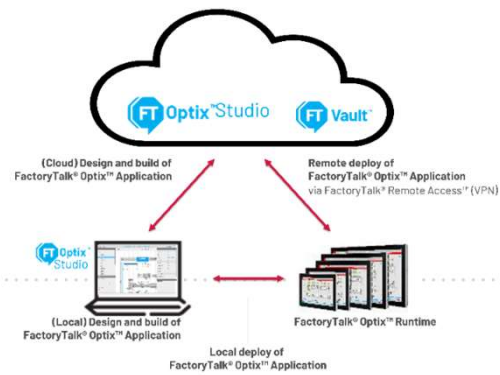
DEVICE SIZING TOOL

What compute surface should I use?

- Walks through elements in a project that affect system performance, estimates system memory and horsepower required, and recommends a device
- Sizing based on tags, alarms, data logger, recipes, web clients, number of displays and screen object density, etc.

The screenshot shows the 'Calculate your device size' tool interface. At the top, there's a navigation bar with links: FT Optix, Releases, Endpoints, Runtime Sizing, Device Sizing (active), Resources, and Susan Burich. Below the navigation bar, a blue header contains the title 'Calculate your device size' and a subtitle 'To determine which is the best device to purchase, calculate how many forms you will need for building projects.' A progress bar with four steps is shown: 1. Tool information, 2. Select items, 3. Select screen density, and 4. Recommended device. Below the progress bar, there's a section titled 'Tool information and disclaimer'. At the bottom, there are 'Help', 'Reset', 'Back', and 'Next' buttons.

KEY TAKEAWAYS



FT OPTIX IS FLEXIBLE

1. Multiple OS
2. Multiple Hardware Platforms
3. Native 3rd Party Drivers Support

FT OPTIX IS SCALABLE

1. Scalable runtime options
2. Create an application once and run anywhere
3. From a simple gateway to a SCADA

FT OPTIX IS FUTURE-READY

1. Web-Enabled development and testing
2. Remote Project deployment
3. Connect automation devices with IIoT/Edge protocols



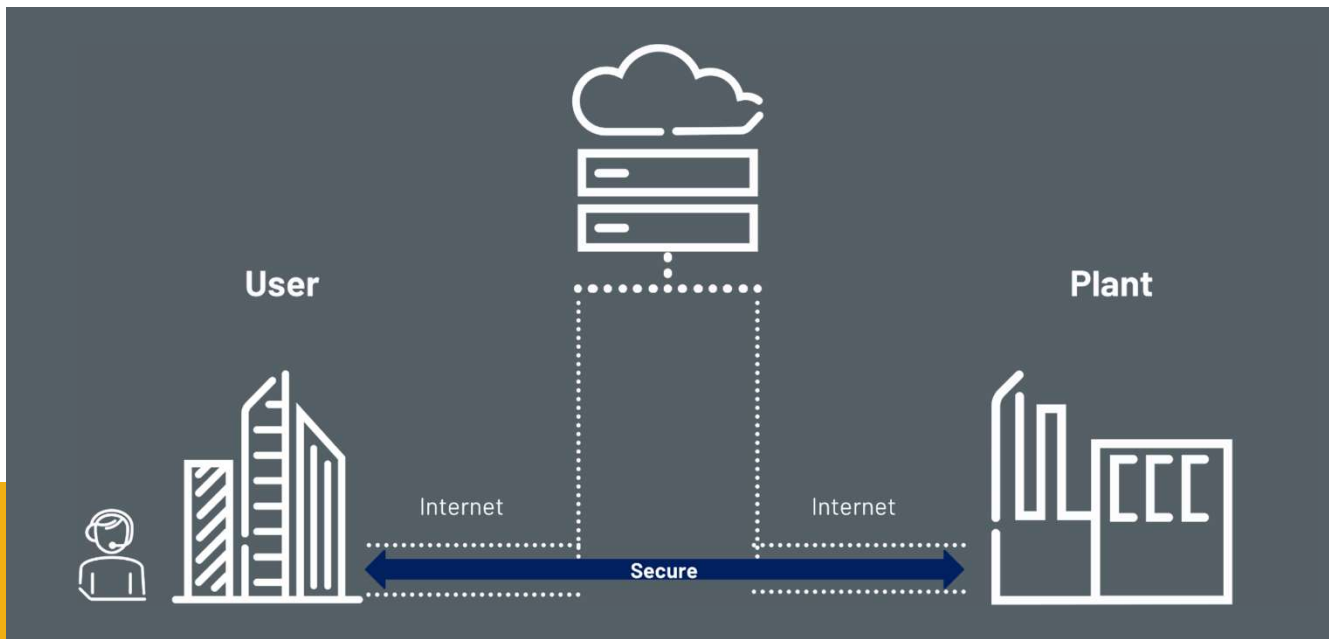
NOW LET'S USE FT OPTIX



HOW TO ACCESS THE LAB

FACTORYTALK REMOTE ACCESS SOLUTION

The FactoryTalk Remote Access solution delivers secure communications over the internet to enable performance and security for on-demand remote assistance, installation, programming, troubleshooting, and maintenance of any remote automation system and application.



FACTORYTALK REMOTE ACCESS

1

FACTORYTALK REMOTE ACCESS MANAGER

A web-based client used to maintain and initiate remote connections:

- Management of account, users and groups, permissions and access
- Register devices
- Activate VPN for remote connectivity
- and more



2

REMOTE ACCESS ENDPOINT DEVICE

- FactoryTalk Remote Access Runtime
- Stratix 4300 Remote Access Router
- OptixPanel Graphic Terminal
- Embedded Edge Compute™ Module
- ASEM 6300 Industrial PC
- *[Coming Soon]* OptixEdge Standard



Select the option
that works best
for your
application.

FACTORYTALK REMOTE ACCESS ENDPOINT

A FactoryTalk Remote Access runtime entitlement is provided¹



OPTIXPANEL GRAPHIC TERMINALS

OptixPanel Compact

- Ships with FactoryTalk Remote Access Runtime Basic entitlement
- Upgradeable to Runtime Pro entitlement

OptixPanel Standard

- Ships with FactoryTalk Remote Access Runtime Pro entitlement



EMBEDDED EDGE COMPUTE

Ships with FactoryTalk Remote Access Runtime Pro entitlement

Ships with FactoryTalk Optix Runtime Xtra-Small entitlement

- Upgradable to FactoryTalk Optix
- Runtime Small - XL



ASEM 6300 INDUSTRIAL PC²

Includes a FactoryTalk Remote Access Runtime Basic entitlement

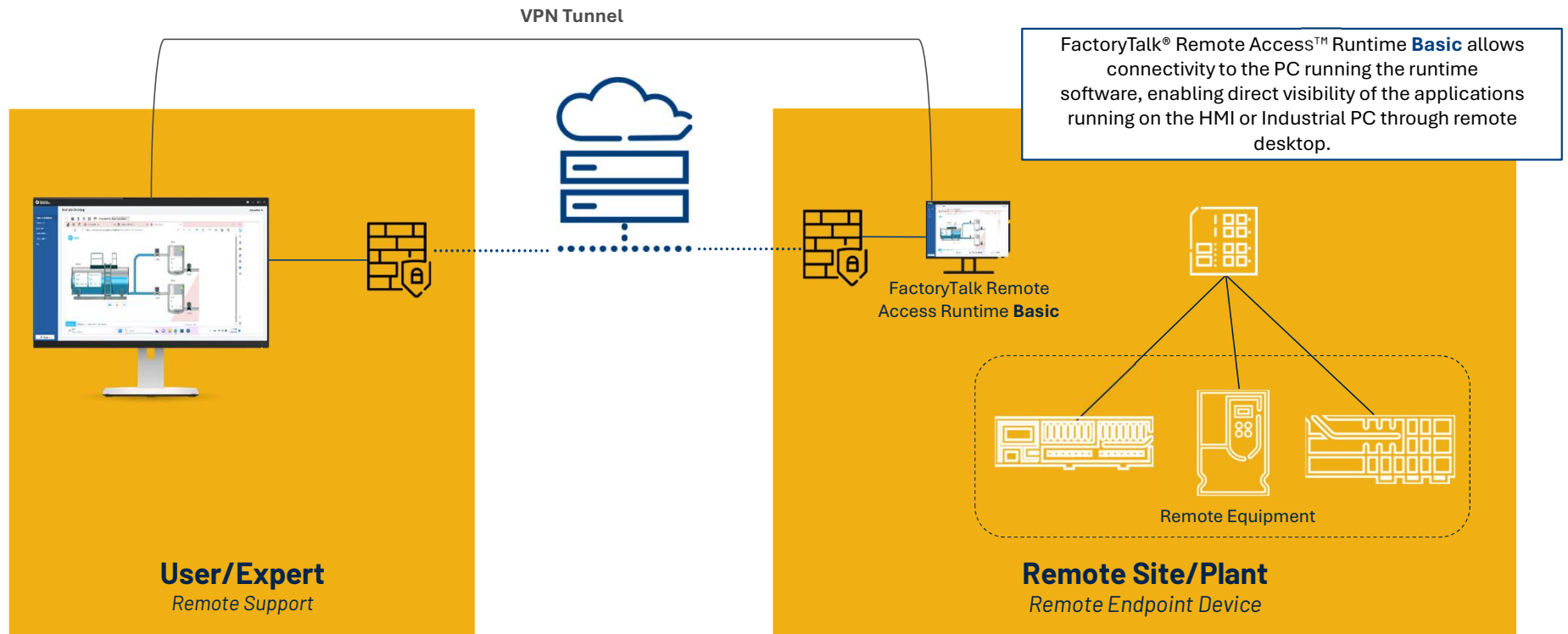
Available on all ASEM 6300 iPCs, new and existing purchases.

¹Remote access is not enabled or turned on by default, use the device's system manager to configure and enable remote access

²Download the FactoryTalk Remote Access basic runtime from the [Product Compatibility & Download Center from Rockwell Automation](#)

SAMPLE ARCHITECTURE #1

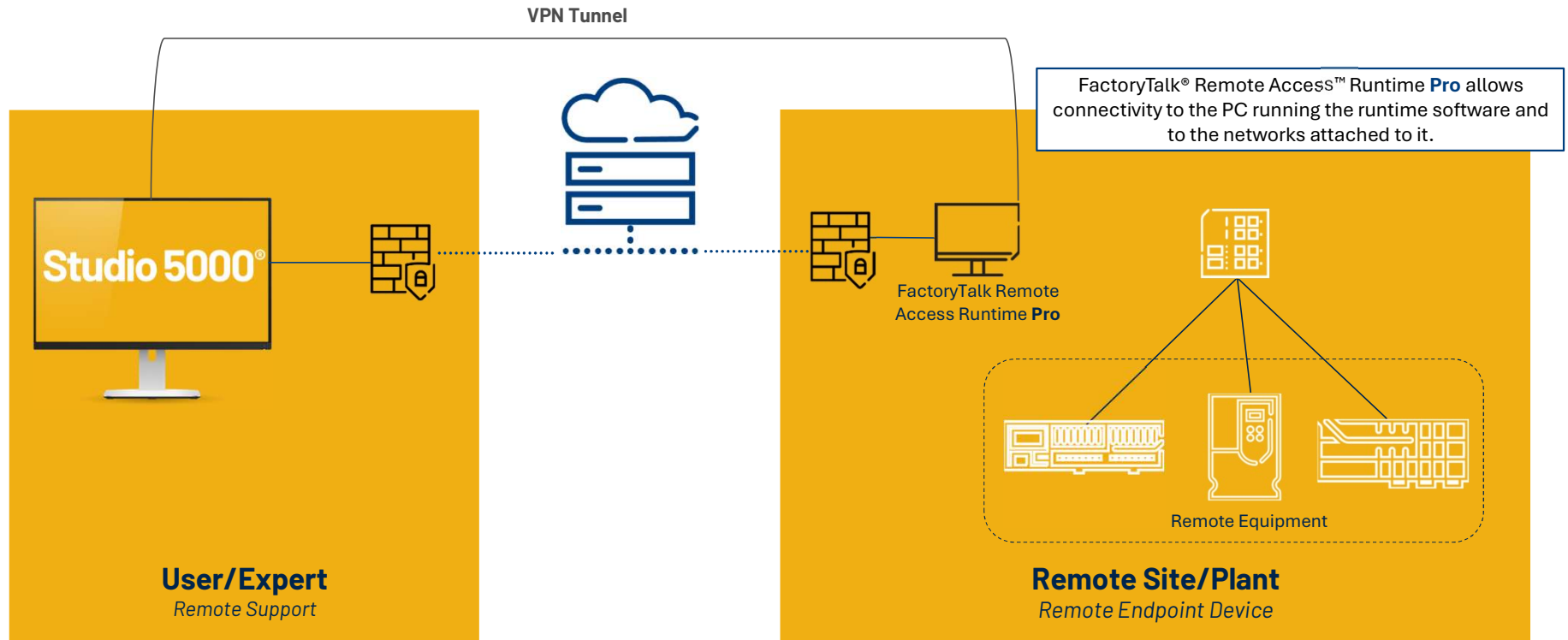
Remote Maintenance & Troubleshooting using the FactoryTalk Remote Access *Runtime Basic* software as the endpoint



Tip: Use the Runtime basic software when connecting to an engineering workstation or HMI.

