The case for a flexible – simple to complex HMI for packaging machinery

Tatsoft provides adaptable, affordable and secure software for packaging machinery and our software, FactoryStudio powered by FrameworX, has been used in many machine builders across many industries. A well designed and connected interface between your customers and your machine will maximize their benefits enabling you to lead your industry.
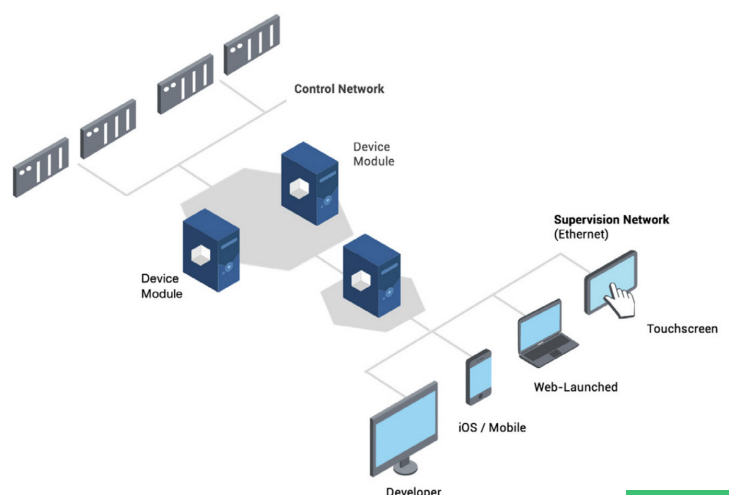
By working with Tatsoft you are supported by a company with decades of experience helping you to design a solutions that will enhance your product line from, simple to complex, from stand-alone to networked systems.

FactoryStudio powered by FrameworX allows our OEM partners to be even more flexible in creating HMI solutions that are tailored to the needs of their customers. Therefore, you can design user interfaces that are even more user-friendly. Companies in the food, beverage, CPG and pharmaceutical industries demand HMIs be easily customizable and easy-to-use. With FactoryStudio, you can simplify solutions for the users while still allowing for the complexity of the HMI applications and customizations.

FactoryStudio's openness is the key to your HMI design. Using FactoryStudio, multiple engineers can collaborate to create a set of new HMI functions represented by templates, symbols and cotmponents. Then FactoryStudio allows application engineers to simply reuse these functions to create customized HMI applications quickly and efficiently. Moreover, more OEM partners are able to use the same software platform for any of their machines and lines to better address their specialized requirements.

The use of a common core software design across different machine types results in a consistent navigation and visualization concept thus improving usability. Also, consistent programming enhances security and adherence to corporate standards, resulting in higher machine availability. FactoryStudio OEM partners are creating screens to run Windows and Linux PCs, tablets, web browsers, on smart phones and other devices, all configured in the same development environment. Third-party components seamlessly integrate with our .NET programming. With the modern UI in FactoryStudio, our OEM partners implement high-end animated images as well as sophisticated designs and 3D images. Multi-touch and gesture control are also supported.

FactoryStudio powered by FrameworX is designed to support industry and security standards. For machines and lines that are sold internationally, localization in Factorystudio lets our OEM partners create the application in any international language, and run in the

Our software framework provides:

Scaling your project from small to large using the same development platform

- Flexible and creative pricing to fit your business model
- Enable Simple HMIs to complex applications and analytics

Connect machines with your customers' enterprise no matter where they are located

- Built-in IIoT, Big Data, Cloud and other integration capabilities
- Ship machines that can communicate and integrate with others "out of the box"

Easily Retrofit your installed machines and equipment with new capability

- Legacy protocol conversion
- Asset Management
- Predictive Maintenance
- Condition Monitoring

A modern HMI Connects Operators to your machines

Quick Customization if needed

- Create templates for standardizing HMIs and fully automate applications
- Custom reusable dashboard widgets for supervisors or scoreboard

Remove the risk the software will become obsolete or outdated while the machine itself is still operational.

- FactoryStudio is designed with 100 percent backwards compatibility.

Security: powerful against attacks through firewalls and most modern IT security technology

User-friendly: clear and innovative navigation structure for intuitive operation

Regardless of whether a process within the line is monitored or a machine is operated remotely – the flexibility to support network architecture can provide every operator with the necessary overview.

Flexible Network Architecture gives you:

Connect OT with IT systems, such as MES, Quality, Maintenance or ERP

Can be expanded in the future with mobile or connected dashboards

Security and Audit Trail

- Support firewalls for a secure system
- Resistant against attacks
- Audit trail of all actions, 21CFR Part 11 applications
- Integrated option for regular software updates

PLCs / RTUs

Field Device:
FactoryStudio Edge
MQTT Installed

MQTT Transmission
Module

MQTT
Connections

Cloud Network

Tatsoft Server

Big
Data

DMS

ERP

CRM

Web-Launched Tatsoft Clients