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Welcome to FactoryTalk® Optix™

Rockwell Automation and ASEM™ collaborating to bring a new HMI offering to our visualization portfolio





Revolutionary software for HMI, IIoT, and Industry 4.0 applications...





A new, **open**, scalable visualization platform with **options**







www.factorytalkoptix.com













New, open, scalable visualization platform with options

DESIGN OPTIONS

DEPLOYMENT OPTIONS

GRAPHIC OPTIONS

EXTENSIBLE OPTIONS



Design and test your HMI projects in ways that you have only imagined



Create your application once and deploy to any device



Style your HMI graphics for a global audience



Built from the ground up with OPC UA and incredible extensibility





Build your HMI projects wherever you are





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™, available from FactoryTalk® Design Hub™
- Collaborative workflows allow modifications anywhere, anytime



No internet connection? No problem!

- Install FactoryTalk® Optix Studio™ locally on your laptop
- Seamlessly transitions from browser to desktop app for disconnected editing and deployment



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

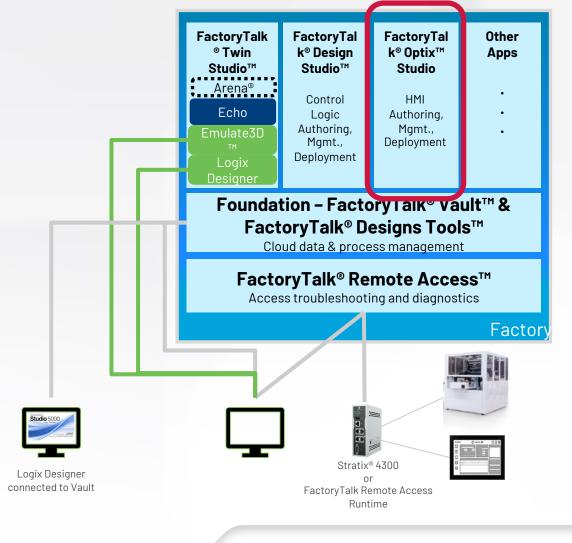
• Build projects and deploy dynamically – even at runtime





Design Hub™

One central location for all automation design needs on-demand





FactoryTalk® Optix™

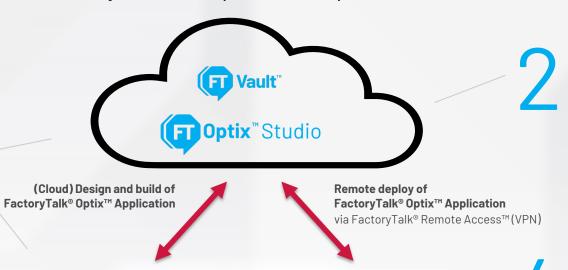
System components explained

FactoryTalk® Optix Studio™

- Integrated Design environment for creating FactoryTalk® Optix™ **Applications**
- Design & test your HMI projects from a web browser or desktop editor

FactoryTalk® Optix™ Application built by FactoryTalk® Optix Studio™

- Project application logic, objects, communication parameters, etc.
- **Runtime** runtime modules strictly necessary to run a specific application



FactoryTalk® Hub™ and FactoryTalk® Vault™ Integration

- Design editor available in the cloud
- Project storage and retrieval in the cloud

FactoryTalk® Optix™ Application is deployed to devices

- Locally from the computer hosting a local installation of FactoryTalk® Optix Studio™
- Remotely from the cloud-hosted version of FactoryTalk® Optix Studio™

Local deploy of FactoryTalk® Optix™ Application

FactoryTalk® Optix™ Runtime is running on devices

- Rockwell Automation® devices open and closed
- 3rd Party PCs and devices
- Rockwell Automation® & 3rd party



