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OPC UA Competence

Technology,
Products and Services
for Secure and Reliable
Data Integration



OPC TECHNOLOGY

OPC is the world's leading interoperability standard for secure and reliable data exchange in industrial automation and other applications. It ensures the seamless flow of information between devices and software applications of different manufacturers. The current OPC UA (Unified Architecture) standard is platform-independent, leveraging advanced security and data modeling technologies to deliver future-proof, scalable and extensible solutions. Companion Specifications further simplify the use of OPC UA for the end user.

The background of the page is a complex, abstract design. It features a dark blue gradient with a pattern of light blue and white binary digits (0s and 1s) scattered across it. Overlaid on this are several semi-transparent, light blue geometric shapes, including rectangles and a large, stylized 'O' or 'C' shape. The overall effect is a high-tech, digital aesthetic.

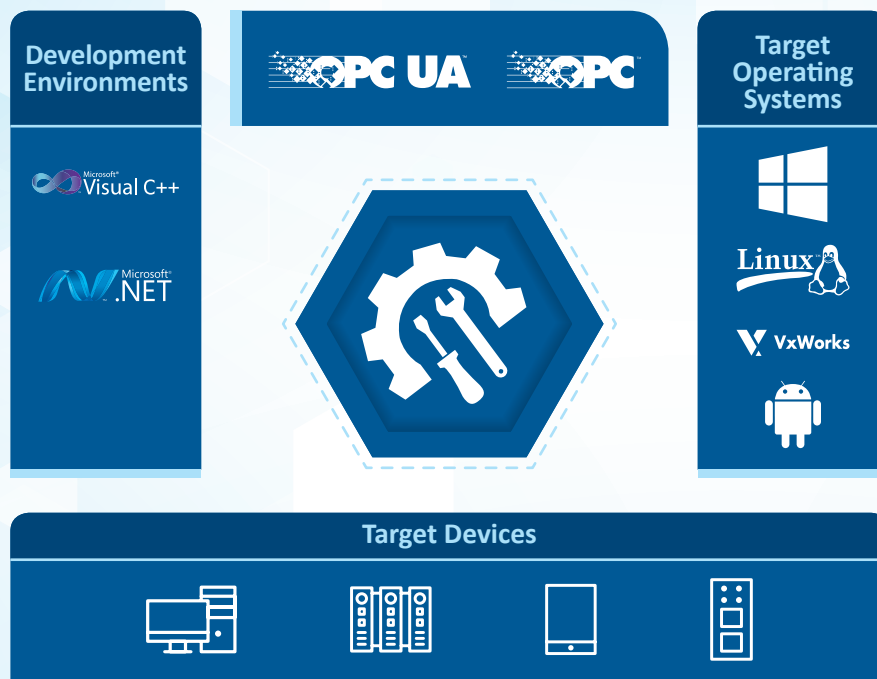
SOFTING COMPETENCE

With more than 20 years of experience in OPC technology and a close working relationship with the OPC Foundation, Softing is the ideal partner for all OPC topics. Softing develops and markets a broad range of development tools and consumer products, including gateways for innovative and secure IoT architectures. This makes it possible to realize state-of-the-art solutions for OPC-based data exchange, optimally tailored to individual requirements, both in brownfield applications and new systems. All Softing products support the state-of-the-art OPC UA technology. Thus, the implemented applications benefit directly from its advantages. The product range is supplemented by appropriate training and development services.

dataFEED OPC UA and OPC Classic SDKs

Fast Development of OPC UA Applications

Softing's dataFEED OPC SDKs enable the fast integration of OPC UA or OPC Classic connectivity capabilities in automation applications. The SDKs are built by a comprehensive set of libraries featuring a simple and well-documented programming interface. Relevant example applications as well as test and simulation tools allow for a short time-to-market of OPC-enabled products.



Complete Solution Addressing All Customer Requirements

- Comprehensive set of building blocks offering encapsulation and easy-to-use functionality required for implementing OPC UA Clients/Servers as well as OPC UA Publishers/Subscribers
- Modular design to scale OPC UA functionality according to actual requirements
- Wide range of available functionality, including Extended Security, Data Access, Complex Data, Events, Alarms & Conditions and Historical Access
- Integrated security concepts allowing safe remote data transfer actively addressing modern security threats
- Applicable for time-critical control tasks as well as for complex automation projects
- OPC UA Servers and Clients capable to move data and information between factory floor and enterprise level

Comprehensive Scope of Delivery for Easy and Fast Development

- Optimized Application Programming Interface (API) and easy to understand documentation
- Complimentary how-to example applications, step by step tutorials, complex test and simulation clients and servers for a lean getting started with OPC UA development

Investment Security Through Innovative License Model

- Implementation according latest OPC UA Client respectively OPC UA Server specifications
- Free migration to upcoming dataFEED OPC UA SDK versions thanks to SDK software and 3 years' right to updates to future versions
- Technology proven by use in Softing's OPC UA Server and middleware products

TRAINING



CONSULTING



SERVICE



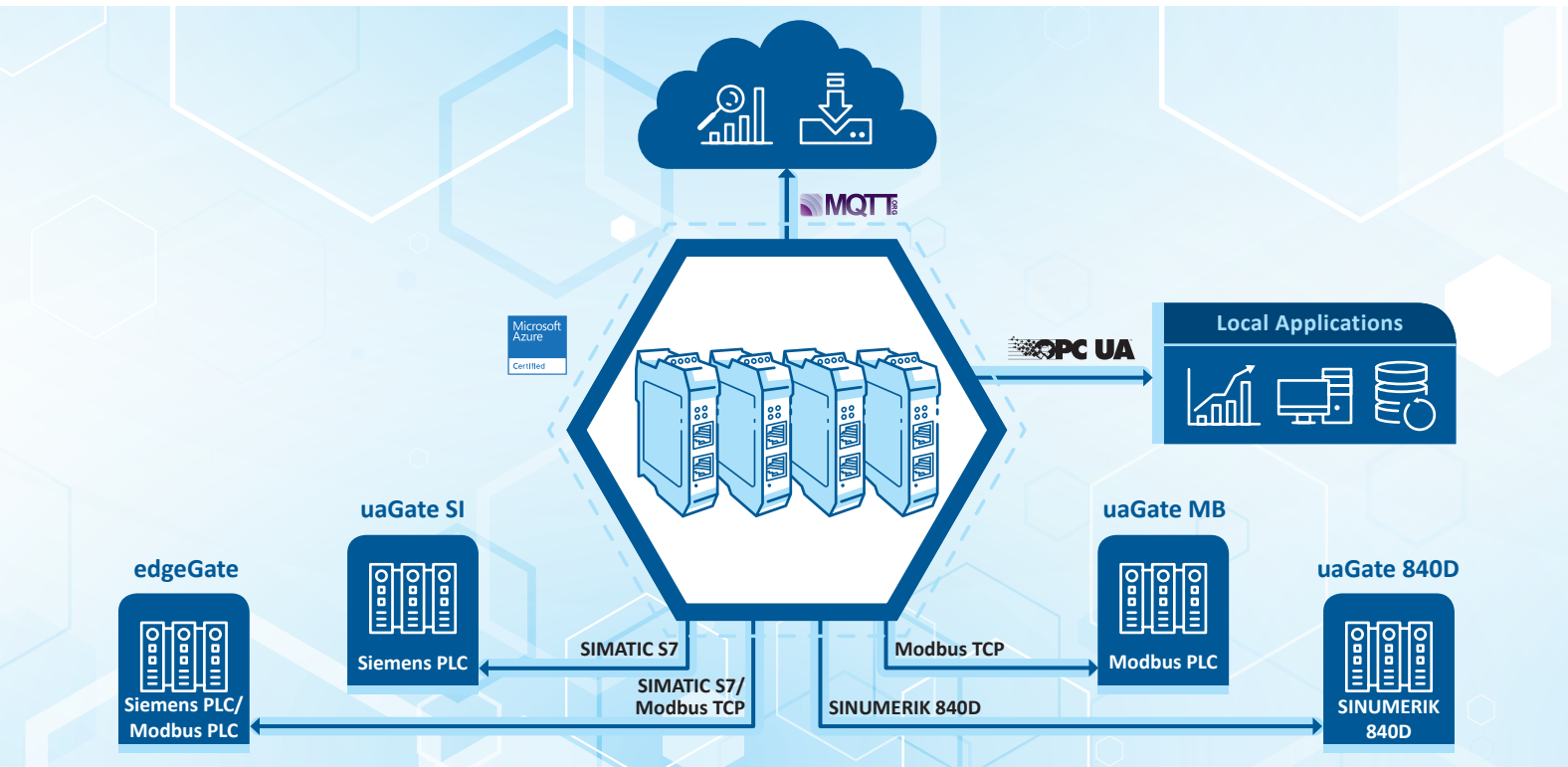
Product-Related Services

- Free workshops "OPC UA .NET for Developers" and "OPC UA C++ for Developers"
- Custom-specific developer-to-developer consultancy
- Development of tailor-made OPC solutions
- Consultancy for pre-certification and certification support

OPC UA Gateways

Embedded OPC UA Server Gateways for Siemens and Modbus PLCs

Softing's OPC UA gateway portfolio offers everything needed to make existing and new systems ready for "Industrie 4.0". The integrated OPC UA Server enables easy and secure data connections to higher-level management systems, such as ERP, MES or SCADA systems. The OPC UA gateways are compact, sustainable and at the same time industry-proven many times over.



edgeGate – Reliable Connectivity of Siemens and Modbus PLCs to IoT Hubs

- Chance for analytics, storage, computing applications in cloud solutions from different vendors, e.g. Amazon AWS, IBM Bluemix, Microsoft Azure
- Generic MQTT Publisher and OPC UA Server functionality for connecting industrial networks to IT applications running on-premise or in cloud
- Connectivity for up to five Siemens and Modbus controllers
- Direct symbol import from SIMATIC STEP 7 and TIA Portal projects

uaGate SI – OPC UA and MQTT Communication Upgrade of Siemens Retrofit Plants

- Integration of modern OPC UA communication functionality
- Easy integration for Siemens S7-300/400/1200/1500 controllers
- Direct symbol import from STEP 7 and TIA Portal projects or optimized access to S7-1200/1500 controller variables via browsing

uaGate MB – OPC UA and MQTT Communication Upgrade of Modbus TCP Plants

- Integration of modern OPC UA communication functionality
- Access to Modbus controllers, e.g. from Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.
- Symbol import of controller data using web interface

uaGate 840D – OPC UA and MQTT Connectivity for Complete SINUMERIK 840D Data

- Access to PLC, NCK and Drives data from Siemens SINUMERIK 840D
- Integration of different NCU types with software version newer than V4.3
- Delivered with pre-defined symbol files for 4 axes and 4 drives, individually adaptable by user
- Use of data for analysis, condition monitoring, predictive maintenance or data logging purposes

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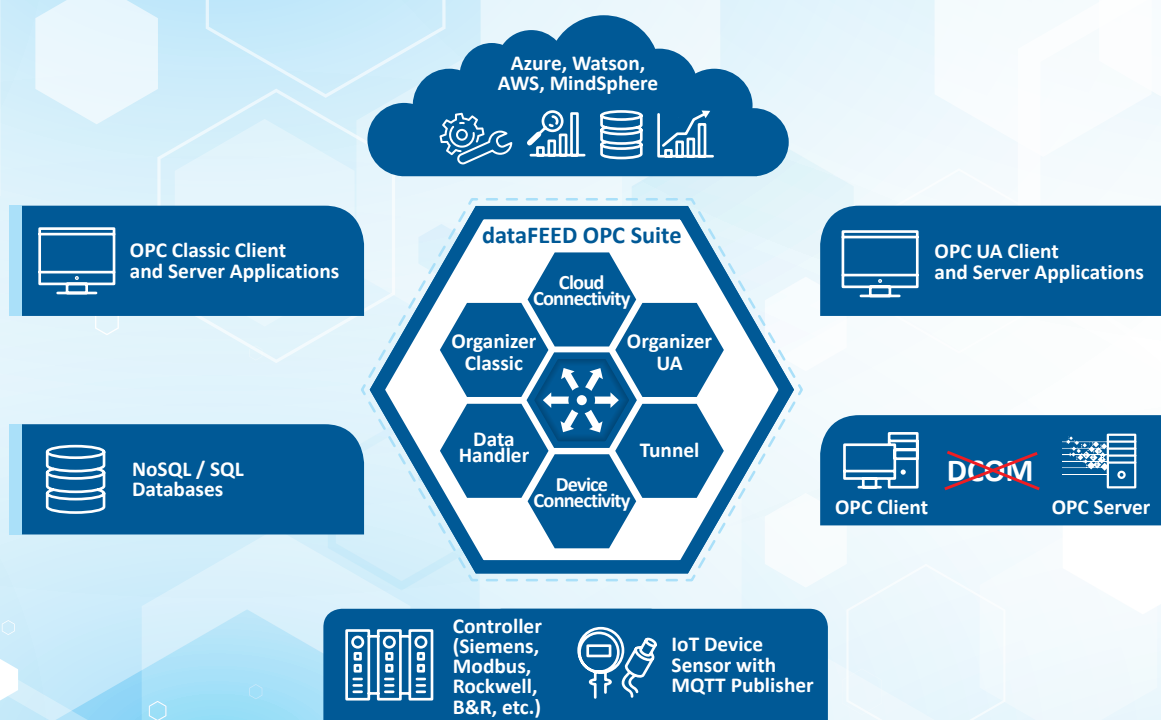
Product-Related Services

- Product training "Communication for Industrie 4.0 in Practice"
- Free workshop "Industrial Communication for Industrie 4.0"
- Development of tailor-made OPC solutions
- Consultancy for pre-certification and certification support

OPC UA and OPC Classic Servers, OPC Middleware

All-In-One Software Solution for OPC Communication

dataFEED OPC Suite offers a full package of components for OPC communication and cloud connectivity within a single product. It enables access to the controllers of leading manufacturers and IoT devices. Additional functionality eliminates DCOM problems and improves the communication between PLCs, OPC Servers and OPC Clients, independent of the use of OPC UA or OPC Classic. MQTT Connector and REST Connector enable the dissemination of data to IoT clouds.



Simple and Independent Access to Controllers and IoT Devices

- Read and write access to data in controllers from leading manufacturers
- Use without modifying 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 distributed automation systems with many OPC UA and OPC Classic Servers

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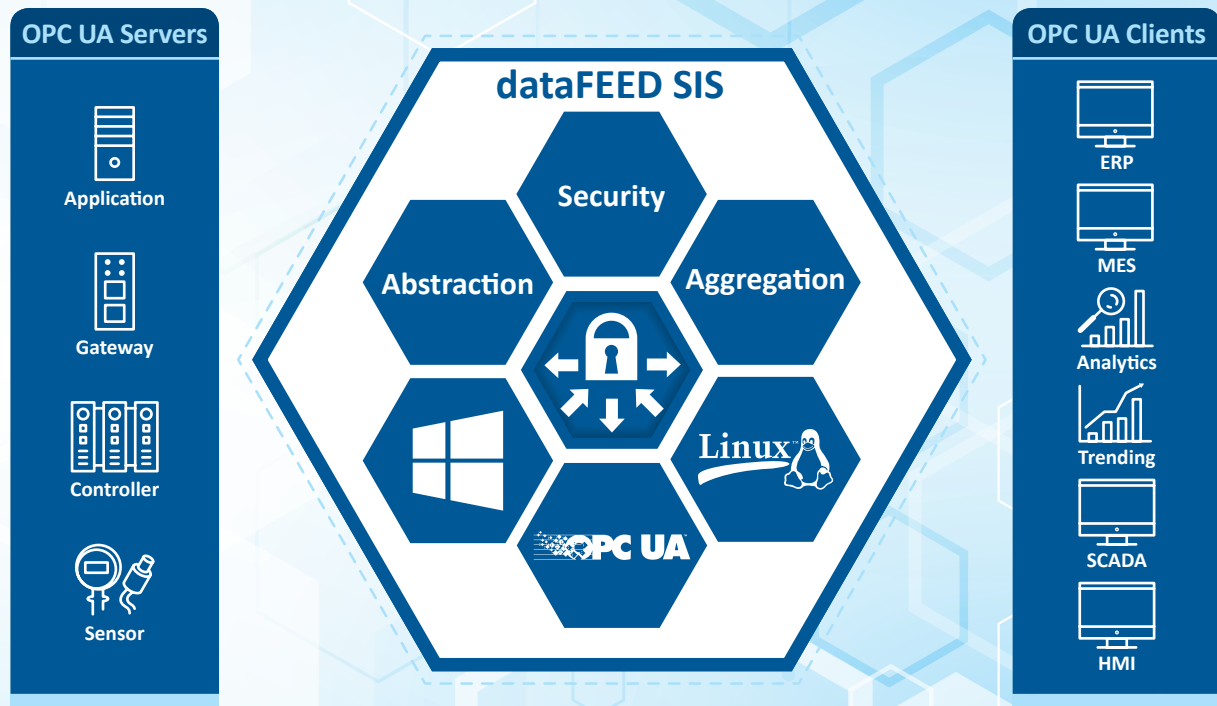
Product-Related Services

- Product training “Communication for Industrie 4.0 in Practice”
- Free workshop “Industrial Communication for Industrie 4.0”
- Development of tailor-made OPC solutions
- Consultancy for pre-certification and certification support
- Application integration

dataFEED Secure Integration Server

Secure and Flexible OPC UA-based IT/OT Integration Solution

dataFEED Secure Integration Server offers a secure data integration layer for IoT applications aggregating production and machine data. IT applications can access this data through consistent software interfaces. End-users gain the ability and flexibility to continuously scale their IoT solution throughout the life cycle of their control system while, at the same time, benefit from significantly reduced costs for integration and configuration.



