FACTORYTALK OPTIX

New, open, scalable visualization platform with options

v5.00 - December 25

ASEM
A ROCKWELL AUTOMATION COMPANY

AGENDA

1 FactorytTalk Optix Platform

2 Key Features

3 Business Model

FACTORYTALK OPTIX PLATFORM

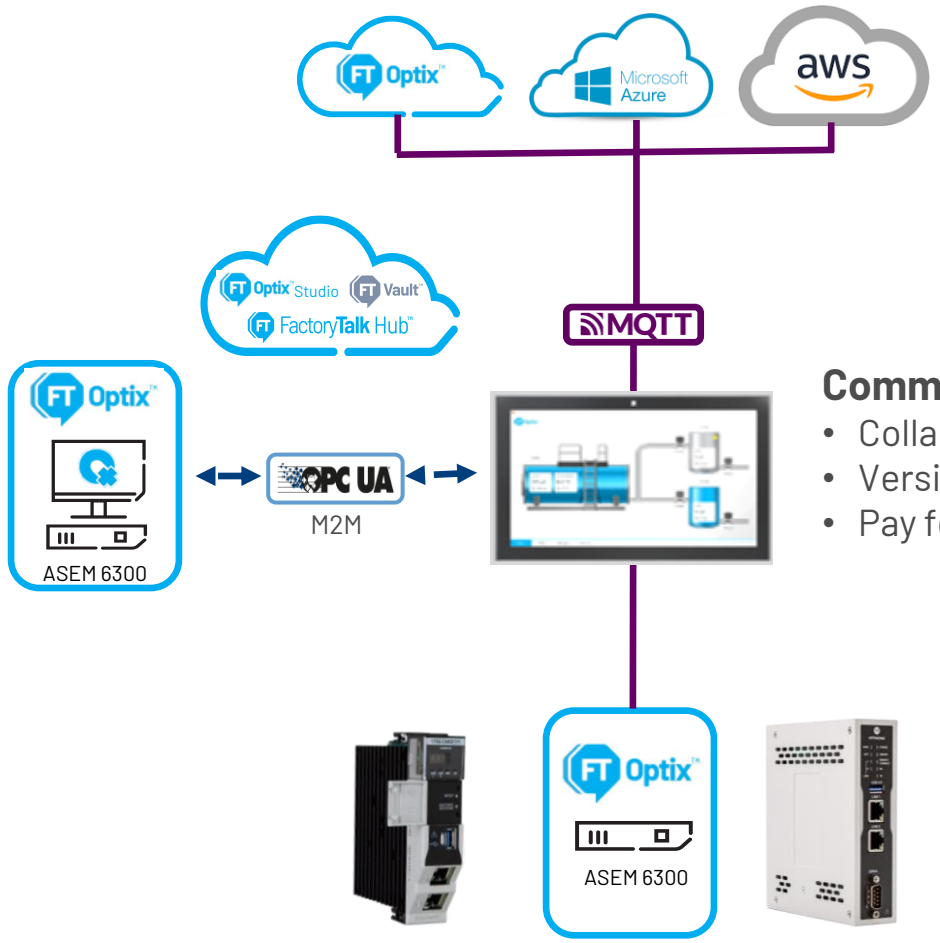
PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

THE FACTORYTALK OPTIX PLATFORM

FactoryTalk Optix for SCADA
- System configuration and monitoring
- Cloud-hosted deployment
- Remote manage and deployment

FactoryTalk Optix for HMI
- Responsive Graphics
- Embedded and Station deployment
- 3rd party Drivers
- MQTT & OPC UA

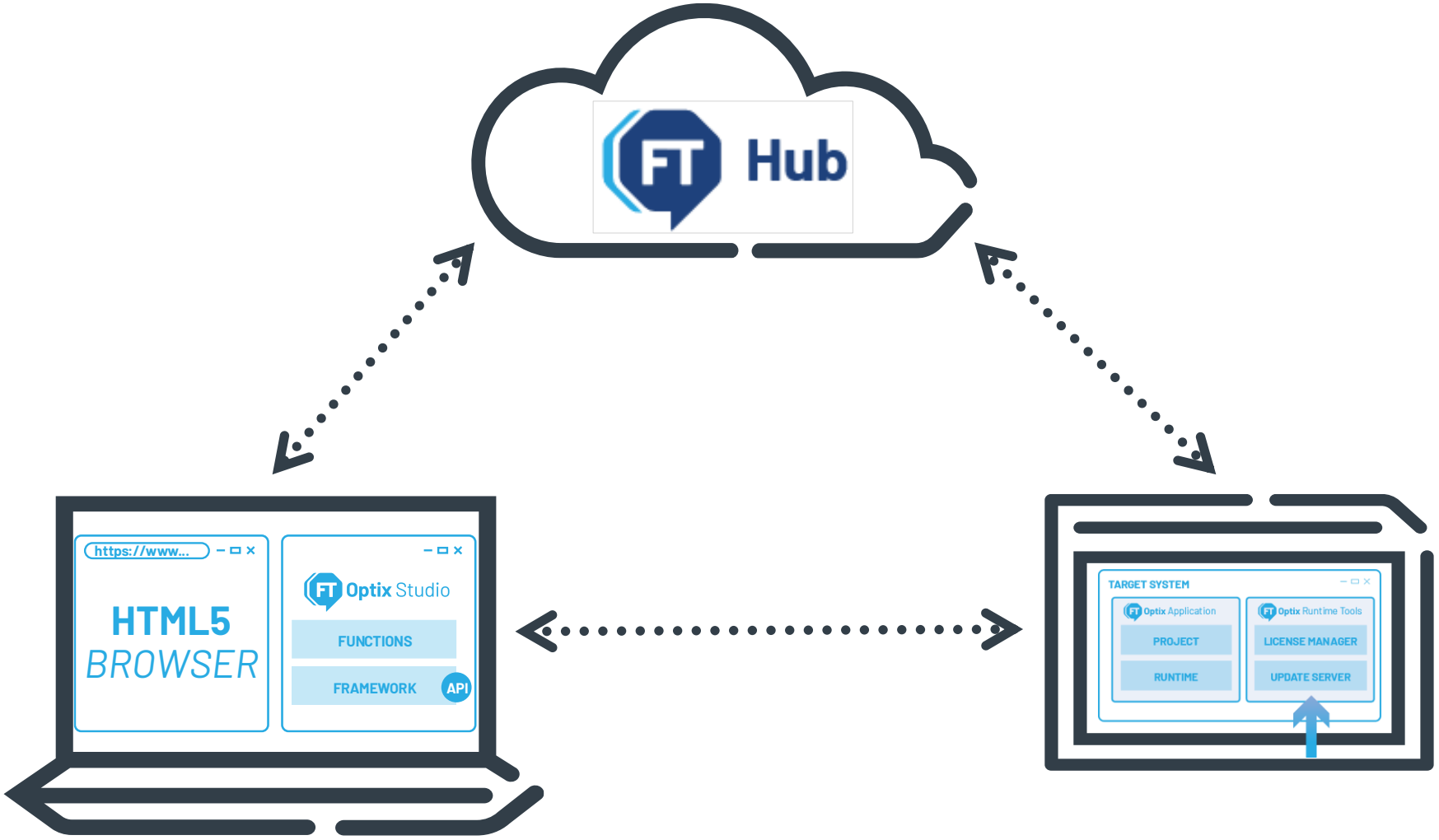
FactoryTalk Optix for Edge
- IOT connectivity
- Edge applications
- Run as a service
- Embedded runtime devices