FactoryTalk® Optix™ Runtime

(Local) Design and build of

FactoryTalk® Optix™ Application

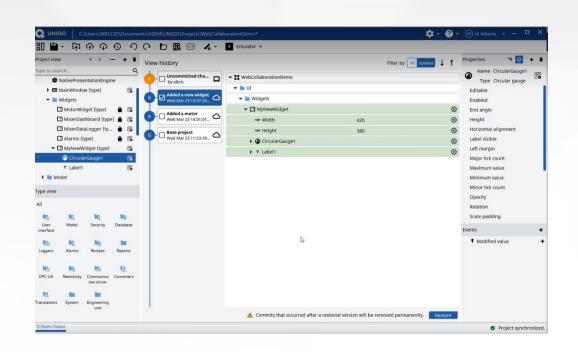
Multi-user collaboration and version control

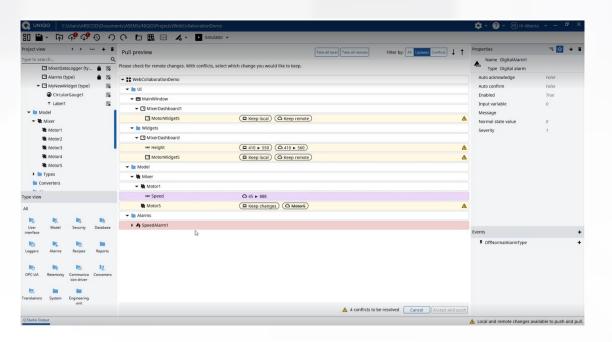


- Multi-user collaborative workflows enabled by the cloud allow modifications from anywhere, anytime
- Version management tracks changes and keeps track of who did what and when
- Integrated cloud storage and version control













Create an application once...



Deploy to any sized device

- Panel Station Distributed
- 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

Choose the client type when you deploy

- Native FactoryTalk® Optix™ client
- Native HTML clients viewable from a web browser





Flexible Licensing Model

Enabling users to pay only for what they need with feature tokens

By application feature

Feature tokens are sold in feature packages: XS → XXL

	Feature - Example	Feature token cost
Feature Menu	Feature A	1
	Feature B	2
	Feature C	1
	Feature D	3
	Feature X	1

By feature package

Feature packages can easily be upgraded

Feature packages	Feature tokens included
XS	5
S	8
M	11
L	15
XL	21
XXL	28

How do feature tokens work?

- Applications are created using FactoryTalk® Optix Studio™, where feature choices are made based on the functionality needed.
- FactoryTalk® Optix Studio™ verifies the features configured in the application and how many feature tokens are required for runtime.