SAMPLE ARCHITECTURE #2

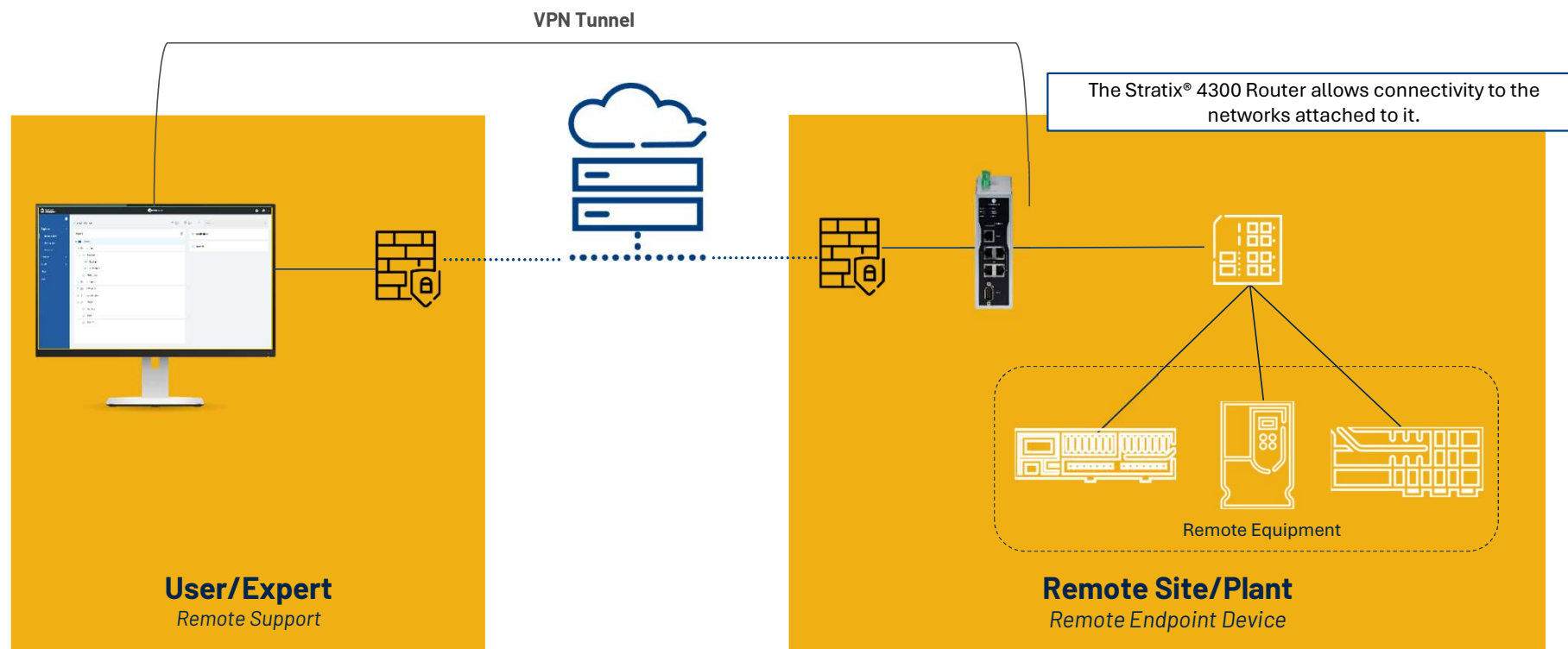
Remote Maintenance & Troubleshooting using the FactoryTalk Remote Access *Runtime Pro* software as the endpoint



Tip: Use the Runtime Pro software when using your local copy of Studio 5000® to make changes directly to the PLC at the remote site or plant.

SAMPLE ARCHITECTURE #3

Remote Maintenance & Troubleshooting using the Stratix 4300 Remote Access *Router* software as the endpoint



Tip: Use the Stratix® 4300 when you are unable to install additional software or require a dedicated remote access router with separate LAN and WAN ports.



LIVE DEMO



QUESTIONS?



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VISUALIZATION FOR VISIONARIES, SESSION 4

WELCOME



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Technical Consultant,
Rockwell Automation

Thank you for 25 amazing years!

Productivity | Visualization | Security | Mobility



THE PLATFORM

Celebrating 25 years of ThinManager simplifying content delivery and device management in manufacturing to achieve the following outcomes:

- Reduce total cost of ownership
- Reduce downtime
- **Reduce security risk**
- Increase workforce productivity

VALUE PROPOSITION: REDUCE COST OF OWNERSHIP

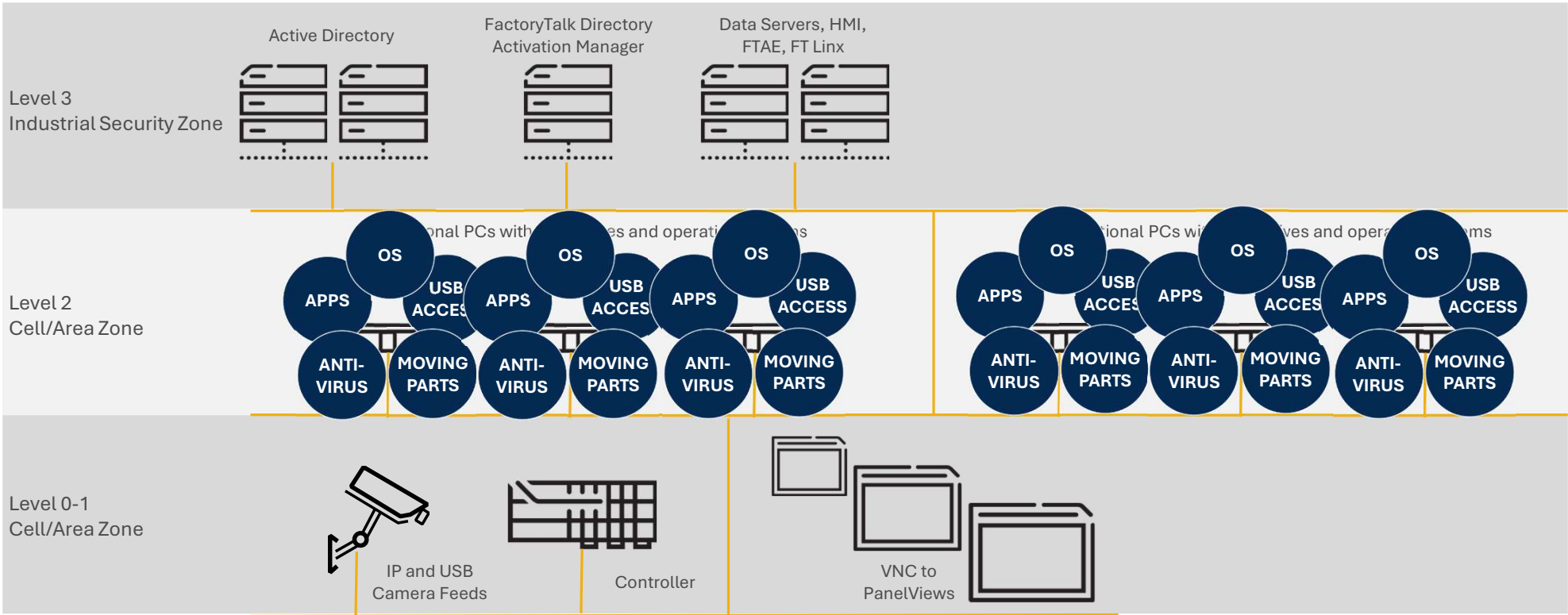
- Reduced cybersecurity footprint with zero clients
- Simplify application and patch management for IT
- Reduce time to replace and commission workstations
- Industry leading vendor agnostic visualization of content

VERSION 14 VALUE

- Support enterprise level deployment and management
- Enhanced mobile thin client solution integration
- Modernized support of IT infrastructures

