



# FRAMEWORX

The Affordable Platform with Limitless Possibilities  
for Enabling Industrial Applications



Complete



Powerful



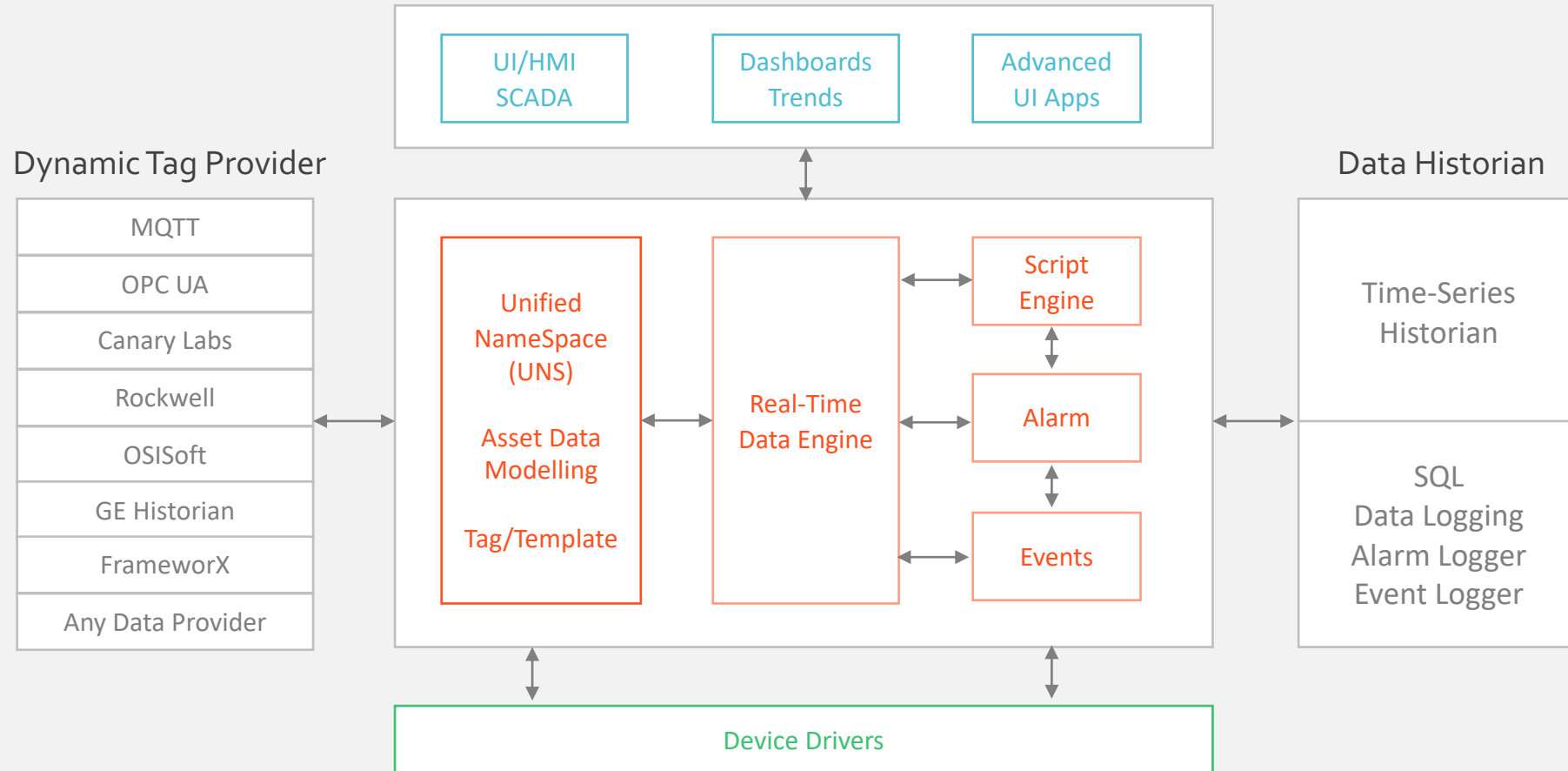
Cost-Effective

***NEW AND IMPROVED IN 9.2***



## FRAMEWORX

Connect ♦ Process/Store ♦ Visualize

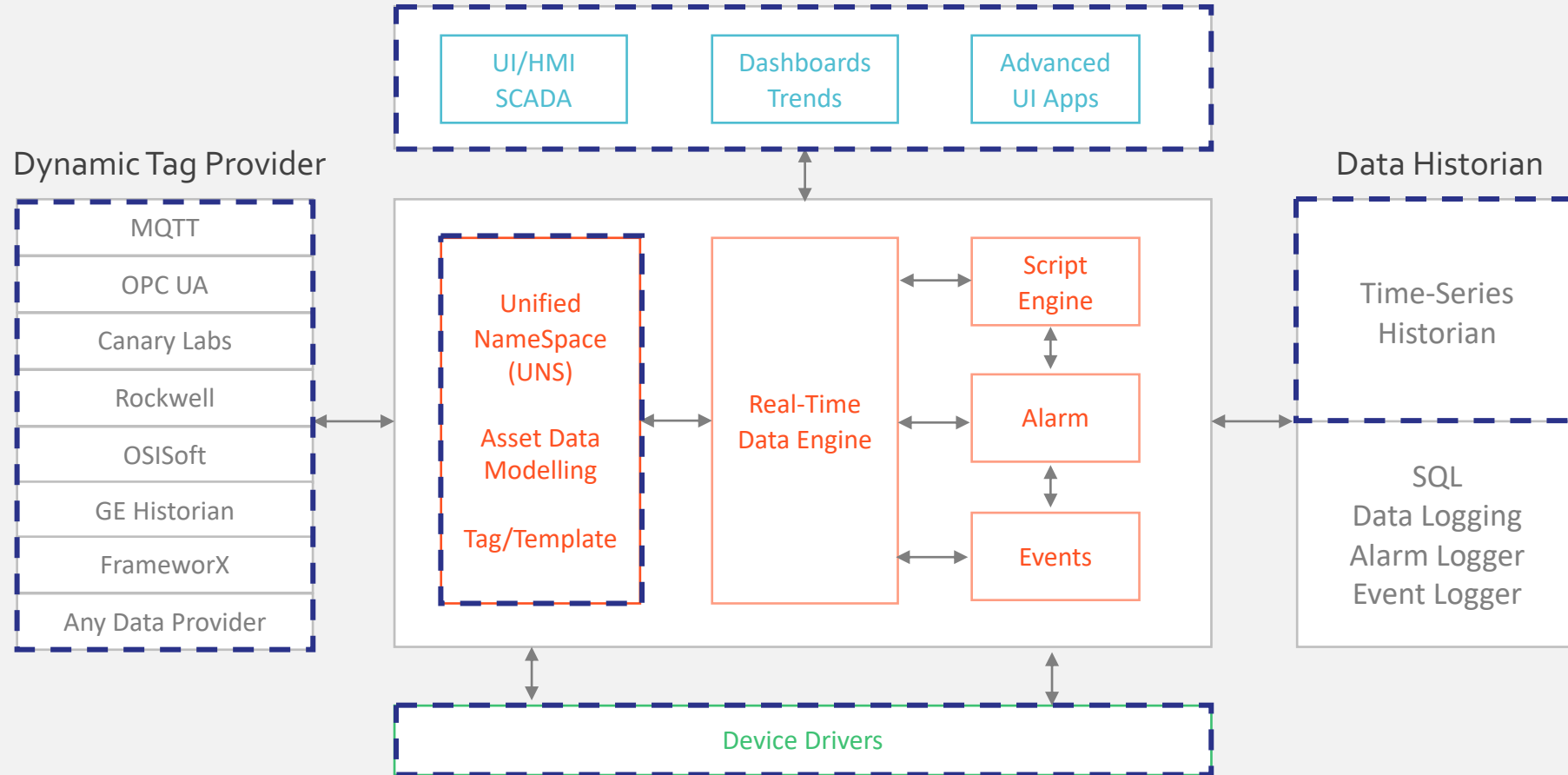




# ENHANCEMENTS IN 9.2

## FRAMEWORX 9.2

Connect ♦ Process/Store ♦ Visualize



- Integrated Canary Historian (with a FREE Version Option!)
  - Embedded Historian
  - Native Integration
- Asset Data Modeling
  - Hierarchical Tags
  - Dynamic Link with Remote Tag Provider
- Dynamic Tag Provider: direct access to external data models
- New and Improved OPC UA
- New MQTT Tools
- HiveMQ Integration