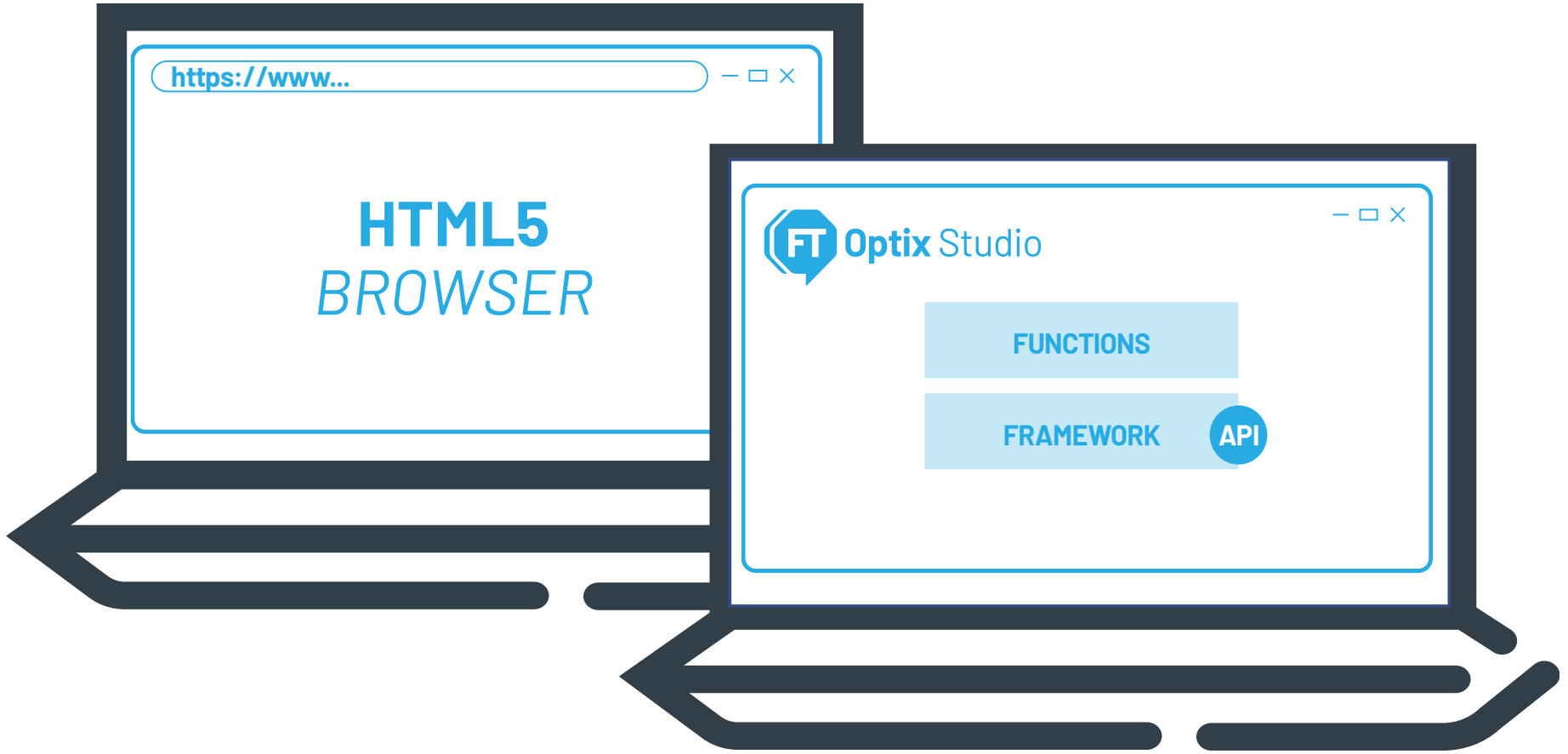
Common Platform
- Collaborative Workflows
- Version control
- Pay for only what you use

PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

PLATFORM ARCHITECTURE

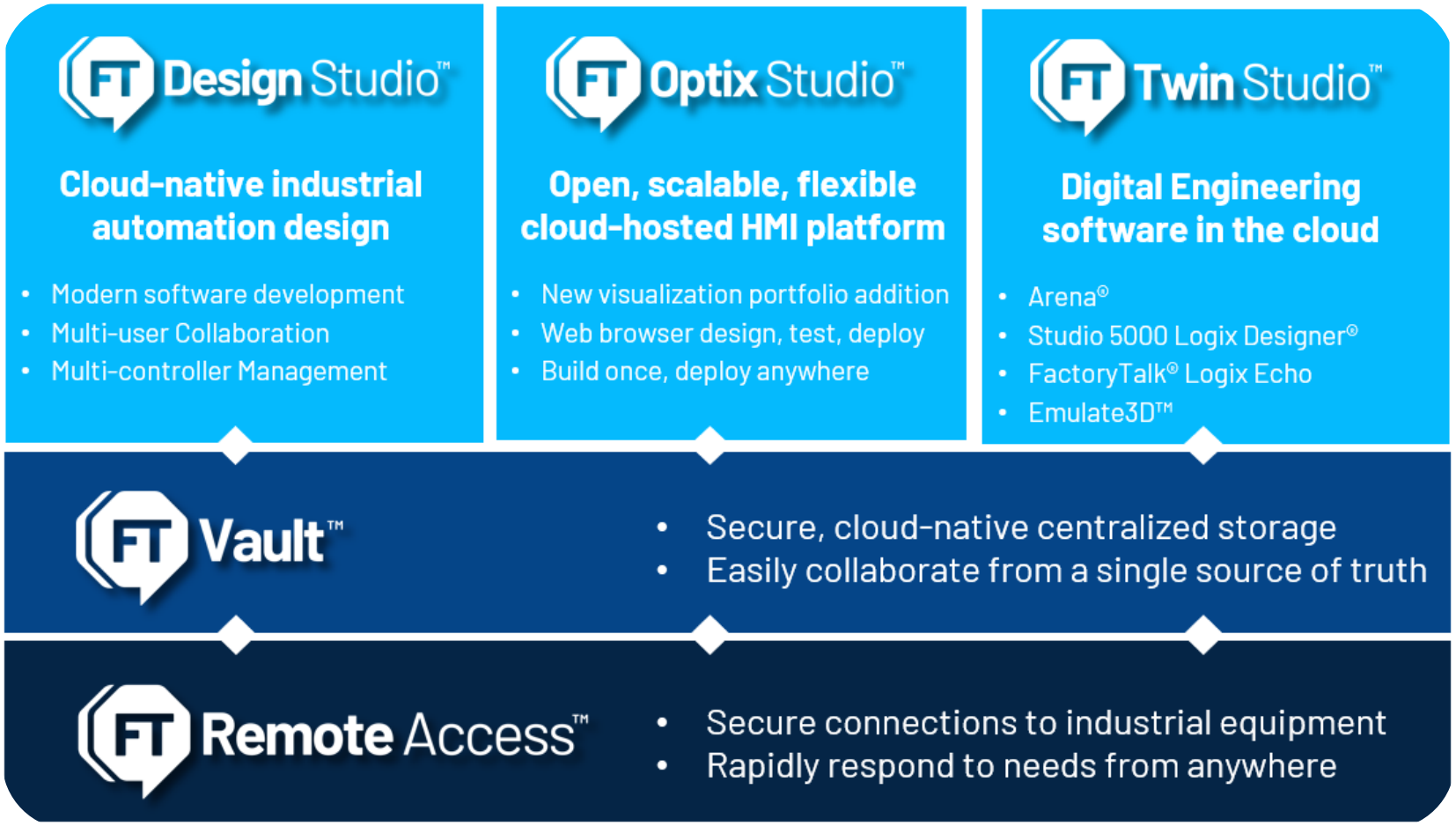


PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

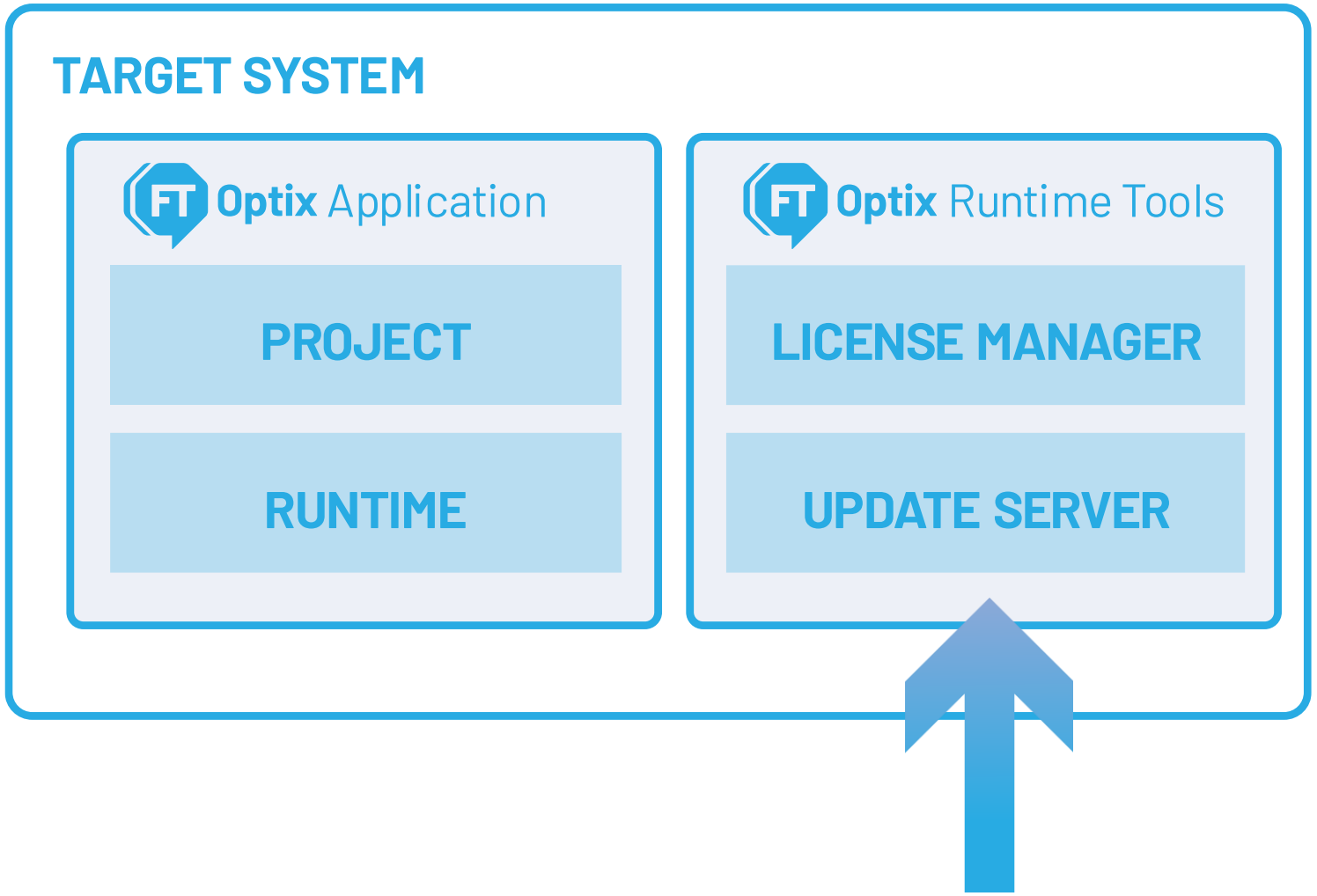


PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

FT Hub



PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.



PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

KEY FEATURES

KEY FEATURES - SUMMARY

FT Optix™

New, open, scalable visualization platform with **options**

DESIGN OPTIONS

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

DEPLOYMENT OPTIONS

Create your application once and deploy to any device

GRAPHIC OPTIONS

Style your HMI graphics for a global audience

EXTENSIBLE OPTIONS

Built from the ground up with OPC UA and incredible extensibility

PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

NATIVELY OPC UA

- **<u>Natively based</u>** on the OPC-UA standard
  - Data Access
  - Alarm and Conditions
  - Historical Access
- All **project's resources** can be exposed as **OPC UA objects** by the OPC UA Server

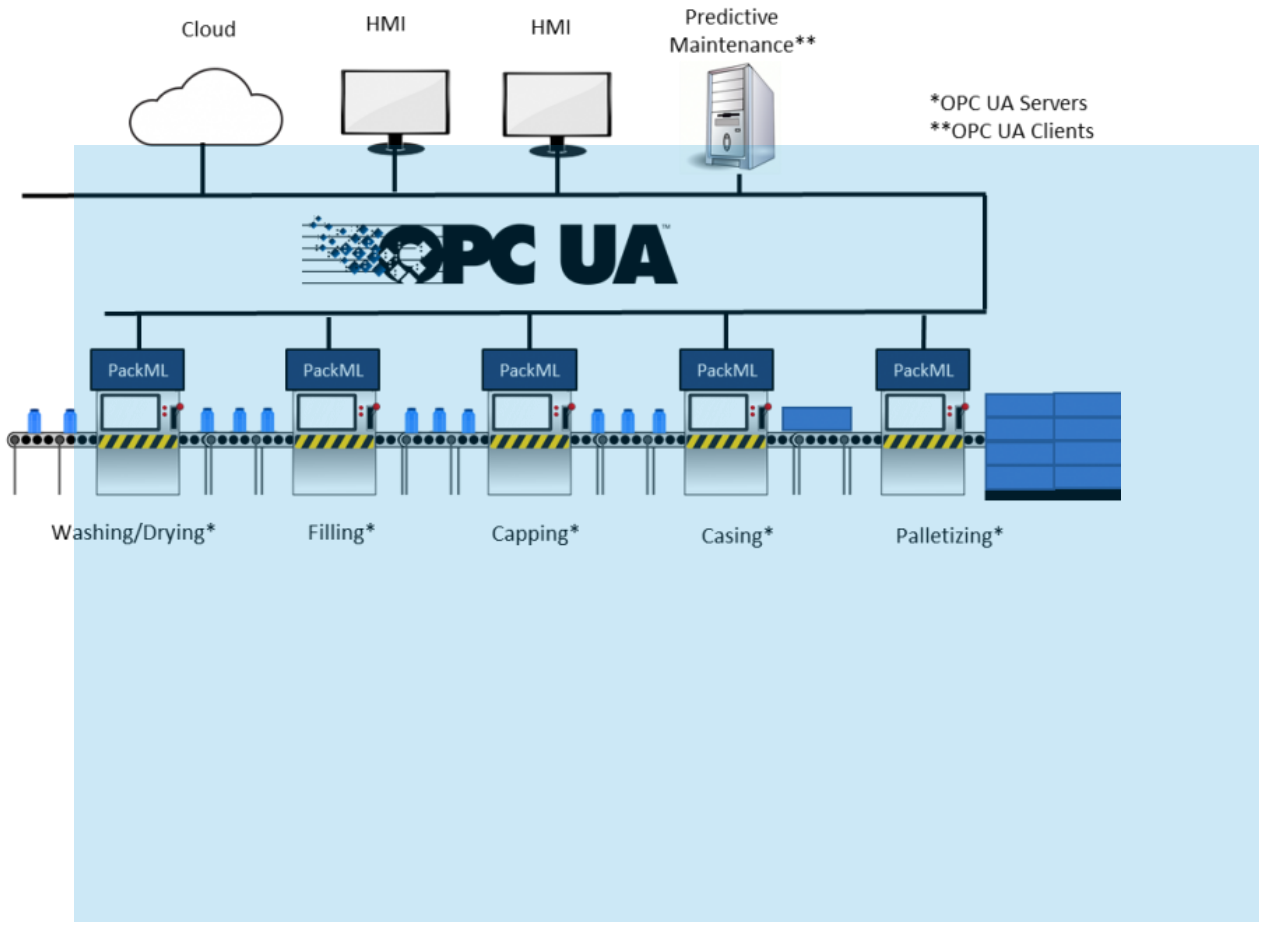
PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