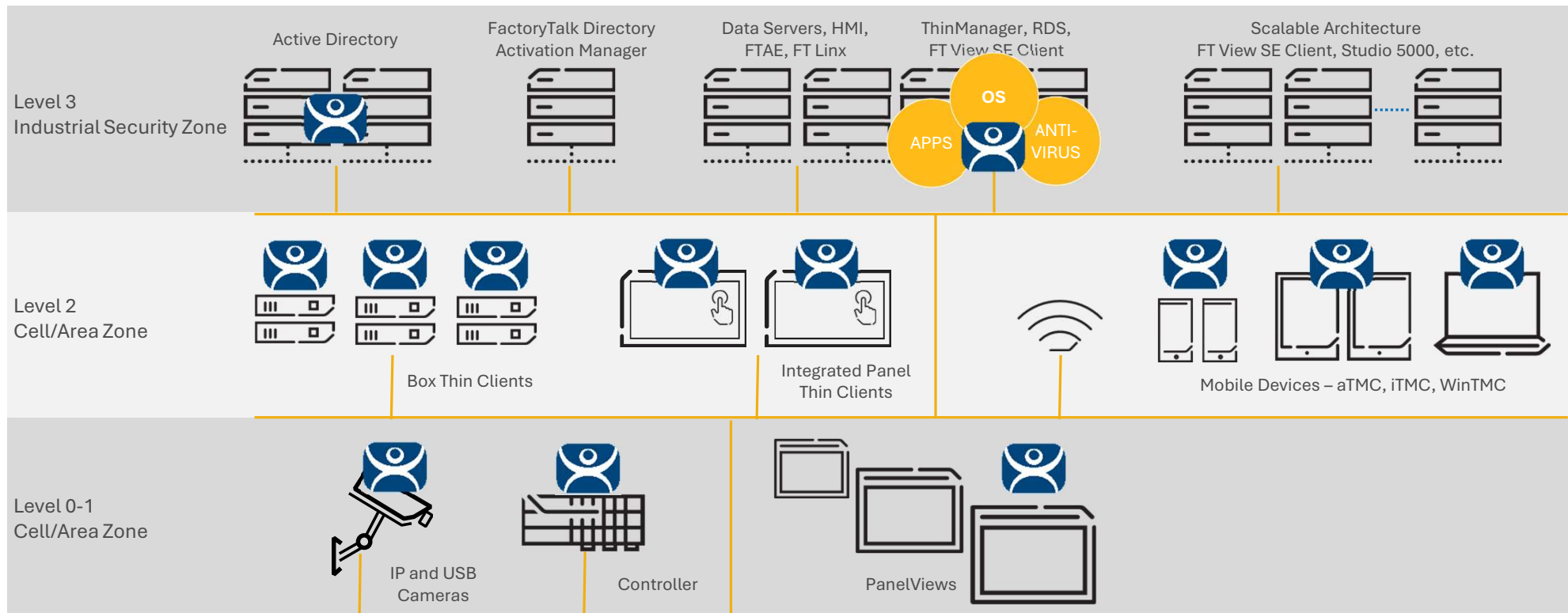
TRADITIONAL AUTOMATION NETWORKS CAN WASTE TIME AND RESOURCES

DEDICATED PCS WITH LOCAL OPERATING SYSTEMS AND APPLICATIONS COMPOUND UNPLANNED DOWNTIME AND MAINTENANCE



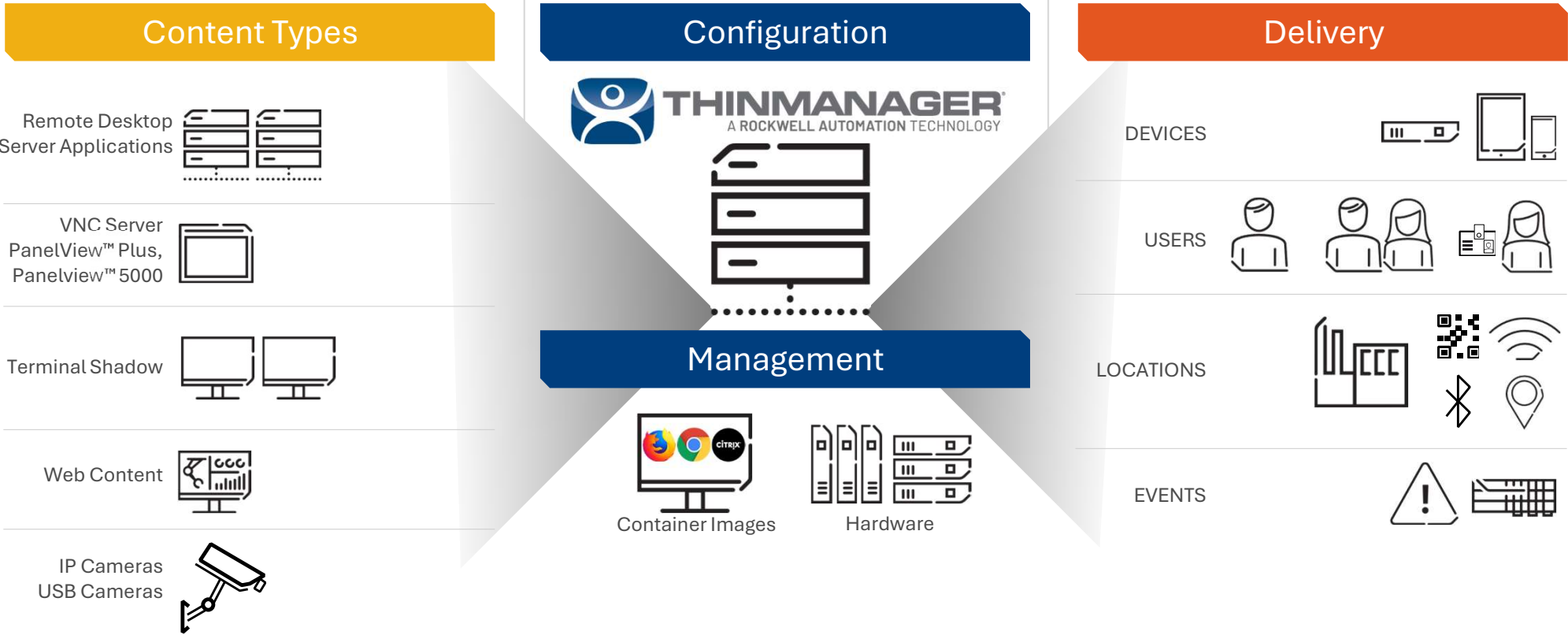
SERVER-CLIENT ARCHITECTURE REDUCES TOTAL COST OF OWNERSHIP

REPLACE PCS RUNNING LOCAL CONTENT WITH DISKLESS, SECURE THIN CLIENTS THAT ARE MANAGED CENTRALLY



CUSTOMIZED, SECURE VISUAL CONTENT DELIVERY

DELIVER THE RIGHT INFORMATION, TO THE RIGHT PERSON, AT THE RIGHT PLACE, AT THE RIGHT TIME



IMPROVE ACCESSIBILITY TO INFORMATION WITH MOBILITY

Make quick decisions with application access on-the-go

- Employees receive applications where it's most convenient for them – whether it's sent to a mobile device or web browser.
- Provide authorized write access to HMI or controller software with location-specific authorization.



A user logged in near Machine 1 will be presented with different content when logged in near Machine 2.

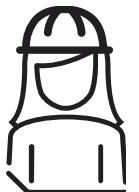
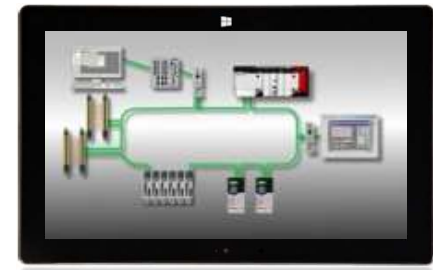
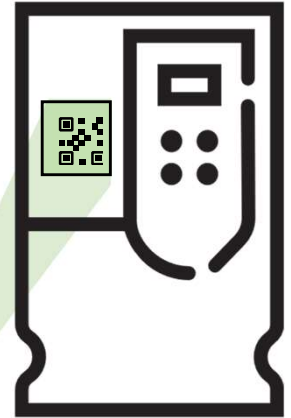


An operator could view information at a specific location while a manager could make changes at the same location.



NEW! Centrally manage mobile tablets with ThinManager

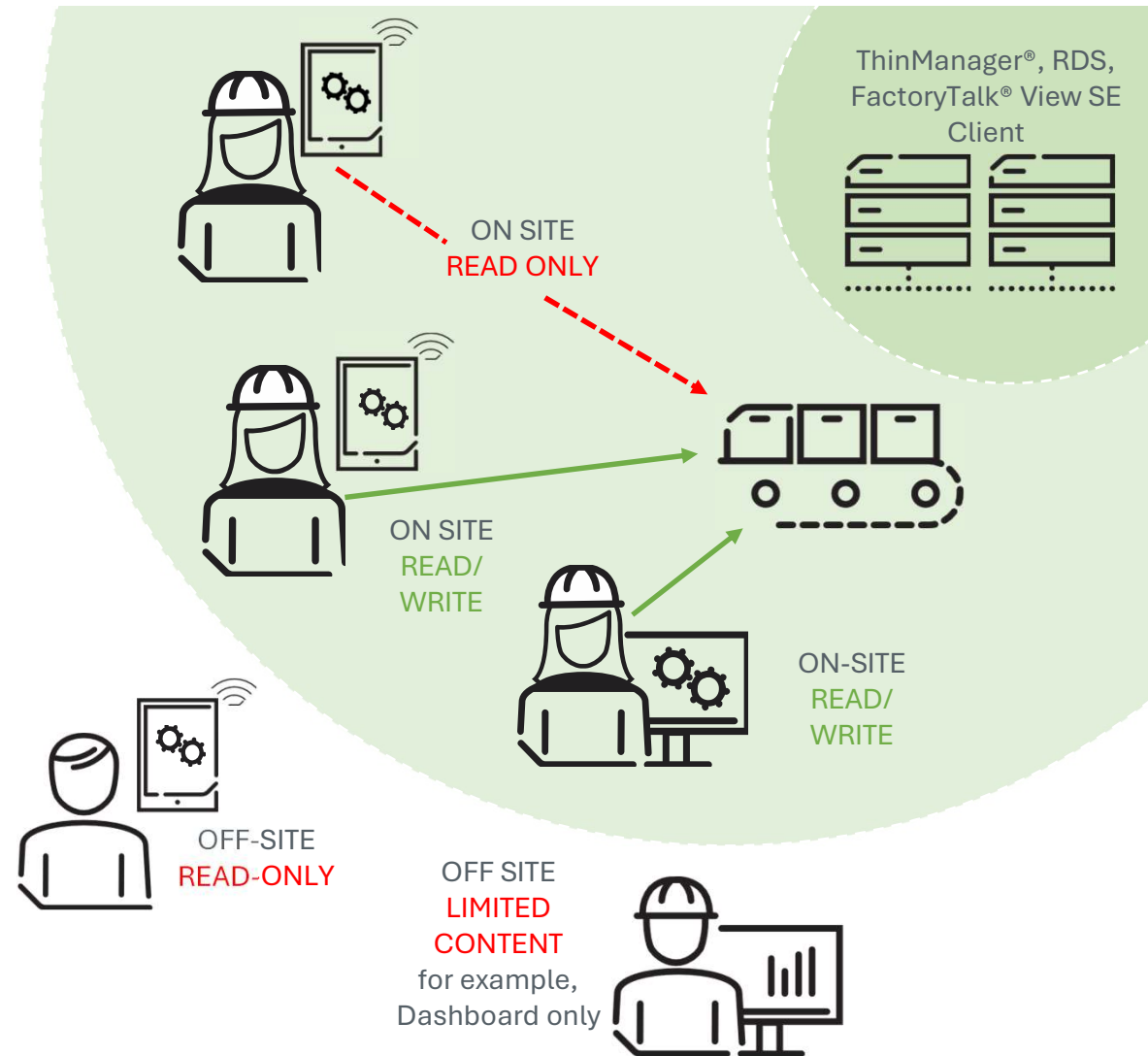
An operator can leverage the brand new **ThinManager-Ready Tablet** with custom BIOS for a seamless wireless boot and firmware delivery, with no need for IT to manage the tablet's operating system



ENABLE REMOTE ACCESS

Determine how information is accessed between devices inside and outside the plant

- **Mobile devices can be restricted** from receiving content outside of authorized locations, enforcing line of sight control
- Publish the right level of visualization to **determine what content is available remotely**
- Tethered and mobile terminals can **Shadow™ other terminals** with the ability to assign read/write or read-only access to the terminal providing the Shadow™



WEB-BROWSER USER INTERFACE: THINMANAGER

The screenshot displays the ThinManager web interface in a browser window. The address bar shows the URL `https://10.6.10.51:8443/ui/terminals/20`. The interface includes a sidebar with navigation links: ThinManager, Terminals, Display Servers, Display Clients, Users, Locations, Events, and Help Center. The main content area is titled "terminals > 6300T-BA" and features a toolbar with icons for Power on, Restart, Enable, Calibrate, Power off, Reboot, and Disable, each with a corresponding label. Below the toolbar, there are three sections: Information, IP Information, and Utilization.