# **FRAMEWORX 9.2 ADDITIONAL ADDITIONS**

- HTML5 Enhancements
- Linux Support Enhancements
- Docker (container) support for both Linux and Windows
- New Project Templates
- Rockwell ControlLogix and CompactLogix Auto-discover
- Edge Store-and-Forward (Canary and MQTT)
- New Demo for Distributed Applications



## A New Partnership with Canary Labs

- Includes embedded and integrated Canary Historian, available with FrameworkX 9.2
- Includes free, 500 Canary Historian Tags with any license – Edge to FrameworkX Unlimited.
- Add Tags to the 500 points (from 1500 to Unlimited!)
- Unlimited Tag Option w/FrameworkX Unlimited
- Also, Native Integration to Canary Historian and the Canary System via Tag Provider

FrameworkX  
Unlimited



FactoryStudio  
Scale by I/O & Clients



Edge HMI  
Scale by I/O



Edge / Gateway  
IIOT



500 FREE tags  
to unlimited



## Easily Connect To Any Canary Server

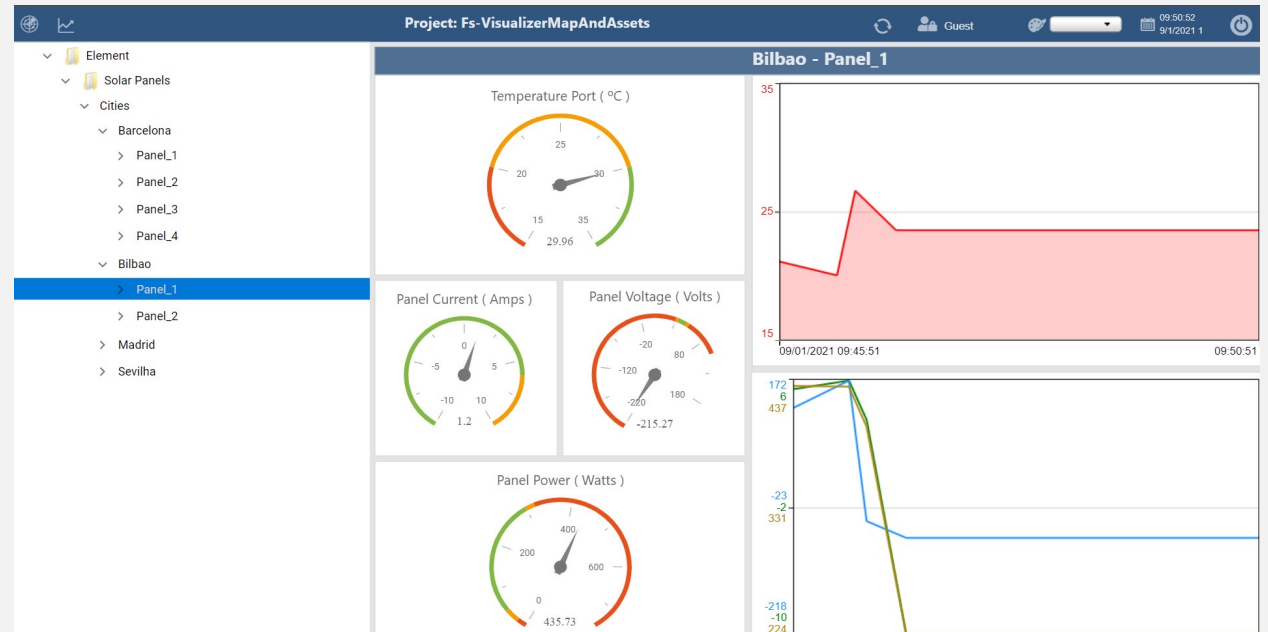
- Canary and Tatsoft share a common tag definition and asset modeling
- In addition to the embedded Canary Historian, we also have a new built-in integration with the Canary System that is easy to use, high speed and extremely secure, as it leverages Canary's .NET API to connect at the core level, allowing you to publish and consume data, as well use Canary's tags and models.
- There's no need for extra configuration or even to create tags within FrameworkX – simply define the server and browse the assets you need!