NATIVELY OPC UA

- FT Optix applications as **Client-Server** architectures

- Full support of **Companion Specifications**
  - MTP, PackML, Machinery…

COMPANION SPECIFICATIONS

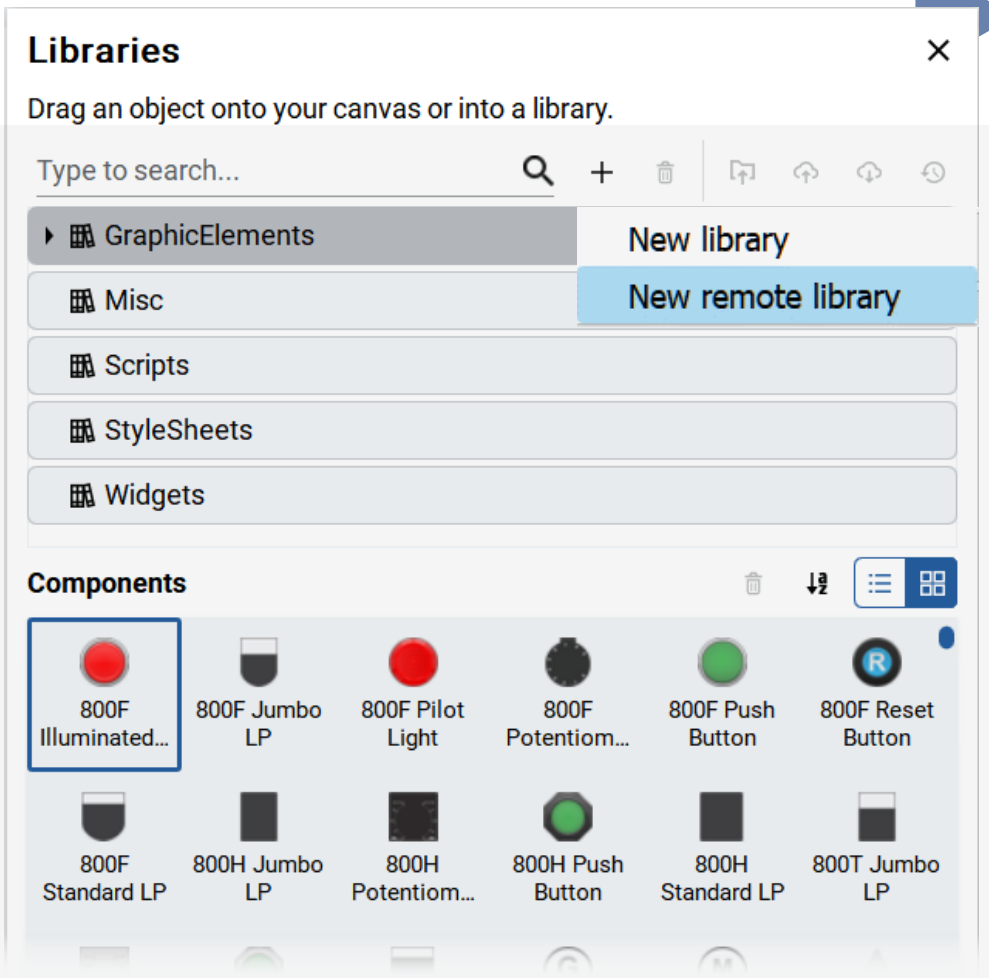


- The Companion Specifications are **information models** built by industry groups on the basis of the OPC UA Standard Model.

- They define:
  - Data types
  - Methods
  - State Machines
- for **industry-specific** applications and objects.

LIBRARIES

- Widgets, Scripts and **Graphic Elements**
- Search to quickly find and filter objects
- Custom libraries with Multi-user collaboration through Git integration



SCRIPTING

OPEN API

C# language

Edit and **debug** via Visual Studio
or Visual Studio Code

CUSTOMIZATION

Create Runtime logic for
customized functionalities

Extend the source code
of native features

INTEGRATION

Integrate existing libraries
or **3rd party** code

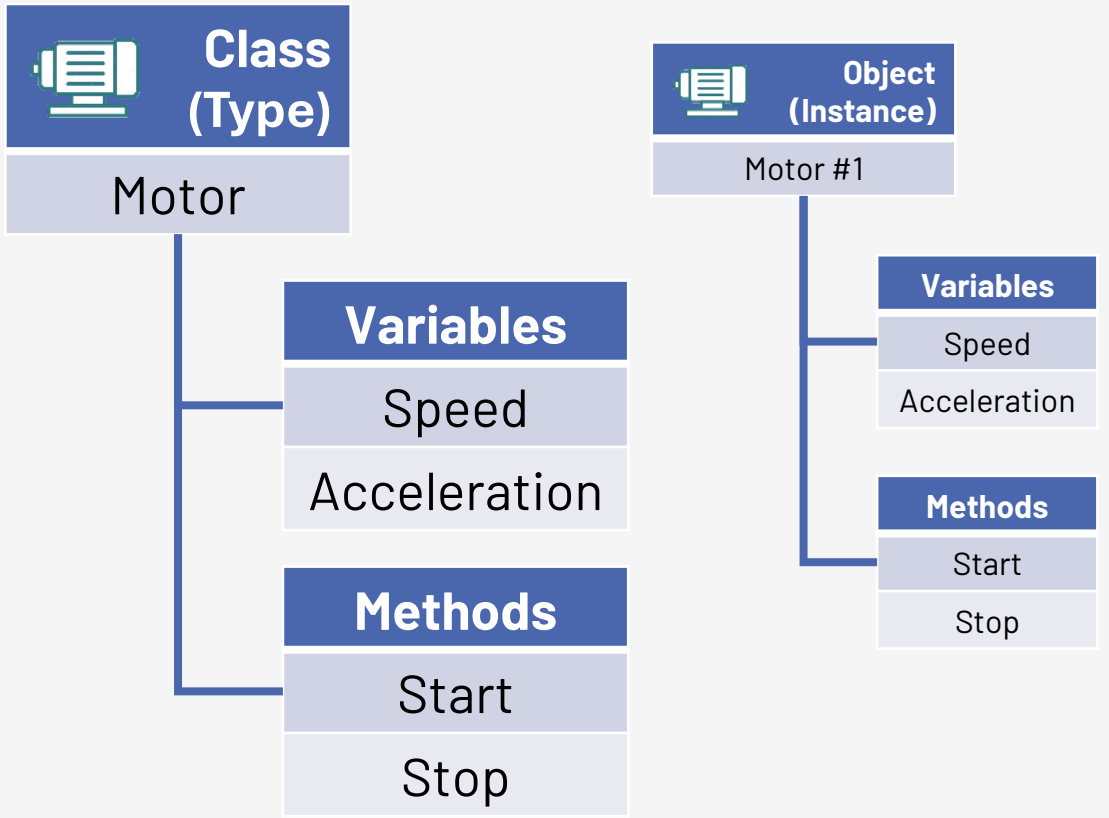
AUTOMATION

Automate tasks by executing
scripts at **Design time**

Generate parts of the project
at **Runtime**

OBJECT-ORIENTED PROGRAMMING

- Create **modular**, **reusable** components
  - Variables
  - Widget
  - **Core components** (alarms, datalogger…)
- Project development become
  - more **efficient**
  - more **maintainable**



STUDIO WITH SOFTWARE-AS-A-SERVICE MODEL

COST SAVING

Use without spending time on installation, upgrade, maintenance

SCALABILITY

Subscription model allows to scale as needed

WHATEVER VERSION

Access to the latest version and to all previous ones

ANYWHERE ACCESS

Access from any PC with an internet connection

STUDIO WITH SOFTWARE-AS-A-SERVICE MODEL

Don’t have Studio installed on your PC?

