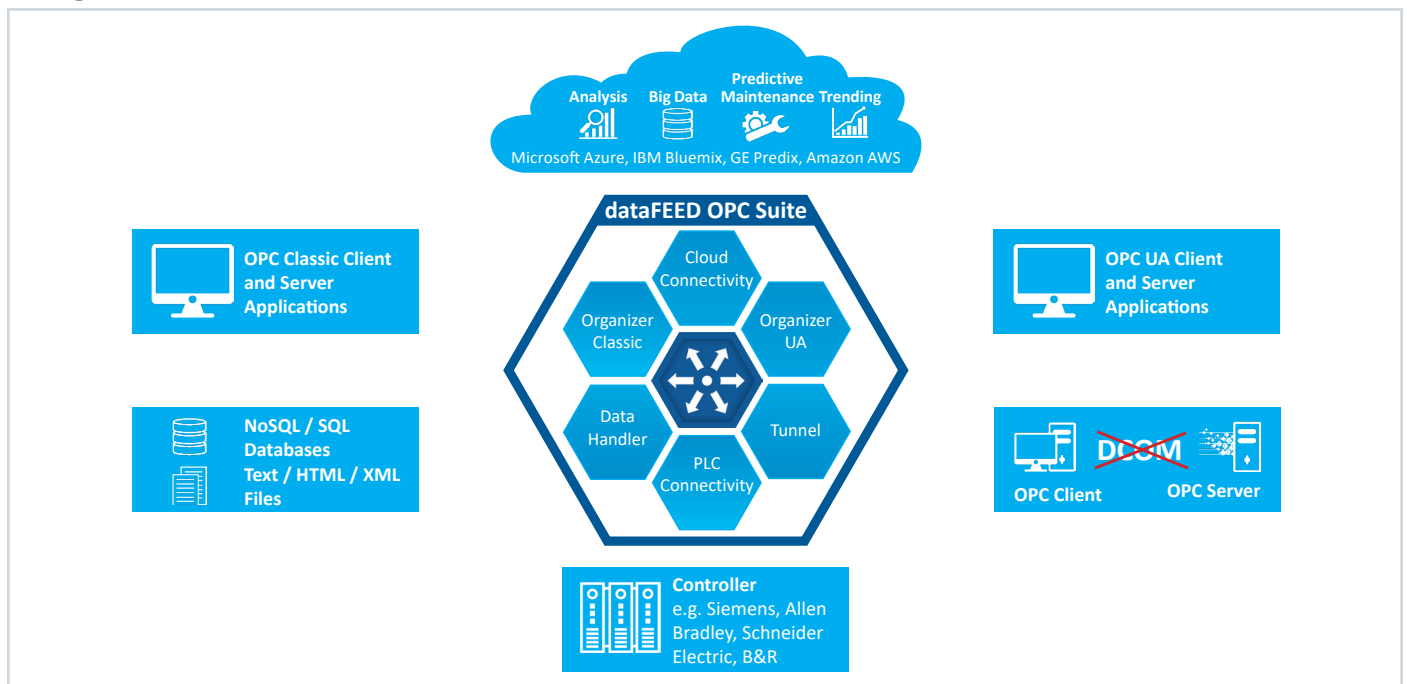# dataFEED OPC Suite

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 and REST Gateway for Integrating Production Data in IoT Cloud and Big Data Solutions, e.g. Microsoft IoT, IBM Watson IoT**

Simple and Independent Access to Controller Data

- 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

Gateway to Big Data and IoT Clouds Solutions

- Integration of automation devices via MQTT Publisher and REST Client functionality in IoT cloud applications, e.g. IBM Watson Cloud 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 Features	OPC UA Server and Client, OPC Classic Server and Client, OPC Tunnel, MQTT and REST Connector, Database Access (SQL/NoSQL), File Access, Data Exchange (in any direction between OPC UA and OPC Classic Servers or controllers), Filter, Optimizer, Concentrator, Bridge, Local Items (in any direction between OPC UA and OPC Classic Clients)
Supported Controllers	Siemens S5, S7 (200,300,400,1200,1500 including optimized blocks), LOGO! 8, PAC Counter and Siemens-compatible controllers like VIPA controllers Rockwell SLC-500, PLC-5, ControlLogix and CompactLogix Mitsubishi Melsec-Q Series with Ethernet interface card B&R controllers with Ethernet interface Modbus TCP-compatible controllers (Wago, Beckhoff, Phoenix, Schneider, etc.) All controllers and devices with integrated OPC UA Server
Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Alarms & Events V1.10, OPC Unified Architecture V1.02
Supported OPC UA Functionality	Data Access profile
	TCP transport protocol using OPC UA binary coding
	Security methods — Basic256Sha256 / Basic256 / Basic128Rsa15 / None
	Authentication by user names and passwords including user certificate
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
Protocols for IoT Cloud Link	MQTT Publisher — MQTT Publisher V3.1.1, V3.1 / QoS, Retain, Last Will and Testament / Security SSL/TLS including certificates
	REST Client — TCP, HTTP, HTTPS / Methods: PUT, POST / Security SSL and user authentification
Supported Databases	NoSQL databases, e.g. MongoDB, CouchDB ODBC enabled databases, for example, Oracle, MySQL, Microsoft SQL Server, IBM DB2, other NoSQL- and ODBC-enabled databases upon inquiry
Operation Mode	Application (OutProc Server), Windows Service
Logging, Diagnostics	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access, database access, configurable via integrated web server diagnostic interface
Supported Operating Systems	Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry, Windows 10, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Suite on CD-ROM
Documentation	Manual in PDF format on CD-ROM, online help in English and German

Order Numbers

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher, including all supported PLC protocols and protocols for IoT cloud access, OPC UA support, access of any number of OPC Tunnel Clients, for simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and dataFEED OPC Tunnel Servers plus additional functionality like Database Access, File Access, Data Exchange, Optimizer, Concentrator and Bridge
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

100-1030-01	Training "OPC Server and Client in Practice"
GAA-DX-145111	dataFEED uaGate SI
GAA-YE-145133	dataFEED uaGate MB
GPL-CS-191000	echolink S7-compact

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