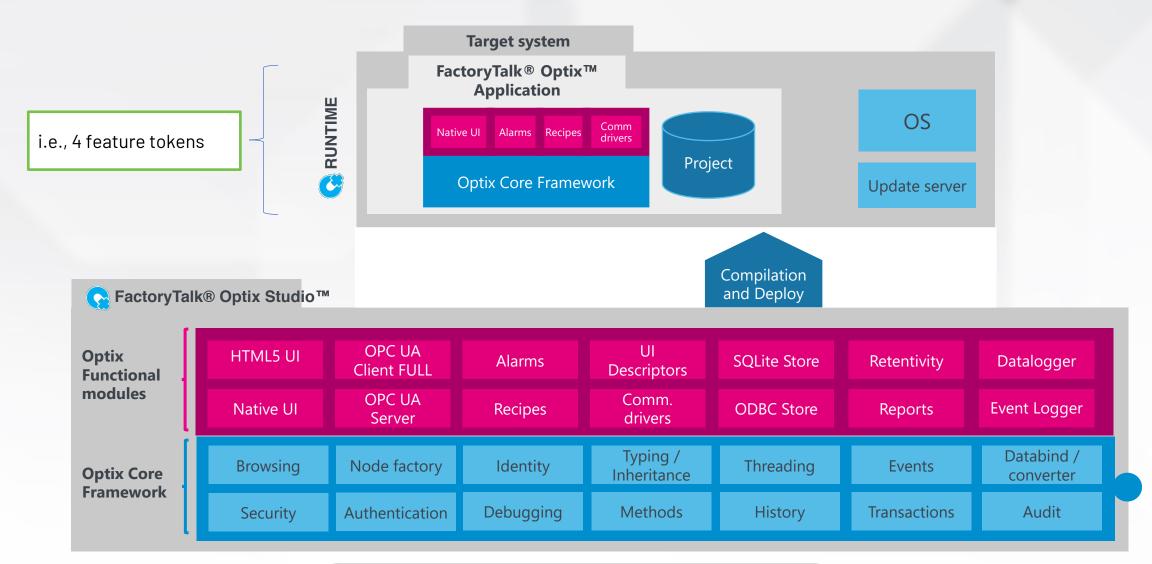








Licensing Example







Responsive displays



Build a display once and view it on any piece of glass

- Relative positioning of the objects enables responsive interfaces adaptable to any form factor or display resolution.
- Automatically adaptable to various formats (wide/4:3) and resolutions (HD, Full HD)
- Identical native and HTML5 client rendering









Multi-language and international settings



Preferences unique to each individual user

- Language selection
- International settings
- Measurement units
- Automatic unit conversions
- Date and time format







Logging, reporting and dashboarding

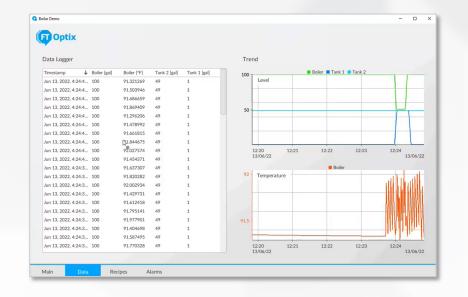


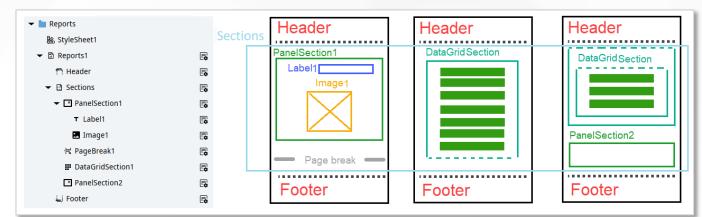
Simple database interface available for all components of the project

- Display historical or real-time data
 - Alarm history
 - Trending
 - Recipes
 - Data Grid
 - Text box control

Lightweight reports and dashboarding

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







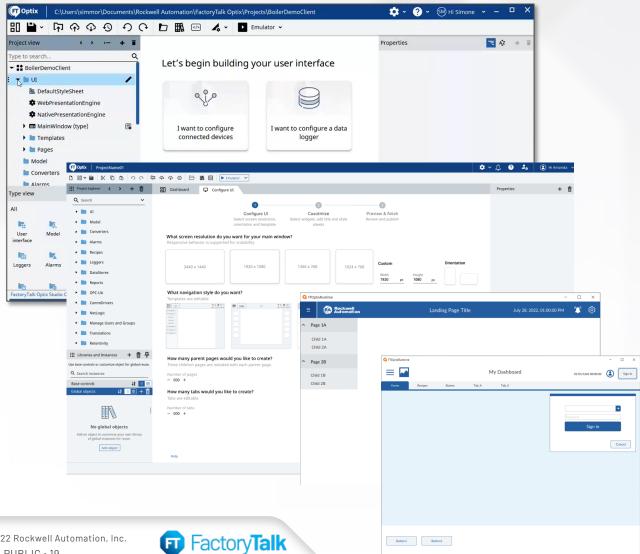


Design wizards and project templates



Easy workflows to help you design your applications

- Wizard-based workflows for screen layouts, communication drivers, data loggers, recipes and alarms
- SVGs and Advanced SVGs
- Dynamic link filters and deep crossreferences to help you find anything no matter where it's referenced
- Start projects with modern templates, navigation, login, alarms and notifications
- Customize and reuse templates, accelerating your project delivery with consistency.