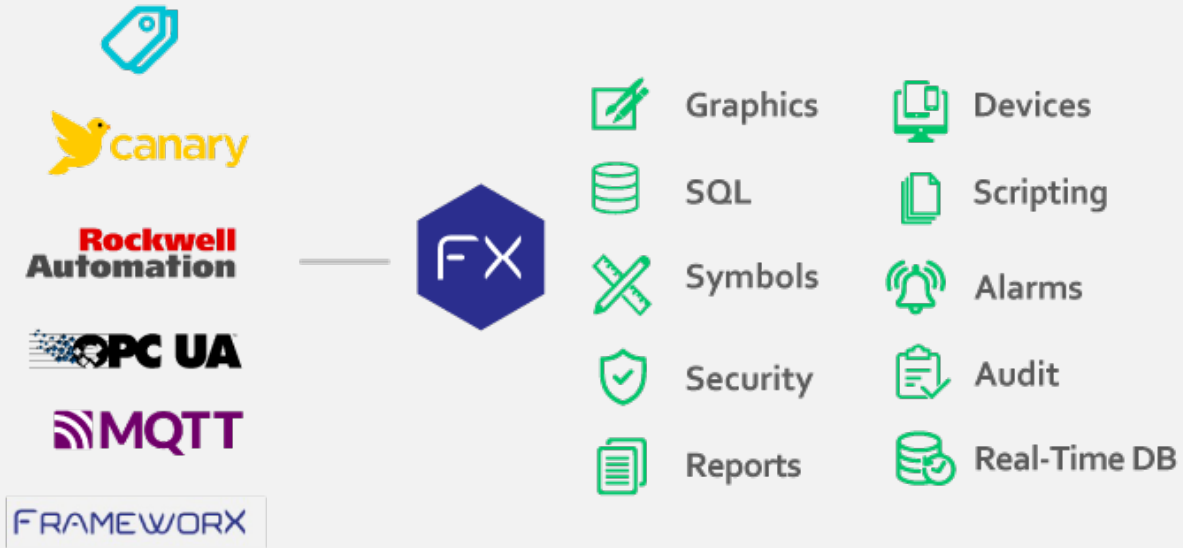


## Easily develop a Unified Namespace or any Asset Hierarchy

- Easily add and combine metadata from multiple systems into a single cohesive Asset Model
- Organize your Tags in a folder structure with Logical Names
- Simplify visualization and navigation through templates
- Consume or Integrate to external Models or Namespaces
- Auto Tag Creation
- Add Clarity and Context. Deliver all the info you need to anyone, anywhere, anytime.





