dataFEED MQTT Connector
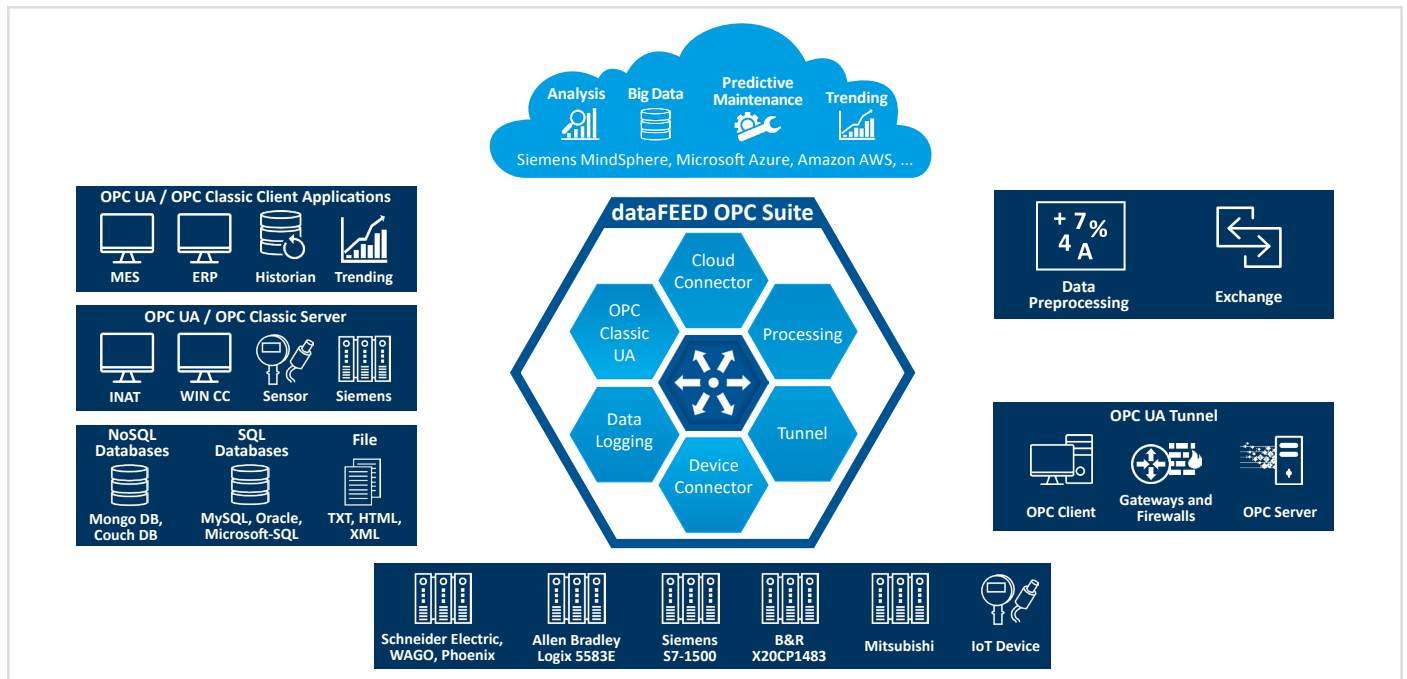
Secure transmission of production data in IoT cloud applications

- **MQTT gateway for connecting production to IoT clouds**
- **Integration of OPC UA applications into modern Industry 4.0 IoT cloud solutions**
- **State-of-the-art security through SSL/TLS support, including certificates**

Gateway to IoT clouds via MQTT

- Easy control integration into IoT and Industry 4.0 solutions
- Cost savings through inclusion of existing OPC Classic components in MQTT applications
- Use of non-MQTT-ready components like Siemens S5 controllers into IoT cloud applications, e.g. in Microsoft Azure
- Recipe manager functionality for writing back process data from the cloud to controllers (MQTT Subscriber)
- No changes to control program required
- Direct connection of IoT devices (MQTT Publisher) without using an MQTT Broker

Easy configuration

- State-of-the-art, intuitive graphical user interface for rapid configuration of MQTT communication
- Use of intelligent, practice-oriented defaults, setup wizards and drag-and-drop support
- Freely definable and adjustable JSON data format

State-of-the-art security

- High data security provided to production applications
- Protection against data loss through Store&Forward function: Intermediate storage of data in the event of disconnection and automatic transmission after connection reactivation
- Support of all security mechanisms defined by MQTT standard, e.g. SSL encryption
- Authentication by user name and password including user certificate
- Data encryption using multiple encryption algorithms

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Technical Data

Supported dataFEED OPC Suite Features	OPC UA Server (including Store And Forward) and Client, OPC Classic Server and Client, OPC UA Tunnel, OPC Tunnel, MQTT (Publisher/Subscriber) and REST Connector, Data preprocessing, Database access (SQL/NoSQL), File access, Data Exchange, Optimizer, Concentrator, Bridge, Filter, Local Items
Protocols for IoT Cloud Link	MQTT V3.1.1, V3.1 — Methods: Publisher, Subscriber; MQTT transport protocol: TCP, TLS, WS and WSS; MQTT security: SSL including certificates, authentication via user name and password, including certificates
Supported IoT Devices	All devices with integrated MQTT Publisher
Maximum Number of Items	10,000
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Alarms & Events V1.10, OPC Unified Architecture V1.04
Supported OPC Data Types	VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types
Operation Mode	Application (OutProc Server), Windows Service
Logging, Diagnostics	Detailed system logging, recording of connection information, OPC calls and notifications, OPC data, OPC UA Tunnel nd OPC Tunnel telegrams, database access, …
Free Testing Tools	OPC Classic Demo Server, OPC Classic Demo Client, OPC UA .NET Demo Server, dataFEED OPC UA Client
Supported Operating Systems	Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry, Windows 10, Windows 10 IoT Enterprise, Windows 11, Windows 11 IoT, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, Windows Server 2022
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite Extended functionality, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Suite, dowload via Softing website
License key	By e-mail or on USB dongle
Documentation	Manual in PDF format, online help in English and German

Order Numbers

LRL-DY-135001	**dataFEED OPC Suite Extended** License, Version V5.x, including: ▪ all supported PLC protocols and protocols for IoT cloud access ▪ support of OPC UA including Store And Forward Server Mode ▪ simultaneous access to 50 OPC UA tunnel clients and 50 OPC UA tunnel servers and to a total of up to 100 OPC UA Servers, OPC Servers and OPC Tunnel Servers ▪ as well as further functionalities such as data preprocessing, data logging and recipe management, Data Exchange, Optimizer, Concentrator and Bridge ▪ including all future extensions within the main version V5.x
HUA-DD-130001	**USB Hardware Key** for dataFEED OPC Suite, Version V4.01 and subsequent, replacing standard Software Key

Additional Products and Services

TSA-DY-140001	Training "Industrial Communication for Industrie 4.0"

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