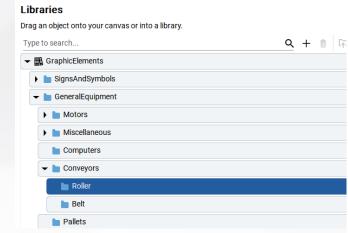
Libraries and library management

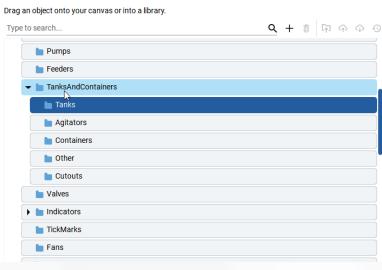


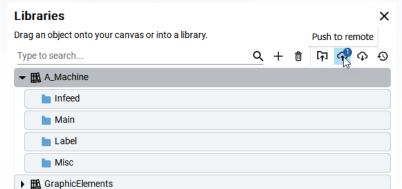
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Extensibility, reuse and management made simple

- 1,000s of graphical objects
- Industry standard objects
- Search to quickly find and filter objects
- Logical folder organization
- Reuse made easy drag n drop
- Rockwell Automation standard libraries
- 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









X

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New remote library

New folder

Libraries

Drag an object onto your canvas or into a library.

Libraries

⊞ A_Machine

⊞ Scripts

► III GraphicElements

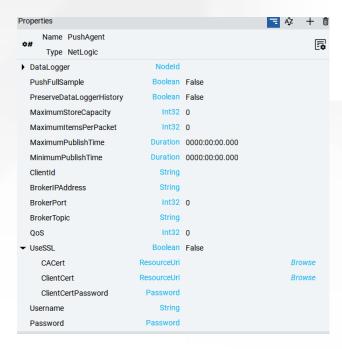
Flexible and secure connectivity

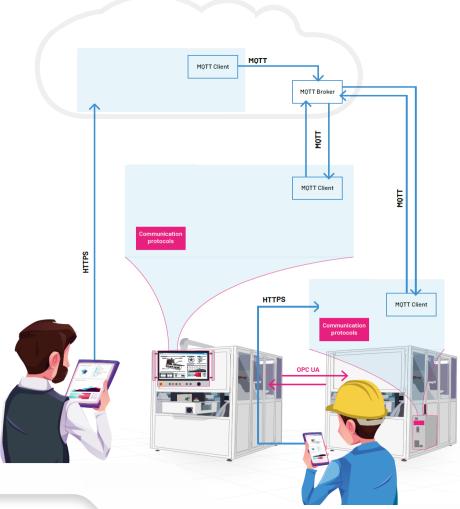


Built-in reliable connectivity - from the controller to the cloud

- Preferred Rockwell Automation® connectivity
- Native IOT connectivity (MQTT)
- Secure HTTPS protocols
- Native OPC/UA protocols
- Native 3rd party drivers included

■ MELSEC FX3U Driver		
S7TCP driver ■		
MELSEC Q driver		
S7 TIA PROFINET driver		
OMRON Fins Driver		
Ethernet IP Driver		
CODESYS Driver CODESYS Driver		









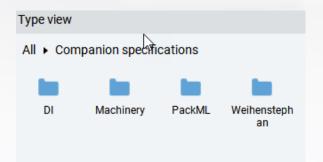
Industrial interoperability

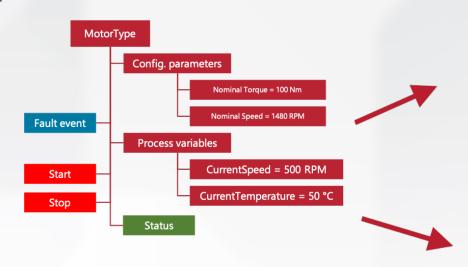


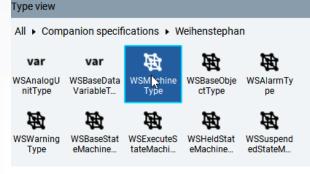
FactoryTalk® Optix™ has OPC/UA in its DNA

