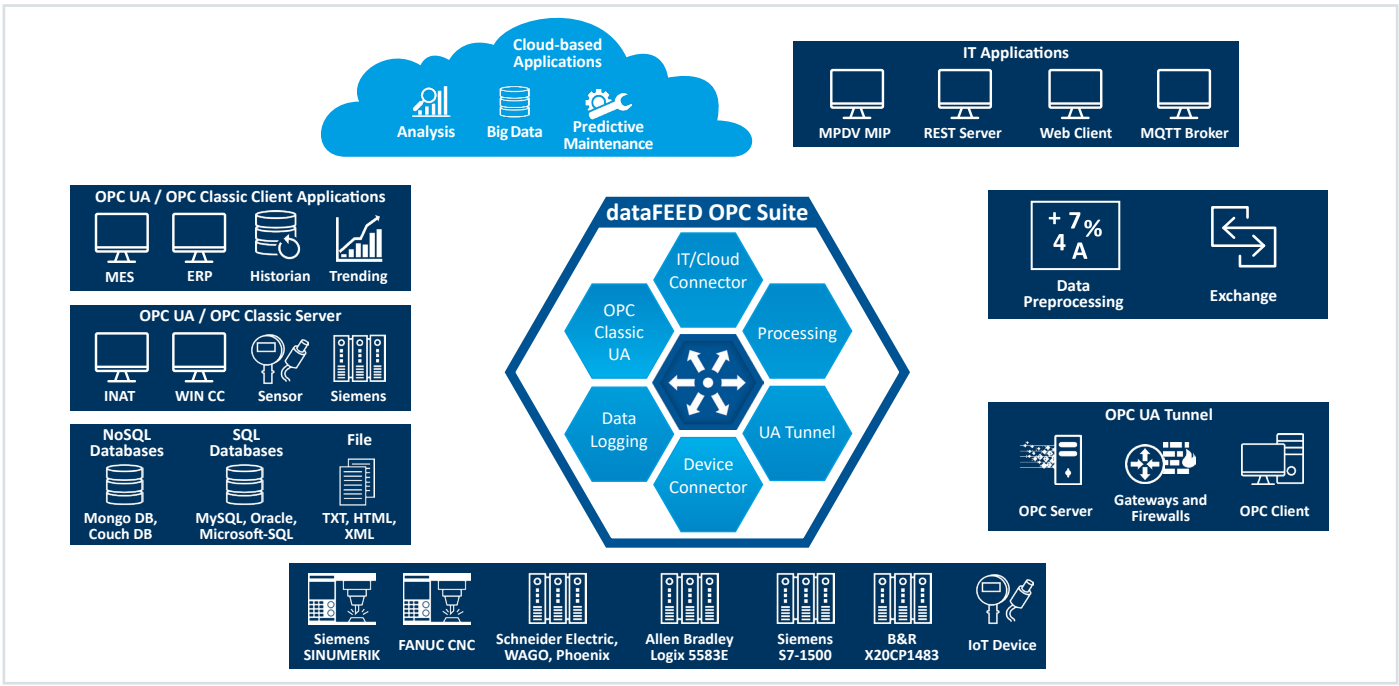
dataFEED OPC Suite Extended

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 (SIMATIC and SINUMERIK), FANUC CNC, Rockwell (Allen Bradley), B&R, Mitsubishi**
- **Flexible and simple manipulation of the data, including LUA script support**
- **MQTT and REST gateway for integrating production data in IoT Cloud and Big Data solutions, e.g. Microsoft Azure, Amazon AWS and MPDV MIP**
- **Easy to use**



Simple and Independent Access to Controllers (PLC and CNC) and IoT Devices

- Use without modifiying 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 IT Applications, Big Data and IoT Clouds Solutions

- Integration of automation devices via MQTT Publisher/Subscriber and REST Client functionality in IoT cloud applications, e.g. Amazon AWS, Microsoft Azure and MPDV MIP
- 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
- Direct access to production data via web client applications such as web browser, Postman or cURL
- 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
- Varied logical operation such as extraction of bits from an integer
- Extensive data type conversion options
- Comprehensive and complex data preprocessing through the support of LUA scripts
- 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
- Effective and efficient configuration of distrubuted automation systems with many OPC UA and OPC Classic Servers
- Easy industrial communication by avoiding DCOM and its complex security settings on the OPC Server and OPC Client side

optimize! softing

dataFEED OPC Suite Extended

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, Web Services, Data preprocessing, 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), Siemens SIMATIC S7-1200, S7-1500 (Optimized data blocks and TLS encryption with user authentication), LOGO! 8, SENTRON PAC Counter and Siemens-compatible controllers like VIPA controllers ▪ Siemens SINUMERIK 840D Solution Line, 840D Powerline and One ▪ FANUC CNC (0i-, 30-i, and PM-i CNC Series) ▪ 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 V1.05
OPC UA Functionality	▪ Data Access profile ▪ Reverse Connect ▪ OPC UA Server Store And Forward ▪ 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
Supported Tunnel Functionality	▪ OPC UA Tunnel (Server and Client) ▪ Softing OPC Classic Tunnel (Server and Client) ▪ ABB OPC Tunnel Server
Protocols for IT and Cloud Link	MQTT V5, V3.1.1, V3.1: TCP, SSL, WS, WSS; Methods: Publisher, Subscriber (only V3); Security: SSL/TLS including certificates REST Client: TCP, HTTP, HTTPS; Methods: PUT, POST; Security: SSL and user authentification including certificates Web Service: HTTPS; Methods: GET, POST; Security: SSL and user authentication including certificates; Services: Browsing, Reading, Writing and Subscribe/Unsubscribe
Data Processing	▪ Logical operations ▪ Math operations ▪ Data type conversion ▪ LUA script
Supported Databases	NoSQL databases, e.g. MongoDB, CouchDB, Influx DB; ODBC-enabled databases, for example, Oracle, MySQL, Microsoft SQL Server; Other NoSQL- and ODBC-enabled databases upon inquiry
Supported Data File Functions	Read and write access to XML, TXT and CSV files
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, Windows Server 2025
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite Extended functionality, time limited to 72 hours

optimize!
softing

dataFEED OPC Suite Extended

Scope of Delivery	
Software	dataFEED OPC Suite Externded
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 and CNC protocols ▪ protocols for IT Applications and 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 and Concentrator ▪ 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“
GPA-CS-041000	NETLink S7-Compact

Your local Softing contact:

https://industrial.softing.com

optimize! softing

Technical changes reserved © Softing Industrial Automation GmbH, dataFEEDOpcSuiteExtended_D_EN_251022_300, October 2025