Information

Status Online	Model Allen-Bradley 6300T-BA	Terminal ID 5C8816FB3A18	Bootloader Version 6.0
Firmware Package 9.0	CPU Intel(R) Atom(TM) Processor E3950 @ 1.60GHz	CPU Speed 1,142 MHz	

IP Information

Terminal 10.6.10.100	Router	Subnet Mask 255.255.255.0	Boot Server 10.6.10.51
Primary Server 10.6.10.51			

Utilization

CPU 20	Memory 20
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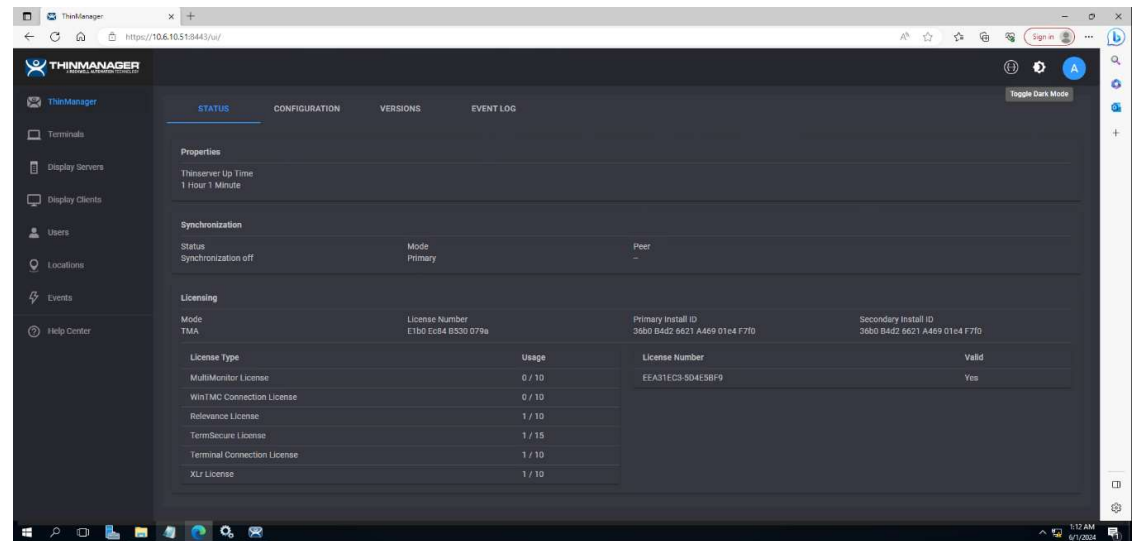
WEB-BROWSER USER INTERFACE

Similar **look and feel** to traditional console with left-hand side pane elements:

- ThinManager Server
- Terminals
- Display Servers
- Display Clients
- Users
- Locations
- Events

Eliminates **DCOM** dependencies

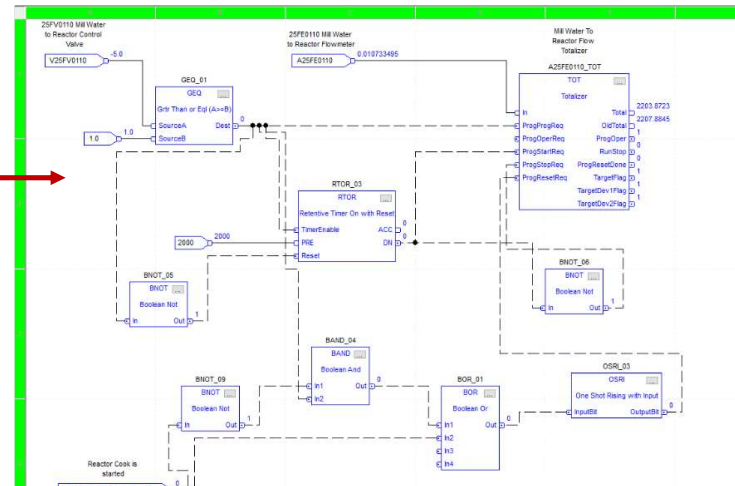
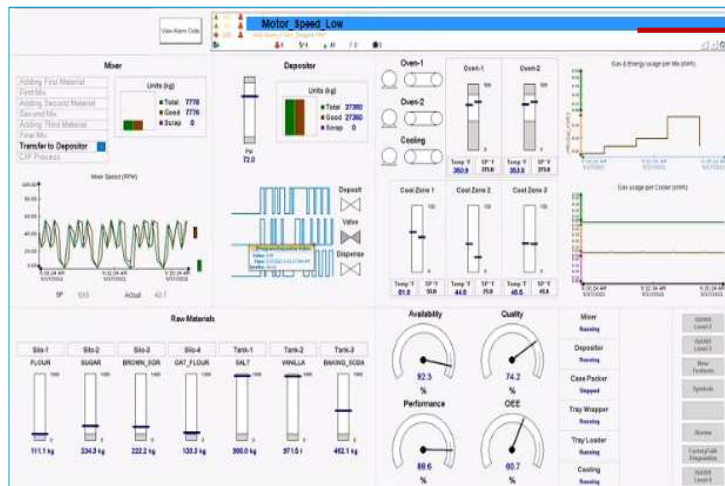
Remotely take inventory on assets with thin client hardware information all in one place



Toggle between **light** and **dark** mode

THINMANAGER LOGIX PINPOINT

AUTOMATED TAG NAVIGATION TO REDUCE TROUBLESHOOTING TIME



Studio 5000 Logix Designer®



A SECURE SOLUTION TAKES TEAMWORK: TRUE IT AND OT CONVERGENCE

IT

Maintains administrative permissions and ownership responsibilities

- Manage Active Directory policies and procedures
- Enable flexible deployment and manage all devices
- Manage administrative access of centralized architecture
- Simplify identity verification with OpenID Connect, Azure AD and SSO on-prem



OT

Defines how engineers and operators interact with the system

- Control the actions that a user is allowed to make
- Validate change by requiring approvals and electronic signatures
- Enforce line-of-sight for write access
- Integrate diverse systems with real-time data communication with MQTT
- Improve responsiveness and decision-making

KEY TAKEAWAYS



CENTRALIZED MANAGEMENT

1. Administrate from one location: apps and visuals
2. Streamline Operation
3. Improve Efficiency



ENHANCED VISUALIZATION

1. Workforce efficiency
2. Planned maintenance
3. Access to data



SECURE

1. Cloud-native
2. IoT-ready
3. Web-based design and testing



THINMANAGER
LIVE DEMO



QUESTIONS?



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VISUALIZATION FOR VISIONARIES, SESSION 5

WELCOME



RYAN RICE

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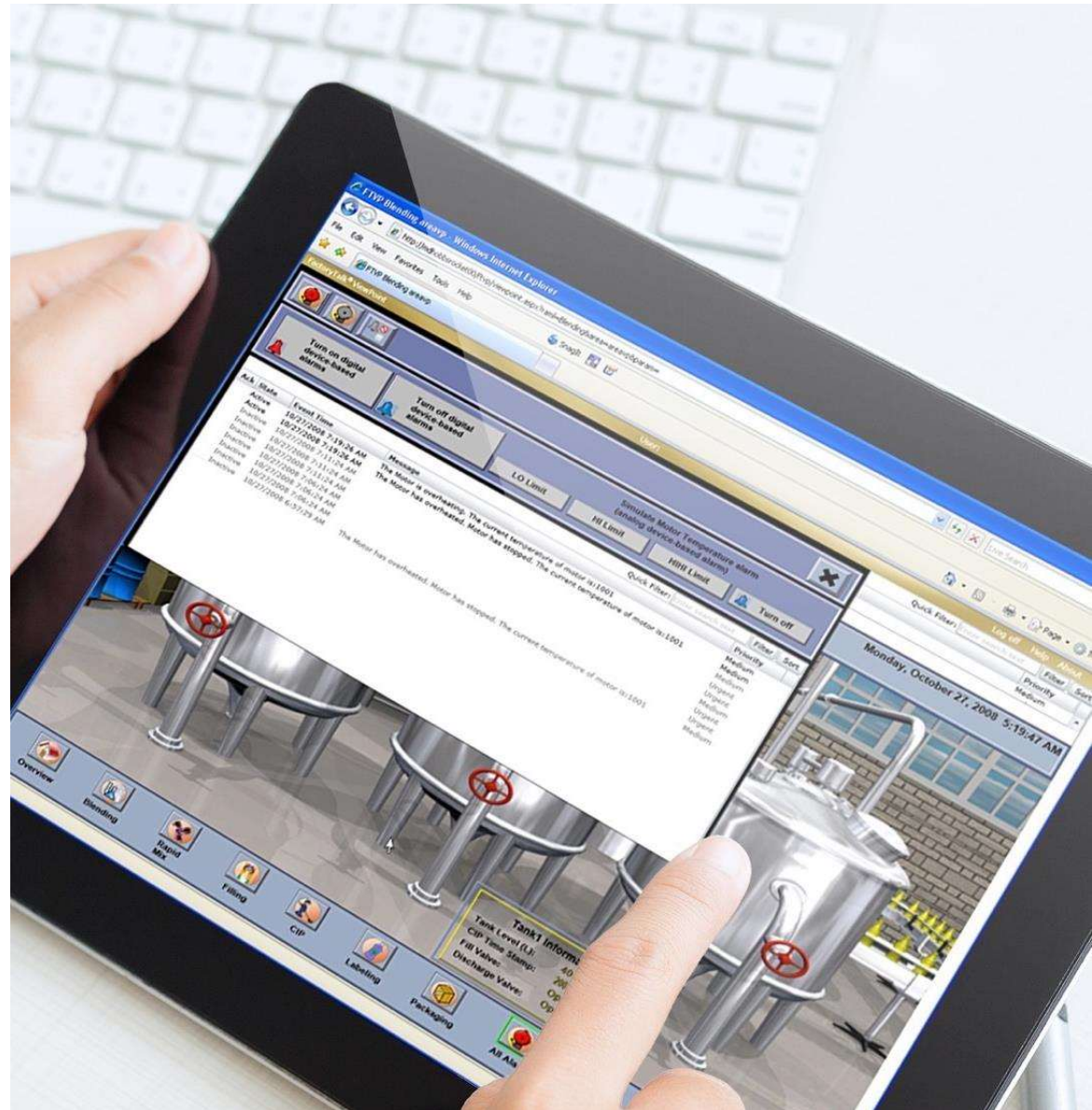
PHILIP HAMILTON

Technical Consultant,
Rockwell Automation



FactoryTalk software helps you design, maintain, operate and innovate your operations.

- System Design
- Operations
- Plant Maintenance
- Analytics and IIoT



FACTORYTALK VIEW

SOFTWARE VERSION 14.00 FEATURE SUMMARY

RUNTIME MODERNIZATION

- SE Client rendering and scaling
- Runtime scale quality improvement
- Improved multi-touch interaction
- Runtime Navigation Menu
- Runtime Navigation Menu – Integrated Runtime Search
- Multi-language switching popups
- Multi-monitor display docking and sizing

MOBILITY

- Step Line Trending
- Data Grid Time Range Filtering
- ViewPoint FactoryTalk® Administration Console refresh and modernization
- Enhanced System Status Portal
- System Status Portal – Alarm Dashboard

APPLICATION DESIGN

- Radar Chart
- Built-in .NET Control integrating with Apache E-Chart Widgets
- Tag Browser UI
- Command button enhancements
- Custom user message for Toggle action
- New Data Log Pro with edge historian capability built on InfluxDB™
- FactoryTalk® View Studio: HMI Components filtering

FEEDBACK-DRIVEN ENHANCEMENTS

- Electronic Signature for SE Functional Buttons
- Exclude tag scanning for invisible objects

CONNECTIVITY AND VISUALIZATION

- Data Grid – FactoryTalk® Historian Data Source
- TrendPro & XY Plot Enhancements
- Show annotations on the TrendPro

ALARMS AND EVENTS

- Language Switching Extended Tag Properties in alarm messages
- Alarm and Events Summary Live Data Value
- Additional Alarm and Events built-in functions

ME MODERNIZATION

- ME Transfer utility enhancement.
- Retain ActiveX Control version

AND MORE....