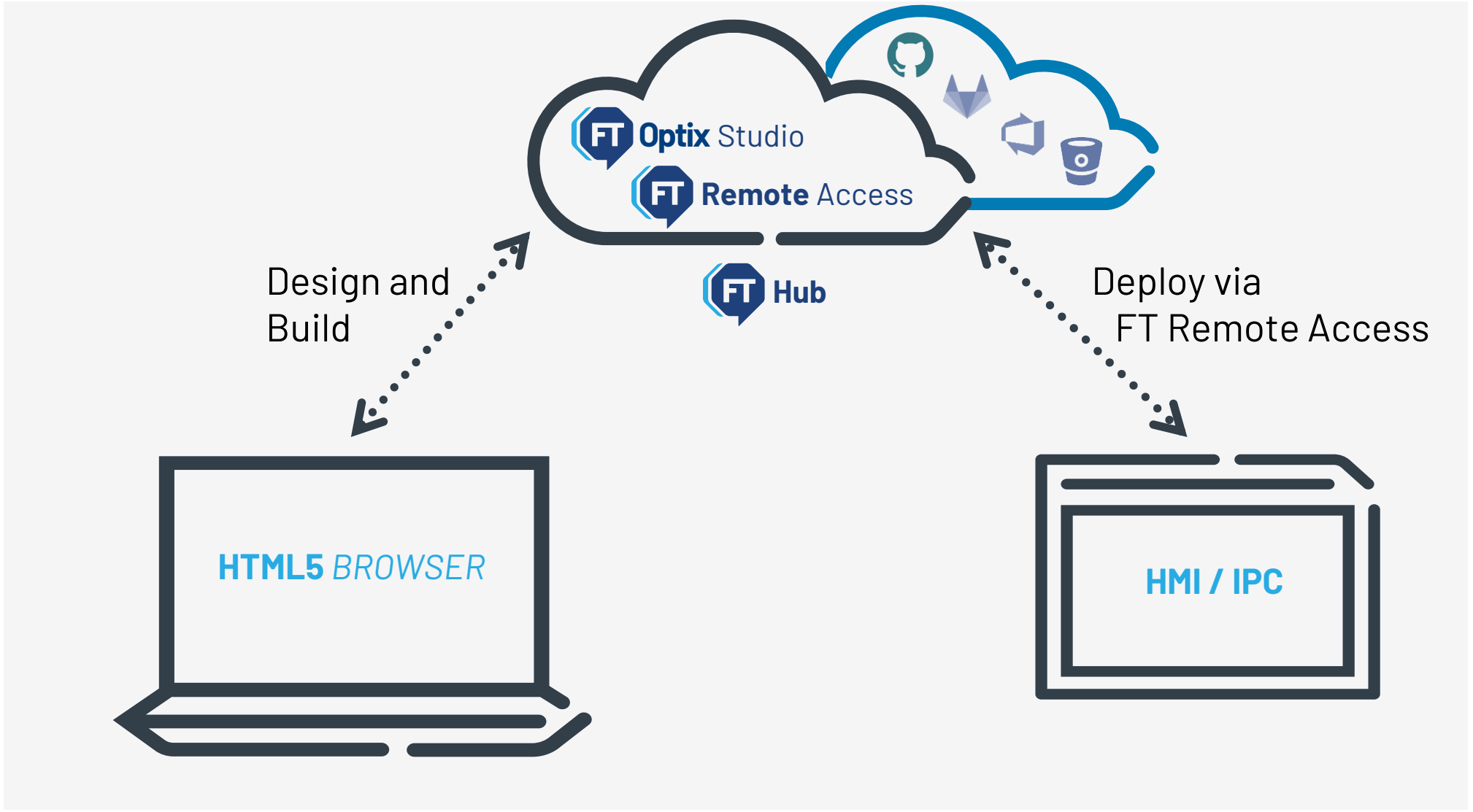
Design, test, and deploy
your HMI projects
directly from a web browser

No internet connection?