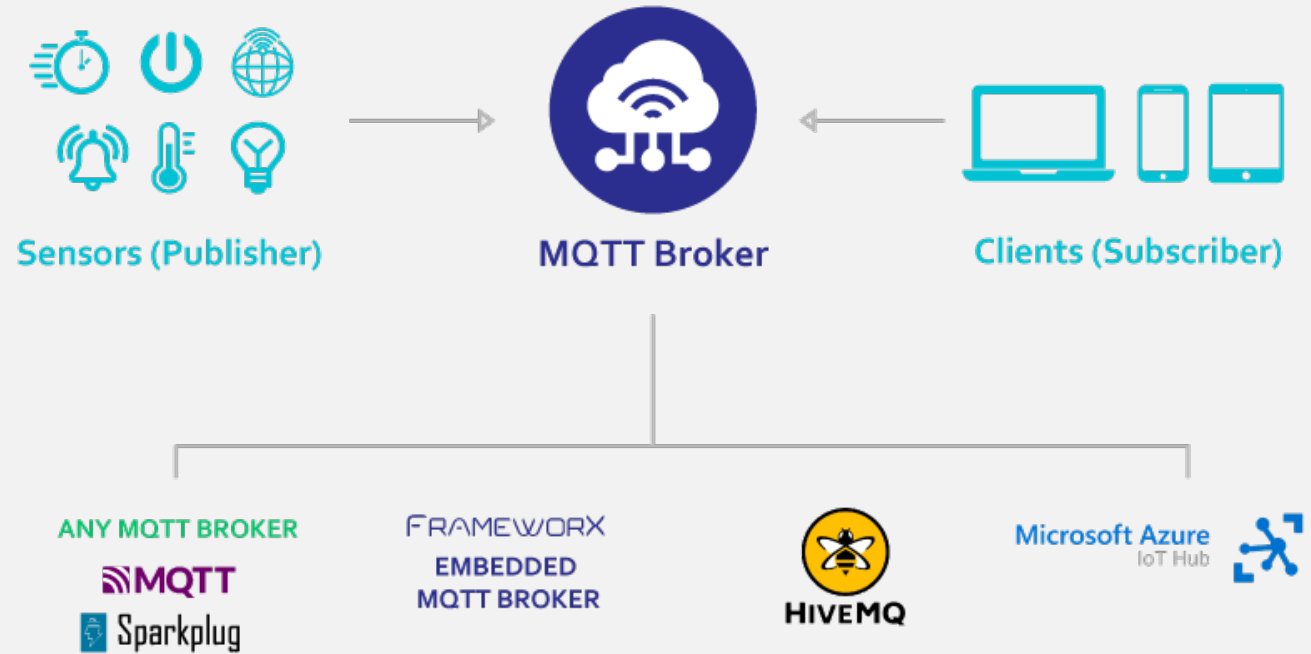


## Automatic & Tagless Connections!

- Connect to external data sources and consume their Namespaces
- Automatically access all the tags and data structures by just connecting to that provider with a simple configuration
- The connected provider's Tags and Namespace will be available for use in FrameworkX (screens, scripts, symbols, and more)
- Many types of Tag Providers
  - Protocols, Historians or Devices

