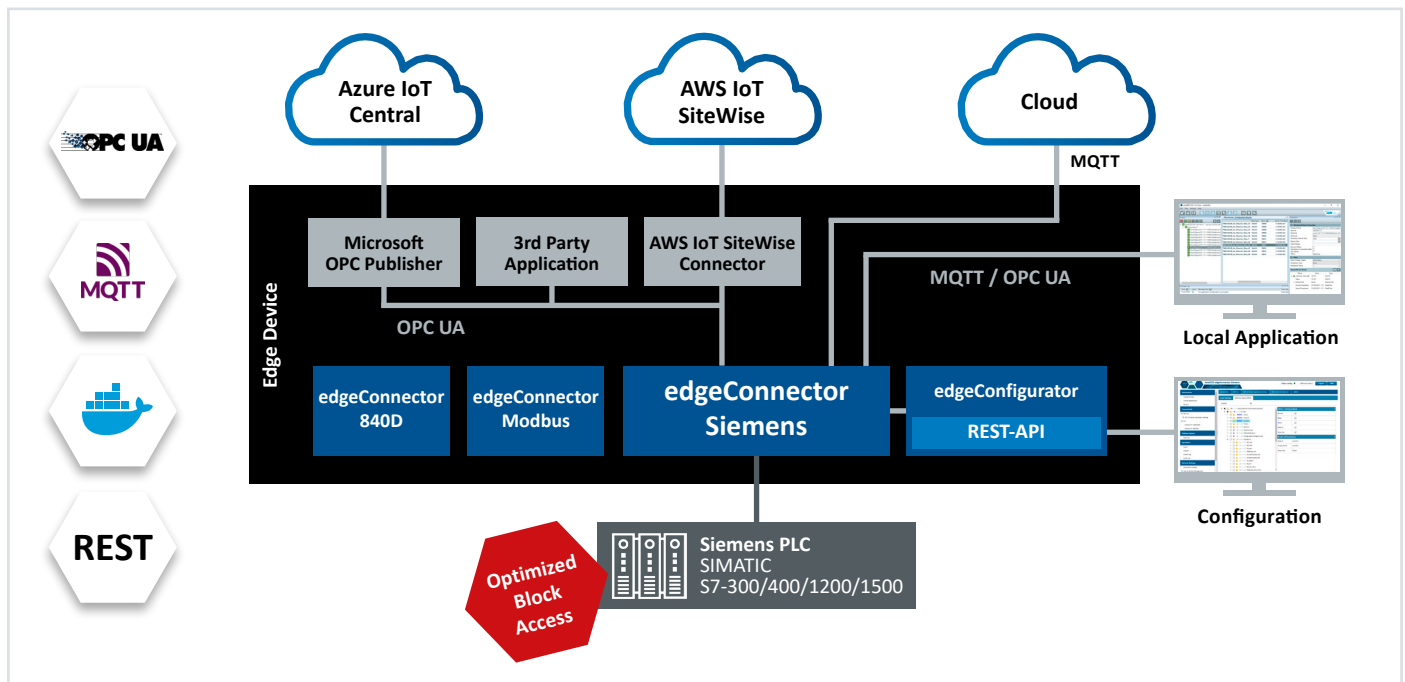dataFEED®

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 & MQTT**
- **Deployment, via Docker Management Systems e.g. Azure IoT Edge or 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)
- Simple data transmission to an MQTT broker using the MQTT publisher functionality for local or cloud-based solutions
- Recipe manager functionality for writing process data from the cloud to controllers (MQTT Subscriber)
- Licensing via Softing Floating Licence Server

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 state-of-the-art application to be deployed, adjusted or started and stopped immediately, if needed
- Deployment and configuration also via management systems such as Kubernetes, Azure IoT Edge or AWS IoT Greengrass

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Technical Data

Supported Controllers	Siemens SIMATIC S7-300/400/1200/1500 (including optimized data block access)
Supported Protocols	SIMATIC S7 , RFC1006, OPC UA,MQTT
Supported MQTT Features	MQTT Publisher & Subscriber V3.1.1 & V3.1, TCP, SSL, WS, WSS, (including certificates), QoS, Retain, LastWill & Testament
Supported OPC Specifications	OPC Unified Architecture V1.04
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 Compliance	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), Windows 2019 Server (Docker Enterprise Edition)
Supported Architectures	AMD64
Minimum Hardware Requirements	275 MB free disk space, 2 GB RAM
Licensing	Licensed via Softing Floating License Server
Demo Version	20 PLC connections timed at 72 hours
REST-API	Access using the edgeConfigurator, download via Docker Hub

Scope of Delivery

Software	edgeConnector Siemens, download via Docker Hub or Azure Marketplace
License Key	E-mail delivery
Documentation	Online help (German / English) and online: www.github.com/SoftingIndustrial/datafeed-edge-connector

Order Numbers

LRA-XX-152001	edgeConnector – Advanced license 1 incl. upgrade
LRA-XX-152005	edgeConnector – Advanced license 5 incl. upgrade
LRA-XX-152010	edgeConnector – Advanced license 10 incl. upgrade
LRA-XX-152020	edgeConnector – Advanced license 20 incl. upgrade
LRA-XX-152055	edgeConnector – Advanced license Add 5

Additional Products and Services

LRL-DY-140004	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 (for S7-300/S7-400 without CP or Ethernet connection)

Your local Softing contact:

https://industrial.softing.com

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