FACTORYTALK VIEW

SOFTWARE VERSION 15.00 FEATURE SUMMARY

DATA MANAGEMENT & MODERNIZATION

- **Support External InfluxDB™ and InfluxDB™ Cloud Serverless**
- **New DataLogPro Features**
 - DataLogPro database connection state
 - On/Off control via the context menu
 - Migrate existing data log model history into InfluxDB
- **MQTT Support**

APPLICATION & UI ENHANCEMENTS

- **Application Library Imports**
- **Runtime Navigation Menu – Support Multiple Navigation Menus**
- ThinManager® Logix PinPoint Configuration via GUI
- Global Object Displays Organized In Folders
- FactoryTalk® View Studio Enhancement
 - Collapse/Expand All
 - Close All Tabs

SECURITY & PERFORMANCE

- Customize HMI Project Folder Path
- Runtime Security Enhancement
- Performance Enhancement

OPERATIONAL EFFICIENCY

- Add Component Tool Enhancements
- Restore SE Archive File via Command Line
- **FactoryTalk® Alarms and Events Email Notification**
- Default settings for TrendPro or XY Plot

MOBILITY (VIEWPOINT)

Web Clients Support for:

- DataLogPro with InfluxDB™
- Datagrid
- TrendPro
- Apache E-Chart Widgets on Web Clients
- Multiple Navigation Menus
- PlantPax® Library of Process Objects (Conditional support)
- Built-in Security Functions
- Built-in Alarm and Event Functions

SUPPORT EXTERNAL INFLUXDB™ AND INFLUXDB™ CLOUD SERVERLESS

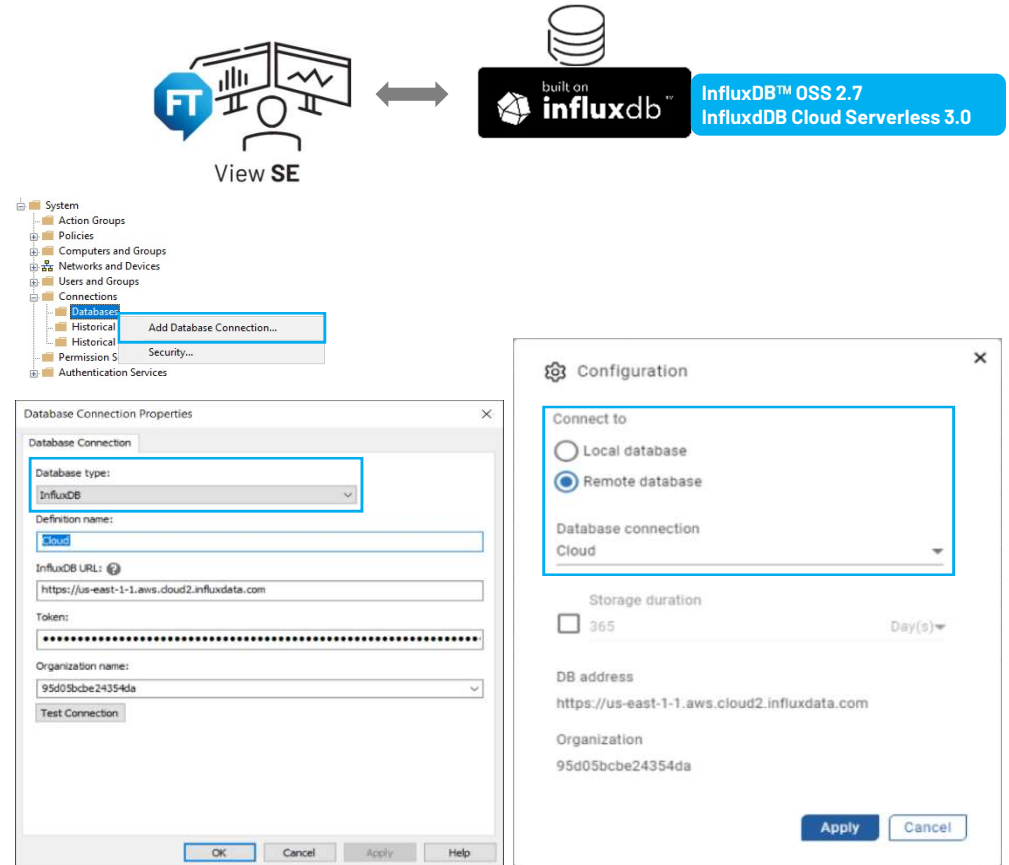
FACTORYTALK VIEW SITE EDITION V.15.00

Feature:

DataLogPro enhances historical data storage by supporting external InfluxDB and InfluxDB Cloud Serverless. It features seamless fallback to built-in InfluxDB during external disconnects and maintains data continuity in redundant setups.

Benefits:

- **User Configuration Enhancement:** Simplifies setup with a dedicated InfluxDB option in database connection settings.
- **Advanced Data Management:** Uses InfluxDB Cloud Serverless (3.0) to maximize performance and reliability, minimizing the need for server management.
- **Robust External Database Redundancy:** Delivers data integrity by syncing small data segments with external InfluxDB during transitions and automating backups during disconnections, thereby helping prevent data loss.



NEW DATALOGPRO FEATURES

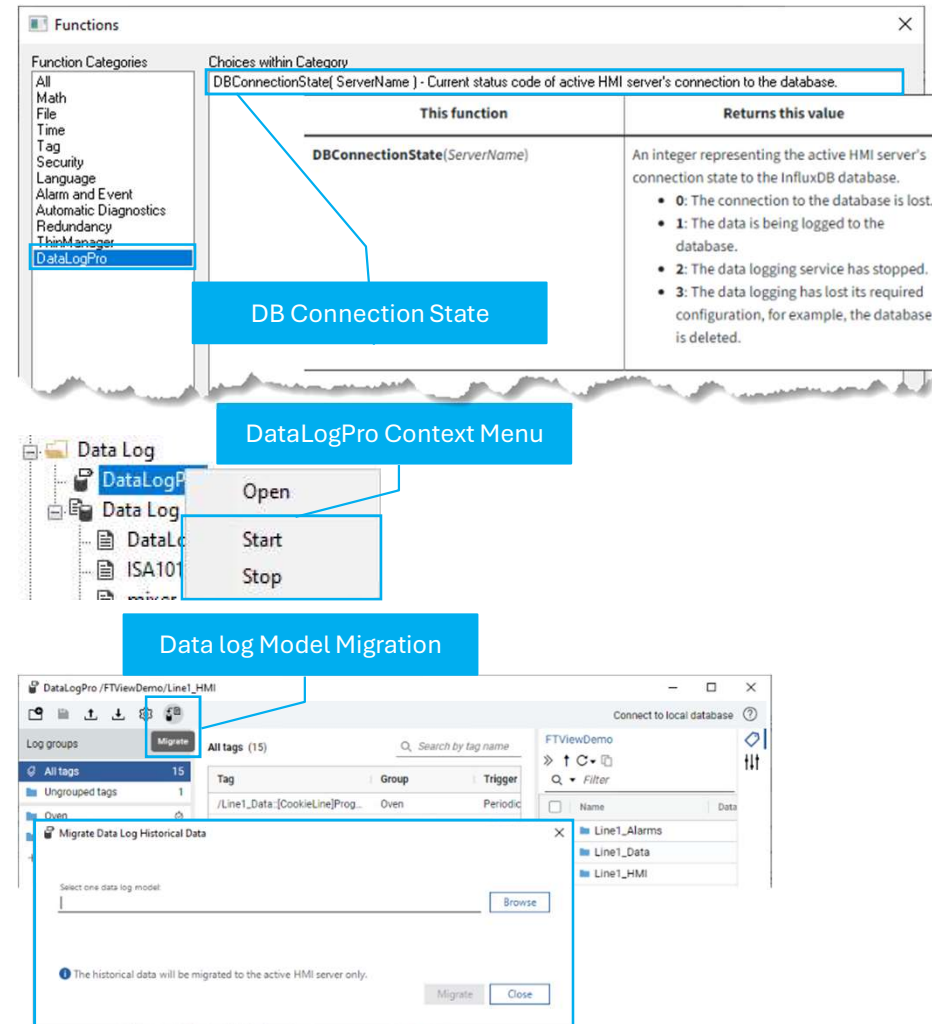
FACTORYTALK VIEW SITE EDITION V.15.00

Feature:

DataLogPro enhancements now feature real-time database connection status monitoring, operational control via context menu, seamless migration of historical data stored in data log model file sets to InfluxDB, and customizable locations for data storage.

Benefits:

- **Enhanced Monitoring:** Provides critical real-time feedback on the DataLogPro database connection status, enabling prompt identification and resolution of connectivity issues.
- **Operational Control:** Enhances DataLogPro operational On/Off control directly from the context menu.
- **Streamlined Migration \ Backfilling Process:** This feature enables the migration and backfilling of historical data from legacy data log models to modern InfluxDB databases, delivering data consistency and optimal performance.
- **Customizable Storage:** Allows flexibility in specifying storage locations for historical data, improving data organization and accessibility.



MQTT SUPPORT

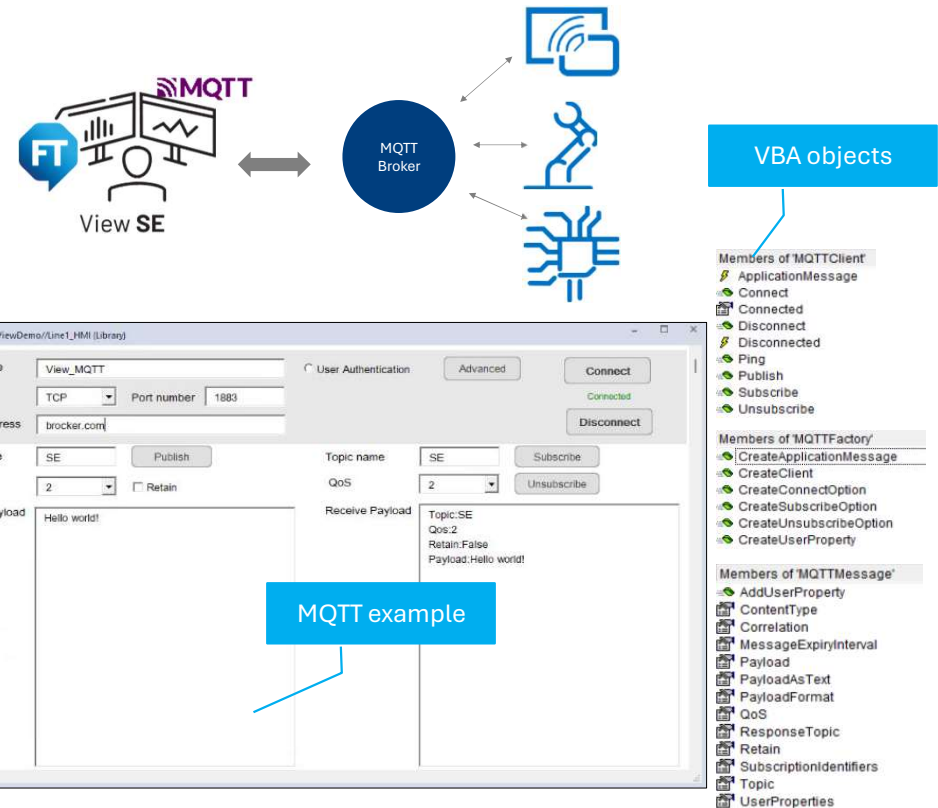
FACTORYTALK® VIEW SITE EDITION V.15.00

Feature:

Integrates MQTT libraries into VBA, enabling MQTT client creation that supports publisher and subscriber roles. Compatible with MQTT versions 5.0 and 3.1, including TCP and WebSocket protocols with TLS options.