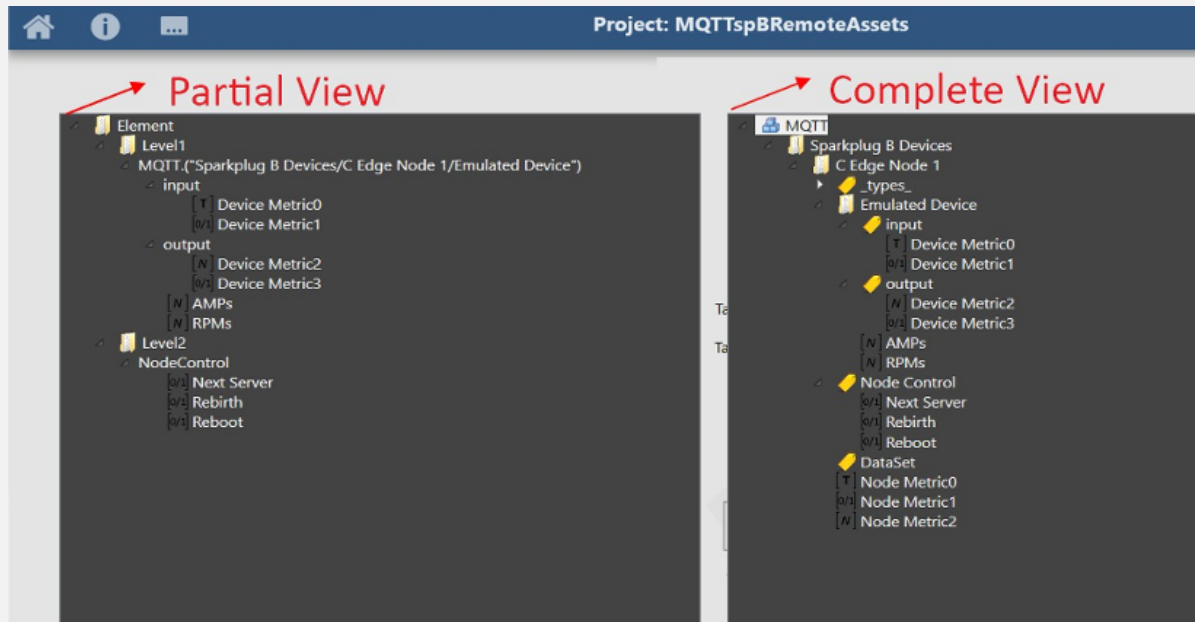
## New MQTT Tools and Enhancements

- New MQTT Simulator
- New Embedded Broker
- SparkplugB Enhancements
- Azure IoT Hub
- Store-and-Forward
- HiveMQ Integration





# MQTT CLIENT SIMULATOR



- With FrameworkX 9.2, we're releasing an MQTT Client simulator (with Sparkplug) to make testing easier and faster – testing for projects in general, testing for communication with the FrameworkX MQTT Client, and for testing our new Dynamic Tag Provider functionality with MQTT.
- Why fight with multiple tools? With this simulator, you can easily publish 30k simulated values to the MQTT Broker – all from the same design environment.

