

# Industrial Cloud Connectivity

Integrating Industrial Networks  
with Internet of Things and  
Industrie 4.0 Applications

**data**  **FEED**

# CLOUD COMPUTING



Cloud computing is about storing, accessing and processing data over the internet. Users of cloud computing can reduce their investment in locally installed server technology and belonging administrating. The consumption of computing power can easily be scaled up or down according to the actual demand. Cloud services are accessible from everywhere at any time.

Internet of Things (IoT) and Industrie 4.0 drive the propagation of cloud computing in industrial automation through the convergence of operational technologies (OT) and information technologies (IT). While the potential benefits are big, cloud computing implicates specific requirements to ensure a reliable and secure data exchange essential for the integrated production of networked systems across different sites.

# SOFTING COMPETENCE



Softing is an expert for implementing and improving digital data exchange in industrial applications. Right from its start in 1979, Softing has specialized in the major fieldbuses and Industrial Ethernet technologies. Since then Softing experts actively contribute to the technical capabilities of numerous international communication standards for industrial use including OPC UA, considered one of the most future-relevant integration technologies. Today Softing systematically extends its industrial communication expertise in the direction of well proven IT-technologies like REST, MQTT and AMQP.

By leveraging the company's technological know-how and in-depth understanding of Automation needs, Softing's dataFEED products reliably bridge between OT and IT offering an easy-to-establish integration of production data into higher level systems whether on premise or via the cloud.

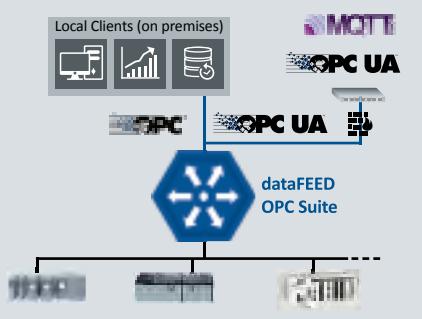
# PC based software or in-field hardware for integrating industrial networks in IoT and Industrie 4.0 applications

Softing's dataFEED products reliably connect industrial automation networks with applications running in public or private clouds to optimize communication and data systems. Features for data stream optimization, buffering and filtering are included. Data can be collected from PLCs as well as from other assets via OPC UA and OPC "Classic".

Softing's dataFEED product range tailors to both philosophies: An open implementation based on a PC installed, multi-functional software respectively an in-field solution utilizing dedicated hardware.

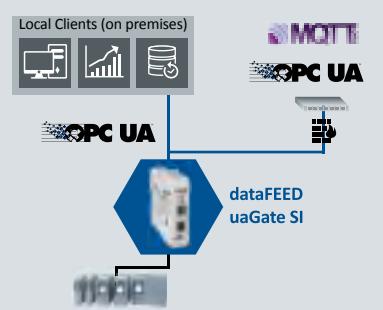
## SOFTWARE BASED SOLUTION DATAFEED OPC SUITE

- Connectivity platform for on-premise and in the cloud applications
- Direct access to PLCs of leading manufacturers
- Data stream optimization and filtering
- Easy, wizard-based configuration
- Support of OPC UA, MQTT and REST client applications



## HARDWARE BASED SOLUTION DATAFEED UAGATE SI

- Connectivity to Siemens controllers for on-premise and in the cloud IoT and Industrie 4.0 applications
- No interference through operating system updates or other PC maintenance
- Additional security through physical separation of the OT and the IT network.
- Easy configuration via web interface
- Support of OPC UA and MQTT client applications



## SECURITY

The dataFEED OPC Suite as well as the dataFEED uaGate SI, support security standards such as SSL/TLS protocols and X.509 certificates.

## EASE-OF-USE

By guiding the user through every step, installation and configuration is quickly done and easy. With the dataFEED OPC Suite this is achieved with a software wizard, while the dataFEED uaGate SI utilizes a web based user interface.

## START SMALL, SCALE FAST

dataFEED solutions provide connectivity to integrate field data with higher level applications on premise and in the cloud at the same time. Users can start with small IoT and Industrie 4.0 projects. By migrating further applications, dataFEED solutions can be scaled up to the required level of integration as needed.

## RELIABLE TECHNOLOGY

The design and functionality of dataFEED-solutions leverage decades of experience with developing digital communication solutions for industrial environments.

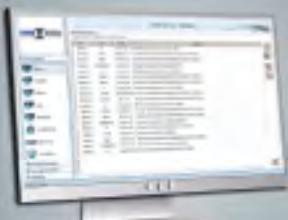
## EXCELLENT SERVICE AND SUPPORT

Users of dataFEED products benefit from support via telephone and e-mail – a service confirmed by customers to be at a superior level.



**data** FEED

**dataFEED OPC Suite**



**OPC UA**



**MQTT**

**REST**



**MQTT**



**OPC UA**



<https://industrial.softing.com/en/expertise/opc.html>