Install or Use
FactoryTalk Optix Studio
locally on your laptop

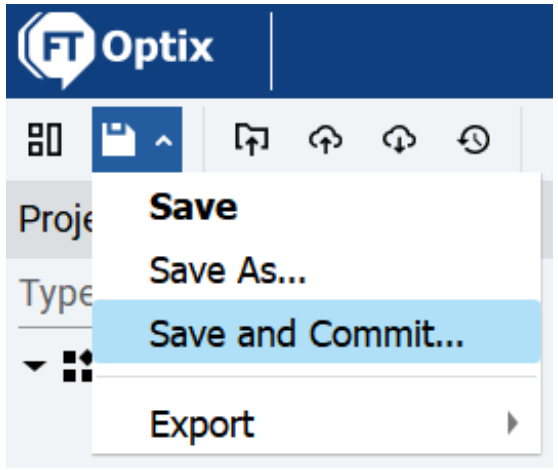
SEAMLESSLY TRANSITIONS FROM WEB TO DESKTOP APP

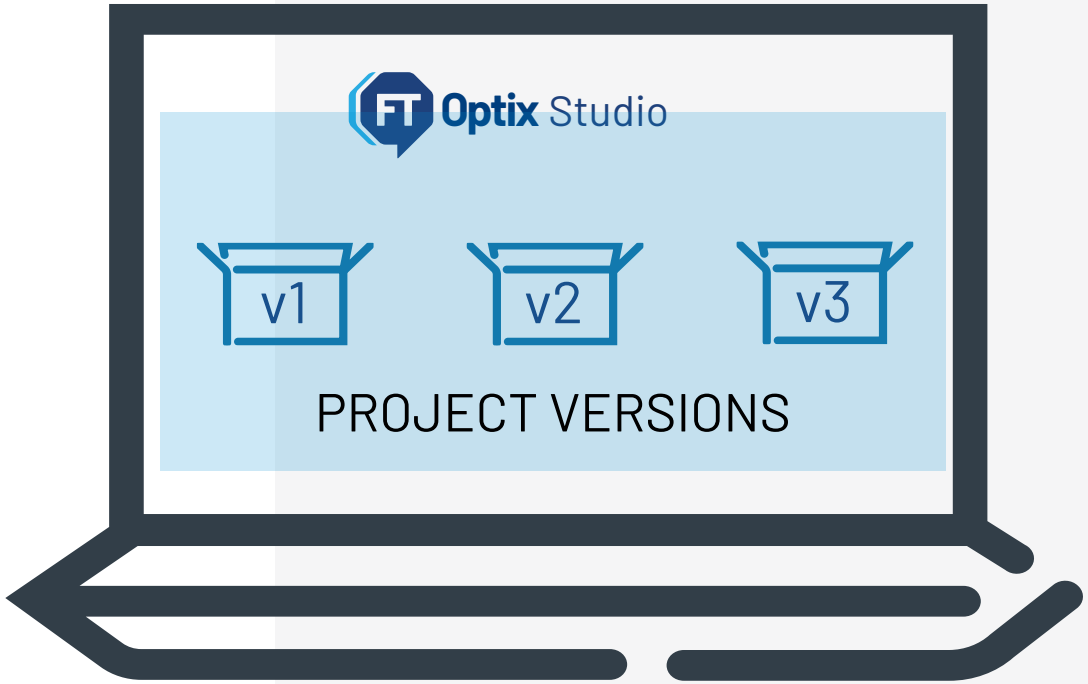
STUDIO WITH SOFTWARE-AS-A-SERVICE MODEL



VERSION CONTROL SYSTEM - LOCAL

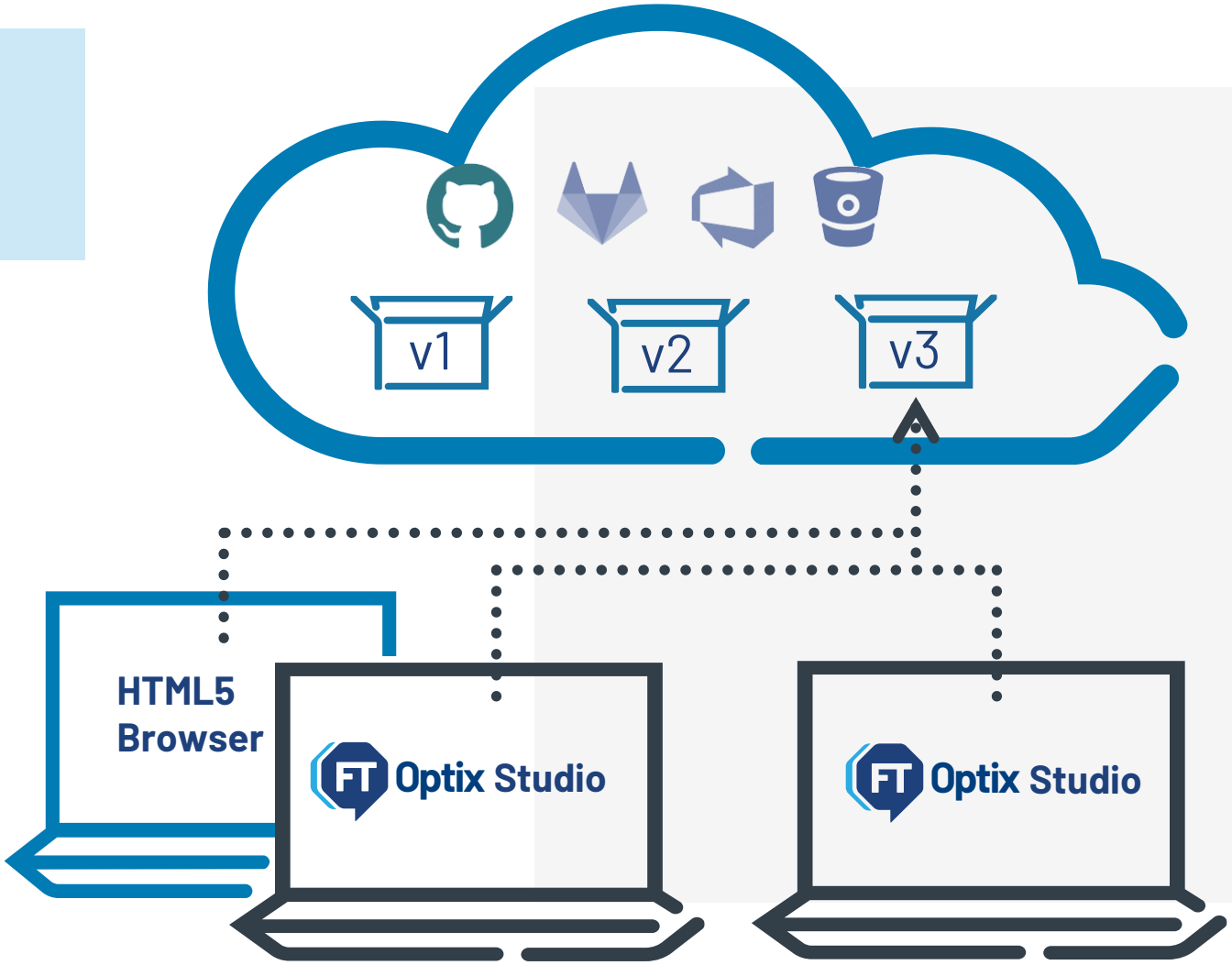
- The Optix project contains a local VCS database (Git)
- No more need of «Save as» or «Zip» files





