MES System

ERP System

Bihler Digital App

Customer System

OPC UA

Standardized communication interface

Provision of Bihler machine information via OPC UA

OPC UA

OPC UA is the platform-independent, bidirectional and secure further development of the well-known OPC communication protocol. Through standardized and modern communication, OPC UA forms the basis for future requirements in the field of IoT, M2M and I4.0. This standard is created in close cooperation between automation manufacturers, users, research institutes and consortia. It is further developed and managed by the OPC Foundation.

Bihler OPC UA Interface

The OPC UA server provides a wide range of data (in accordance with the Bihler OPC UA specification) that can be evaluated in a targeted manner. The customer software (MES, ERP, etc.) requires an OPC UA client to read out the machine data.

bIHLER

FEATURES

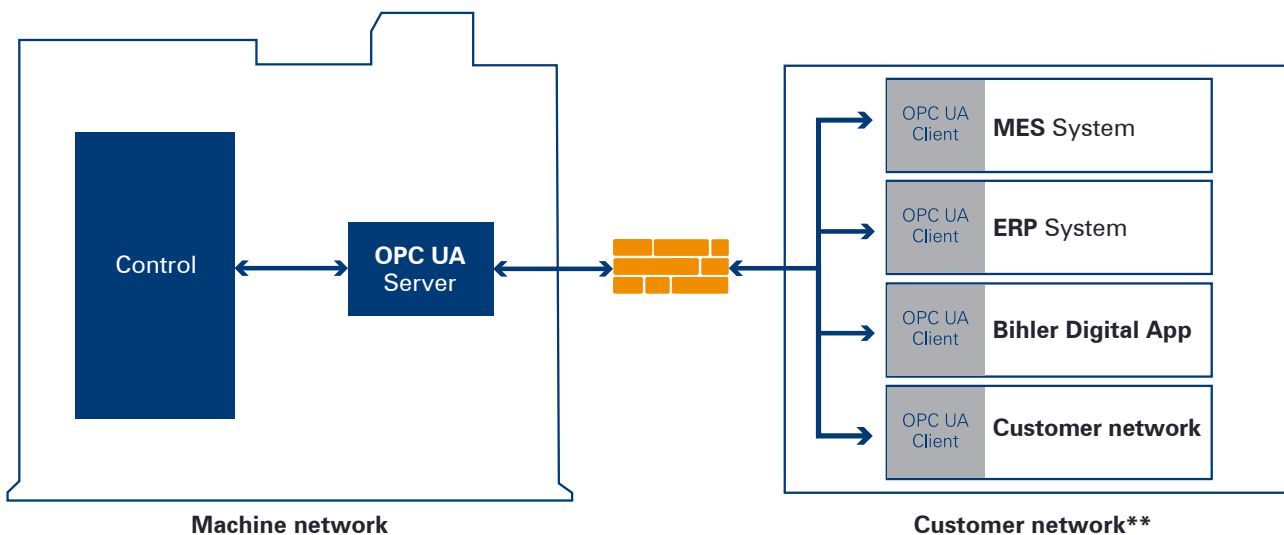| Data	VC 1	VC1-E	BC R
Machine status & information (motor/clutch on, fault active, ...)	✓	✓	✓
Order data* (number of pieces, product name, ...)	✓	✓	✓
Messages (activity/error messages, ...)	✓	✓	✓
Configurable modules (counter, shift register, …)	✓	✓	✓
Process data (measured values)	✓	✓	
User-defined nodes (freely selectable data type, read/write access)	✓		
Batch management (material number, GTL code, ...)	✓		

*only included in OPC UA order module

Use on customer side

The specified VC 1 machine data can be read and partly also written via the Bihler OPC UA server. Software modules have to be configured by the customer. The OPC UA protocol required for this is supported by many standard MES or ERP systems. If you use your own software, you must configure and connect the OPC UA client yourself. Bihler will support you in case of problems and integration. Contact via opcua.service@bihler.de

Advantages of OPC UA in industrial automation

– Transparent and platform-neutral architecture for industrial communication
– Standardization guarantees a high degree of secure interoperability between different applications and manufacturers
– Architecture is flexible, future-proof and expandable
– Uniform interfaces for easy access to functions and data

Machine network

Customer network**

****Bihler also offers you its own system. With the Bihler Digital App, you can evaluate and analyze the data provided via the OPC UA server yourself.