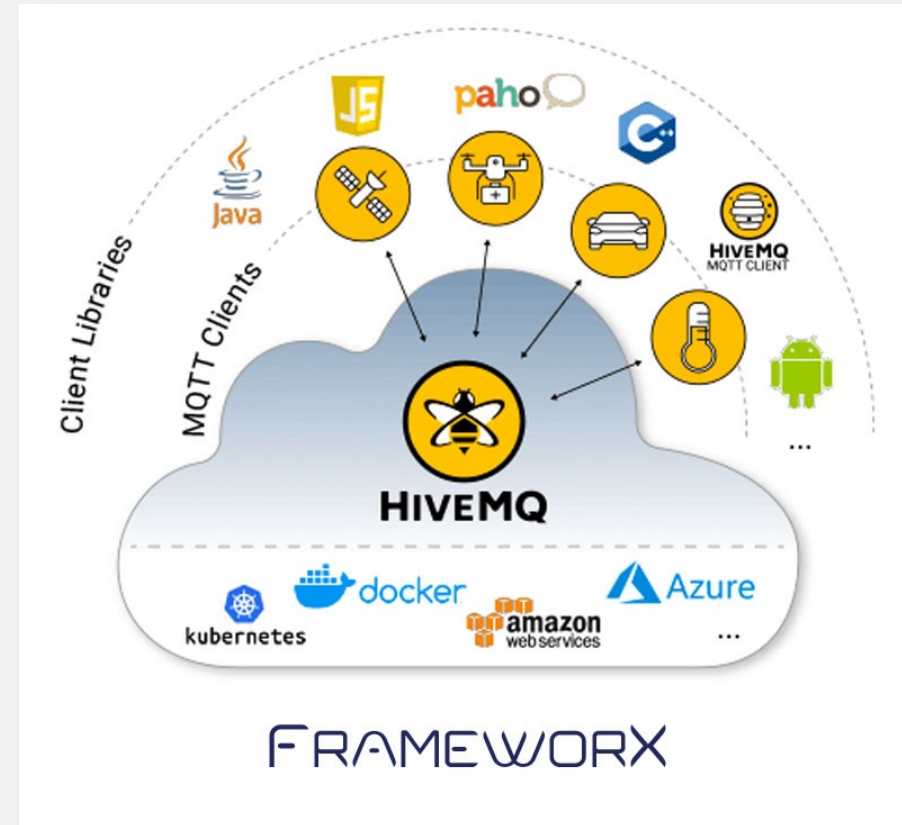


## New Partnership and Product Offering

Those familiar with MQTT know that projects that use that technology need a MQTT Broker: with FrameworkX, we connect to any brokers that use the MQTT protocols, as well as MQTT SparkplugB and Azure IoT, and we include an embedded MQTT Broker for testing and development.

But as your applications grows or you want the benefit and support of an enterprise class MQTT Broker. Now, you can buy a bundled HiveMQ subscription license with any Tatsoft product:

- Available in multiple configurations
- HiveMQ Industrial Edge – Basic Edition – 250 MQTT Clients
- HiveMQ Industrial Edge – Premier Edition – 1000 MQTT Clients
- HiveMQ Professional Edition – Unlimited Clients





# OPC UA IMPROVEMENTS



## EASY INTEGRATIONS

- Easier to find and browse data
- Based on the latest OPC UA specifications



## MORE SECURE

- Easier to configure
- More authentication and encryption capabilities to protect data



## MORE FLEXIBILITY

- Support is available for Windows and Linux devices



## ENHANCED PERFORMANCE

- Performance improvements, connecting and exchanging data faster than before



## Web Interfaces from both Linux and Windows servers!

- Performance (Startup, visibility objects, etc)
- Bug fixes
- Enabled GetControl method.
- Enabled Popup/StaysOpenLostFocus feature.
- Enabled GridControl Cell data format feature.
- Enabled vertical alignment for TextBox, RadioBox, and CheckBox.
- Enabled MultiPopup feature.
- Enabled AssetControl feature.
- New methods: GetParentSymbol, GetParentDisplay
- New TK method: CreateSymbol
- Added method: GetChildrenElements
- Enabled array multidimensional.
- Included MAP control.
- Enabled Dashboard and added HTML5 Custom controls for Linux (Mono) projects.
- Enabled retentive tag client.

## Linux Support Enhancements

- OPC UA Support
- Docker Support
- MQTT SparkplugB with Store&Forward
- EdgeGateway family available to Linux

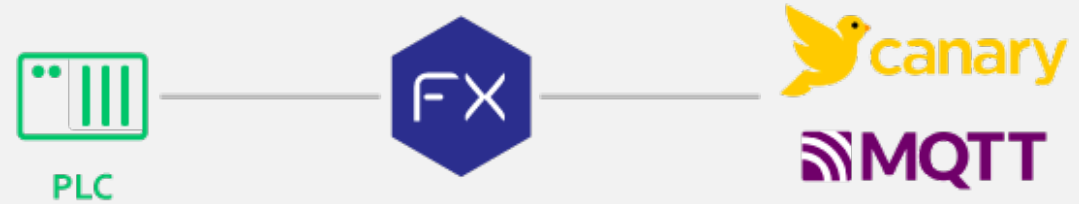
## Rockwell ControlLogix And CompactLogix Auto-Discover

- You can now connect to the ControlLogix device and see all available PLC addresses – that means ControlLogix may be added as a Tag Provider, allow you to access their data models and definitions without creating any tags within FrameworkX.