Secure Communication

- Support of all safety functions of OPC UA standard
- Provide different data for different users and applications
- Support for multiple OPC UA Endpoints (client or server), each with its own certificates
- Filtered access, depending on IP address (White List / Black List for OPC UA Endpoints)
- Detection of DoS (Denial of Service) attacks on OPC UA authentication

Solutions for Edge Architectures

- Edge solution with features and benefits identical to those resulting from using central cloud platforms
- Running local clients (e.g. for edge analytics) in parallel with cloud-based applications
- Start with small IoT solution on cloud basis, later adaptation and expansion over time possible

Data Aggregation

- Aggregation of data from multiple sources in a server (aggregation of OPC UA Namespace)
- Application access to aggregation servers, not to many individual data sources
- Extensive and flexible OPC UA Service-based address space filtering, down to OPC UA Item level
- Reduced configuration effort (Configuration not required individually for each OPC UA data source and each OPC UA Client)

Interface Abstraction

- Common, stable OT interface for different IT applications
- Adaptations in automation network transparent for IT applications
- Easy integration of IT applications with standard OPC UA Clients in different OT environments
- Decoupling of investment decisions in IT and OT environment

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Product-Related Services

- Product training “Communication for Industrie 4.0 in Practice”
- Free workshop “Industrial Communication for Industrie 4.0”
- Consultancy
- Integration services

 **MQTT**
IOT

 **OPC UA**

Microsoft
Azure
Certified

 **OPC**
FOUNDATION

 **Encompass[®]
Product Partner**
A ROCKWELL AUTOMATION PARTNER
(2019)

REST

Silver
Partner
MindSphere

SIEMENS

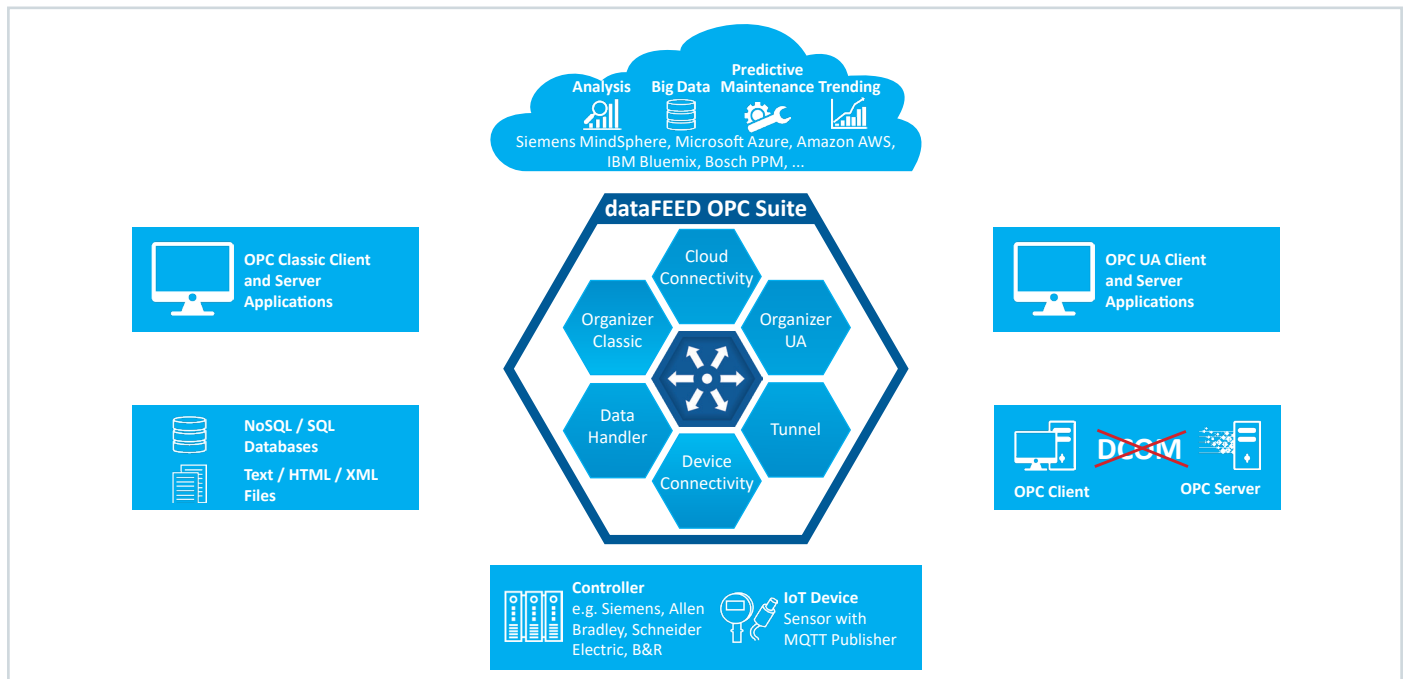
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https://data-intelligence.softing.com/opc_competence

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, B&R, Mitsubishi
- Protection Against Data Loss Through Store And Forward Functionality for OPC UA
- 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 modifying 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 distributed 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"

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 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 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	
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 authentication 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 Extended
Documentation	Manual in PDF format, online help in English and German

Order Numbers

LRL-DY-135001	dataFEED OPC Suite Extended, Version V5.x, including all supported PLC protocols and protocols for IoT cloud access, OPC UA support including Store And Forward, simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and OPC Tunnel Servers, additional functionality like data logging and recipe management, Data Exchange, Optimizer, Concentrator and Bridge, including all future enhancements within major 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 "Industry 4.0 Communication in Practice"
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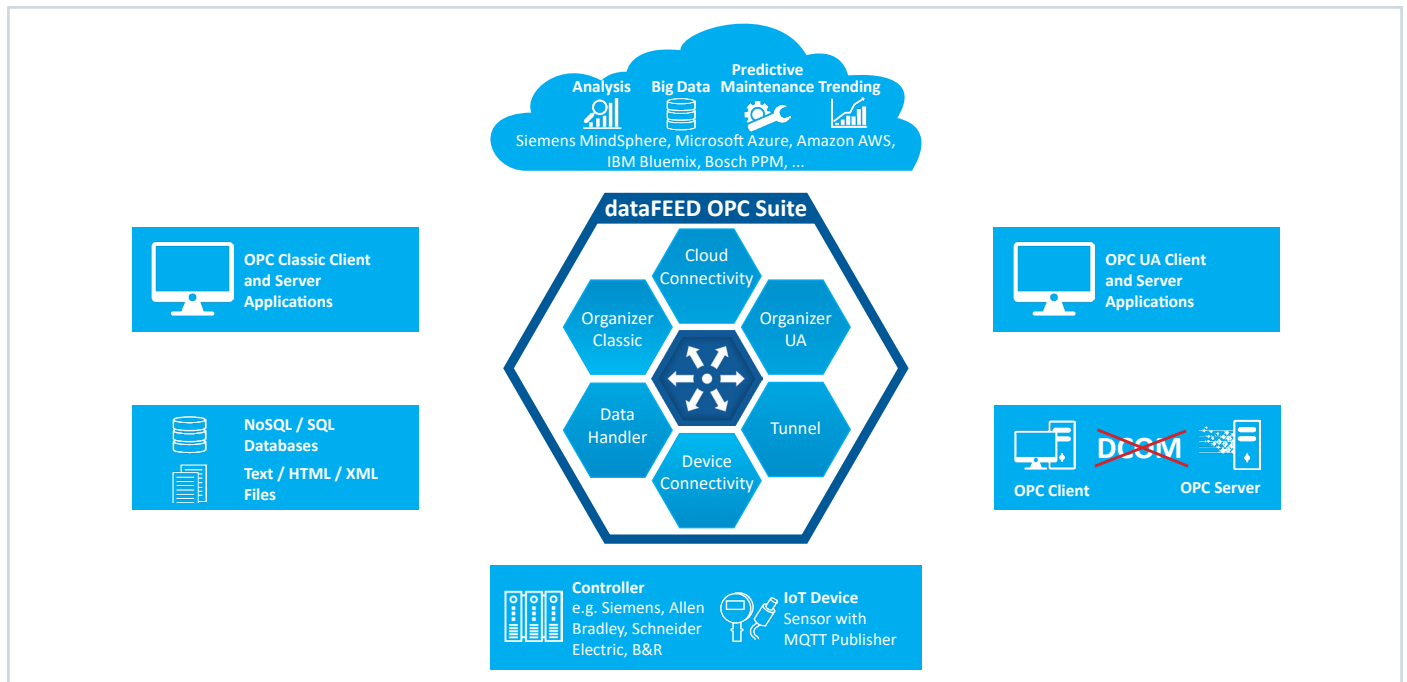
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dataFEED OPC Suite

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

- 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 modifying 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 distributed 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”

dataFEED OPC Suite

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 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	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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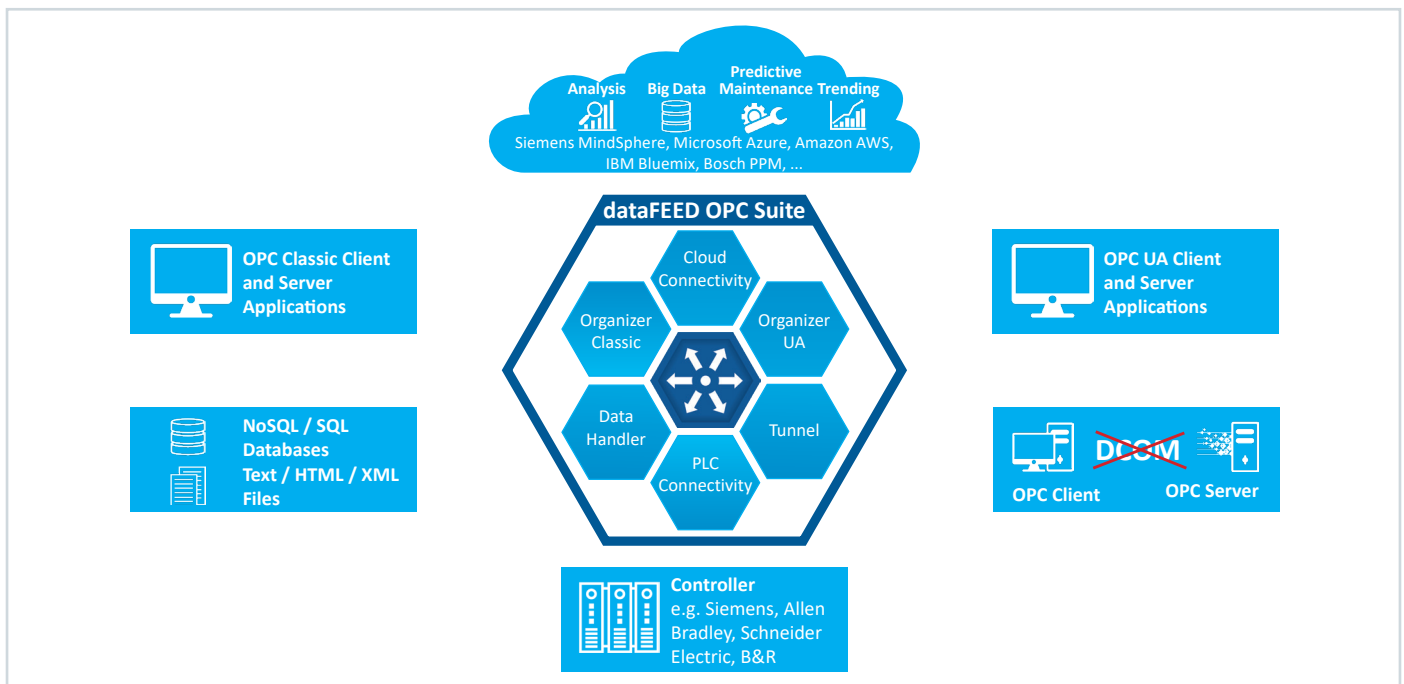
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dataFEED MindSphere Connector

Secure Transmission of Production Data to Siemens MindSphere Cloud

- Gateway for Integration of Production Data in Siemens MindSphere Applications
- Integration of OPC Applications into Modern „Industrie 4.0“* IoT Cloud Solutions
- State-of-the-Art Security Through Support of Certificates



Data Integration in MindSphere Cloud Solutions

- Integration of controllers from leading manufacturers (Siemens, B&R, Rockwell Automation, Schneider Electric, Wago, Mitsubishi)
- Cost savings by using existing OPC Classic components
- Use of modules without cloud interface (e.g. SIMATIC S5 PLCs) in MindSphere cloud applications
- Intermediate storage of data in case of disconnection

Simple and Fast Configuration

- Configuration wizard with practice-oriented presets
- Intuitive graphical user interface with drag & drop support
- Automatic data type conversion between PLC, OPC UA and MindConnect
- No modification to controller program required
- Extensive flexible trigger options

State-of-the-Art Security

- Guarantee of high data security for production applications
- Authentication via certificates
- SSL encryption support

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dataFEED MindSphere Connector

Technical Data

Supported dataFEED Features	MindSphere Connector, OPC UA Server and Client, OPC Classic Server and Client, OPC Tunnel, MQTT Connector, 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)	
Protocols for IoT Cloud Link	MindConnect	Transport protocol: HTTPS Security: SSL including certificates, authentication via Shared Secret or RSA Methods: POST
Extended Functionality	Web Proxy support Store&Forward	
Maximum Number of MindSphere Conenctions	20	
Maximum Number of Items	10.000	
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Unified Architecture V1.02	
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	Logging of OPC Calls and Notifications, OPC Data, MQTT messages, configurable via integrated web server diagnostic interface	
Test 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 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019	
Licensing	Runtime license per computer	
Demo Version	Full dataFEED OPC Suite functionality, time limited to 72 hours	

Scope of Delivery

Software	dataFEED OPC Suite
Dokumentation	Manual, 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 "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"
GAA-DX-145111	uaGate SI
GAA-YE-145133	uaGate MB