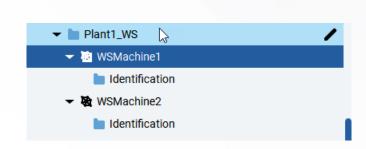
- True object-oriented design
- Machine-to-machine communications
- Full support of OPC/UA companion specs

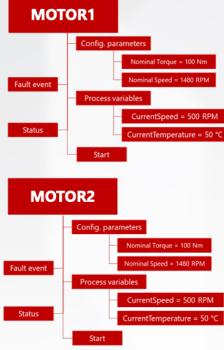














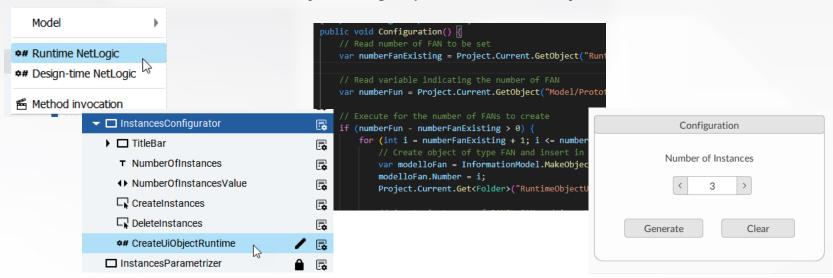


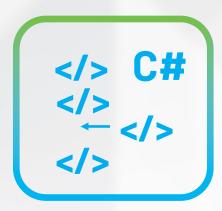
Open interfaces with scripting capabilities

