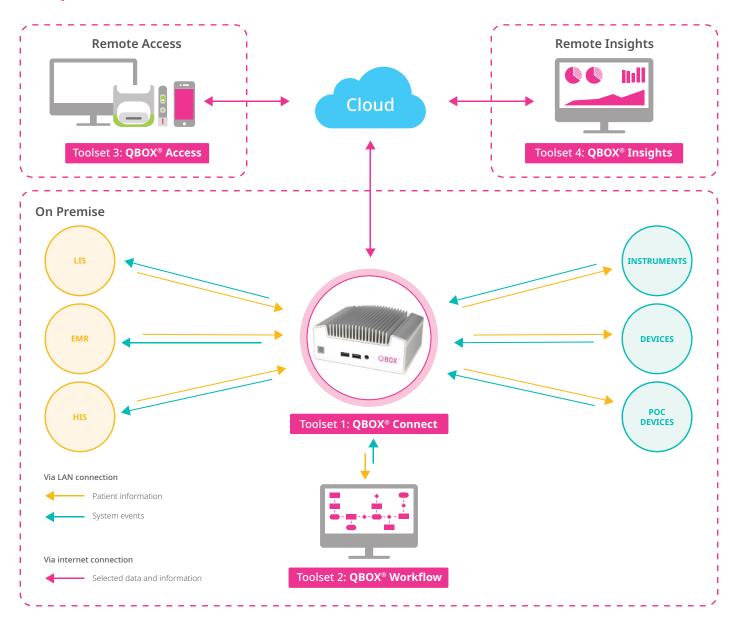# QBOX® Toolkit

Reduce time to market, reduce development costs, gain better insights

QBOX® is a configurable digital product toolkit with four key toolsets that enable you to build a seamless, integrated ecosystem of regulated and non-regulated healthcare devices, with optional cloud connectivity and remote management. The QBOX® Toolkit allows you to quickly create a customized platform for your devices and instruments, at a reduced cost, risk and time to market.

The QBOX® Toolkit

Remote Access

Toolset 3: **QBOX® Access**

Cloud

Remote Insights

Toolset 4: **QBOX® Insights**

On Premise

LIS

EMR

HIS

INSTRUMENTS

DEVICES

POC DEVICES

Toolset 1: **QBOX® Connect**

Toolset 2: **QBOX® Workflow**

Via LAN connection

→ Patient information

→ System events

Via internet connection

→ Selected data and information

Secure and compliant solutions

QBOX® is compliant with regulatory and privacy standards. All development is conducted to meet the stringent regulatory requirements as defined by the IEC 62304 standard, a harmonized standard which describes requirements for the use of software as a medical device. QBOX® solutions are compliant with patient privacy standards, including HIPAA and GDPR.

How can you use the QBOX® toolsets?

Toolset 1: QBOX® Connect

Enables on-premise integration between instruments, devices, sensors and lab information systems (LIS), electronic medical records (EMR) and hospital information systems (HIS), benefiting your customers.

1. **Greater Automation:**
   Enable automated information transfer between devices and LIS, EMR and HIS using communication standards such as HL7 and FHIR.

2. **Reduced integration costs:**
   Save time and money integrating complex data between disparate systems.

3. **Healthcare compliance:**
   Use established tools and processes to handle the management of sensitive patient and system data in a healthcare environment.

Example: QBOX® IVF
An IVF solution distributed by Merck where multiple laboratory instruments are connected to EMR allowing assisted reproductive treatment events to be automatically synchronized.

Toolset 2: QBOX® Workflow

Enables on-premise device interface to manage devices and workflow, benefiting your customers.

1. **Streamlined workflow:**
   Automate data flow to streamline information transfer between devices and systems enabling workflow standardization and efficiencies.

2. **Hands-off local control:**
   Enable staff to control devices locally without having to rely on physical access to the device or internet connectivity.

3. **Risk minimization:**
   Create visibility of risks in workflow, such as customized alerts.

Example: Gidget
A comprehensive workflow management system designed to aid quality control and improve lab efficiencies.

Toolset 3: QBOX® Access

Enables remote monitoring and management of devices, benefiting your customer and your company.

1. **End-to-end customer experience:**
   Enable remote access to device telemetry to multiple users based on their role, making it easier for users and customers to collaborate and complete an end-to-end process more efficiently.

2. **Centralized dashboards and reporting:**
   Monitor data and operations centrally across multiple sites to improve efficiency and cost management. Access to product usage reporting personalized to each user.

3. **Support:**
   Control, monitor and support devices remotely, including over-the-air upgrades. Reduce costly on-site callouts through early fault detection and preventative maintenance.

4. **Remote patient care:**
   Securely connect remote point-of-care devices to the clinic using privacy compliant systems (HIPAA and GDPR).

Example: Lumos Diagnostics' portable testing kit
A take-home testing kit for patients to monitor their health, with results securely transmitted to the clinic for access by healthcare professionals.

Toolset 4: QBOX® Insights

Enables advanced analytics and AI to draw deep insights from customer and device data, benefiting your customer and your company.

1. **Product Manager insights:**
   Understand how the device ecosystem is being used in-situ and take an evidence-based approach to new feature development and product pipeline strategy.

2. **Customer Insights and AI:**
   Draw on machine learning and AI to improve the workflow, staff productivity and process outcomes through AI based automation on the data processed through the QBOX® solution.

Example: Eeva
AI software providing embryologists the capability for automated evaluation of early embryo development to improve embryo assessment.