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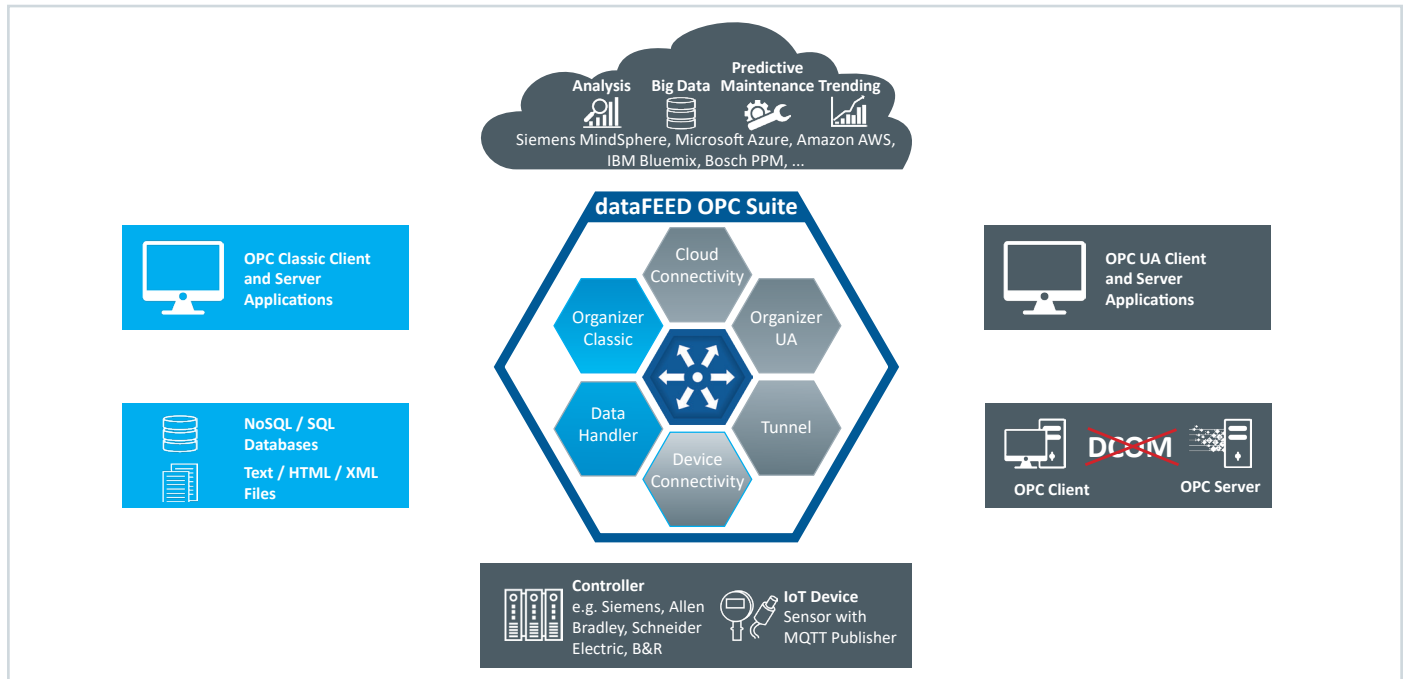
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dataFEED OPC Data Handler

Large Choice of Functionalities for Extended Industrial Data Communication

- Storage of Process Data in NoSQL Big Data Storage Solutions, e.g. MongoDB
- Data Logging in File Supporting Various File Formats
- Recipe Manager Functionality for Writing Back Process Data from SQL Database to Controller



Comprehensive Processing System

- Wizards for fast and easy setup of database connections
- Storage of production data in NoSQL Big Data Storage solutions, e.g. MongoDB and CouchDB
- Buffering of data in case of database connection aborts
- Features for performing required proof and analysis tasks
- Suitability for use in process optimization

Data Exchange With No Additional Components Required

- Easy-to-use application for data exchange between controllers
- Connection of different automation worlds (e.g. between Siemens and Rockwell)
- Access through proprietary protocols
- Cost savings by eliminating need for expensive gateways and complex OPC Clients
- Unification of different communication structures into one OPC Namespace

Flexible Logging in Data Files

- Support of different file formats
- Proof of process data
- Processing and analysis of stored data using standard software
- Verification and documentation of implemented functionality

dataFEED OPC Data Handler

Technical Data

Supported dataFEED OPC Suite Features	Database Access, File Access, Data Exchange (between OPC Servers or between PLCs), Filter, Optimizer, Concentrator, Bridge, local Items (between OPC Clients), optional: OPC UA support
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, optional: OPC Unified Architecture V1.02
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
Maximum Number of Items	10,000
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 Databases	NoSQL databases, e.g. MongoDB, CouchDB ODBC enabled databases, e.g. Oracle, MySQL, Microsoft SQL Server, IBM DB2 other NoSQL- and ODBC-enabled databases upon inquiry
Supported Database Functionality (NoSQL Databases)	Write access TCP, HTTP, HTTPS Methods: PUT, POST Security SSL and user authentication
Supported Database Functionality (SQL Databases)	Read and write access (Select, Insert) Tables, views, functions, Stored Procedures, SQL instructions extensive Trigger options
Supported Text File Formats	ASCII, HTML, XML
Licensing	Runtime license per computer
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, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Data Handler
Documentation	Manual, online help in English and German

Order Numbers

LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher, for extended OPC for data exchange, database access and file access, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a total of up to 50 OPC UA Servers, OPC Servers and dataFEED OPC Tunnel Servers
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher, increases the total number of simultaneous accesses to OPC UA Servers, OPC Servers and dataFEED Tunnel Servers from 50 to 100, requires dataFEED OPC Server Extension License 50
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
GAA-DX-145111	uaGate SI
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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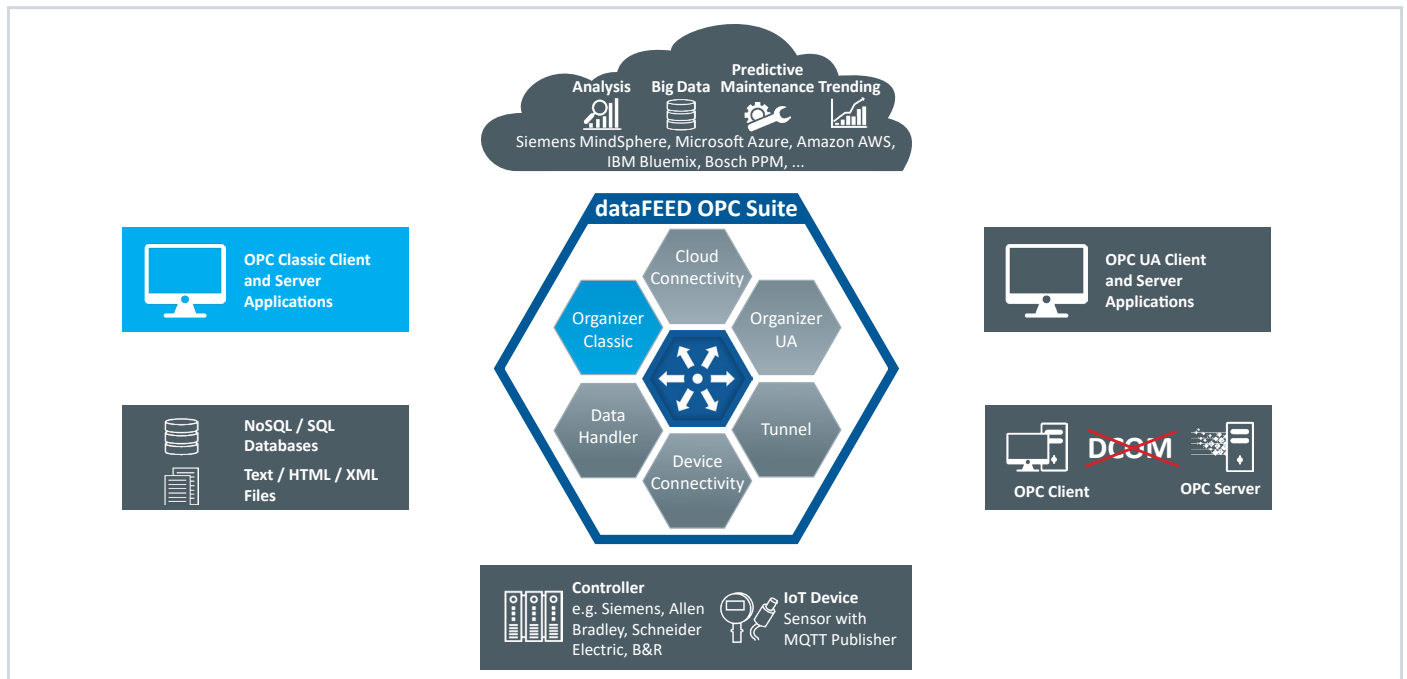
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dataFEED OPC Organizer Classic

Improvement and Extension of OPC Classic Communication

- Gateway Functionality between OPC Clients and Servers with Different OPC Standards (OPC DA V1.2.3 or XML)
- Reduction and Standardization of Data Points of Several OPC Classic Components with Concentrator Functionality
- Combination and Optimization of Multiple Read and Write Accesses



OPC Classic Communication Across Specification Boundaries

- Bridge functionality for use of OPC components of different OPC specification versions
- Cost savings through continued use of existing OPC components
- Possibility to integrate non-Windows computers (e.g. Linux computers) into OPC Classic applications

Easy Access to Multiple OPC Servers

- Concentrator functionality for reduction and unification of data items from multiple OPC Servers
- Time savings through effective and efficient configuration of distributed automation systems comprising a large number of OPC Servers
- Support of common OPC Namespace for all OPC Servers

Optimized Access from Multiple OPC Clients to a Single OPC Server

- Unique and proprietary algorithm for re-combining and optimizing read and write requests from multiple OPC Clients to one OPC Server
- Reduction in computational burden and processor load for OPC communication
- Increased computing power available to other applications without additional hardware

dataFEED OPC Organizer Classic

Technical Data

Supported dataFEED OPC Suite Features	Filter, Optimizer, Concentrator, Bridge
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Alarms & Events V1.10, optional: OPC Unified Architecture V1.02
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Organizer Classic
Documentation	Manual in PDF format and Online Help in English and German

Order Numbers

LRL-DY-134101	dataFEED OPC Organizer Classic component of dataFEED OPC Suite, Version 4.01 and higher, for extended OPC Classic communication functionality for data exchange, database access and file access
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a total of up to 50 OPC UA Servers, OPC Servers and dataFEED OPC Tunnel Servers
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher, increases the total number of simultaneous accesses to OPC UA Servers, OPC Servers and dataFEED Tunnel Servers from 50 to 100, requires dataFEED OPC Server Extension License 50
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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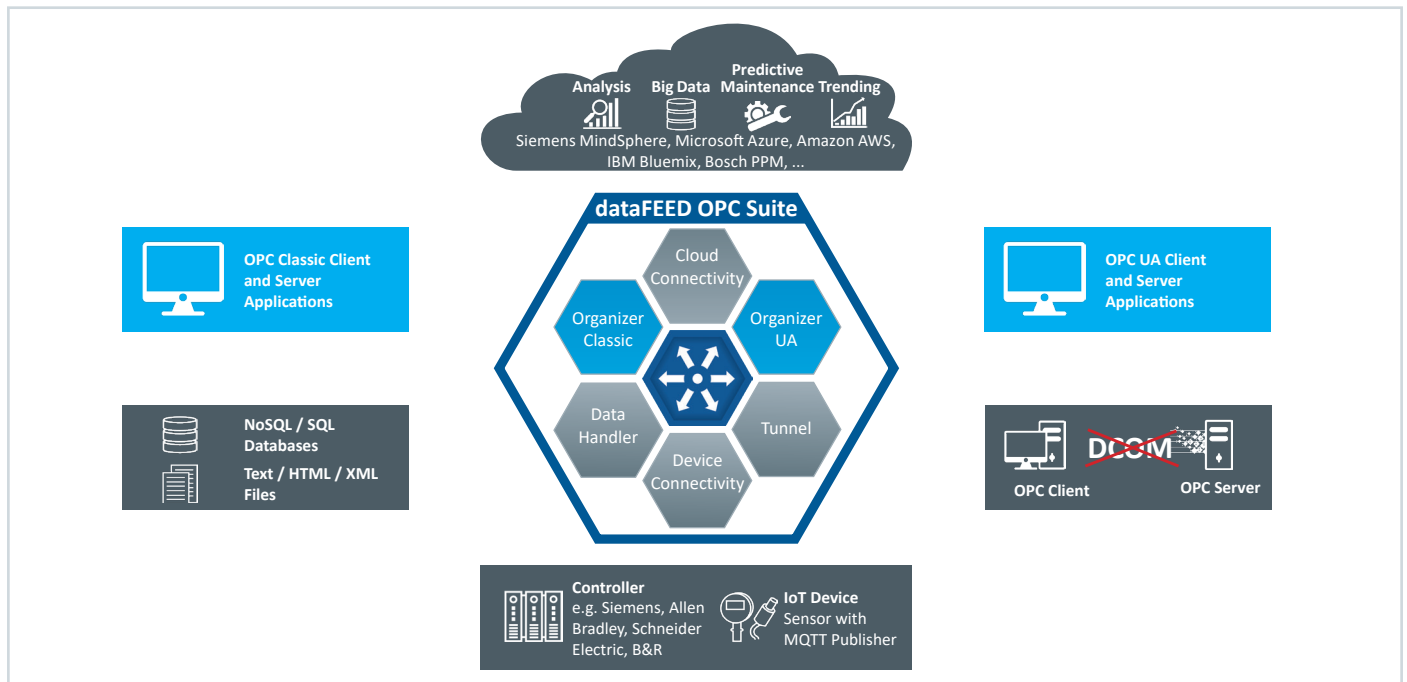
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dataFEED OPC Organizer UA

OPC UA Support Enabling “Industrie 4.0”

- Gateway Functionality Between Clients and Servers of Different OPC Standards
- Cost Savings Through Continued Use of Already Existing OPC Classic Components
- Individual Use of All Security Mechanisms of the OPC UA Standard



OPC Communication Across Specification Boundaries

- Cost savings through integration of non-OPC UA-ready components
- Gateway functionality for connecting controllers and components with integrated OPC UA Server to OPC Classic applications
- Bridge functionality for use of OPC components of different OPC specifications and OPC specification versions
- Access from OPC UA Clients to OPC Classic Servers
- Easy integration of legacy and new controllers into solutions supporting “Industrie 4.0”*
- Cost savings through continued use of existing OPC Classic components

Support of OPC UA Security Mechanisms

- High data security provided to shop floor applications
- Possibility to use all individual security mechanisms defined by the OPC UA standard, e.g. exchange of certificates
- Authentication by user names and passwords including user certificate
- Data encryption using various encryption algorithms

Easy Access to Multiple OPC Servers

- Concentrator functionality for reduction and unification of data items from multiple OPC UA and OPC Classic Servers
- Time savings through effective and efficient configuration of distributed automation systems comprising a large number of OPC UA and OPC Classic Servers
- Support of common OPC Namespace for access by OPC UA Clients

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

dataFEED OPC Organizer UA

Technical Data

Supported dataFEED OPC Suite Features	OPC UA Client and OPC UA Server, Filter, Optimizer, Concentrator, Bridge		
Supported OPC Specifications	OPC Unified Architecture V1.02, OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Alarms & Events V1.10		
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	VVARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, CY, DATE, BSTR, BOOL and arrays (VT_Array) of these data types		
Operation Mode	Application (OutProc Server), Windows Service		
Logging, Diagnostics	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019		
Licensing	Runtime license per computer		
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours		

Scope of Delivery

Software	dataFEED OPC Organizer UA
Documentation	Manual in PDF format and Online Help in English and German