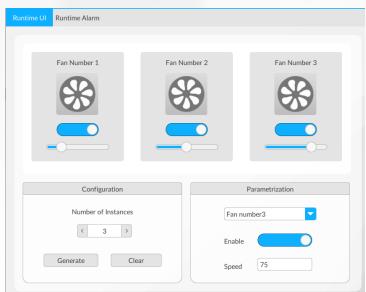


Unlimited customizations and automatic generation

- 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











FactoryTalk® Optix™

Feature Summary Overview

Design options

Design & test your HMI projects directly from a web browser

Collaborative workflows allow modifications from anywhere, anytime

Version management tracks changes keeps track of who did what and when

Build a project dynamically, by scripting, or even at runtime

Deployment options

Flexible host hardware

Panel • Station • Distributed

Pay only for what you use

Graphic options

Responsive graphics

Reporting, dashboarding

Style sheets

Multi-language

Extensible options

Library management

3rd party drivers

IOT native connectivity

Full support of OPC/UA companion specs

Open interface with C# scripting





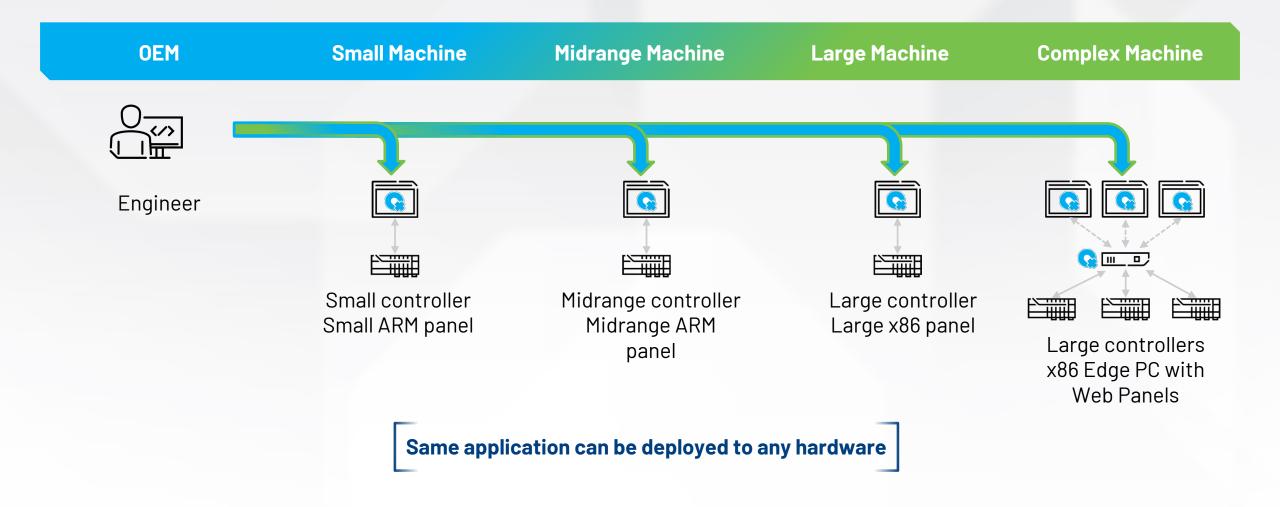






FactoryTalk® Optix™ reference architecture - OEM

Same application can be deployed to any hardware

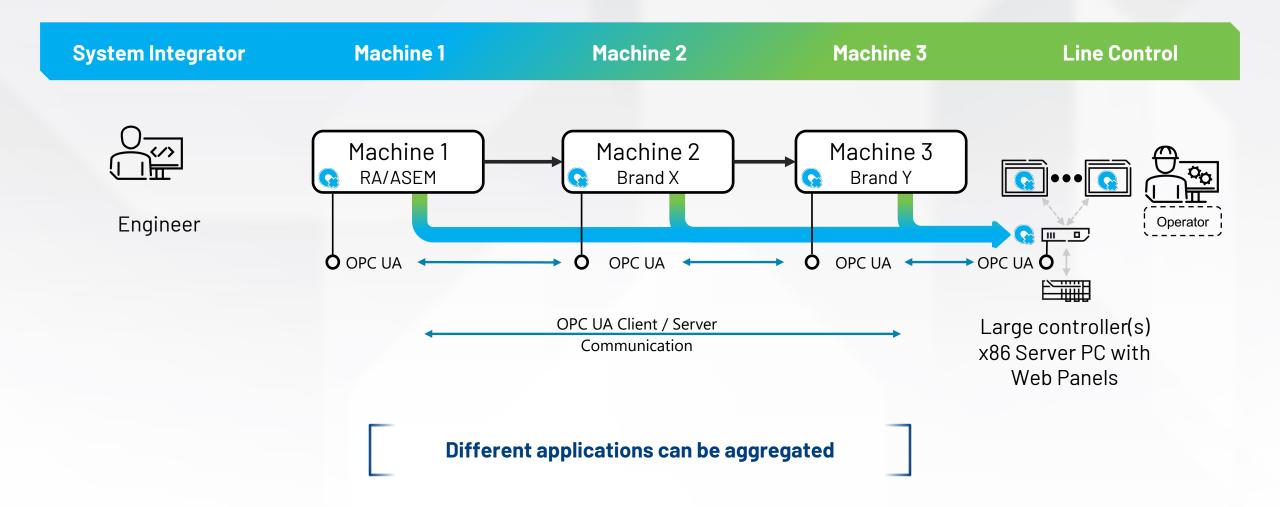






FactoryTalk® Optix™ reference architecture – System Integrator

Different applications can be aggregated









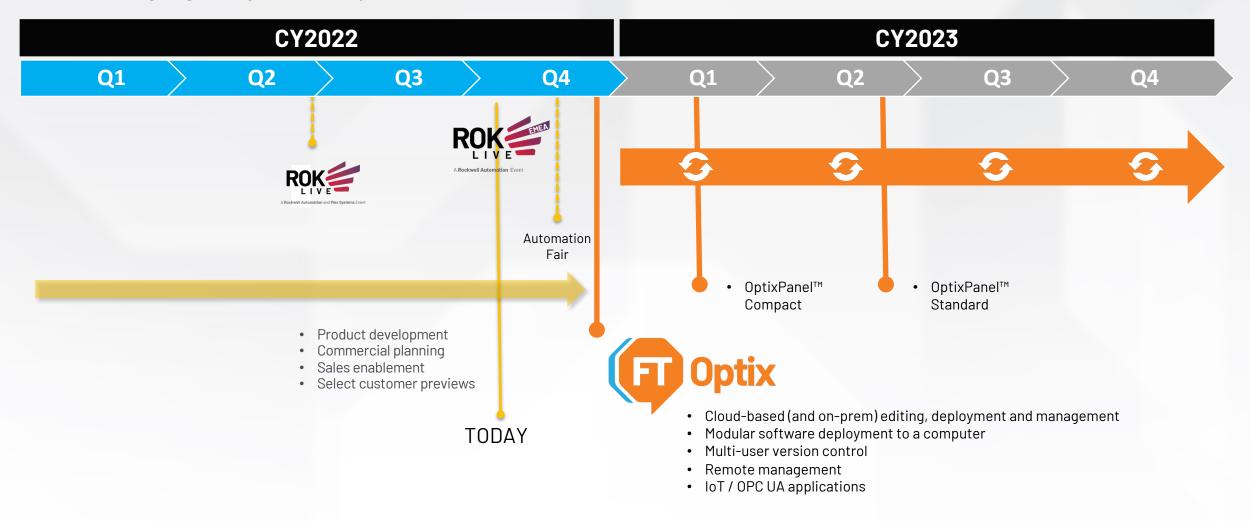




FactoryTalk® Optix™ timeline

Pre-release activities Release planned, subject to change

Release highlights by calendar year







Visualization solutions with FactoryTalk® Optix™

	Modular HMI	Panel HMI	HMI SW Station
