

# Platform Overview

## Welcome to FactoryStudio powered by FrameworX

**FactoryStudio** is a powerful platform that allows users to develop and deliver applications that manage real-time information, and it provides a complete set of modules in a unified and intuitive engineering user interface.

### Unlimited

**FactoryStudio** is a 100% .NET managed code application that empowers users to take advantage of the full potential of current technology.

### Flexible

**FactoryStudio** was architected from a "green field" and was created entirely without the employment of any legacy code; this made it possible to create a system that is powerful and simple to use. **FactoryStudio** projects can scale from local, embedded devices and mobile applications all the way up to large, distributed, high performance, fault-tolerant systems. Additionally, **FactoryStudio** aims to be a unified and complete solution for all issues related to developing and delivering applications: users do not need to develop confusing, complex puzzles to build a project. Having a powerful platform that is unified from the ground up enables users to create flexible systems that maintain intuitive, easy to use designs.

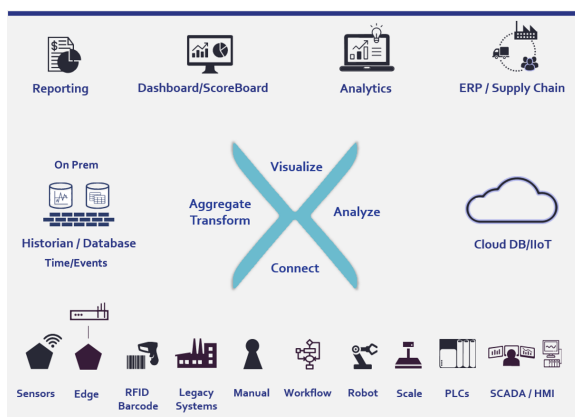
### Complete

**FactoryStudio** is a complete solution that includes all the industry standard modules. The included modules are: a real-time tag and asset database, user templates, alarms and events, historian, SQL tables and queries, recipes, XML, CSV, XPS and PDF reports, built-in SQL database engine and web server, scripting, scheduling, OPC server and client, native communication protocols, graphical designer, UI displays accessible from desktops, remote smart clients, as well as web browsers and native iOS app on iPads and iPhones.



#### A solution for today and tomorrow

**FactoryStudio** has longevity and high ROI because it consolidates current technology.

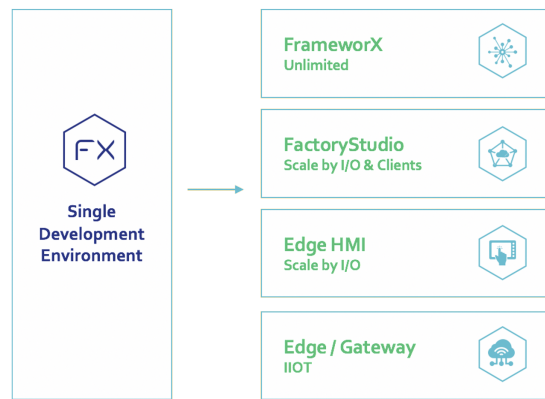


## Our Product Family

- **FrameworX** is our Unlimited version, unlimited Clients, I/O and development, server based with all the tools you need
- **FactoryStudio** is scalable, by the number of I/O & clients
- **Edge HMI** scale by I/O, more affordable

- **Edge/Gateway** embedded device communications and processing at the edge or as flexible secure gateway

For even more flexibility, we also offer our **FrameworkX Unlimited** licensing as perpetual plus maintenance or software as a subscription (SaaS).



## Our Platform

The **FrameworkX** platform provides a single engineering environment. This enables users to take full advantage of their systems by providing the richest experience in leveraging data from a variety of runtime environments and mobile devices.

Our platform provides:

**Hardware and Operating System independence** since the same product installs on different versions of Windows and includes communication interfaces for a large variety of industrial equipment and protocols. Projects can be deployed to run on either Windows or Linux operating systems.

**Friendly and collaborative engineering** that aids the developer by offering a new multi-user and multi-project environment that has resource optimization for editing and running simultaneous projects.

**The ability to easily manage projects** since individual projects are saved in one single file and are organized by SQL tables in an encrypted database. You can access, edit, and run your projects from either local or remote computers.

**Smart tag editing** that facilitates the creation of powerful data models through advanced types, templates with hierarchy, arrays, categories, IntelliSense for editing, cross-references, and other unique features.

**A Vector graphical interface.** WPF designer tools deliver a visually impactful user experience through resolution independence, and it supports publishing pages for rich clients, .NET click-once thin clients, HTML5 pages, as well as mobile and iOS native apps.

**A native SQL database** and easy integration with other banks such as Oracle, ODBC, ADO.NET or OLE-DB, MySQL, and Microsoft SQL Server.

**Tag data logging and historian** to any database and an advanced trend chart with annotations support.

**.NET scripts** that make **FactoryStudio** intrinsically safe since it is a 100% .NET managed code. You can utilize both C# and VB.NET for scripting.

**Traceability and control project versioning** that are suitable for high-performance teams because they allow users to have remote access and to simultaneously work on the same project's configuration.

**Communication drivers** that are for a wide variety of PLCs, which use native protocols. **FactoryStudio** also provides a built-in OPC server and client, MQTT broker and client, and **Sparkplug B** support.

**Alarm and events** that include an audit trail and supports FDA 21 CFR 21 requirements.

**Reports and data access** API for integration with third-party tools.

**Online configuration**, project hot-swap and out-of-the box hot-standby deployment.

## Applications



### Implement custom solutions

Applications developed with **FactoryStudio** can have a couple hundred to more than one hundred thousand communication points.

Process Control & Data Aggregation

SCADA, HMI and PIMS

Performance Monitoring and BI

For security to be enforced and for users to have full access to their computer's full power, process control stations require reliable server components and dedicated rich displays. **FactoryStudio** has every functionality needed to implement distributed mission critical process control applications.

### Mobile Native Applications

A native application provides a superb quality and functionality to a user interface that a web page cannot match. With **FactoryStudio**, iOS devices can natively run the same displays that are created for desktops.

**FactoryStudio** extends beyond the entire spectrum of expected SCADA functionality and extends real-time database concepts toward IT systems: including objects such as data structures, dynamic arrays, images, time events, and data tables. All this functionality has a tight connection to our supported .NET languages that are used when scripting items such as custom logic and calculation engines.

### HMI, Embedded and OEMs

**FactoryStudio** has a wide range of built-in PLC protocols and has a special version for HMI and embedded systems. A version control system, a small footprint, and remote access make **FactoryStudio** the best choice for machine builders and other OEMs.

**FactoryStudio** is an excellent tool for creating operational dashboards because it has .NET integration, support for automation protocols and IT network management protocols, and the ability to create a presentation layer that is source independent and cloud-ready.

### SQL and PI Systems Front-end

**FactoryStudio** has many features to manage SQL databases, tables, and queries in real time. It also has SDK-level data synchronization with OSIsoft PI System(tm) and PI AF(tm). This makes it the number one platform for creating custom dynamic graphics and front-end custom user interfaces for these systems.