Order Numbers

LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a total of up to 50 OPC UA Servers, OPC Servers and dataFEED OPC Tunnel Servers
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher, increases the total number of simultaneous accesses to OPC UA Servers, OPC Servers and dataFEED Tunnel Servers from 50 to 100, requires dataFEED OPC Server Extension License 50
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
GAA-DX-145111	uaGate SI
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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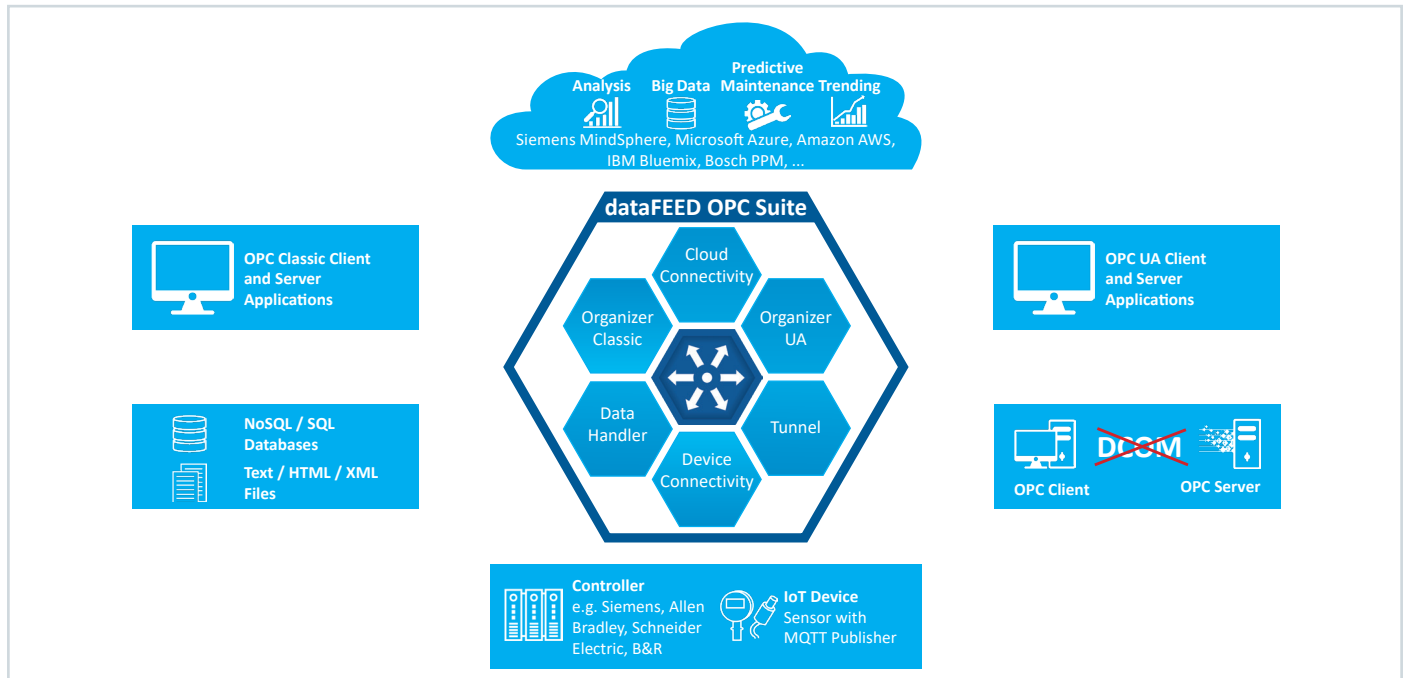
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dataFEED REST Connector

IoT and Industrie 4.0 Cloud Connectivity Using REST Protocols

- Time-saving Configuration by Import of Predefined Communication Themes
- Secure Transfer of Production Data to Big Data Storage Solutions
- Support of Most Common Transfer Formats JSON, XML, HTML and Plain Text



Data Integration for IoT Cloud Solutions

- REST connectivity for controllers, devices and databases
- Support for OPC Classic and OPC UA (optional)
- Connection to IoT cloud solutions, e.g. Bosch Production Performance Manager (PPM)
- Caching data on disconnections

Easy and fast configuration

- Configuration wizard with practice-oriented default settings
- Intuitive graphical user interface with drag-and-drop support
- Automatic data type conversion between OPC Classic / OPC UA and REST

Use of Existing Security Functions

- Support for all REST standard safety mechanisms, e.g. SSL encryption
- Authentication via username and password
- Encrypted data communication

dataFEED REST Connector

Technical Data

Supported dataFEED Features	REST Connector, Organizer Classic, Data Exchange, Filter, Optimizer, Concentrator, Bridge, optional: Organizer OPC UA, PLC Conectivity	
Protocols for IoT Cloud Link	REST Client	Transport protocol: TCP, HTTP, HTTPS Security: SSL including certificates, authentication by user name and password Methods: PUT/POST
Maximum Number of Items	10,000	
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, optional: OPC Unified Architecture V1.02	
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	Logging of OPC Calls and Notifications, OPC Data, REST messages, 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019	
Licensing	Runtime license per computer	
Demo Version	Full dataFEED OPC Suite 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 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 standard Software Key

Additional Products and Services

100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"
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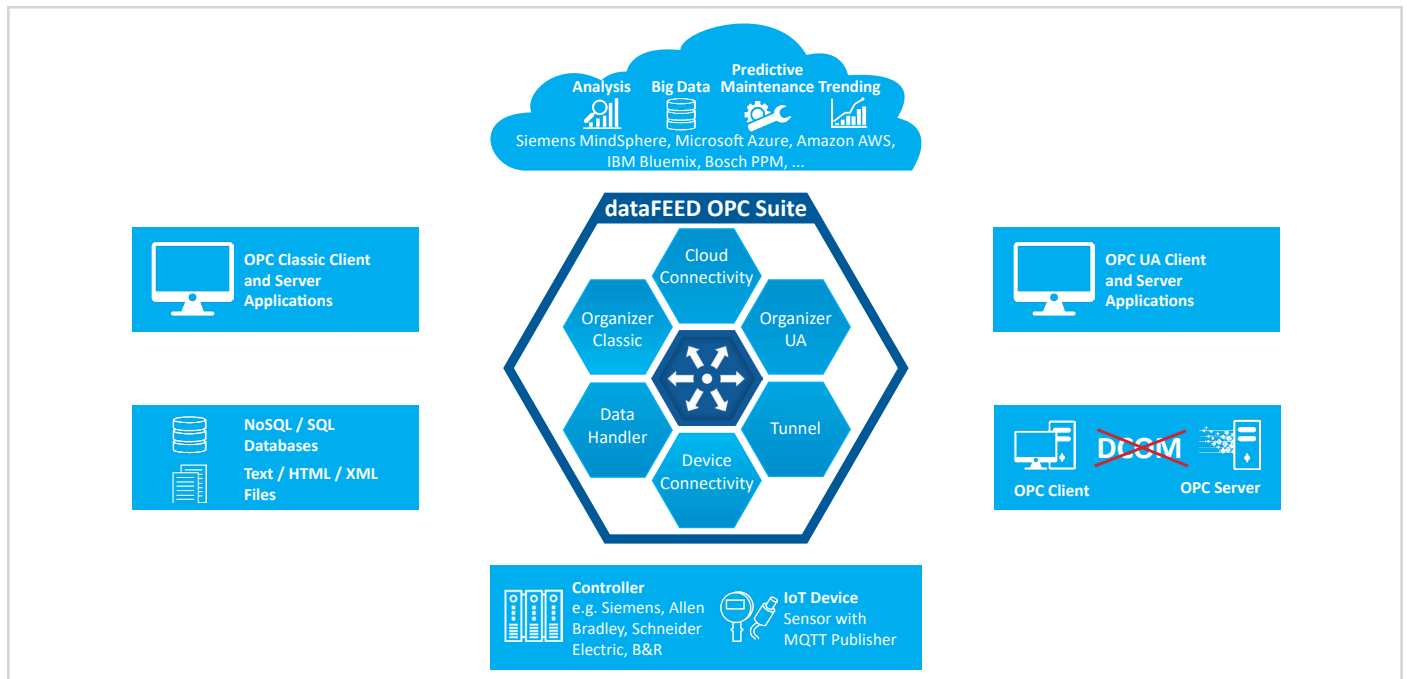
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dataFEED MQTT Connector

Secure Transmission of Production Data in IoT Cloud Applications

- MQTT Gateway for Integration of Production Data into IoT Clouds
- Integration of OPC Applications into Modern „Industrie 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 IBM Bluemix Cloud
- 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

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

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

dataFEED MQTT Connector

Technical Data

Supported dataFEED Features	MQTT Connector, Data Exchange, Filter, Optimizer, Concentrator, Bridge, optional: OPC UA support, controller protocols	
Protocols for IoT Cloud Link	MQTT Publisher	MQTT Publisher V3.1.1, V3.1 QoS, Retain, Last Will and Testament MQTT transport protocol: TCP, TLS, WS and WSS MQTT security: SSL including certificates, authentication by user name and password including certificate
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, optional: OPC Unified Architecture V1.02	
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	Logging of OPC Calls and Notifications, OPC Data, MQTT messages, 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019	
Licensing	Runtime license per computer	
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours	

Scope of Delivery

Software	dataFEED OPC Suite
Documentation	Manual, 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 "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"
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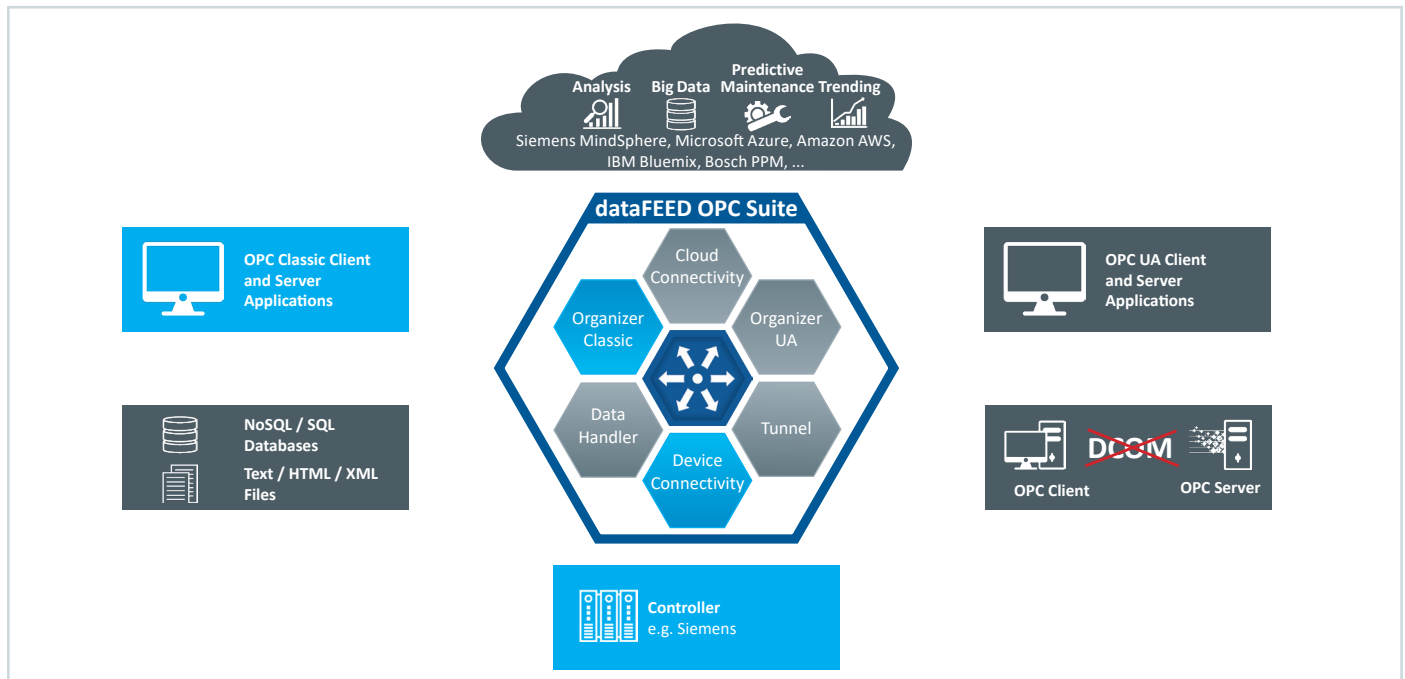
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dataFEED OPC Server Siemens

Easy Data Access Combined With High Performance for Siemens Controllers

- Quick and Convenient Access to Data within Siemens PLCs Including Optimized Data Blocks
- Graphical User Interface With Online Namespace Browsing
- Optional Integration in “Industrie 4.0”*, MindSphere Cloud and Big Data Applications



Convenient Data Integration

- Read and write access to process and diagnostic data of Siemens and Siemens-compatible PLCs
- Support of optimized data blocks in Siemens S7-1200 and S7-1500 controllers
- Quick and easy integration in OPC Client applications
- No changes to control program required

Easy and Fast OPC Server Configuration

- Namespace configuration by browsing of Siemens S7-1200 and S7-1500 namespace
- Easy-to-use graphical configuration interface
- Intelligent wizard for configuration in just 3 steps
- Import of symbolic names from Siemens TIA Portal and STEP 7 projects

Chance for Integration in Overall Applications

- Optional integration of non-OPC UA-ready components like Siemens S5 controllers in OPC UA applications and “Industrie 4.0” solutions
- Optional integration of process data in IoT Cloud applications, e.g. Siemens MindSphere
- Optional evaluation and storage of process data in NoSQL Big Data solutions

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

dataFEED OPC Server Siemens

Technical Data

Supported dataFEED OPC Suite Features	OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA, MQTT, REST support
Supported Controllers	Siemens SIMATIC S7 (S7-200, S7-300, S7-400), Siemens SIMATIC S7-1200, S7-1500 (including optimized blocks), Logo 8, PAC Counter and Siemens-compatible controllers (e.g. VIPA)
Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
Supported Siemens S7 Data Types	BOOL, BIT, BYTE, CHAR, WORD, INT, BCD, DATE, DWORD, DINT, REAL, TIME, TIME_OF_DAY, DATE_AND_TIME and arrays of these data types, STRING, S7STRING
Supported Siemens S5 Data Types	BOOL, BYTE, LEFT BYTE, RIGHT BYTE, CHAR, WORD, S5TIME, DATE, DWORD, TIME, TIME_OF_DAY, DATE_AND_TIME and arrays of these data types, STRING
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Unified Architecture V1.02 (optional)
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Server Siemens
Documentation	Manual on CD-ROM, online help in English and German

Order Numbers

LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Siemens and Siemens-compatible PLCs, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"
GPL-CS-191000	echolink S7-compact

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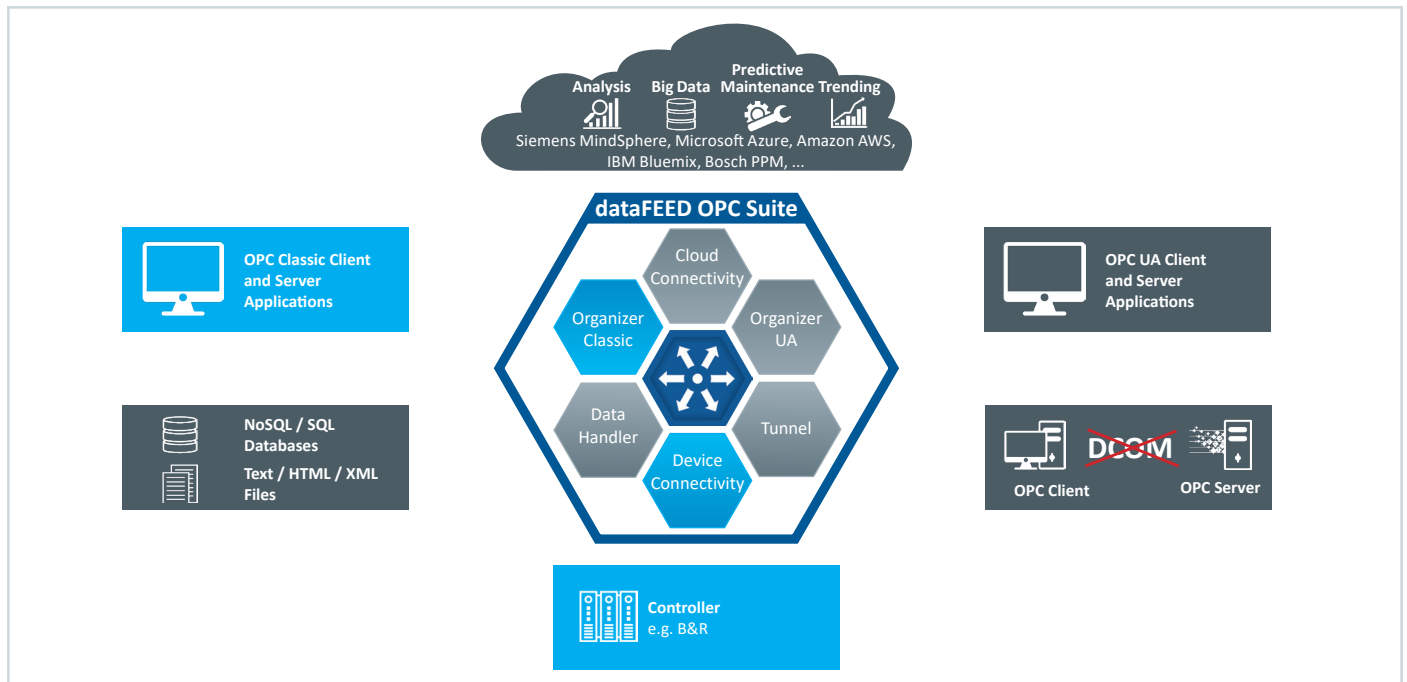
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dataFEED OPC Server B&R

Easy Data Access Combined With High Performance for B&R Controllers

- Access to Process and Diagnostic Data from B&R Controllers
- Automatic Namespace Creation by Browsing the Controller
- Easy Integration into „Industrie 4.0“*, IoT Cloud and Big Data Solutions (optional)



