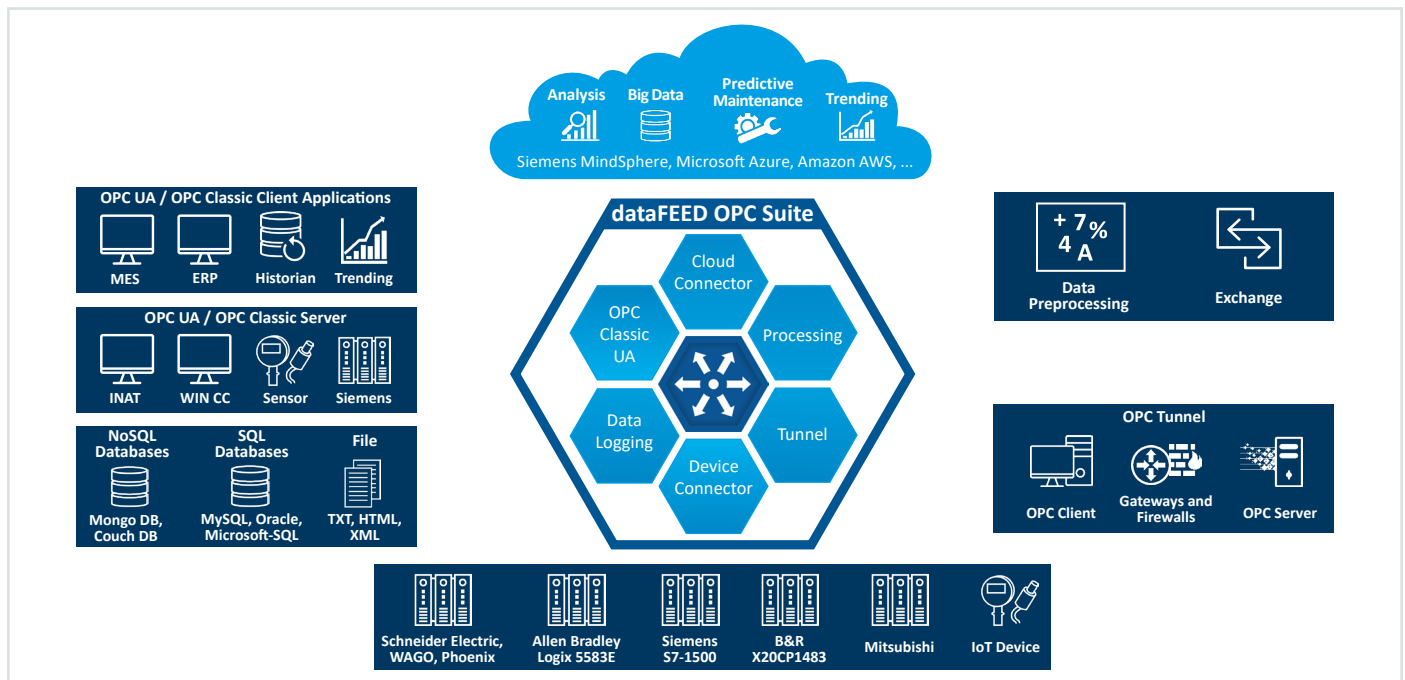


# dataFEED OPC Suite Extended

Secure and Reliable All-in-One Solution for OPC Communication and IoT Cloud Connectivity

- Access to process and diagnostic data in controllers of leading manufacturers, including Siemens, Rockwell (Allan Bradley), B&R, Mitsubishi
- Flexible and simple manipulation of the data
- MQTT, MindConnect and REST gateway for integrating production data in IoT Cloud and Big Data solutions, e.g. Microsoft Azure, Amazon AWS and Siemens MindSphere
- Easy to use



## Simple and Independent Access to Controllers and IoT Devices

- Use without modifying control program
- 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/Subscriber, MindConnect and REST Client functionality in IoT cloud applications, e.g. Siemens MindSphere, Amazon AWS or Microsoft Azure
- 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
- Protection against data loss through Store & Forward for OPC, MQTT and REST

## Extensive and flexible data processing

- Data conversions of values, e.g. conversion from Celsius to Fahrenheit
- Comprehensive logical operation such as extraction of bits from an integer
- Data exchange between different automation worlds (e.g. between Siemens and Rockwell controls) without changing the control program

## 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 distributed automation systems with many OPC UA and OPC Classic Servers

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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 Tunnel, MQTT (Publisher/Subscriber), MindSphere and REST Connector, Data preprocessing, Database access (SQL/NoSQL), File access, Data Exchange, Optimizer, Concentrator, Bridge, Filter, Local Items						
Supported Controllers	<ul style="list-style-type: none"><li>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</li><li>Rockwell SLC-500, PLC-5, ControlLogix and CompactLogix</li><li>Mitsubishi Melsec-Q Series with Ethernet interface</li><li>B&amp;R controllers with Ethernet interface</li><li>Modbus TCP-compatible controllers (Wago, Beckhoff, Phoenix Contact, Schneider Electric, etc.)</li><li>All controllers and devices with integrated OPC UA Server</li></ul>						
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						
OPC UA Security	<ul style="list-style-type: none"><li>Data Access profile</li><li>OPC UA Server Store And Forward</li><li>TCP transport protocol using OPC UA binary coding</li><li>Security methods: AES256_SHA256, AES128_SHA256, Basic256Sha256, Basic 256, None</li><li>Authentication by user names and passwords including user certificate</li></ul>						
Protocols for IoT Cloud Link	<table><tr><td>MQTT V3.1.1, V3.1</td><td>TCP, SSL, WS, WSS Methods: Publisher, Subscriber Security: SSL/TLS including certificates</td></tr><tr><td>MindConnect</td><td>HTTPS Method: POST Security: SSL including certificates, authentication via Shared Secret or RSA</td></tr><tr><td>REST Client</td><td>TCP, HTTP, HTTPS Methods: PUT, POST Security: SSL and user authentication including certificates</td></tr></table>	MQTT V3.1.1, V3.1	TCP, SSL, WS, WSS Methods: Publisher, Subscriber Security: SSL/TLS including certificates	MindConnect	HTTPS Method: POST Security: SSL including certificates, authentication via Shared Secret or RSA	REST Client	TCP, HTTP, HTTPS Methods: PUT, POST Security: SSL and user authentication including certificates
MQTT V3.1.1, V3.1	TCP, SSL, WS, WSS Methods: Publisher, Subscriber Security: SSL/TLS including certificates						
MindConnect	HTTPS Method: POST Security: SSL including certificates, authentication via Shared Secret or RSA						
REST Client	TCP, HTTP, HTTPS Methods: PUT, POST Security: SSL and user authentication including certificates						
Supported Databases	<ul style="list-style-type: none"><li>NoSQL databases, e.g. MongoDB, CouchDB</li><li>ODBC-enabled databases, for example, Oracle, MySQL, Microsoft SQL Server</li><li>Other NoSQL- and ODBC-enabled databases upon inquiry</li></ul>						
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, ...						
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 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 Extended
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	<b>dataFEED OPC Suite Extended</b> license, Version V5.x, including: <ul style="list-style-type: none"><li>all supported PLC protocols and protocols for IoT cloud access</li><li>support of OPC UA including Store And Forward Server Mode</li><li>simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and OPC Tunnel Servers</li><li>as well as further functionalities such as data preprocessing, data logging and recipe management, Data Exchange, Optimizer, Concentrator and Bridge</li><li>including all future extensions within the main version V5.x</li></ul>
HUA-DD-130001	<b>USB Hardware Key</b> 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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