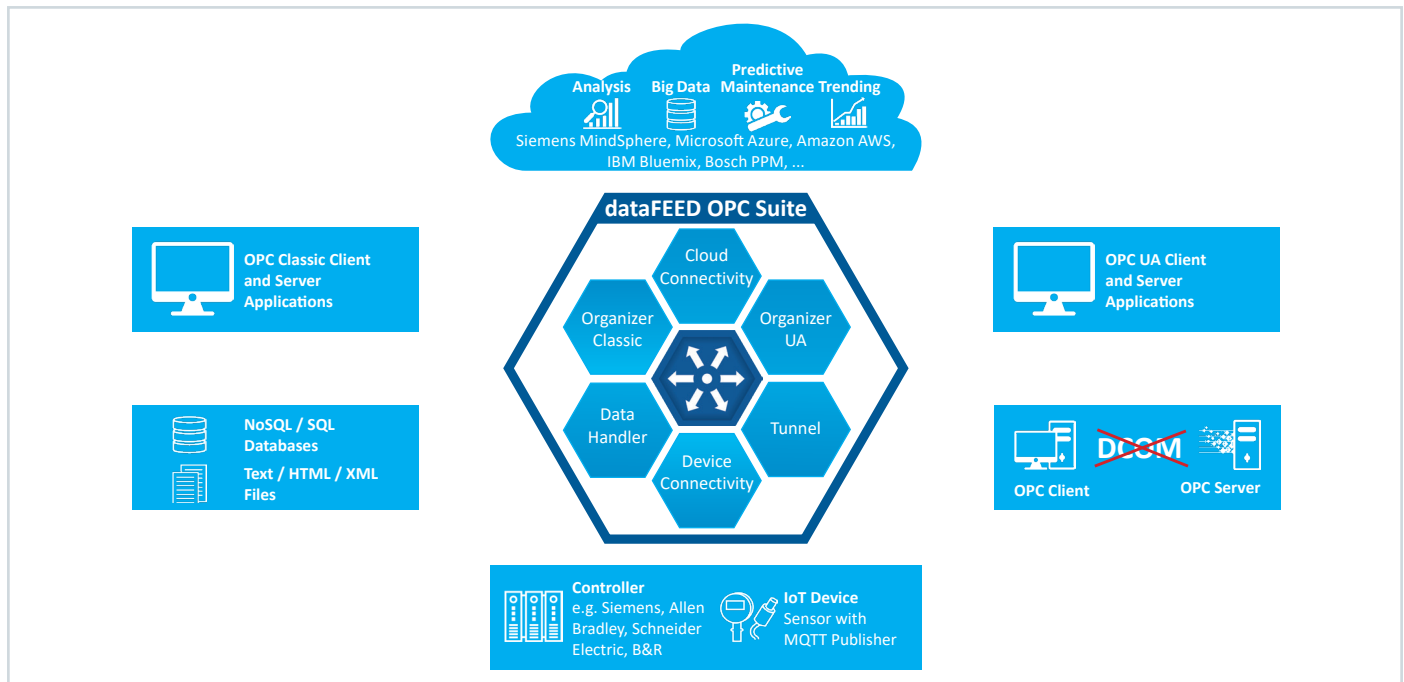# dataFEED OPC Suite

All-in-One Solution for OPC Communication and Big Data, IoT Cloud Conncetivity

- **Access to Process and Diagnostic Data in Controllers of Leading Manufacturers, Including Siemens, Rockwell, B&R, Mitsubishi**
- **Integration of Legacy OPC Classic Components and Applications into Modern „Industrie 4.0" OPC UA Solutions**
- **MQTT, MindConnect and REST Gateway for Integrating Production Data in IoT Cloud and Big Data Solutions, e.g. Microsoft Azure, Bosch PPM and Siemens MindSphere**