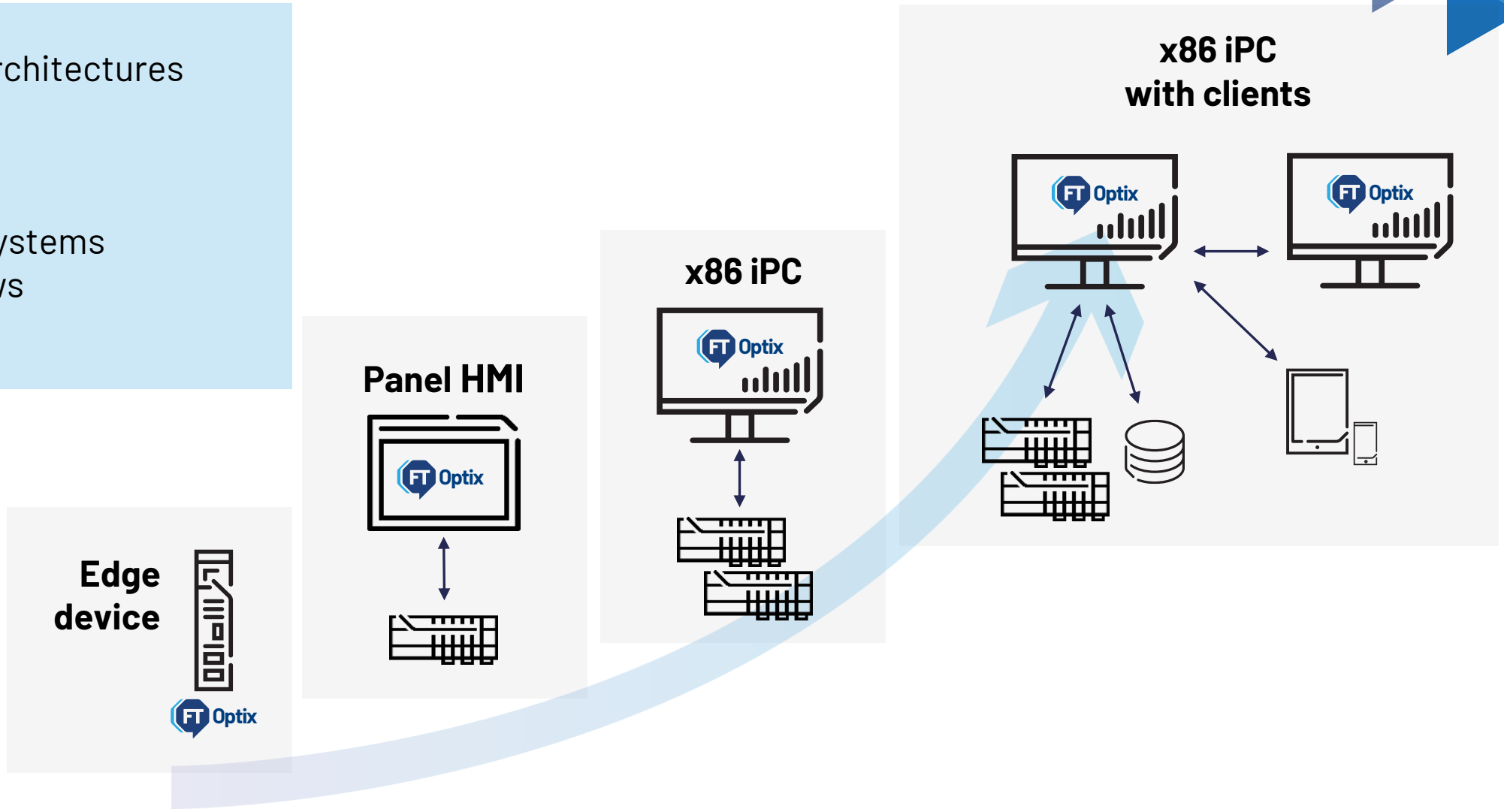
VERSION CONTROL SYSTEM - REMOTE

- Enable the Multi-user collaboration



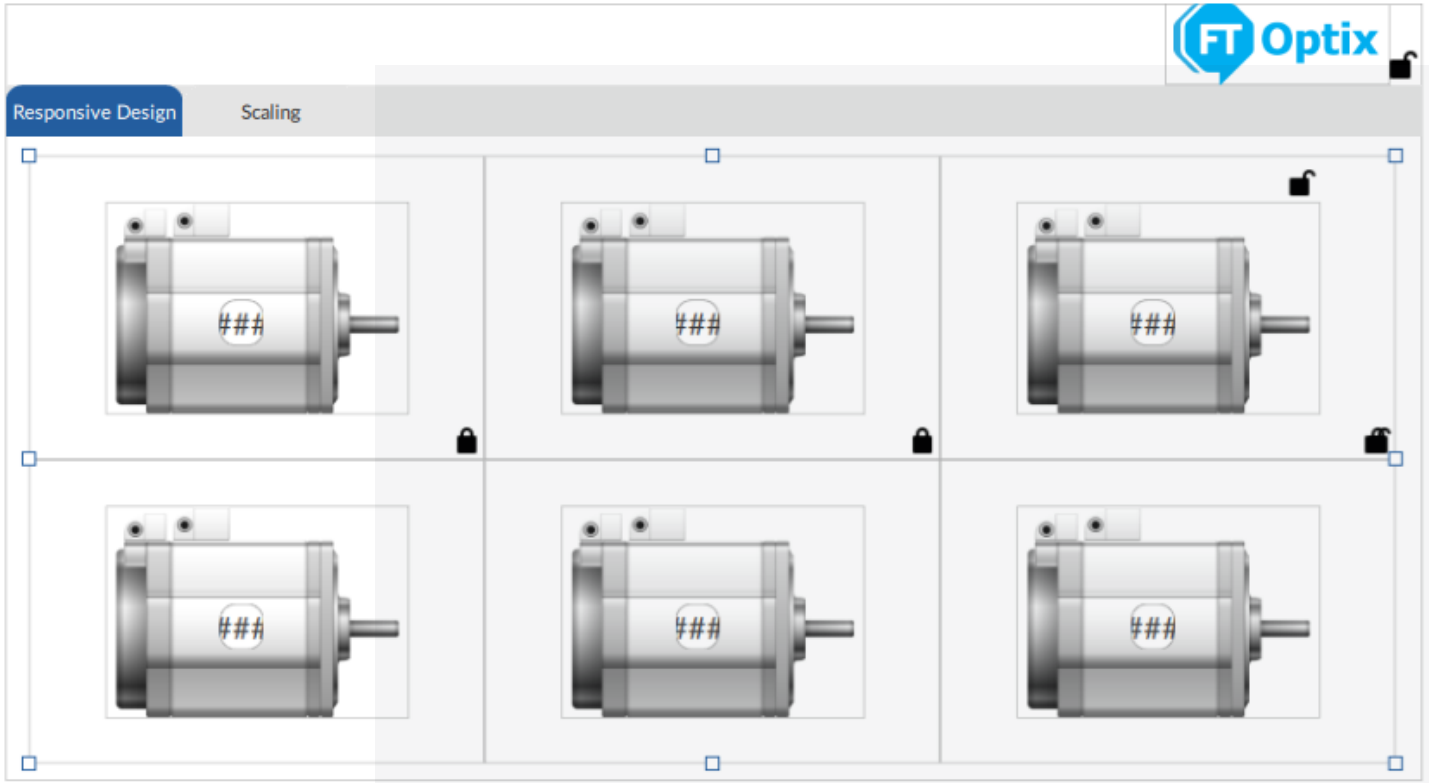
CROSS-PLATFORM: SCALABLE ARCHITECTURES

- Hardware Architectures
  - ARM
  - x86
- Operating Systems
  - Windows
  - Linux



UNIVERSAL UI

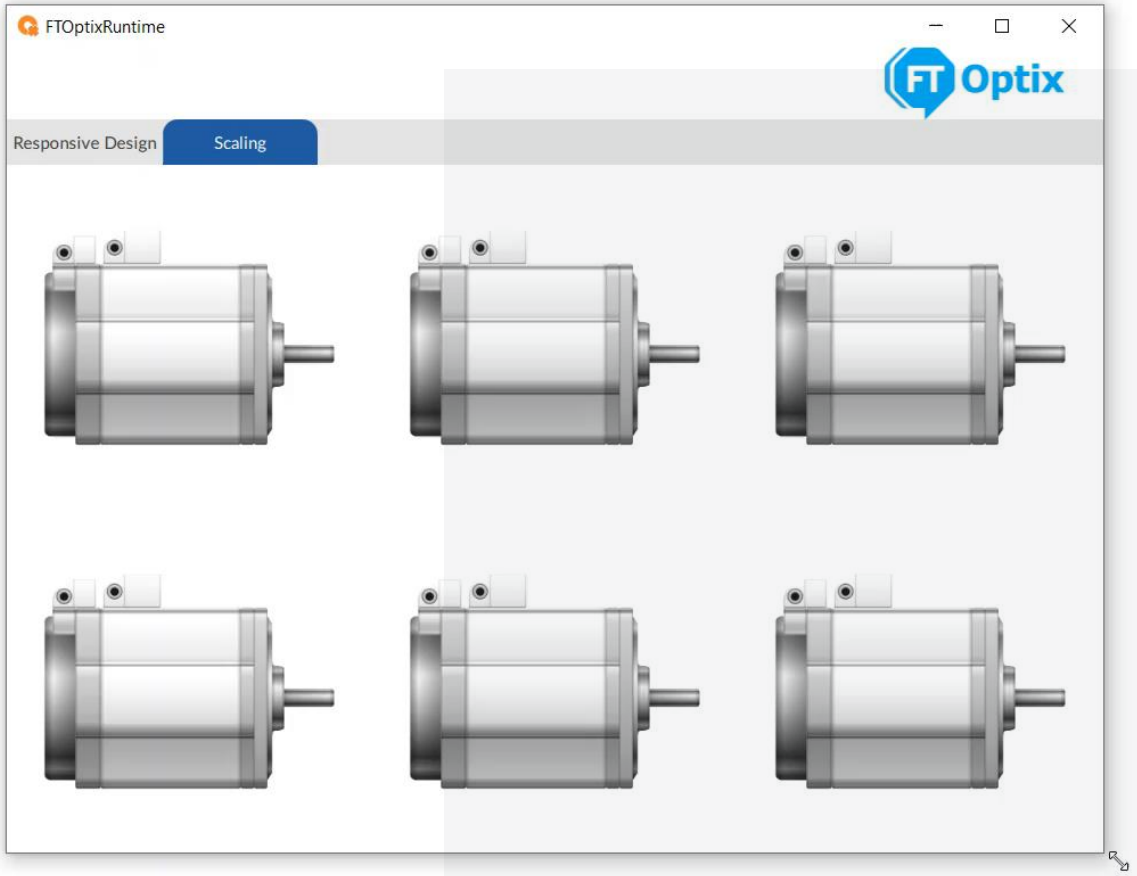
- **Responsive Design** aims to make pages render well on a variety of screen sizes
- 4:3 ←→ 16:9
- Ensure usability