Benefits:

- **Expanded Protocol Support:** Enables MQTT integration, a critical Internet of Things messaging protocol, facilitating direct communication with Internet of Things devices and cloud platforms.
- **Customization and Flexibility:** Offers adaptable MQTT property configuration, enhancing operational efficiency and Internet of Things system integration.
- **Ease of Configuration:** Includes an MQTT display library with example code, simplifying the implementation process and providing a practical, real-world application guide.



VERSATILE APPLICATION LIBRARY IMPORT CAPABILITIES

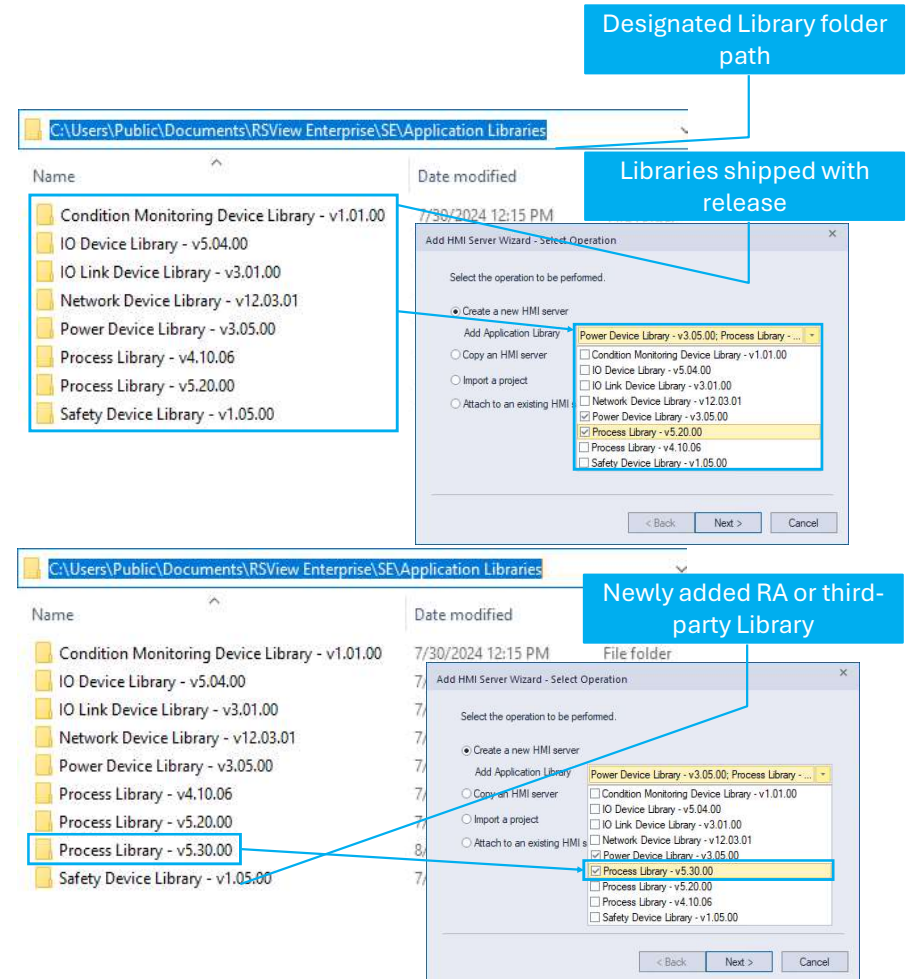
FACTORYTALK® VIEW SITE EDITION V.15.00

Feature:

This feature enables the import of multiple application libraries, including different versions of the PlantPAx® Library of Process Objects and Device Objects Libraries. This feature is available during both new HMI server setups and updates to existing servers.

Benefits:

- **Integrated Library Support:** Provides immediate access to the latest Device and Process libraries upon release, streamlining system setups.
- **Efficient Library Import:** Supports simultaneous imports of multiple library versions during server setups, reducing manual efforts.
- **Automated Library Updates:** Dynamically updates the import wizard to include new and third-party libraries that adhere to the required structure, enhancing future compatibility and extending system functionality.



RUNTIME NAVIGATION MENU – SUPPORT MULTIPLE NAVIGATION MENUS

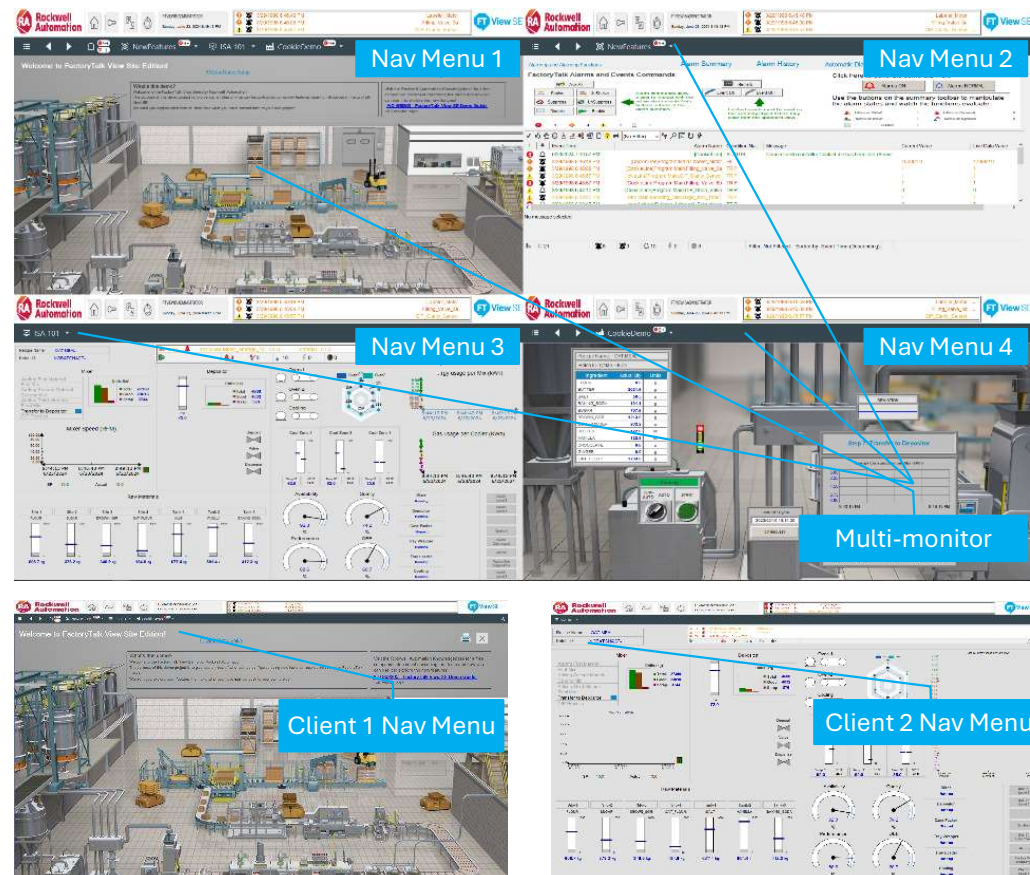
FACTORYTALK VIEW SITE EDITION V.15.00 AND
FACTORYTALK VIEWPOINT V.15.00 FOR SITE EDITION

Feature:

Now supports the creation and management of multiple navigation menus. This feature allows for the configuration of distinct menus during design, which can then be displayed across multiple runtime clients or monitors, each tailored to specific operational needs and roles.

Benefits:

- **Increased Operational Efficiency:** Operators can quickly access the most relevant controls and information tailored to their specific role or task.
- **Enhanced Situational Awareness:** Customized menus and highlighted search results help operators monitor and respond to operational needs more effectively.
- **Scalability and Flexibility:** Supports multiple monitors or clients, facilitating a versatile setup adaptable to various operational needs.
- **Improved User Experience:** Consistent menu appearance with optional controls, efficient search within menus, and auto-collapsing search panels reduce screen clutter and focus user interaction.



FACTORYTALK ALARMS AND EVENTS EMAIL NOTIFICATION

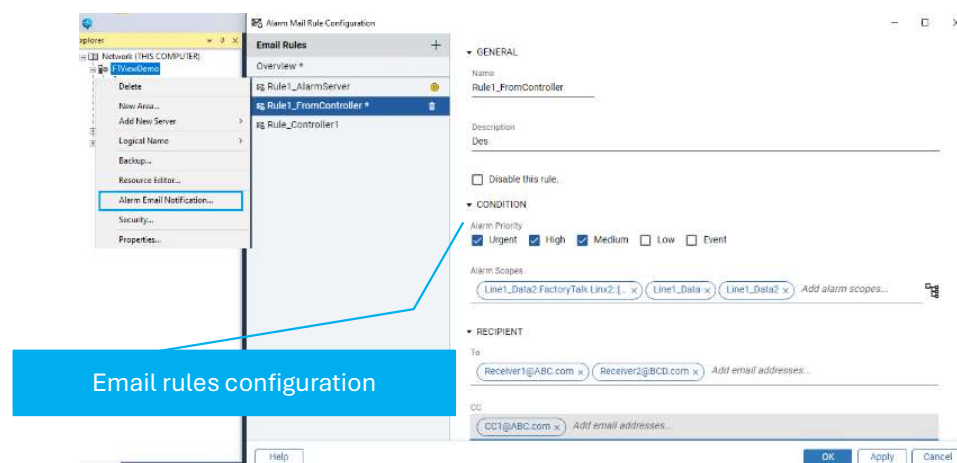
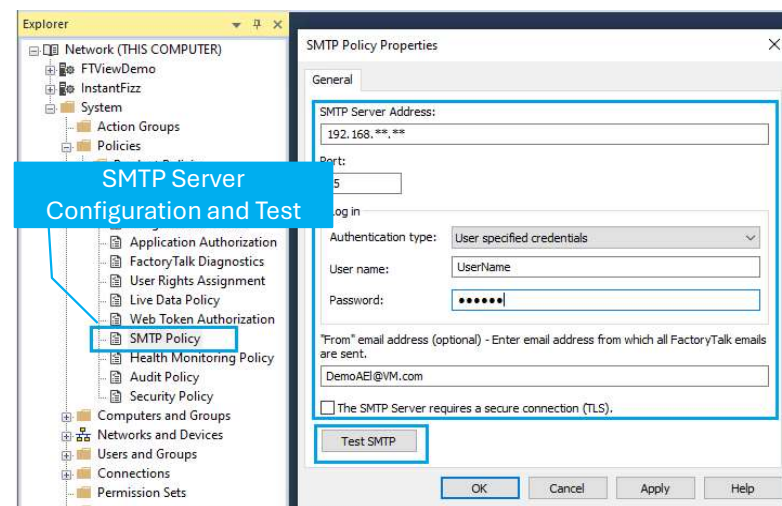
FACTORYTALK ALARMS AND EVENTS V.6.50

Feature:

FactoryTalk® Alarms and Events v6.50 now supports standard email notifications when scoped alarms or events are activated. Users can define alarm scopes based on priority within selected groups, with rules customizable per group.

Benefits:

- **Streamlined Notifications:** Provides a straightforward method for receiving alerts via email, enhancing promptness in critical situations. This standard functionality keeps users informed, similar to third-party applications.
- **Continuity in Service:** Serves as a fundamental notification tool, particularly useful as TeamOne is phased out, helping to maintain essential alerting functions without interruption.

