NOA – Next Open Automation
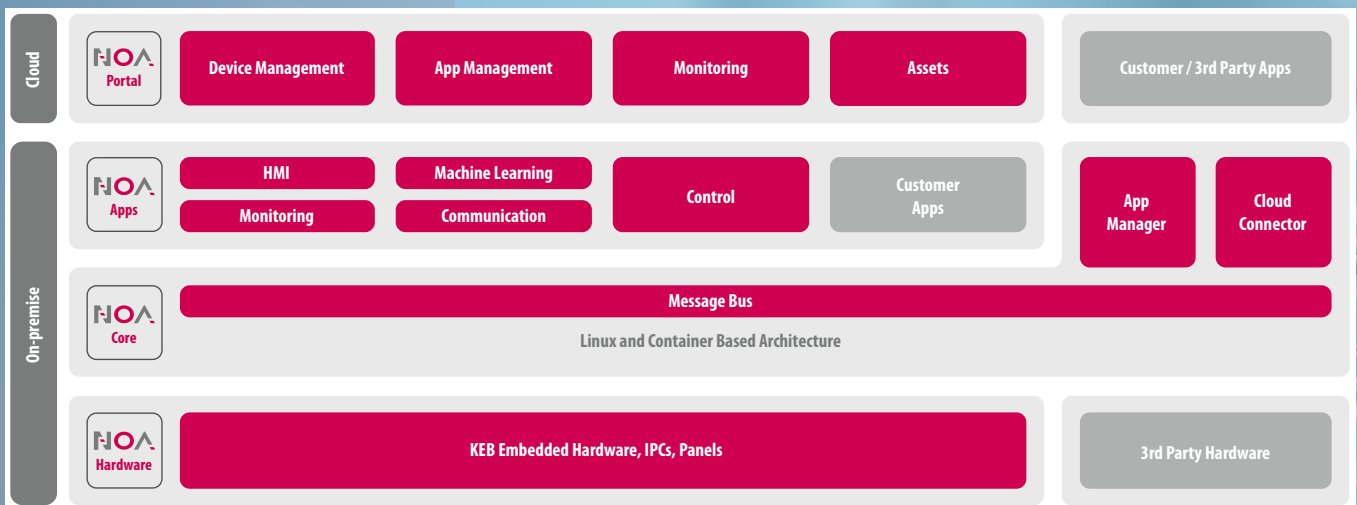
IIOT & AUTOMATION PLATFORM

EN

NOA

Next Open Automation

REALLY OPEN. TRULY FLEXIBLE. FUTURE PROOF.

As a platform, NOA offers the possibility of designing your own automation solutions on the basis of open systems. In addition to hardware and software products from KEB, the concept can be easily expanded – through the user's own expertise or the integration of third-party providers. This means that basic elements can be simply supplemented with knowledge from specialised companies.

- Hardware-independent
- Future-proof, truly open architecture
- Add your own and third-party applications
- Increased flexibility
- Linux and container-based architecture

Cloud — NOA Portal	Device Management	App Management	Monitoring	Assets	Customer / 3rd Party Apps

On-premise — NOA Apps	HMI / Monitoring	Machine Learning / Communication	Control	Customer Apps	App Manager	Cloud Connector

NOA Core — Message Bus

Linux and Container Based Architecture

NOA Hardware — KEB Embedded Hardware, IPCs, Panels | 3rd Party Hardware

The core infrastructure on the edge component (NOA Core) is based on a Linux and container-based architecture and can be used on embedded hardware, IPCs and panels from KEB or 3rd party devices. The App Manager is used to operate NOA apps such as solutions for HMIs, machine learning (anomaly detection and predictive maintenance), monitoring and control systems as well as customised or 3rd party apps.

Apps and devices can be managed across locations in the optional cloud component (NOA Portal). NOA is also customisable as a white label version for OEMs and end customers to enable business models such as "automation platform-as-a-service".

Your advantages

PROGRESS CAN BE SEEN IN MANY DETAILS.

It is summarised in one name: **NOA.**
Generate data and utilise it efficiently:

- Complete transparency of locations, systems, machines and processes
- Higher machine availability
- Basis for new business areas and models
- Enhanced customer loyalty
- Easier collaboration with partners
- Optimised processes

KEB

OPEN AND SCALABLE SOLUTION:
AN AUTOMATION PLATFORM (AS A SERVICE) WITH A FUTURE-PROOF ARCHITECTURE.

NOA

WHAT IS NOA?

Rethink machines and systems:
As a manufacturer, NOA offers you a simple basis for getting started with flexible and modern machine and system concepts, from the optimised use of data to the integration of your own applications.

The automation platform
- NOA is an open and flexible platform for automation and IIoT
- Toolbox for customers to flexibly implement their requirements
- (Optional) IIoT portal for an easy entry into the world of IIoT and Industry 4.0

USE CASES

Use cases that are enabled by NOA:
- Device and fleet management
- Condition monitoring and diagnostic options
- AI-based analysis processes
- Intelligent alarming
- Remote maintenance
- Predictive maintenance
- Implementation of own functions/apps
- As an OEM, you can offer your customers a white-labelled automation platform

AUTOMATION PLATFORM
FOR MONITORING, CONTROLLING AND OPTIMISING YOUR MACHINES AND PRODUCTION SYSTEMS.

SYSTEM SOLUTION

How does NOA fit into the KEB system solution?
Use data obtained via intelligent sensors to optimise processes in machines and systems. The associated services and algorithms need a point of contact. This is where NOA comes into play. The platform offers you much more thanks to its openness and flexibility:

- Separation of hardware and software
- Manageability of the systems on-premise or in the cloud
- Integration of customised logic

This allows you to build modular, expandable systems. We rely on standards such as Linux and container-based technologies and offer you investment security for your products thanks to the many open interfaces. This makes you independent of manufacturers: Use hardware from KEB or 3rd party devices for perfect integration into a heterogeneous environment.

"NOA is your flexible platform with which you can prevent unwanted downtimes and high follow-up costs."

UWE HUBER
Head of HMI and IIoT Development

KEB

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