UNIVERSAL UI

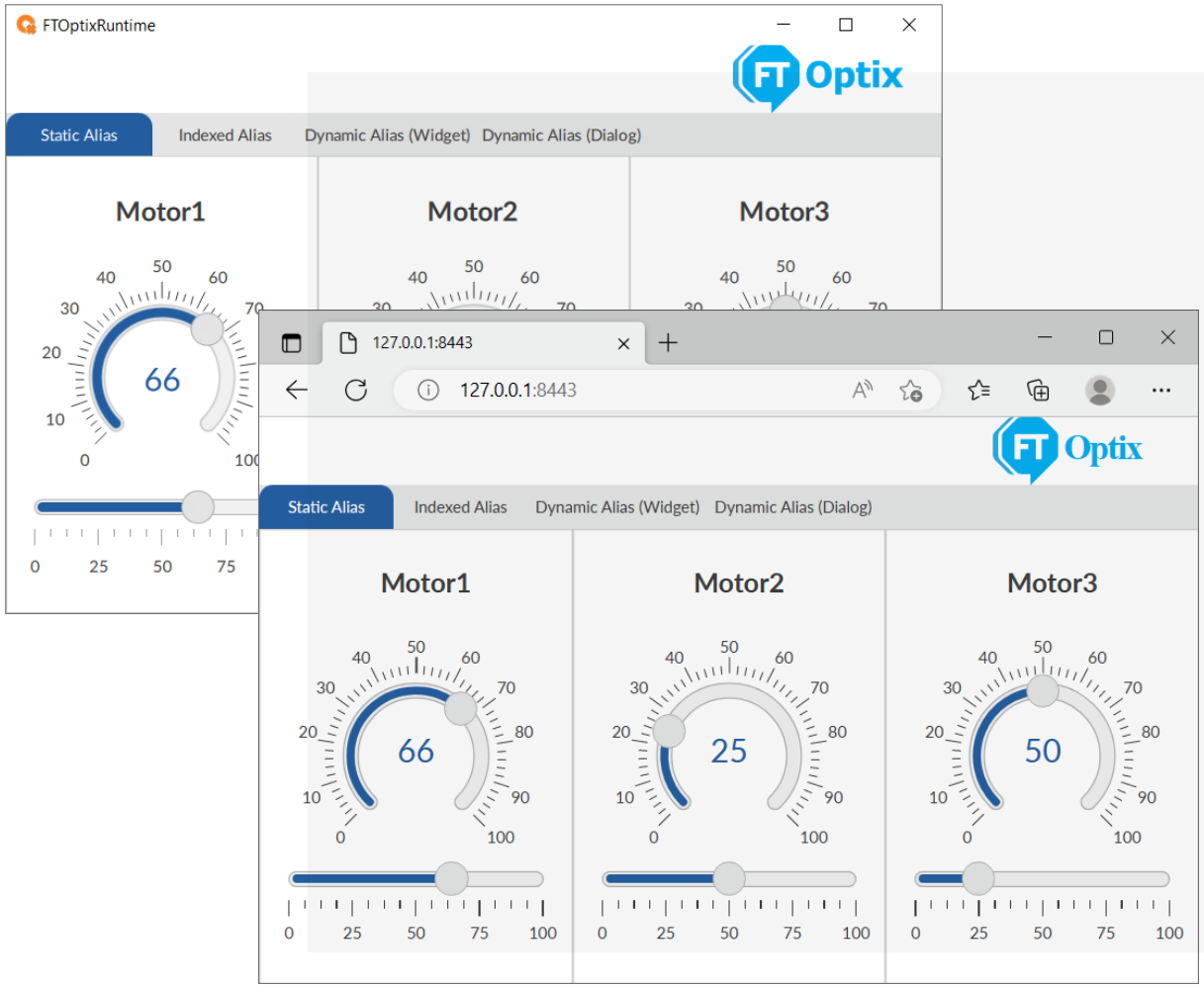
- **Scale Layout**
  enhance the
  Responsive Design

- can be used
  to scale
  the whole page



UNIVERSAL UI

- **Web UI** with the same user experience as Native UI
- Independent sessions
- No conversion tool
- No adjustment
- No compromise



BUSINESS MODEL

PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

FACTORYTALK OPTIX STUDIO

STANDARD

- Install on your PC
- Design and Deploy application from your PC

FREE

PRO

STANDARD capabilities plus…

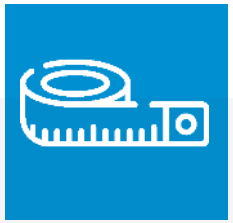
- Design application using **web-based** Studio
- Use the **Version Control System** for Project and Libraries using Remote repository as well as Local repository

Annual subscription per User

PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

FACTORYTALK OPTIX RUNTIME – FEATURE TOKENS

INNOVATIVE AND FLEXIBLE



TAILORED SIZE

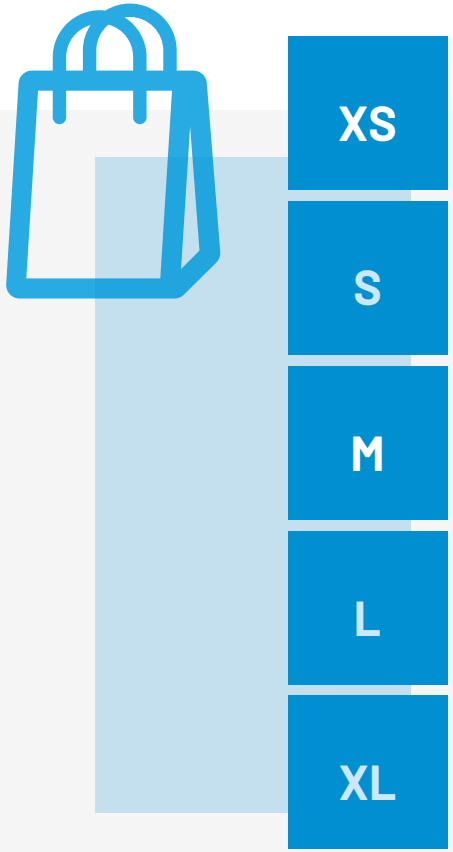
LEVERAGES MODULARITY

NO LIMITATIONS ON EACH FEATURE

FACTORYTALK OPTIX RUNTIME – FEATURE TOKENS

- Every **feature** used by the Runtime has a cost in **Tokens**
- License **size** defines the number of Tokens available

SIZE	RUNTIME FOR IPC
XS	5
S	8
M	11
L	15
XL	21



PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

FACTORYTALK OPTIX RUNTIME – FEATURE TOKENS

FREE
Libraries

FREE
Multimedia contents

FREE
Converters

FREE
Embedded database

FREE
Local Users and security *

FREE
International settings

FREE
Scripting

* with Runtime changes and retentivity

FACTORYTALK OPTIX RUNTIME – FEATURE TOKENS

1
Native UI

1 .. 7
Web UI

CLIENTS	UP TO 1	UP TO 3	UP TO 5	UP TO 10	UP TO 20
Tokens	1	2	3	5	7

1
Alarms
Active & Historical

1
Data loggers

1
Event loggers

1
Recipes

1
Reports

1
Retentivity

1
Audit signature

1
Active directory authentication

FACTORYTALK OPTIX RUNTIME – FEATURE TOKENS

1..3

ODBC database

DATABASES	UP TO 1	UP TO 3	UP TO 5
Tokens	1	2	3

1 .. 7

OPC UA Server

CLIENTS	UP TO 1	UP TO 3	UP TO 5	UP TO 10	UP TO 20
Tokens	1	2	3	5	7

1 .. 2

OPC UA Client

1 .. 2

Every Comm Driver

STATION	SINGLE	MULTIPLE
Tokens	1	2

For **RA Ethernet/IP** driver the 1st Station is free if Runtime is running on ASEM 6300, ASEM Classic or OptixPanel

FACTORYTALK OPTIX RUNTIME – FEATURE TOKENS EXAMPLE

SMALL HMI	
Native UI	1
Web UI (up to 1 clients)	1
Alarms + Alarms History	1
Data logger	1
Recipes	1
1x Comm Driver (multiple stations)	2
TOTAL	**7**

MEDIUM HMI	
Native UI	1
Web UI (up to 3 clients)	2
Alarms + Alarms History	1
Data logger	1
Retentivity	1
Recipes	1
OPC UA Server (1 client)	1
1x Comm Driver (multiple station)	2
TOTAL	**10**

PUBLIC • Copyright ©2025 ASEM a Rockwell Automation Company.

GRAZIE

ASEM

A ROCKWELL AUTOMATION COMPANY