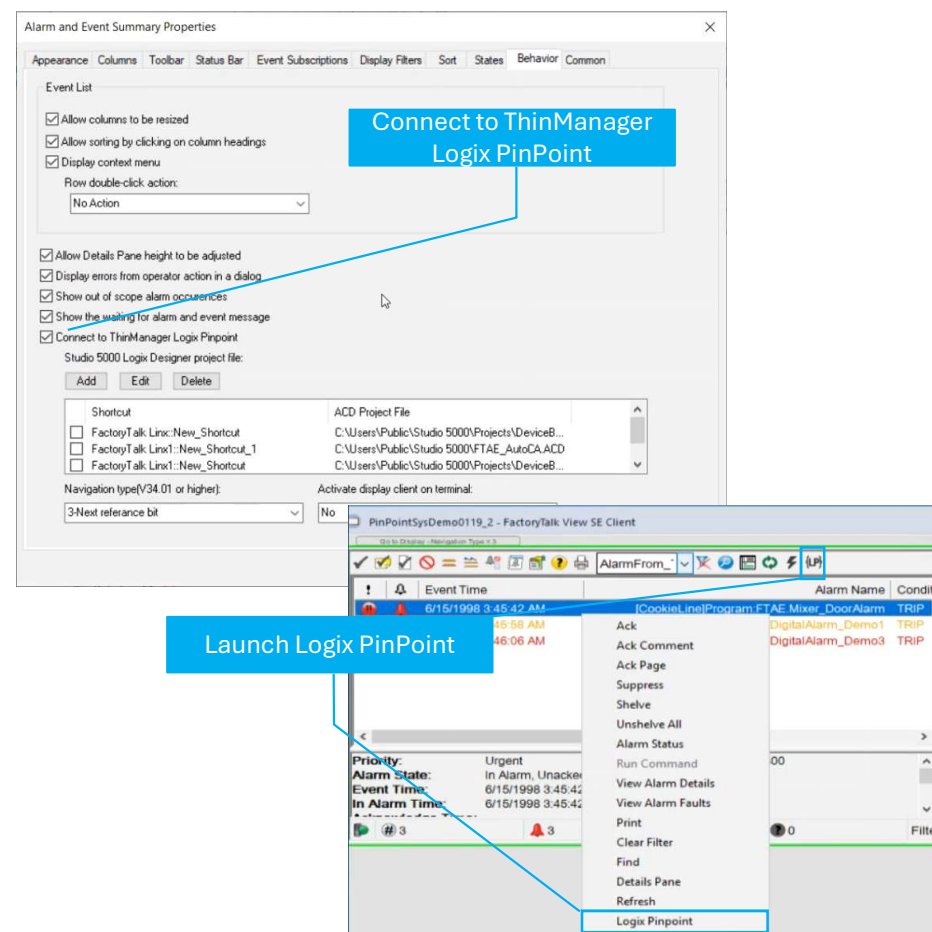


ENHANCED THINMANAGER® LOGIX PINPOINT CONFIGURATION VIA GUI

FACTORYTALK VIEW SITE EDITION V.15.00

ThinManager Logix PinPoint is a diagnostic tool that integrates with FactoryTalk View SE, allowing users to directly navigate to and diagnose issues in PLC code, enhancing troubleshooting efficiency.

- **Ease of Configuration:** Streamlines setup with a user-friendly GUI, eliminating the need for complex VBA scripting and making it accessible for users with limited programming skills.
- **Error Reduction:** Minimizes coding errors by using a structured interface for straightforward addition, editing, and deletion of configurations, enhancing system integrity.
- **Time Efficiency:** Speeds up configuration and deployment by enabling management of Studio 5000 Logix Designer® project files from the Alarm and Event Summary toolbar, saving time and effort.
- **Enhanced Troubleshooting:** Boosts diagnostic capabilities by allowing direct launching of Logix PinPoint from the Alarm and Events summary, providing quick access to the source of issues for faster resolution.





VIEWPOINT
MOBILITY

WEB CLIENTS SUPPORT FOR DATALOGPRO ON VIEWPOINT

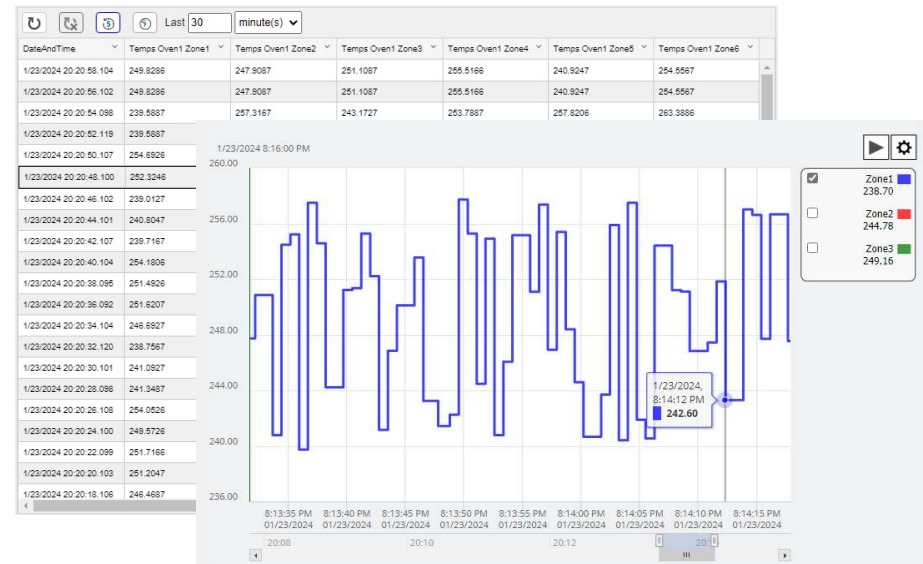
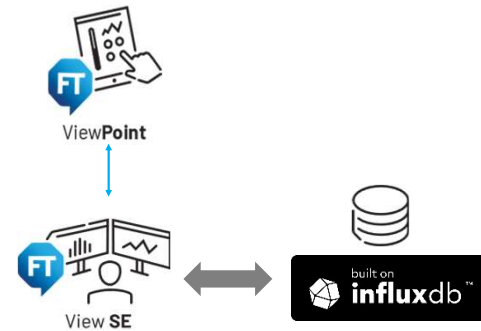
FACTORYTALK VIEWPOINT FOR SITE EDITION

Feature:

Expand access to DataLogPro from web clients and mobile devices, allowing mobile users to retrieve, visualize (DataGrid and TrendPro objects), and analyze data logged in InfluxDB™ from a web browser.

Benefits:

- **Enhanced Data Accessibility:** InfluxDB™ integration is now extended to mobile users, allowing for data access from anywhere.
- **Streamlined Data Interaction:** Users can easily retrieve, visualize, and analyze historical data directly from a web browser, enhancing the flexibility and efficiency of data management.
- **Improved Decision-Making:** Real-time access to historical data enables quicker, more informed decision-making in mobile and remote environments.
- **Cross-Platform Compatibility:** Delivers seamless data viewing and analysis across different devices, fostering better collaboration and productivity



WEB CLIENTS SUPPORT FOR APACHE ECHART WIDGETS

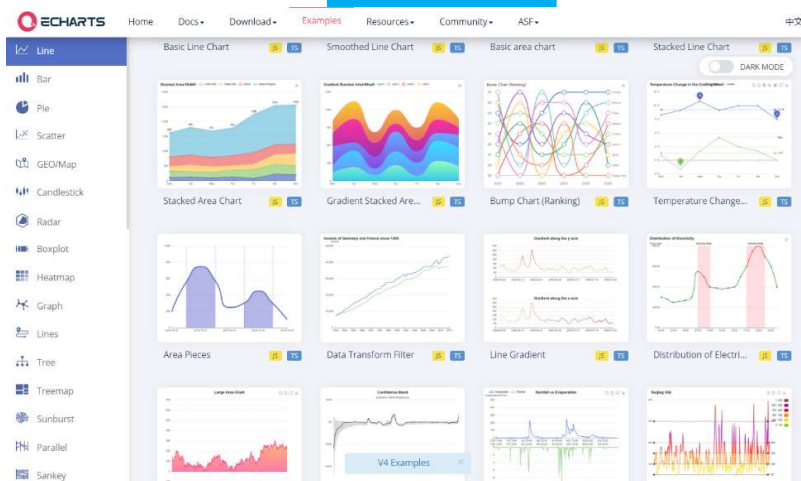
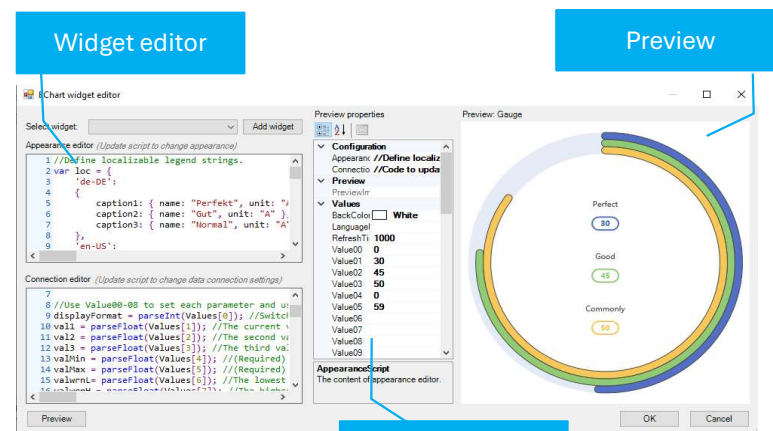
FACTORYTALK® VIEWPOINT FOR SITE EDITION

Feature:

Expand EChartsWidget support to web clients to provide data access anytime and anywhere and improve real-time decision-making.

Benefits:

- **Enhanced Accessibility:** Users can access sophisticated EChart widgets on web clients, enabling data visualization from any device, anywhere, enhancing the flexibility of monitoring and analysis.
- **Streamlined Development:** Widgets can be configured as embedded objects within FactoryTalk® View SE, simplifying the development process and integration into existing systems.
- **Advanced Visualization:** Provides the tools to build digital dashboards with rich, web-based widgets that adhere to modern visualization standards, dramatically improving the user interface and experience.



