

OPC UA Apps

Enhanced data flexibility and interoperability
in Industry 4.0 applications

- OPC UA client/server data connections to MQTT applications
- Bidirectional data transfer to and from an MQTT broker
- Support for common security methods such as authentication and encryption
- Web user interface for effortless configuration



Data bridges between OPC UA and MQTT

The two platform-independent netFIELD App containers 'MQTT to OPC UA Converter' and 'OPC UA to MQTT Converter' are software gateways that enable a transparent data exchange between applications that are using the two different messaging protocols MQTT and OPC UA as data interfaces.

On the primary side, both containers function as MQTT clients. The client of the 'MQTT to OPC UA Converter' subscribes to configurable topics of an MQTT broker and transfers their payload to objects within its secondary side operated OPC UA server. Conversely, the 'OPC UA to MQTT Converter' acts as an OPC UA client on the secondary side, aggregating configurable data objects from one

or more OPC UA servers, and publishing them to an MQTT broker as topics through the MQTT client.

Generally, Hilscher's netFIELD Apps use MQTT as the preferred IoT messaging protocol for exchanging their data with other applications. With the provision of the two OPC UA converter containers, it is now possible to enhance netFIELD Apps with an OPC UA data interface. This offers greater flexibility and interoperability in industrial environments when there is a need for OPC UA data-driven decision-making processes in IIoT application scenarios such as predictive maintenance, improved manufacturing efficiency, general cost savings, and higher product quality in production processes.



- netFIELD OPC UA Apps
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Product information

Technical Data

General

Software type

Container

Repositories

Containers accessible exclusively to netFIELD Cloud subscribers

Hardware requirements

Processor architecture

x64, ARM32, ARM64

Container size

350 MB, unpacked

Memory requirements

Minimum 200 MB

Data interface

Ethernet

Software requirements

Operating system

Linux

Container runtime environment

Required, e.g., Docker

Runtime properties

Inbound protocol

MQTT to OPC UA Converter: MQTT (as a client)

OPC UA to MQTT Converter: OPC UA Client

Outbound protocol

MQTT to OPC UA Converter: OPC UA Server

OPC UA to MQTT Converter: MQTT (as a client)

Note: All technical data may be changed without further notice.

Product overview

NFA-OPS-OTP

1917.065

netFIELD App MQTT to OPC UA Converter

NFA-OPC-OTP

1917.059

netFIELD App OPC UA to MQTT Converter

Related products

Product overview

NFX8M-D2-N32-010

1918.010

netFIELD Compact X8M - ARM computer platform for containerized applications

NIOT-E-TIJCX-GB-RE/NFLD

1321.300/NFLD

netFIELD OnPremise x64 computer platform for containerized applications with netX support



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