



UNIQO HMI

The revolutionary visualization software

Based on the **concept of object-oriented programming**, we have developed a completely new software that offers **more flexibility than ever**, completely new dynamic approaches through **cross-platform technology** and a **fully modular design**.



Designed for the future, UNIQO HMI is completely based on OPC UA and is the ideal tool for industry 4.0 and IIoT applications. All functions and properties of an HMI are modeled as objects and mapped in the OPC UA information model, ensuring the **highest degree of interoperability**.



The integration of **OPC UA Server and Client** allows **gateway functionality** between classic communication protocols and OPC UA. Ready to be used in scenarios where data exchange with higher level systems, incl. MES, ERP or any other supervisor system is needed.



Changes can be made to the project **at runtime** in "Live Mode" **without cost-intensive machine stops** and time-consuming new project engineering. This enables **adjustments during commissioning**, live **error corrections** during operation or changes to the user interface.



Visualization can be designed once to dynamically match at runtime the specific machine configuration. The **user interfaces can be automatically built during the commissioning phase by** learning the machine model, keeping the flexibility for future changes.

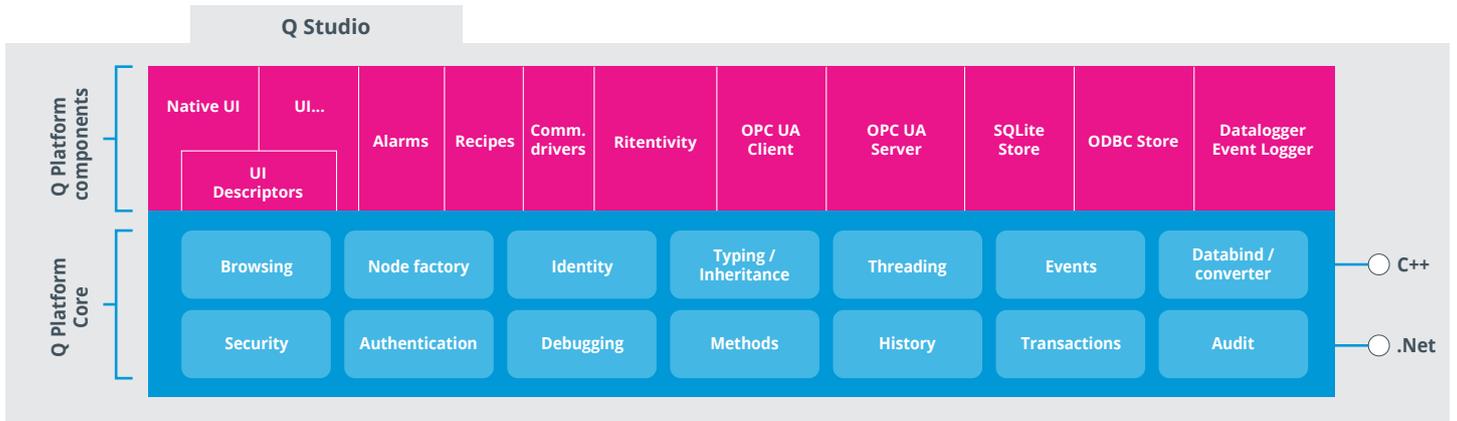


Specific "look and feel" can be **easily obtained** via **stylesheets** and applied **at runtime** with a simple mouse click.

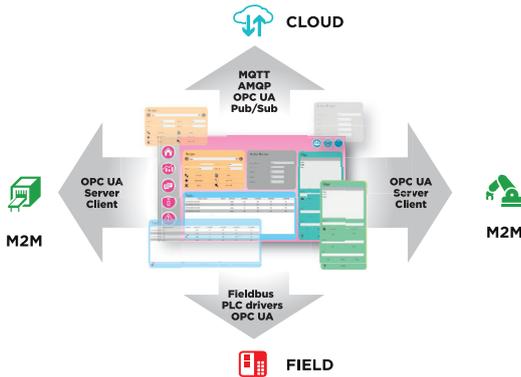


Thanks to the **platform-independent technology** and **responsive design**, the application is fully compatible to any device. The time-consuming adaptation to other platforms or display types is no longer necessary. Furthermore existing customer solutions can be integrated using the **C# interface**.

ARCHITECTURE



The UNIQO HMI software is built on a platform-independent framework made of a set of basic components, the Q platform, which also provides C# interfaces for an efficient access to its resources. The UNIQO HMI "Function Modules" are based on these components. The applications are developed with the Q Studio development environment. The runtime components which are required on the target system are automatically recognized, selected and activated by the Q Studio.



OPC UA

With UNIQO HMI, OPC UA can be used for data acquisition from the field, for M2M communication, for information exchange with MES/ERP business management systems and for connection to cloud services. In a system with UNIQO HMI, you can share via OPC UA not only the data, but also the functions of the application, so that an external OPC UA client can actively interact with all functions of the project, such as user configuration, recipes or even the graphic resources of the screens.

LICENCE MODEL

A highly modular and flexible solution such as UNIQO HMI also offers **an innovative business model** that provides **maximum flexibility** at an **optimal price-performance ratio**.



- A runtime license corresponds to a **"container"** with a certain number of permitted functions
- Each function is associated with a token value
- The designer selects the functions needed for the application and activates them
- **Free combination** of modules and functions
- **All functions available for all licenses**
- **No restrictions** on tags, alarms, project pages, etc.
- **Licenses** available in **different sizes** (containers)