WEB CLIENTS SUPPORT FOR BUILT-IN SECURITY FUNCTIONS

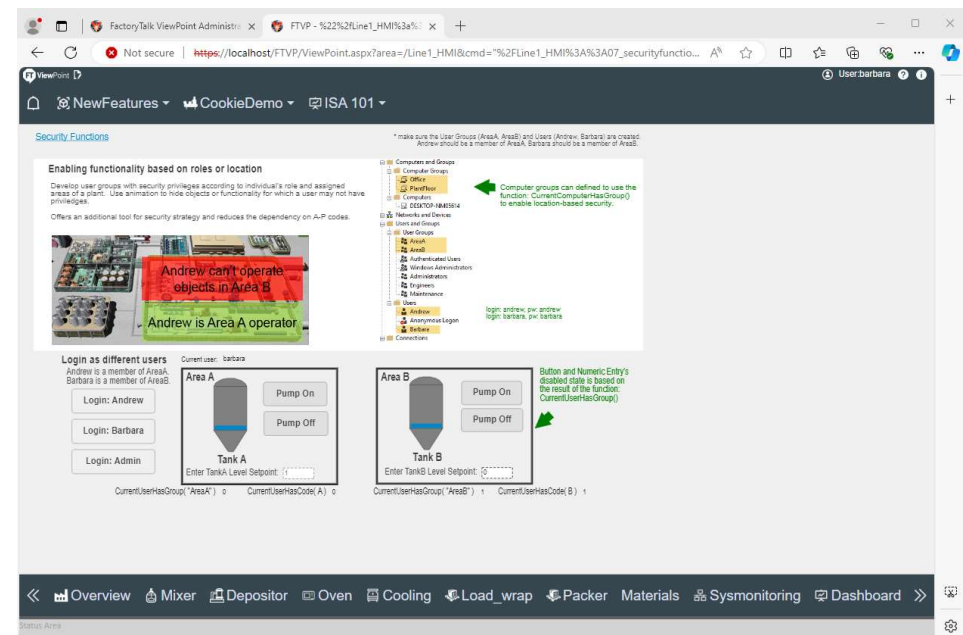
FACTORYTALK® VIEWPOINT FOR SITE EDITION

Feature:

- Support Built-in Security Functions on ViewPoint Web Client:
- `CurrentUserHasGroup(UserGroupName)`: Verifies if the logged-in user belongs to a specified group. Does not support Windows users on web client, returns a period ('.').
- `CurrentUserHasCode(SecurityCode)`: Determines if the current user has a specific security code.
- `CurrentUserName()`: Retrieves the name of the current user.
- `CurrentComputerHasGroup(Group Name)`: Confirms if the computer where the ViewPoint server is running belongs to a specified group.

Benefits:

- **Role-based Functionality**: Enables specific functionalities based on the user's role or location, confirming that only authorized users can access certain features or data.
- **Unified Security Across Clients**: Provides a consistent security strategy across both thick clients and web clients, enhancing overall system integrity and reducing complexity in security management.



WEB CLIENTS SUPPORT FOR BUILT-IN ALARM AND EVENT FUNCTIONS

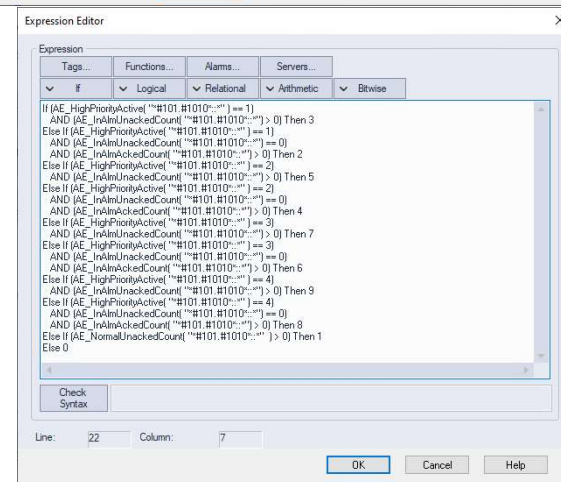
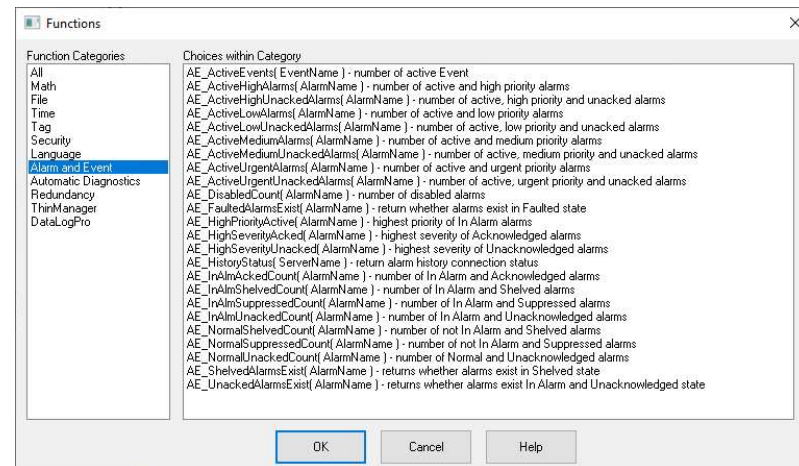
FACTORYTALK VIEWPOINT FOR SITE EDITION

Feature:

FactoryTalk ViewPoint now matches FactoryTalk View SE with full support for all 24 alarm functions. This extension includes support for alarm grouping, use of wildcard characters (? and *), and parameters within alarm functions, and the capability to handle long expressions in PlantPax applications, extending sophisticated alarm management to the web-based interface.

Benefits:

- **Consistency Across Platforms:** FactoryTalk ViewPoint now offers the same robust alarm functionalities as FactoryTalk View SE, delivering seamless operation and management across different platforms.
- **Enhanced Customization and Flexibility:** Users can now tailor alarm settings more precisely with extended support for grouping, wildcards, and parameters, improving the responsiveness and adaptability of alarm systems.
- **Advanced Alarm Handling:** The ability to use long expressions in alarm functions enables detailed and complex conditions to be monitored, enhancing control and safety in PlantPax applications.



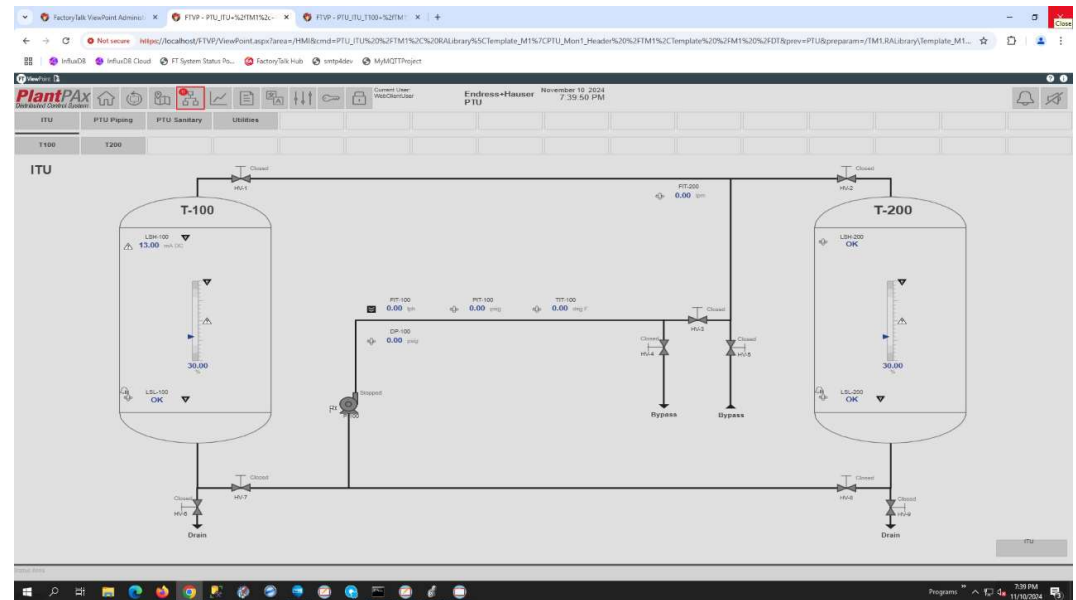
WEB CLIENTS SUPPORT FOR PLANTPAX

FACTORYTALK VIEWPOINT FOR SITE EDITION

Overview:

Web clients now support built-in security and FactoryTalk Alarms and Events functions, enabling the PlantPAx Library of Process Objects with FactoryTalk ViewPoint. PlantPAx recommends the use of:

- Read-only Web Clients viewing Level 1,2,3 overview type graphics
- **Graphical Framework** (FactoryTalk Alarms and Events Banner Patch is now available)
- Library of Process Objects **Symbols**
- Level 4 type graphics, including the Library of Process Objects Full and Quick Faceplates, are not supported due to the use of VBA in faceplates



WEB CLIENTS SUPPORT FOR MULTIPLE NAVIGATION MENUS

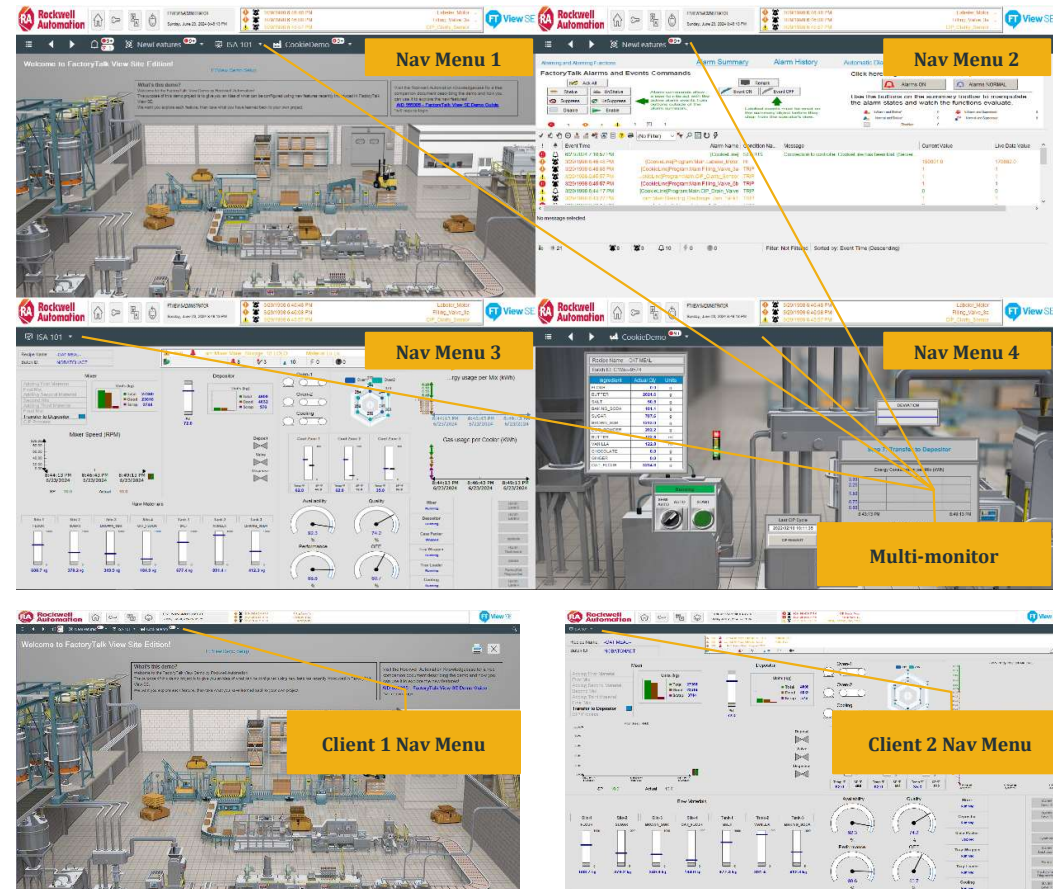
FACTORYTALK VIEWPOINT V.15.00 FOR SITE EDITION

Feature:

Support multiple built-in navigation menus, allowing each web client to display distinct menus tailored to specific operational needs.

Benefits:

- **Customized Interfaces:** Enables customization of web client interfaces with distinct navigation menus tailored to individual user needs.
- **Operational Efficiency:** Improves operational efficiency by allowing web clients to feature navigation designed for different roles and operational contexts.
- **User Satisfaction and Adaptability:** Increases adaptability and user satisfaction by providing web clients with more relevant and targeted navigation options.



KEY TAKEAWAYS



SCALABLE

1. Local Station
2. Distributed Server
3. Web-based

REAL-TIME VISIBILITY AND CONTROL

1. Real-time data access
2. Historical and Time series data

FUTURE READY

1. Influx Database:Cloud or On-Premise
2. MQTT Support
3. Datalog Upgrades



QUESTIONS?