Easy Access to B&R Controllers

- Read and write access to data in B&R controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

Graphical User Interface with Configuration Wizards

- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- Configuration of OPC Namespace by browsing the namespace of B&R controllers
- CSV import of existing configurations from software applications like SCADA or process control systems

Support of OPC UA (Unified Architecture)

- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components like B&R X20CP1483 controllers into OPC UA applications
- Easy integration of legacy and new controllers into „Industrie 4.0“* solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

Gateway to IoT Clouds

- Optional expansion through dataFEED MQTT Connector
- Integration of automation devices in IoT cloud applications using MQTT Publisher functionality, e.g. in Microsoft Azure Cloud
- State-of-the-art security by SSL/TLS support, including certificates

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

dataFEED OPC Server B&R

Technical Data

Supported dataFEED OPC Suite Features	OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA, MQTT, REST support
Supported Controllers	B&R controllers with Ethernet interface
Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
Supported Data Types	BOOL, BYTE, CHAR, WORD, DWORD, INT, DINT, STRING, DATE, REAL, TIME and arrays of these data types
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Unified Architecture V1.02 (optional)
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Server B&R
Documentation	Manual on CD-ROM, online help in English and German

Order Numbers

LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher, for communication with B&R PLCs, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
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LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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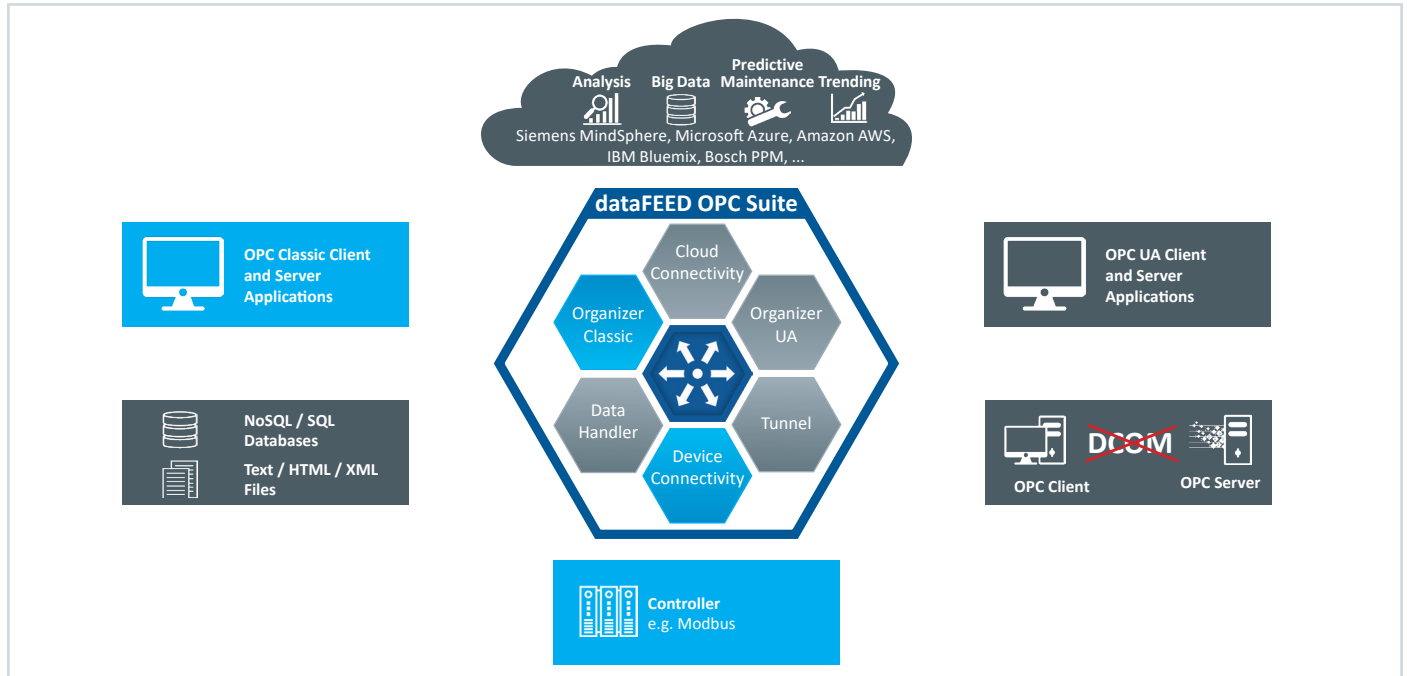
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dataFEED OPC Server Modbus

Easy Data Access Combined With High Performance for Modbus-compatible Controllers

- Access to Process and Diagnostic Data from Modbus Controllers
- Symbol Import from Wago (Codesys) Projects
- Easy Integration into „Industrie 4.0“*, IoT Cloud and Big Data Solutions (optional)



Easy Access to Modbus Controllers

- Read and write access to data in Modbus controllers, e.g. Wago, Phoenix Contact, Schneider Electric, Beckhoff
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

Graphical User Interface with Configuration Wizards

- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- Configuration of OPC Namespace e.g. by importing symbolic names from CoDeSys (Wago) project
- CSV import of existing configurations from software applications like SCADA or process control systems

Support of OPC UA (Unified Architecture)

- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready Modbus components into OPC UA applications
- Easy integration of legacy and new controllers into „Industrie 4.0“* solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

Gateway to IoT Clouds

- Optional expansion through dataFEED MQTT Connector
- Integration of automation devices in IoT cloud applications using MQTT Publisher functionality, e.g. in Microsoft Azure Cloud
- State-of-the-art security by SSL/TLS support, including certificates

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

dataFEED OPC Server Modbus

Technical Data

Supported dataFEED OPC Suite Features	OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA, MQTT, REST support
Supported Controllers	Modbus TCP-compatible controllers (Wago, Beckhoff, Phoenix Contact, Schneider Electric, etc.)
Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
Supported Modbus Data Types	BIT, BYTE, WORD, DWORD, REAL, STRING, DATE, TIME, and arrays of these data types
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Unified Architecture V1.02 (optional)
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Server Modbus
Documentation	Manual on CD-ROM, online help in English and German

Order Numbers

LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Modbus-compatible PLCs, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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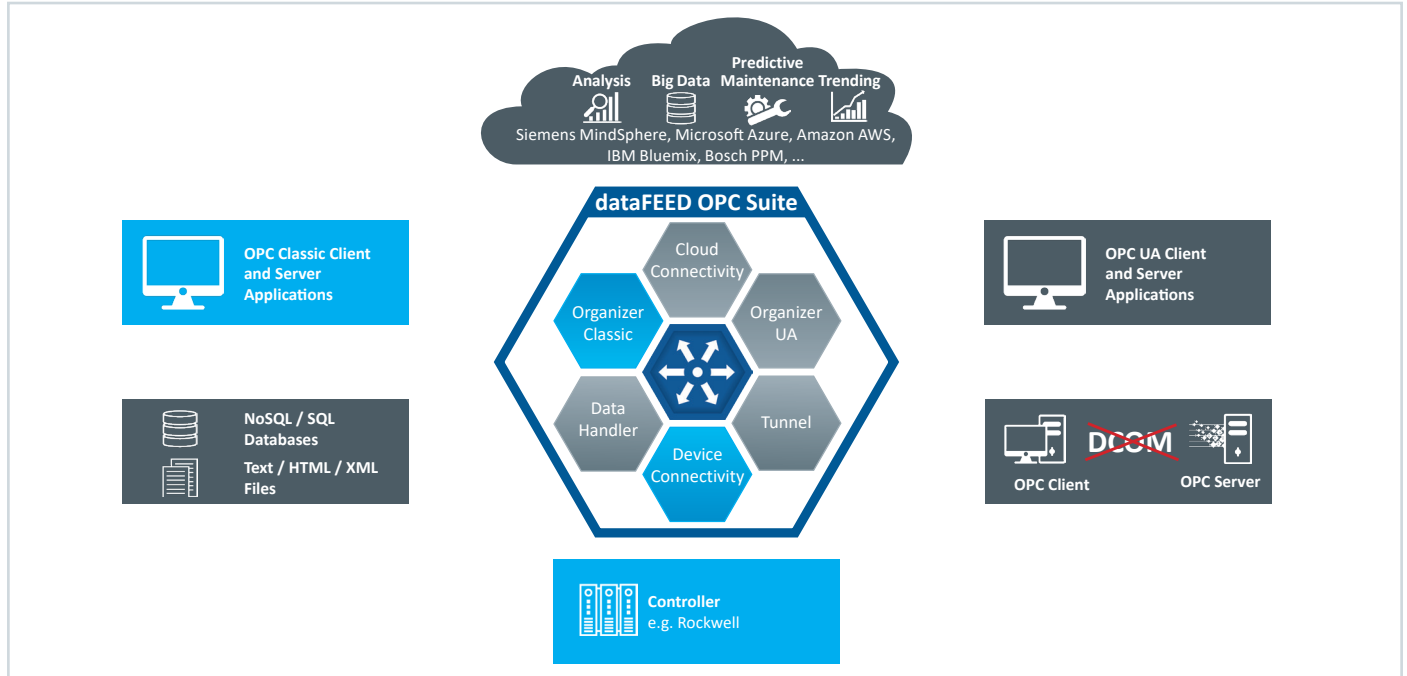
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dataFEED OPC Server Rockwell

Easy Data Access Combined With High Performance for Rockwell Controllers

- Access to Process and Diagnostic Data from Rockwell Controllers
- Automatic Namespace Creation by Browsing the Controller
- Easy Integration into „Industrie 4.0“*, IoT Cloud and Big Data Solutions (optional)



Easy Access to Rockwell Controllers

- Read and write access to data in Rockwell controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

Graphical User Interface Including Namespace Browsing

- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- Configuration of OPC Namespace by browsing the namespace of Rockwell controllers
- CSV import of existing configurations from software applications like SCADA or process control systems

Support of OPC UA (Unified Architecture)

- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components like Rockwell PLC-5 controllers into OPC UA applications
- Easy integration of legacy and new controllers into Industrie 4.0** solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard
- **Gateway to IoT Clouds**
- Optional expansion through dataFEED MQTT Connector
- Integration of automation devices in IoT cloud applications using MQTT Publisher functionality, e.g. in Microsoft Azure Cloud
- State-of-the-art security by SSL/TLS support, including certificates

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

dataFEED OPC Server Rockwell

Technical Data

Supported dataFEED OPC Suite Features	OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA, MQTT, REST support
Supported Controllers	Rockwell SLC-500, PLC-5, ControlLogix and CompactLogix
Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
Supported PLC5/SLC Data Types	BOOL, BYTE, CHAR, WORD, DWORD, REAL, SLC-STRING, DATE, TIME and arrays of these data types
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Unified Architecture V1.02 (optional)
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Server Rockwell
Documentation	Manual on CD-ROM, online help in English and German

Order Numbers

LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Rockwell PLCs, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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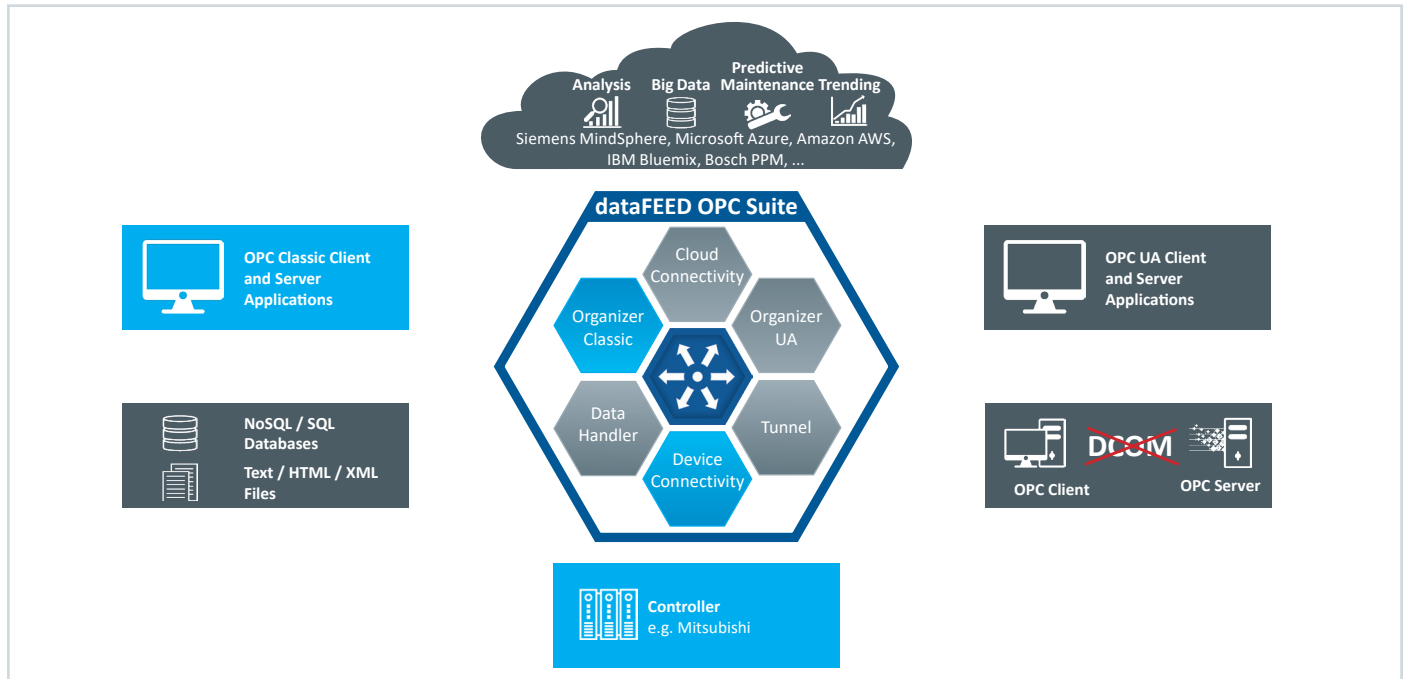
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dataFEED OPC Server Mitsubishi

Easy Data Access Combined With High Performance for Mitsubishi Controllers

- Access to Process and Diagnostic Data from Mitsubishi Controllers
- Easy Integration into “Industrie 4.0”^{*} Solutions via OPC UA (optional)
- Gateway to IoT Cloud or Big Data Solutions (optional)



Easy Access to Mitsubishi Controllers

- Read and write access to data in Mitsubishi Melsec-Q Series controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

Graphical User Interface with Configuration Wizards

- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- CSV import of existing configurations from software applications like SCADA or process control systems

Support of OPC UA (Unified Architecture)

- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components like Mitsubishi Melsec-Q Series controllers into OPC UA applications
- Easy integration of legacy and new controllers into “Industrie 4.0”^{*} solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

Gateway to IoT Clouds

- Optional expansion through dataFEED MQTT Connector
- Integration of automation devices in IoT cloud applications using MQTT Publisher functionality, e.g. in Microsoft Azure Cloud
- State-of-the-art security by SSL/TLS support, including certificates

^{*} “Industrie 4.0” is a German government-driven initiative for implementing an industrial “Internet of Things”

dataFEED OPC Server Mitsubishi

Technical Data

Supported dataFEED OPC Suite Features	OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA, MQTT, REST support
Supported Controllers	Mitsubishi Melsec-Q Series with Ethernet interface card
Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
Supported Melsec-Q Data Types	BOOL, BIT, BYTE, CHAR, WORD, DWORD, INT, DINT, REAL, STRING, DATE, TIME, and arrays of these data types
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Unified Architecture V1.02 (optional)
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Server Mitsubishi
Documentation	Manual on CD-ROM, online help in English and German

