Your production in perfect flow

"EDGEONE" CLOUD DIAGNOSTIC PAAS FOR MES AND MOM PROCESSES

Data in production companies is often distributed across multiple locations and different repository types. Firms store their data in the main data centers, in public clouds including SaaS applications, and on the Edge, including remote sites, end devices and IoT devices. There are conventional structured data, widely varying unstructured data, newer NoSQL data types and data within container micro services there.

This diversity and the use of different software solutions for analysis and monitoring make optimal data management difficult. Due to its complexity, the future of digital production simply cannot consist of various isolated solutions and the separate data streams and work areas which result from this. The solution: the use of a cloud based platform.

Everything at a glance: EdgeOne

EdgeOne is an integrated platform based on a micro-service architecture. It offers the possibility to integrate Germanedge solutions as well as third party applications. The domain model is based on ISA95, and is ready for Industry 4.0.

EdgeOne is delivered in a scalable, customizable structure and is cloud agnostic – based on Docker Swarm and eventually Kubernetes. We support all operating concepts: whether SaaS, renting from the cloud or operating it yourself, on premises or a hybrid concept: you can start using EdgeOne as soon as a cloud connection is available.

Maximum efficiency: event bus and continuous deployment

Communication on EdgeOne is based on Apache Kafka. The loose connection between the services enables immediate event notification while constantly updating individual elements in the background.
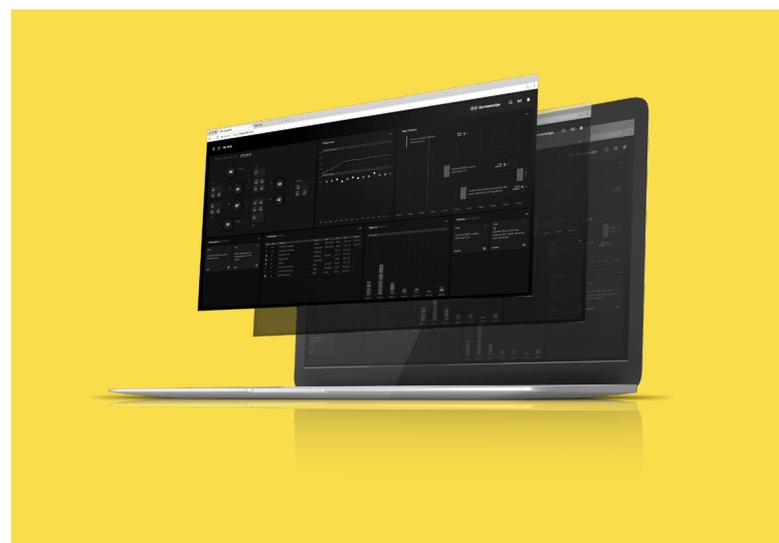
For example, external data sources are connected to Kafka via application-specific gateways: MDX for machine data via the MDX connectors as well as generic SAP interfaces. Event streams are also exposed to external targets via gateways, such as production clouds / DMPs, ERP systems / LIMS and others.

EdgeOne's service mesh management is built on Hashi Corp Consul and provides performance measurement and testing, self-analysis of each service including versioned dependencies, commissioning or restart, and centralized storage for service configuration.

Thanks to its microservice-based architecture and continuous deployment, EdgeOne enables fail-safe operation while ensuring that applications are always up-to-date.

Intuitive, thanks to the "Inspire" design system

Our design system „Inspire", which was specially developed for EdgeOne, is based on Angular. Thanks to our developed design system and additionally developed elements, EdgeOne is also visually the ideal platform for shop floor applications.

The EdgeOne user interface is based on HTML5, and can be switched between day and night modes. The responsive design also enables optimized platform access via different end devices.

By integrating the unified production workplace (UPW) into EdgeOne, a central user interface in the form of a web portal is created as an entry point to the various Germanedge and third-party solutions. This enables a SSO for all applications and the visualisation of basic cross-system information.

EDGEONE: YOUR PLATFORM FOR PRODUCTION IN PERFECT FLOW.

THE ADVANTAGES OF EDGEONE AT A GLANCE

- Cloud agnostic
- Available as SaaS, on premises or as hybrid concept
- Microservice-based
- Continuous deployment

- Event based communication
- Single sign on
- Event sourcing
- Special "Inspire" design system

Get in touch! →

Germanedge is a leading provider of Manufacturing Operation Management (MOM) software that brings Industry 4.0 into the perfect flow. Together with its five product providers (GEFASOFT, New Solutions, Objective International, ORSOFT and QDA SOLUTIONS) the brand offers a complete solution portfolio for the manufacturing industry: international, cross-plant, maximum efficiency.