Simple and Independent Access to Controllers and IoT Devices

- Read and write access to data in controllers from leading manufacturers
- Use without mofiying control program
- Easy integration of existing and new controllers into "Industrie 4.0"* solutions
- Integration of non-OPC UA-capable components, such as Siemens S7 controllers, into OPC UA solutions
- Cost savings through further use of already existing OPC Classic components
- Gateway functionality for connecting controllers and components with integrated OPC UA Server to OPC Classic applications
- Direct connection of IoT devices (MQTT Publisher) without using an MQTT Broker

Gateway to Big Data and IoT Clouds Solutions

- Integration of automation devices via MQTT Publisher, MindConnect and REST Client functionality in IoT cloud applications, e.g. Siemens MindSphere, Bosch PPM or Microsoft IoT Connected Factory
- Easy integration of production data into NoSQL Big Data storage solutions such as MongoDB
- State-of-the-Art security by SSL/TLS support, including certificates

Easy Configuration

- Modern, intuitive graphical user interface for fast OPC communication configuration
- Use of smart hands-on defaults, setup wizards and drag-and-drop support
- Time savings through effective and efficient configuration of distrubuted automation systems with many OPC UA and OPC Classic Servers

* "Industrie 4.0" is a German government-driven initiative for implementing an industrial "Internet of Things"

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Technical Data

Supported dataFEED OPC Suite Features	OPC UA Server and Client, OPC Classic Server and Client, OPC Tunnel, MQTT, MindSphere and REST Connector, Database Access (SQL/NoSQL), File Access, Data Exchange, Optimizer, Concentrator, Bridge, Filter, Local Items
Supported Controllers	Siemens SIMATIC S5, SIMATIC S7 (S7-200, S7-300, S7-400, S7-1200, S7-1500, including optimized blocks), LOGO! 8, SENTRON PAC Counter and Siemens-compatible controllers like VIPA controllers Rockwell SLC-500, PLC-5, ControlLogix and CompactLogix Mitsubishi Melsec-Q Series with Ethernet interface B&R controllers with Ethernet interface Modbus TCP-compatible controllers (Wago, Beckhoff, Phoenix Contact, Schneider Electric, etc.) All controllers and devices with integrated OPC UA Server
Supported IoT Devices	All devices with integrated MQTT Publisher (TCP, SSL, WS, WSS)
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 UA Functionality	Data Access profile TCP transport protocol using OPC UA binary coding Security methods: AES256_SHA256, AES128_SHA256, Basic256Sha256, Basic 256, None Authentication by user names and passwords including user certificate

Protocols for IoT Cloud Link		
	MQTT Publisher V3.1.1, V3.1	TCP, SSL, WS, WSS QoS, Retain, Last Will and Testament Security: SSL/TLS including certificates
	MindConnect	HTTPS Methoda: POST Security: SSL including certificates, authentication via Shared Secret or RSA
	REST Client	TCP, HTTP, HTTPS Methods: PUT, POST Security: SSL and user authentification including certificates

Supported Databases	NoSQL databases, e.g. MongoDB, CouchDB ODBC-enabled databases, for example, Oracle, MySQL, Microsoft SQL Server Other NoSQL- and ODBC-enabled databases upon inquiry
Operation Mode	Application (OutProc Server), Windows Service
Logging, Diagnostics	Detailed system logging, recording of connection information, OPC calls and notifications, OPC data, OPC tunnel telegrams, database access, …
Supported Operating Systems	Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry, Windows 10, Windows 10 IoT Enterprise Windows Server 2003, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
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
Documentation	Manual in PDF format, online help in English and German

Order Numbers

LRL-DY-134501	dataFEED OPC Suite, Version V5.x or previous, including all supported PLC protocols and protocols for IoT cloud access, OPC UA, simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and dataFEED OPC Tunnel servers, additional functionality like data logging and recipe management, Data Exchange, Optimizer, Concentrator and Bridge
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 "Industry 4.0 Communication in Practice"

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