Order Numbers

LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Mitsubishi PLCs, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, suitable for access by any number of OPC UA Clients and for access to 1 OPC UA Server, includes dataFEED OPC Organizer Classic functionality
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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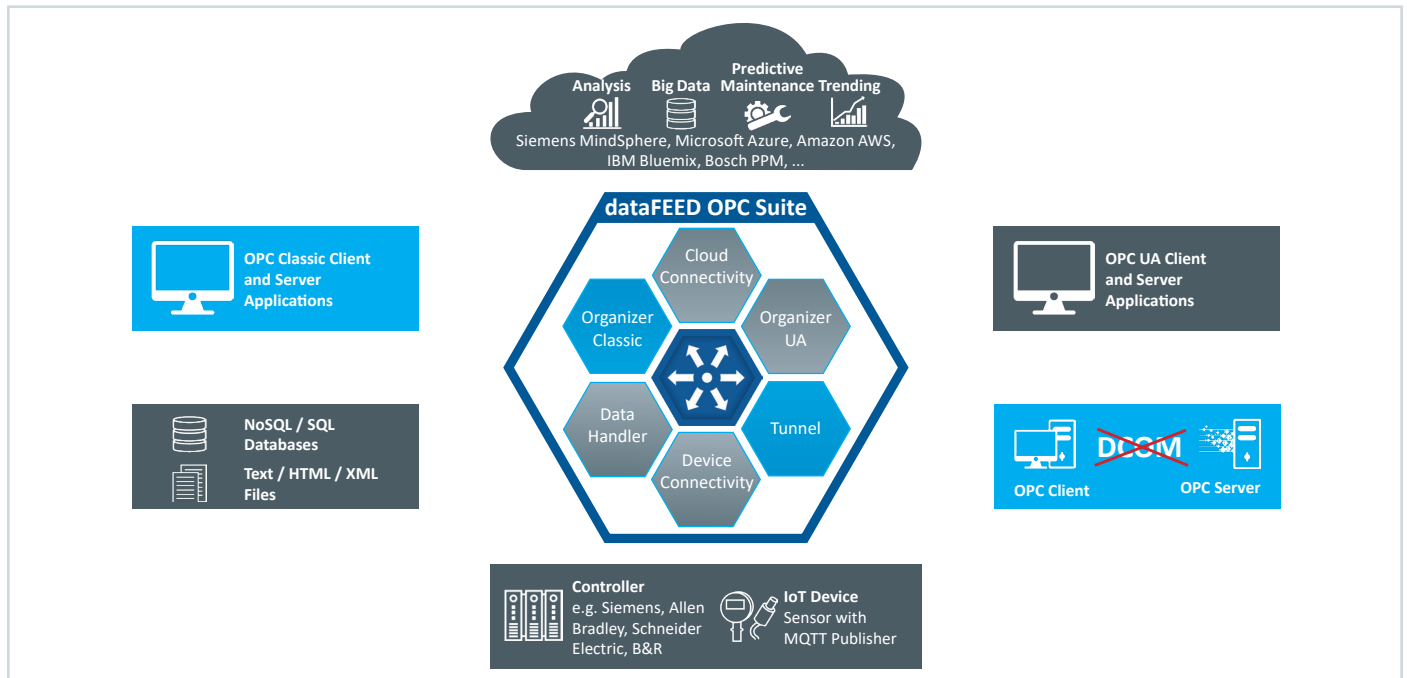
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dataFEED OPC Tunnel

OPC Tunnel Functionality Supporting Simple and Secure OPC Classic Communication

- Inter-Network OPC Classic Communication without DCOM
- Secure Communication with Minimal Configuration Requirements
- Improved Communication Behavior when Connection is Interrupted



No Need for DCOM Configuration

- Easy industrial communication by avoiding DCOM and its complex security settings on the OPC Server and OPC Client side
- Time-saving configuration of OPC Classic communication across networks

Compliance with Computer and Network Security Policies

- Secure communication across firewalls
- Minimum requirements on configuration of PCs used in network
- Compliance with corporate security policies for firewalls

Data Buffering on Detection of Broken Connection

- Protection against data loss by automatic local data buffering on detection of broken connection to OPC Client
- Second-by-second monitoring of OPC Classic communication
- Automatic re-establishment of OPC connection and transmission of locally buffered OPC data
- Improved OPC communication behavior

dataFEED OPC Tunnel

Technical Data

Supported dataFEED OPC Suite Features	OPC Tunnel, Filter, Optimizer, Concentrator, Bridge
Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Alarms & Events V1.10, optional: OPC Unified Architecture V1.02
OPC Roles	OPC Client (on OPC Server side), OPC Server (on OPC Client side)
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	Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), 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 10 IoT Enterprise, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Licensing	Runtime license per computer
Demo Version	Full dataFEED OPC Suite, time limited to 72 hours

Scope of Delivery

Software	dataFEED OPC Tunnel
Documentation	Manual in PDF format and Online Help in English and German

Order Numbers

LRL-DY-134001	dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher, for access of any number of OPC Tunnel Clients and to 1 OPC Tunnel Server, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134401	dataFEED OPC Server Extension License 50 for dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a total of up to 50 OPC UA Servers, OPC Servers and dataFEED OPC Tunnel Servers
LRL-DY-134601	dataFEED OPC Server Extension License 100 for dataFEED OPC Suite, Version V4.01 and higher, increases the total number of simultaneous accesses to OPC UA Servers, OPC Servers and dataFEED Tunnel Servers from 50 to 100, requires dataFEED OPC Server Extension License 50
HUA-DD-130001	USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501	dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134201	dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101	dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301	dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401	dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601	dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901	dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301	dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
100-1030-01	Training "Industrial Communication for Industrie 4.0 - OPC UA, MQTT, REST"

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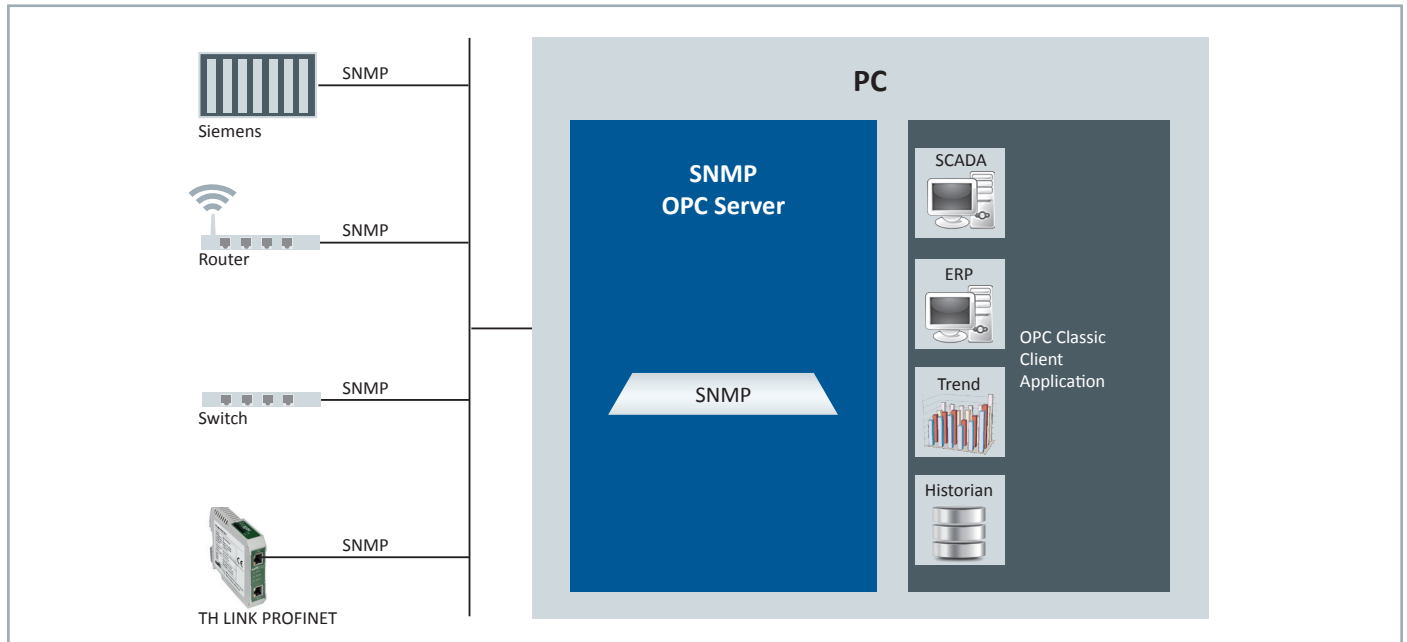
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SNMP OPC-Server

OPC Server with SNMP Protocol Support, Including SNMP Browse and MIB Import

The Softing SNMP OPC Server offers uniform access to controllers and network devices supporting SNMP. This high-performance OPC Server is easy to configure and offers a wide variety of diagnostic capabilities.



Everything at a Glance

- Functionality based on customer requirements
- Reliable communication with control system
- Option to add additional protocols

Application Area

- Heterogeneous networks with controllers and devices from a wide variety of different manufacturers
- Increased investment protection for integration of existing systems

Features

- SNMP access to devices of different vendors via MIB Import and SNMP Browse
- High-performance protocol for transmission of large amounts of data via OPC
- No limit to number of connected controllers and network devices as well as variables
- High degree of reliability for all OPC Clients with OPC interface V1.x and V2.05
- Easy to commission via symbolic addressing (Alias Browsing)
- Increased availability due to continuous line monitoring and extensive communication diagnostics

Technical Data

Supported Controllers	Controllers and network devices supporting SNMP
Supported Protocols	See table, supports SNMP V1 (complete), V2 (without security)
Supported Operating Systems	Windows XP, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Demo Version	Full SNMP OPC Server functionality, time-limited to 72 hours

		TCP/IP-H1 OPC Server	SNMP OPC Server
Transport Protocols	TCP/IP	✓	✓
	RFC1006 (ISO on TCP)	✓	
	Sinec H1 (ISO on TCP)	✓	
Application Protocols	S7 Protocol	✓	
	S5-AP	✓	
	CLX ContolLogix	✓	
	CLX CompactLogix	✓	
	CLX Performance Optimization	✓	
	SLC500 Protocol	✓	
	PLC-5 Protocol	✓	
	Melsec-Q	✓	
	Modbus TCP	✓	
	Send/Receive	✓	✓
	NETLink	✓	
	SNMP	✓	✓

Scope of Delivery

Software	SNMP OPC Server on CD-ROM
Documentation	Online Help in English and German

Order Numbers

LRL-DY-131801	SNMP OPC Server, single license
UAC-DD-0100	USB hardware for replacing the software key required for activating a Softing product

Additional Products and Services

LRL-DY-131001	TCP/IP-H1 OPC Server, single license
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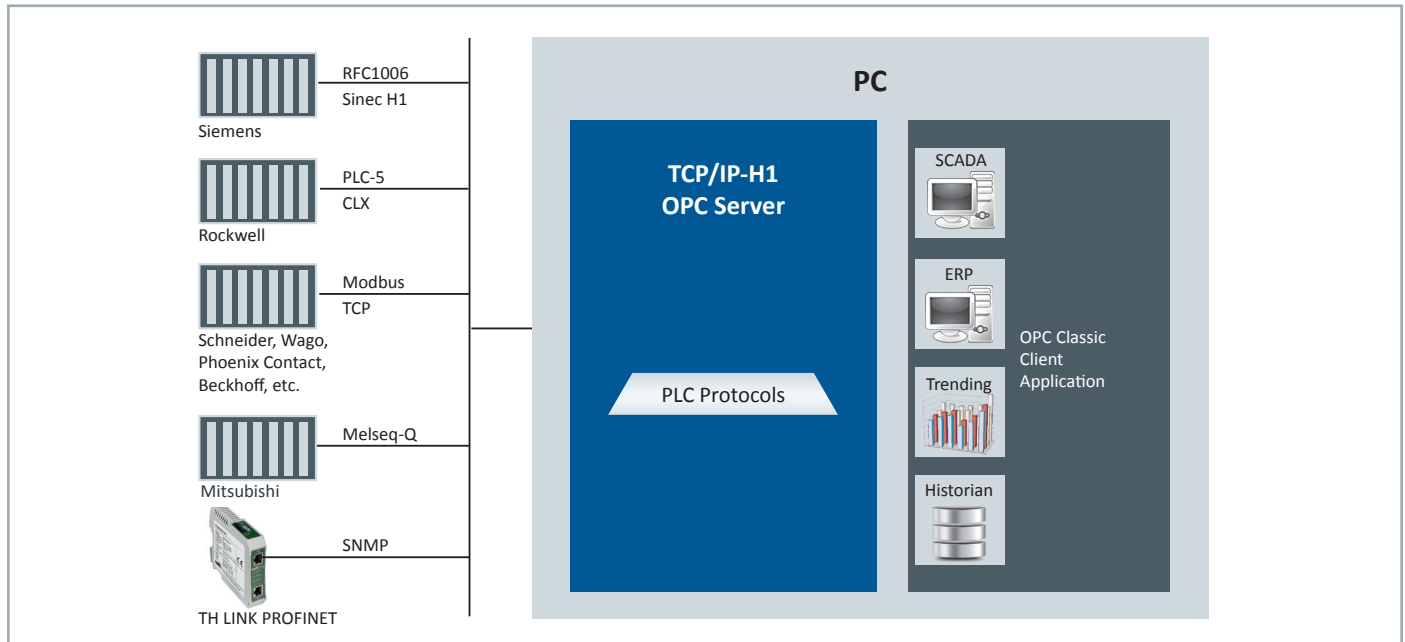
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Your local Softing Contact

TCP/IP-H1 OPC Server

All-in-one OPC Server With Maximum Protocol Scope Via TCP/IP and H1
(Included in Former INAT Multi-Protocol OPC Server)

The TCP/IP-H1 OPC Server offers uniform access to the leading controllers of the companies Siemens, Rockwell Automation, Schneider Electric or Mitsubishi. This high-performance OPC Server is easy to configure and offers a wide variety of diagnostic capabilities.



Everything at a Glance

- Functionality based on customer requirements
- Ethernet protocol dependent on controllers and field devices
- Reliable communication with control system

Application Area

- Heterogeneous networks with controllers and devices from a wide variety of different manufacturers
- Support of standard TCP/IP, Sinec H1, various serial protocols
- Increased investment protection for integration of existing systems

Features

- High-performance protocol for transmission of large amounts of data via OPC
- No limit to number of connected controllers and variables
- High degree of reliability for all OPC Clients with OPC interface V1.x and V2.05
- Easy to commission via symbolic addressing (Alias Browsing)
- Easy symbol import directly from STEP 7 project
- Increased availability due to continuous line monitoring and extensive communication diagnostics
- SNMP access to devices of different vendors via MIB Import and SNMP Browse

Technical Data

Supported Controllers	Softing and Siemens CPs, Allen Bradley CLX, SLC and PLC 5 controllers, Mitsubishi Melsec-Q controllers, various Modbus TCP interfaces, SNMP devices
Supported Protocols	See table
Supported Operating Systems	Windows XP, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Demo Version	Full TCP/IP-H1 OPC Server functionality, time-limited to 72 hours

		TCP/IP-H1 OPC Server	SNMP OPC Server
Transport Protocols	TCP/IP	✓	✓
	RFC1006 (ISO on TCP)	✓	
	Sinec H1 (ISO on TCP)	✓	
Application Protocols	S7 Protocol	✓	
	S5-AP	✓	
	CLX ContolLogix	✓	
	CLX CompactLogix	✓	
	CLX Performance Optimization	✓	
	SLC500 Protocol	✓	
	PLC-5 Protocol	✓	
	Melsec-Q	✓	
	Modbus TCP	✓	
	Send/Receive	✓	✓
	NETLink	✓	
	SNMP	✓	✓

Scope of Delivery

Software	TCP/IP-H1 OPC Server on CD-ROM
Documentation	Online Help in English and German

Order Numbers

LRL-DY-131001	TCP/IP-H1 OPC Server, single license
UAC-DD-0100	USB hardware for replacing the software key required for activating a Softing product

