APP CONTAINER
INTELLIGENT EDGE SOLUTIONS
BUILDING A CUSTOMER SOLUTION IS LIKE AN ORCHESTRATION.

A huge choice of available application containers can be networked to complete the customer solution with a minimum of development effort.

Application containers might provide functions for:
- Process-, Topology- and Asset Data acquisition from field devices and other data sources
- Data storage, aggregation and filtering
- Cloud-/On-Premise application connectivity and secure data transport

The open netFIELD application container reference architecture includes interfaces for the inter-container communication using MQTT. In this way it is possible to distribute overall solution workload over several devices or virtual machines. Additionally an application container may also be equipped with user-friendly web application which can be seamlessly integrated as plugin into the Edge Device Manager. The ability to implement methods into an application container, which can be called via the cloud api is completing the reference architecture of a netFIELD application container.

READY TO USE netFIELD APPLICATION CONTAINER

NETFIELD APP PROFINET TOPOLOGY

Make local data centrally available in the netFIELD Cloud platform.

- Transport data from the MQTT communication infrastructure to the netFIELD cloud platform API, where this data is exposed as a Web Socket Secure endpoint. You are free to configure which data topics are transported to the netFIELD Cloud platform.
- The configuration can be done locally or remote via the Device Manager provided by netFIELD OS.
- Stream this data into analytics pipelines or realtime dashboards. The firmware update of the netFIELD Edge device is also managed by the netFIELD Proxy application container.

NETFIELD APP PROFINET DEVICE

Enable a netFIELD Edge device to be a field device in a PROFINET network

- netFIELD Edge devices with integrated netX technology can be connected directly to a real time ethernet network. In this case the netFIELD Edge device can exchange cyclic IO data with the PLC. Input/output data can be read/write via the MQTT communication infrastructure.
- The configuration can be done locally or remote via the Device Manager provided by netFIELD OS.

NETFIELD APP OPC UA TOPOLOGY

Monitoring of topology and assets connected to a PROFINET network

- The netFIELD PROFINET Topology application container is able to recognize, which devices including IO-Link sensors are available in the network and knows how they are related to each other.
- The complete set of asset data and network information is published to the MQTT communication infrastructure on a regular base.

NETFIELD APP OPC UA CONNECTOR

Connect to and browse multiple OPC UA server of field devices

- This easy-to-use OPC UA Connector enables the connection to multiple OPC UA capable field devices and is able to automatically browse the complete node tree of any OPC UA Server. Relevant nodes can be selected so that the values can be published in the MQTT communication infrastructure. The configuration can be done locally or remotely via the device manager provided by netFIELD OS.
- Push selected data streams to the cloud of your choice.
- Transport data from the MQTT communication infrastructure to the Azure, AWS or Google Cloud.
- The app configuration can be done locally or remote via the Device Manager provided by netFIELD OS or netFIELD Cloud.

NETFIELD APP AZURE/AWS/GOOGLE CONNECTOR

Deploy the ready-to-use netFIELD apps together with self-developed containers to your netFIELD Edge devices in order to complete high-quality customer solutions.
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