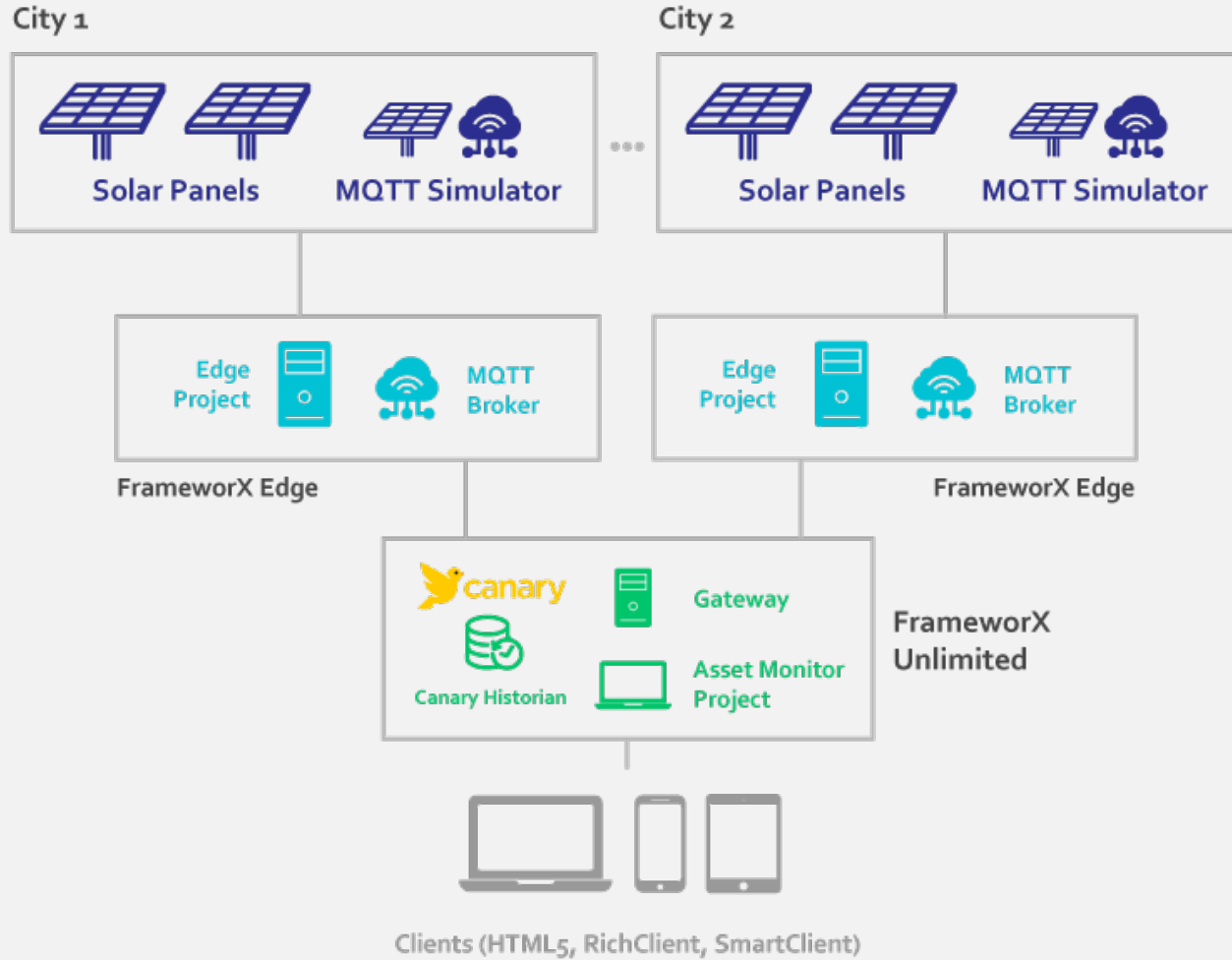


## Canary and MQTT

- We've added the Store-And-Forward functionality when FrameworkX publishes data to the Canary Historian or a MQTT Broker, which means we temporary store the data of a message for transmission to its destination at a later time, in case the network is not accessible for any reason.
- This functionality is essential in data collection projects, where the data is sent to a remote repository.







## Distributed Applications

This demo project showcases an example of distributed applications, simulating the collection, publishing and viewing of the data of a solar panel project.