# Secure Integration Server

dataFEED®

Secure and Flexible IT/OT Integration Solution on a Standard Basis (OPC UA and MQTT)

- **Maximum Security Through Vertical IT/OT Integration on Standard Basis**
- **Data Aggregation and Interface Abstraction for Efficient and Flexible IT Solutions**
- **High-Performance OPC UA – MQTT Gateway for Connecting Production to Cloud Solutions**
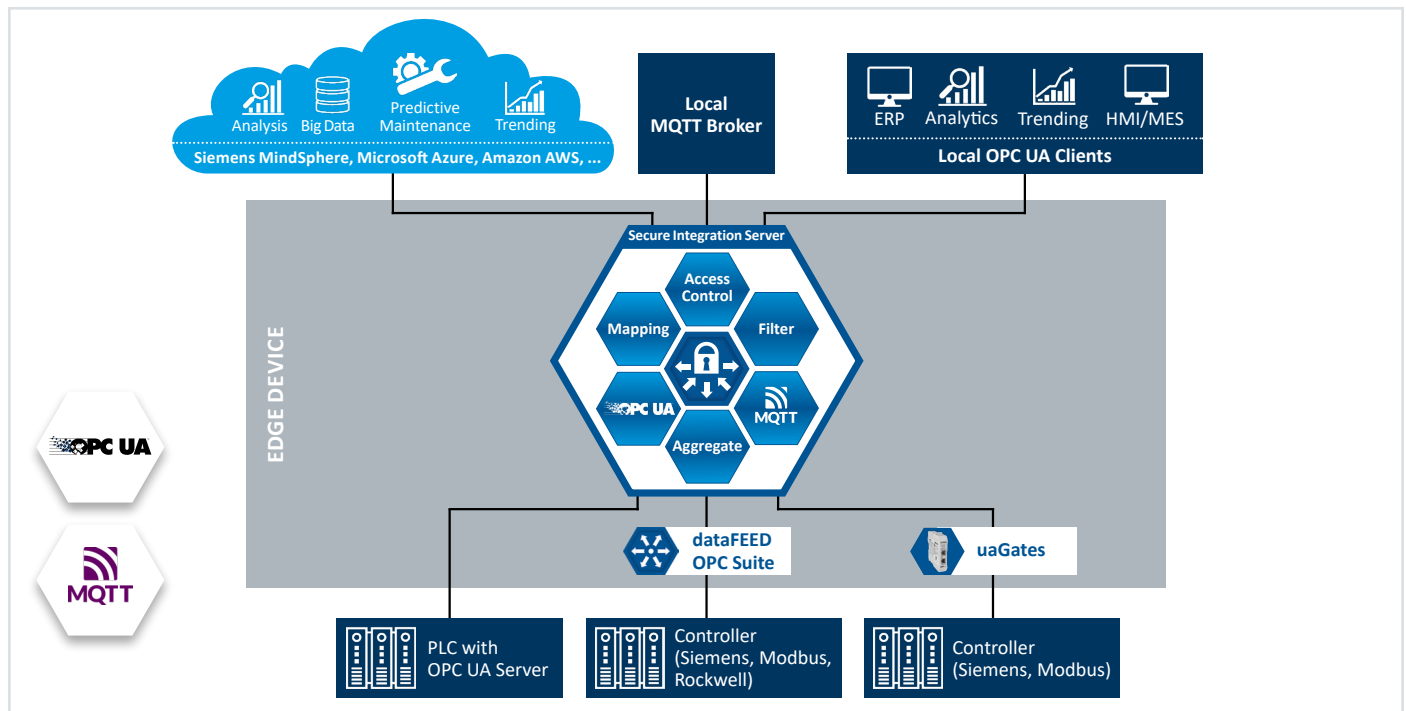
Secure OPC UA Communication

- 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)
- Flexible variables mapping of integrated OPC UA servers to different loaded address spaces (Address Space Mapping)
- Decoupling of investment decisions in IT and OT environment

MQTT Gateway for the Integration of OPC UA Applications into Modern Industry 4.0 or IoT Cloud Solutions

- Individual use of all security mechanisms of the MQTT standard, e.g. SSL encryption including certificates
- Protection against data loss through the Store&Forward function: data buffering when the connection is lost and automatic transmission after the connection reactivation
- Extensive and flexible trigger options through "LUA Script Engine" support
- Freely definable and customizable JSON data format

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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) ▪ IoT Gateway
Supported OPC Specifications	OPC Unified Architecture V1.04
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
Supported MQTT Specifications	V3.1, V3.1.1 & V5
Supported MQTT Features	▪ MQTT Publisher & Subscriber ▪ TCP, TLS/SSL, WS, WSS, (including certificates) ▪ QoS, Retain, Last Will & Testament ▪ Store & Forward ▪ Max. 25 connections
Operation Mode	Windows service
Logging, Diagnostics	▪ E-Mail Alert ▪ Detailed system and test logging ▪ Built-in logging capabilities for monitoring and auditing ▪ 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 11, Windows 11 IoT, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, Windows Server 2022
Licensing	Runtime license per computer

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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 connections to OPC UA servers, 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 connections to OPC UA servers
LRL-DY-140004	**dataFEED Secure Integration Server**, single seat license for up to 100 connections to OPC UA servers, 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 connections to OPC UA servers
LRL-DY-140010	**dataFEED Secure Integration Server**, single seat license for 5 Loadable Address Spaces (Companion Specifications)

License of Use

LRL-DY-141001	**dataFEED Secure Integration Server**, use license for up to 10 connections to OPC UA servers, including maintenance and support contract for 1 year
LRL-DY-141004	**dataFEED Secure Integration Server**, use license for up to 100 connections to OPC UA servers, 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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