Key Value	Just enough software on small compute, not full featured HMI	Closed system Customer buys an HW panel with embedded SW	Full featured HMI on small footprint, small systems

Available in FY23

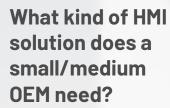


Initial release





Embedded HMI terminal OptixPanel™ coming in 2023



- · Easily repeatable
- · Cost-effective
- Minimal level of IT involvement
- Low-end IOT connectivity
- Simple machine monitoring





Initial release

OptixPanel[™]

The embedded hardware solution optimized for FactoryTalk® Optix™

Compact

OEM focus - small machines, simple applications

- Expected AFC: Q2, FY23
- Specifications
 - ARM i.MX 8M Mini
 - Wide display sizes: 4.3" and 7"
 - Resistive and PCAP touch

Standard

OEM focus – midrange machines and applications

- Expected AFC: Q3, FY23
- Specifications
 - ARM i.MX 8M Plus
 - Wide display sizes: 7", 10.1", 12.1", 15.6", 18.5",
 21.5"
 - 4:3 display sizes: 8.4", 10.4", 12.1", 15"
 - Resistive and PCAP touch





Keep up with the latest news Optix









Introducing a new, open, and scalable visualization platform with options

Call to Action: Get involved and learn more

- Visit our PRE-LAUNCH page to be among the first to learn more about features, availability, and pricing
- 2. Engage, the Rockwell Automation user community
 - Join the **SaaS for Design Insights Community** to stay up-to-date, help us shape the future, and connect with other enthusiasts



http://factorytalkoptix.com



https://engage.rockwellautomation.com/communities/insights













expanding human possibility®