Additional Products and Services

GPL-CS-191000	echolink S7-compact
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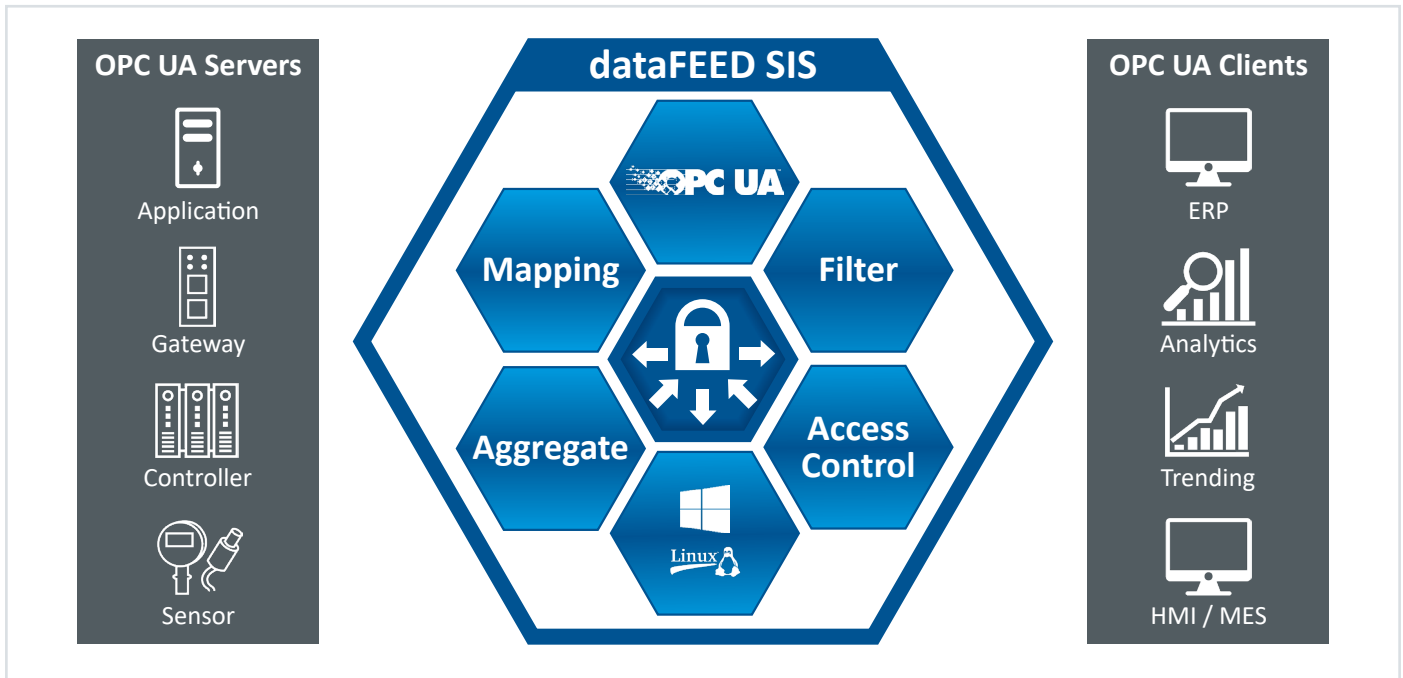
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Your local Softing Contact

Secure Integration Server

Secure and Flexible OPC UA-based IT / OT Integration Solution

- **Maximum Security Through Vertical IT/OT Integration on Standard Basis**
- **Data Aggregation and Interface Abstraction for Efficient and Flexible IoT Solutions**
- **Fully Integrated with Edge Architectures as well as with Cloud Applications**



Secure Communication

- Support of all safety functions of OPC UA standard
- Provide different data for different users and applications
- Support for multiple OPC UA Endpoints (client or server), each with its own certificates
- Filtered access, depending on IP address (White List / Black List for OPC UA Endpoints)
- Detection of DoS (Denial of Service) attacks on OPC UA authentication

Data Aggregation

- Aggregation of data from multiple sources in a server (aggregation of OPC UA Namespace)
- Application access to aggregation servers, not too many individual data sources
- Extensive and flexible OPC UA Service-based address space filtering, down to OPC UA Item level
- Reduced configuration effort (Configuration not required individually for each OPC UA data source and each OPC UA Client)

Interface Abstraction

- Common, stable OT interface for different IT applications
- Adaptations in automation network transparent for IT applications
- Support for standardized address spaces (companion specifications)
- Decoupling of investment decisions in IT and OT environment

Solutions for Edge Architectures

- Edge solution with features and benefits identical to those resulting from using central cloud platforms
- Running local clients (e.g. for edge analytics) in parallel with cloud-based applications
- Start with small IoT solution on cloud basis, later adaptation and expansion over time possible

Secure Integration Server

Technical Data

Key Functionality	OPC UA Aggregation Server OPC UA Namespace aggregation, 50 virtual namespaces maximum OPC UA Server with up to 25 OPC UA Server endpoints, 50 users per endpoint, separate application certificate per endpoint OPC UA Client with up to 100 connections to OPC UA Servers, separate application certificate per OPC UA connection OPC UA address space mapping (support of Companion Specifications) Up to 500,000 data changes per second
Supported OPC Specifications	OPC Unified Architecture V1.03
OPC Roles	OPC UA Client (all profiles from nano to standard), OPC UA Server
OPC UA Profiles	Data Access, Complex Data, Methods (including file transfer)
OPC UA Transport	TCP Transport, UA Binary Encoding, UA Secure Conversation; HTTPS Transport, UA Binary Encoding
OPC UA Security	Security methods Aes256Sha256-RsaPss, Aes128SHA256-RsaOaep, Basic256Sha256, Basic256, Basic128Rsa15, None Authentication Anonymous, username and password, certificate
OPC UA Firewall	OPC UA Service-based address space filtering, down to OPC UA Item level Limitation of OPC UA Client connections Restriction of OPC UA services IP access filter (White List/Black List) Detection of denial of service (DoS) attacks on OPC UA authentication
OPC Certification	Test based on compliance test tools of OPC Foundation
Operation Mode	Windows service
Logging, Diagnostics	E-Mail Alert; Detailed system and test logging Test tools: OPC UA .NET Demo Server, OPC UA Demo Client
Supported Operating Systems	64 Bit operating systems only; Windows 7, Windows 8.1, Windows 10, Windows 10 IoT, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019; Linux on demand
Licensing	Runtime license per computer

Scope of Delivery

Software	License key for dataFEED Secure Integration Server , link for software download
Documentation	Online help in English

Order Numbers

Single Seat License

LRL-DY-140001	dataFEED Secure Integration Server , single seat license for up to 10 OPC UA connections, including maintenance and support contract for 1 year
LMA-DY-140001	dataFEED Secure Integration Server maintenance and support contract for 1 year, for up to 10 OPC UA connections
LRL-DY-140004	dataFEED Secure Integration Server , single seat license for up to 100 OPC UA connections, including maintenance and support contract for 1 year
LMA-DY-140004	dataFEED Secure Integration Server maintenance and support contract for 1 year, for up to 100 OPC UA connections
LRL-DY-140010	dataFEED Secure Integration Server , single seat license for 5 Loadable Address Spaces (Companion Specifications)
Use License	
LRL-DY-141001	dataFEED Secure Integration Server , use license for up to 10 OPC UA connections, including maintenance and support contract for 1 year
LRL-DY-141004	dataFEED Secure Integration Server , use license for up to 100 OPC UA connections, including maintenance and support contract for 1 year
LRL-DY-141010	dataFEED Secure Integration Server , use license for 5 Loadable OPC UA Address Spaces (Companion Specifications) including maintenance and support contract for 1 year

Additional Products and Services

LRL-DY-135001	dataFEED OPC Suite Extended , secure and reliable All-in-One solution for OPC communication and IoT cloud connectivity
GAA-DX-145111	uaGate SI , gateway for OPC UA and MQTT communication upgrade of Siemens retrofit plants
GAA-YE-145133	uaGate MB , gateway for OPC UA and MQTT communication access to Modbus TCP PLCs
GAA-YX-145144	uaGate 840D , OPC UA server gateway for Siemens SINUMERIK 840D sl/pl controllers
TSA-DY-140001	Industrial Communication for Industrie 4.0 , two-day training with a detailed introduction to Industrie 4.0 applications in practice

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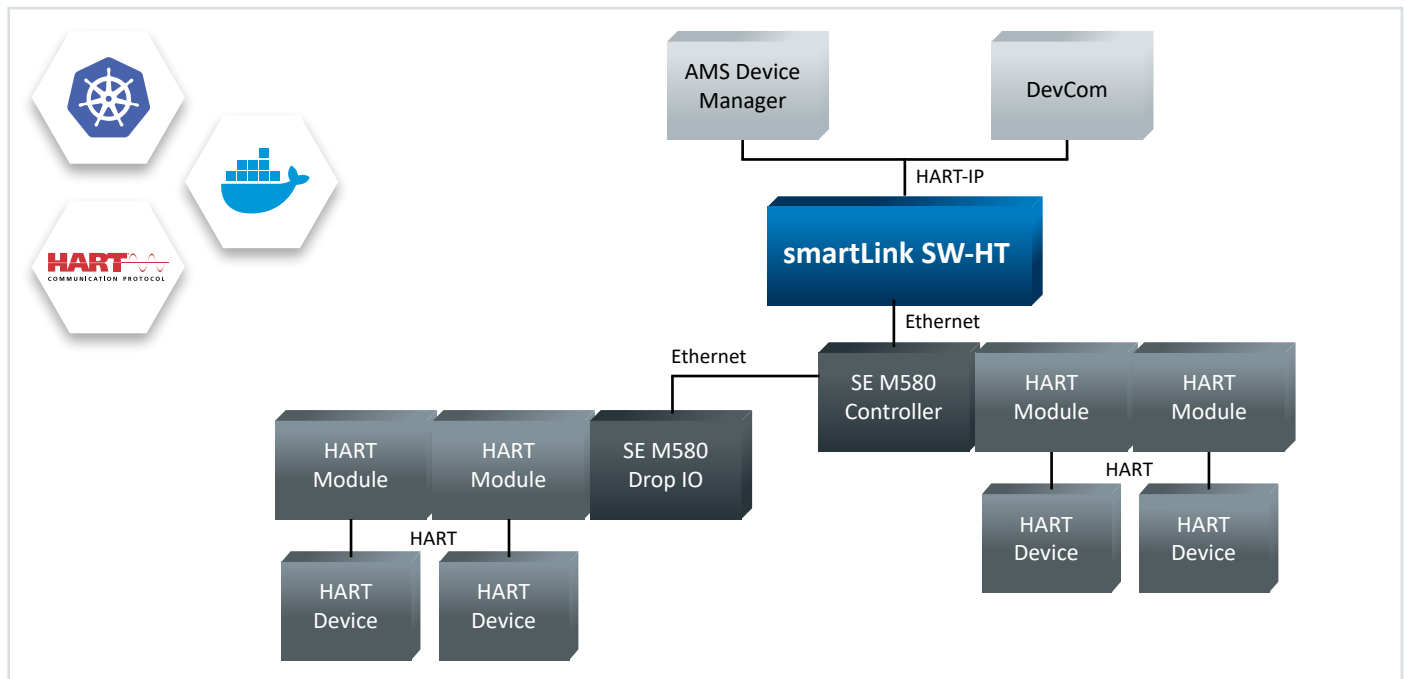
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smartLink SW-HT

Software HART Multiplexer

- Simple und fast access to HART field devices connected to Schneider Electric M580 HART IO modules
- Transparent HART communication over the open HART-IP protocol
- Enables remote asset management, device configuration and monitoring
- No additional hardware needed



Access HART devices without additional Hardware

- Use the existing infrastructure to access the HART devices
- No additional cost for HART multiplexer hardware
- No installation and maintenance of additional Hardware

Highly scalable business model

- Pay only for the HART devices connected with smartLink SW-HT
- Scalable license model based on the number of HART devices to access
- Try it with 1 HART device for free

Transparent HART communication

- The HART commands sent to the HART-IP server are forwarded to the HART devices
- No limitation on the supported HART commands
- Uses the open HART-IP protocol

Easy deployment

- Easy to use on a Windows workstation with the VM deliverable
- Supports Kubernetes, the standard Docker orchestrator, for easy deployment by IT
- Supports Azure IoT Edge for easy deployment to the edge
- Web based configuration software is included in the container

smartLink SW-HT

Technical Data

Supported Controller and Remote IOs	Schneider Electric: M580 controller or X80 EIO Drop adapter (BMECRA31210)
Supported HART IO Modules	Schneider Electric: M580 HART modules BMEAHI0812 (8 HART Input) and BMEAHO0412 (4 HART Output)
Communication Protocols	HART-IP
Tested with	Emerson AMS Device Manager V14.1.1 (HART-IP) Kubernetes, K3s, Minikube, Docker Desktop Windows (Docker runtime environments), Microsoft Azure IoT Edge
Minimum Hardware Requirements	Docker Container: 200 MB free disk space, 500 MB RAM Virtual Machine: VMware 1 GB free disk space, 1 GB RAM Hyper-V 2 GB free disk space, 1 GB RAM
Licensing	Node locked license for Docker container running in a Kubernetes StatefulSet or on a Microsoft Azure IoT Edge device

Scope of Delivery

Software	smartLink SW-HT as Virtual machine or Docker container – additionally available via Docker Hub
Documentation	User Guide

Order Number

For free	smartLink SW-HT , Software HART multiplexer. Try it with 1 HART device
LRA-MM-027002	smartPlus HT , License for access to one HART device

Additional Products and Services

LRA-MM-020670	DevComDroid HART – Android application for HART device communication
LRA-MM-020671	DevCom2000 HART – Windows application for HART device communication
DBA-KM-020410	mobiLink – Mobile HART interface

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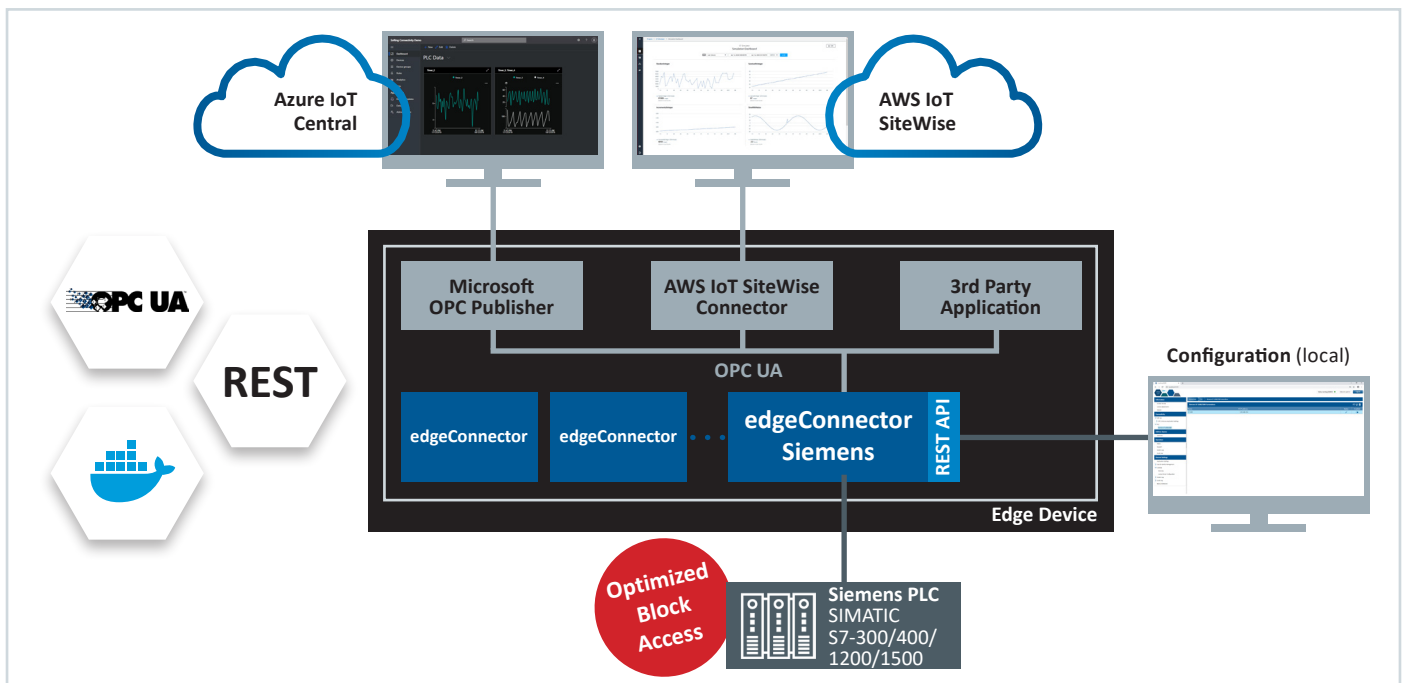
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edgeConnector Siemens

Software for Connecting SIMATIC S7 PLCs with IoT Applications

- Easy Access to Data from SIMATIC S7-300/400/1200/1500 Controllers Via OPC UA
- Docker Container Deployment, e.g. on Azure IoT Edge or on AWS IoT Greengrass
- Local Configuration Via Web Interface or Remote Configuration Via REST API



Access to Siemens PLC Data from OPC UA Applications

- Access to SIMATIC S7-300/400/1200/1500 data
- Support of optimized data blocks in SIMATIC S7-1200/1500 controllers
- Namespace configuration by importing SIMATIC STEP7 or TIA Portal project files or by direct browsing the variables in S7-1200/1500 controllers
- Standardized OPC UA communication for data integration into management systems like ERP, MES or SCADA or for data exchange with other docker containers like Microsoft OPC Publisher or Amazon AWS IoT SiteWise
- Connection of up to 20 Siemens PLCs with one Container Runtime
- Dedicated for retrofit upgrades of existing Siemens controllers

Easy Cloud-driven or Local Deployment

- Container images stored in different online repositories like Docker Hub, Azure Container Registry (ACR) or Amazon Elastic Container Registry (ECR)
- Licensing via Softing Floating Licence Server (Windows Application)

Lightweight Flexible Container Solution

- Less resources plus increased scalability and flexibility
- Support of security standards as SSL/TLS, X.509 certificates, authentication and data encryption
- Highly flexible application to be deployed, adjusted or started and stopped immediately, if needed

dataFEED edgeConnector Siemens

Technical Data

Supported Controllers	Siemens SIMATIC S7-300/400/1200/1500 (including optimized block access)	
Supported Protocols	SIMATIC S7, RFC1006, OPC UA	
Supported OPC Specifications	OPC Unified Architecture V1.03	
OPC UA Roles	OPC UA Server	
OPC UA Profiles	Data Access	
OPC UA Security	Security methods	Aes256Sha256-RsaPss Aes128SHA256-RsaOaep Basic256Sha256 Basic256 Basic128Rsa15 None
	Authentication	Anonymous Username and password Certificate
OPC Certification	Test based on compliance test tools of OPC Foundation	
Logging, Diagnostics	Built-in trace and audit logging facilities, configurable and accessible through the web interface Docker integrated trace logging	
Supported Operating Systems	Linux (Docker Engine), Windows 10 (Docker Desktop Linux)	
Supported Architectures	amd64	
Minimum Hardware Requirements	250 MB free disk space, 2 GB RAM	
Licensing	Licensed via Softing Floating License Server	

Scope of Delivery

Software	dataFEED edgeConnector Siemens, download via Docker Hub or Azure Marketplace
License Key	E-mail delivery after purchase including download link
Documentation	Online: www.github.com/SoftingIndustrial/datafeed-edge-connector

Order Numbers

LAA-XX-141005	dataFEED edgeConnector Siemens, 5 PLC connections (1 year)
LAA-XX-141020	dataFEED edgeConnector Siemens, 20 PLC connections (1 year)

Additional Products and Services

LRL-DY-140004	dataFEED Secure Integration Server, single seat license for up to 100 OPC UA connections, including maintenance and support contract for 1 year
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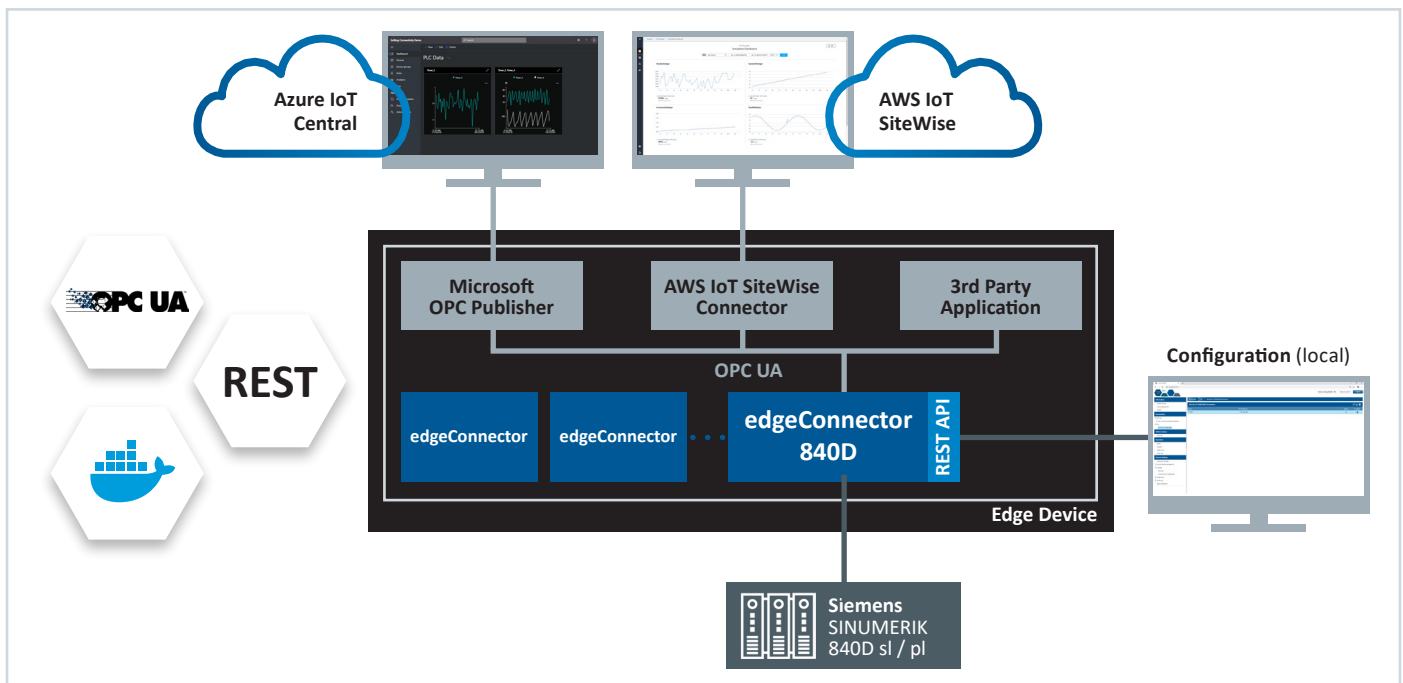
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edgeConnector 840D

Software for Connecting SINUMERIK 840D Controllers with IoT Applications

- Data Access from SINUMERIK 840D Solution Line and Power Line Tooling Machines
- Docker Container Deployment, e.g. on Azure IoT Edge or on AWS IoT Greengrass
- Local Configuration Via Web Interface or Remote Configuration Via REST API



Accessing Tooling Machine Data from OPC UA Applications

- Provision of SINUMERIK 840D Solution Line and Power Line data
- Pre-defined namespace, customizable for special machine data sets
- Standardized OPC UA communication for data integration into management systems like ERP, MES or SCADA or for data exchange with other docker containers like Microsoft OPC Publisher or Amazon AWS IoT SiteWise
- Connection of up to 5 SINUMERIK 840D controllers with one Container Runtime
- Dedicated for retrofit upgrades of existing SINUMERIK controllers

Easy Cloud-driven or Local Deployment

- Container images stored in different online repositories like Docker Hub, Azure Container Registry (ACR) or Amazon Elastic Container Registry (ECR)
- Licensing via Softing Floating Licence Server (Windows Application)

Lightweight Flexible Container Solution

- Less resources plus increased scalability and flexibility
- Support of security standards as SSL/TLS, X.509 certificates, authentication and data encryption
- Highly flexible application to be started or stopped immediately, if needed

dataFEED edgeConnector 840D

Technical Data

Supported Controllers	Siemens SINUMERIK 840D Solution Line with software version > V2.7 Siemens SINUMERIK 840D Power Line with software version > V5.3 (others on request)	
Supported Protocols	SIMATIC S7 (RFC1006), SINUMERIK, OPC UA	
Supported OPC Specifications	OPC Unified Architecture V1.03	
OPC UA Roles	OPC UA Server	
OPC UA Profiles	Data Access	
OPC UA Security	Security methods	Aes256Sha256-RsaPss Aes128SHA256-RsaOaep Basic256Sha256 Basic256 Basic128Rsa15 None
	Authentication	Anonymous Username and password Certificate
OPC Certification	Test based on compliance test tools of OPC Foundation	
Logging, Diagnostics	Built-in trace and audit logging facilities, configurable and accessible through the web interface Docker integrated trace logging	
Supported Operating Systems	Linux (Docker Engine), Windows 10 (Docker Desktop Linux)	
Supported Architectures	amd64	
Minimum Hardware Requirements	200 MB free disk space, 2 GB RAM	
Licensing	Licensed via Softing Floating License Server	

Scope of Delivery

Software	dataFEED edgeConnector 840D, download via Docker Hub or Azure Marketplace
License Key	Email delivery after purchase including download link
Documentation	Online: www.github.com/SoftingIndustrial/datafeed-edge-connector

Order Numbers

LAA-XX-142005	dataFEED edgeConnector 840D, 5 NCU connections (1 year)
LAA-XX-142020	dataFEED edgeConnector 840D, 20 NCU connections (1 year)

Additional Products and Services

LRL-DY-140004	dataFEED Secure Integration Server, single seat license for up to 100 OPC UA connections, including maintenance and support contract for 1 year
GPL-CS-191000	echolink S7-compact (PROFIBUS/MPI adapter for communication with SINUMERIK 840D pl)
6FC5851-1XC45-4YA8	SINUMERIK 840D sl CNC software and SINUMERIK Operate, toolbox including NCVar Selector (please order directly from Siemens)

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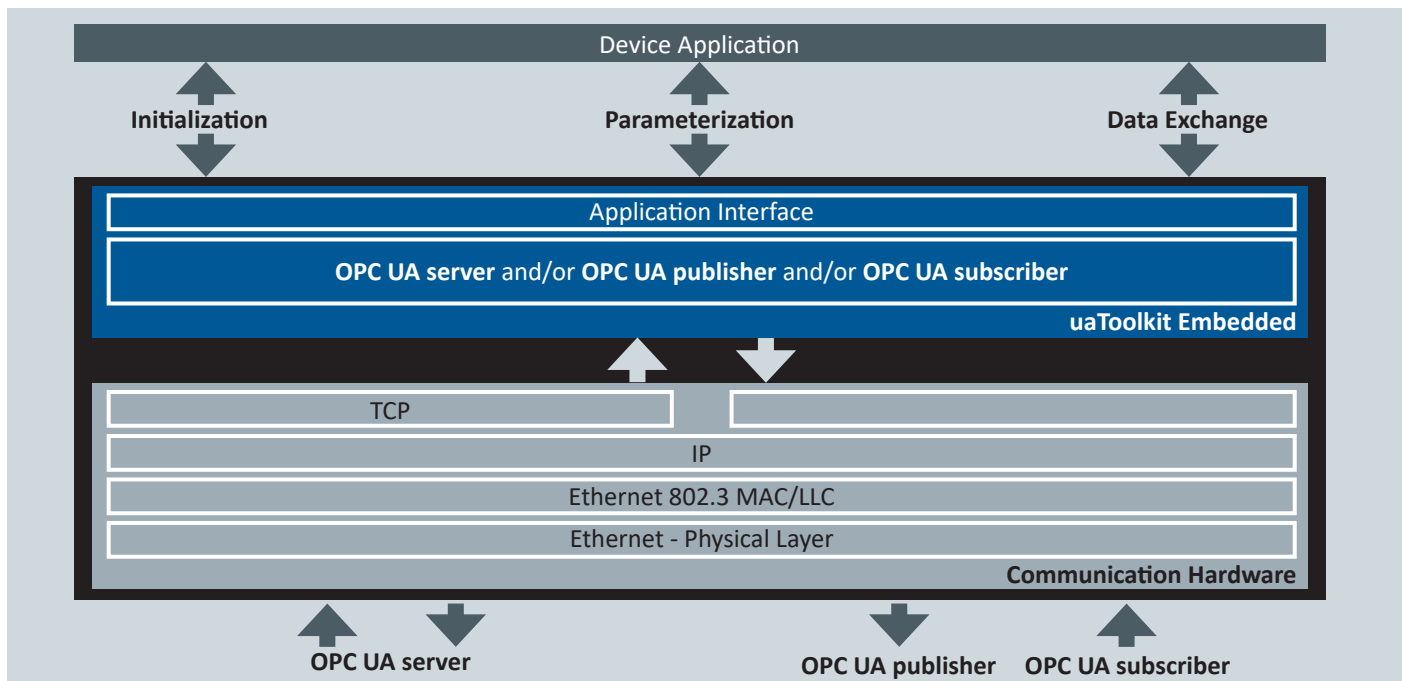
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uaToolkit Embedded

Development of embedded OPC UA applications with client/server and publisher/subscriber communication

- Get OPC UA into your device – fast and easy
- Optimal total costs of ownership through outstanding license model
- Proven compliance and interoperability
- Platform independent implementation with small memory footprint



Embedded OPC UA applications with OPC UA publisher/subscriber communication

- Support of OPC UA client/server and/or OPC UA publisher/subscriber communication
- OPC Foundation Lab certified conformance with Nano Embedded Device Server Profile, Micro Embedded Device Server Profile und Embedded UA Server Profile of the OPC Foundation
- Support of OPC UA Events and Alarms & Conditions
- Easy support of OPC UA companion specifications by code generation from Nodeset files
- Allows OPC UA information modelling with Siemens SiOME and other tools

Outstanding license model

- Risk-free implementation of OPC UA applications thanks to 3 years' right to updates to future versions of the toolkit
- All supported features and platforms are included
- Free deployment of OPC UA enabled applications without any restrictions

Multiple platform support

- Portable ANSI C source code compatible for every operating system with IP stack and inter-process synchronization
- Operating system layers for FreeRTOS, Linux, eCos, Windows and µITRON (provided by our partner Anotherware)
- Suitable for platforms: From ARM Cortex-M3, Microchip PIC32, Espressif ESP32, Renesas RX64M to ARM Cortex-A, Intel ATOM E

Designed for resource efficiency

- Modular design to scale OPC UA functionality according to actual requirements
- 245 KB toolkit code (including static data) / 50 KB runtime data for implementing Nano OPC UA server
- 135 KB toolkit code (including static data) / 15 KB runtime data for implementing OPC UA publisher

uaToolkit Embedded

Technical Data

OPC specifications	OPC Unified Architecture V1.03, V1.04, V1.04 Amendments 1, 3, 5, 7 and 11	
OPC UA roles	OPC UA server, OPC UA publisher, OPC UA subscriber	
OPC UA server profiles		Nano Embedded Device Server Profile, Micro Embedded Device Server Profile, Embedded UA Server Profile
OPC UA access types	Data Access Alarms & Conditions	
OPC UA transports	Client/server:	UA-TCP, UA-SC, UA-Binary
	Publisher/subscriber:	UADP-UDP
OPC UA security	Security Policies:	None, Basic128Rsa15, Basic256, Basic256Sha256, Aes128_Sha256_RsaOaep, Aes256_Sha256_RsaPss
	Authentication:	Anonymous, Username/password
OPC UA services	FindServer, GetEndpoint, OpenSecureChannel, CloseSecureChannel, CreateSession, ActivateSession, CloseSession, Browse, BrowseNext, TranslateBrowsePathsToNodeIds, Read, Write, Call, CreateMonitoredItems, ModifyMonitoredItems, SetMonitoringMode, DeleteMonitoredItems, CreateSubscription, ModifySubscription, SetPublishingMode, Publish, Republish, DeleteSubscriptions	
OPC UA node classes	Variable, VariableType, Object, ObjectType, ReferenceType, DataType, Method	
Programming interface	C	
Target operating systems	Portable ANSI C source code compatible for every operating system with IP stack and inter-process synchronization Delivered platform layers: FreeRTOS, Linux, eCos, Windows Partner-supported platform layers: µITRON, Nucleus	
Security	Supported libraries: OpenSSL, mbedTLS	
Trial version	Full featured toolkit for Windows, PC Linux und Raspberry Pi Linux. The running time is limited to 90 minutes.	
Toolkit features	OPC UA companion specification support with Nodeset code generation tool. Store address space nodes in flash memory. Scalar built-in datatypes, one dimensional arrays, custom structured data types and enumerations.	
Licensing	Single seat developer license Free deployment of OPC UA enabled applications without any restrictions. All features and platforms included.	

Scope of Delivery

Software	Installation archive available for download
Support	Dedicated support team
Documentation	English PDF manual available for download

Order Numbers

LDA-DD-032292	uaToolkit Embedded, source code, single seat developer license
LMA-DD-032292	3-year maintenance agreement for uaToolkit Embedded

Additional Products and Services

SEA-DD-032400	uaToolkit Embedded engineering day
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