

Industrial Connectivity Services

Use Cases



Use case 1

Connecting machines of all ages

Drivers

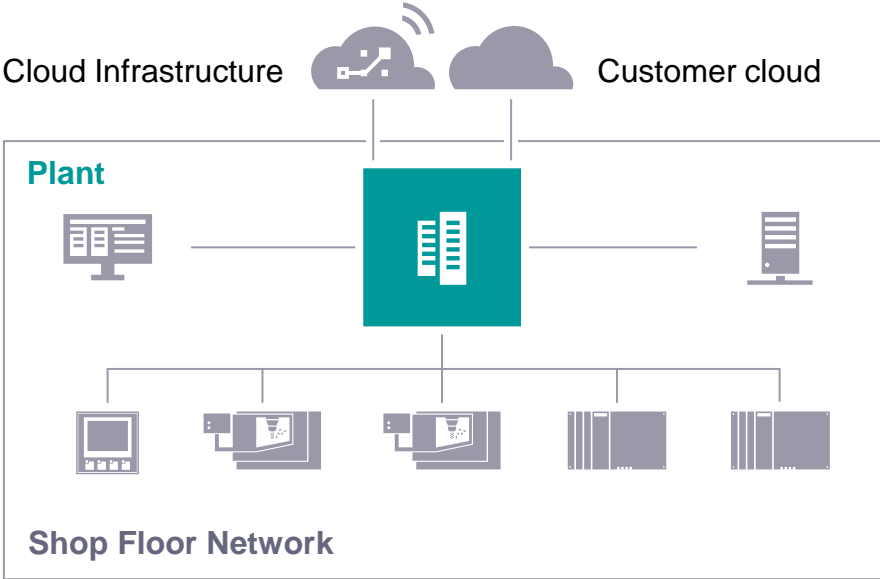
Identified use cases only work and deliver the promised benefit if all assets are connected

Goal

Connect any asset on the shop floor no matter how old

Solution

Industrial Connectivity Services integrate the data of all assets into the software utilized in use cases



Benefits

No limitation regarding the age of an asset



Data access to all assets on the shop floor



Any use case can be implemented without restrictions



Use case 2

Energy transparency and savings

Drivers

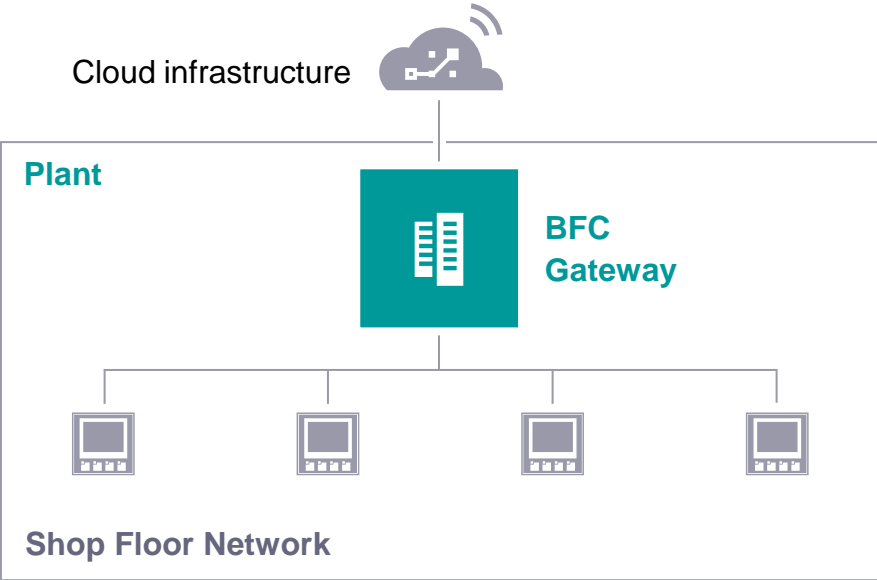
Creating transparency of energy consumption within the plant

Goal

Energy efficiency improvement by making data visible

Solution

Measuring the energy consumption of various machines within the plant and forwarding the result to an app where the results are analyzed



Benefits

Unnecessary energy consumption becomes transparent



Wasted energy can be avoided



Energy consumption can be optimized



Use case 3

Resource availability and efficiency

Drivers

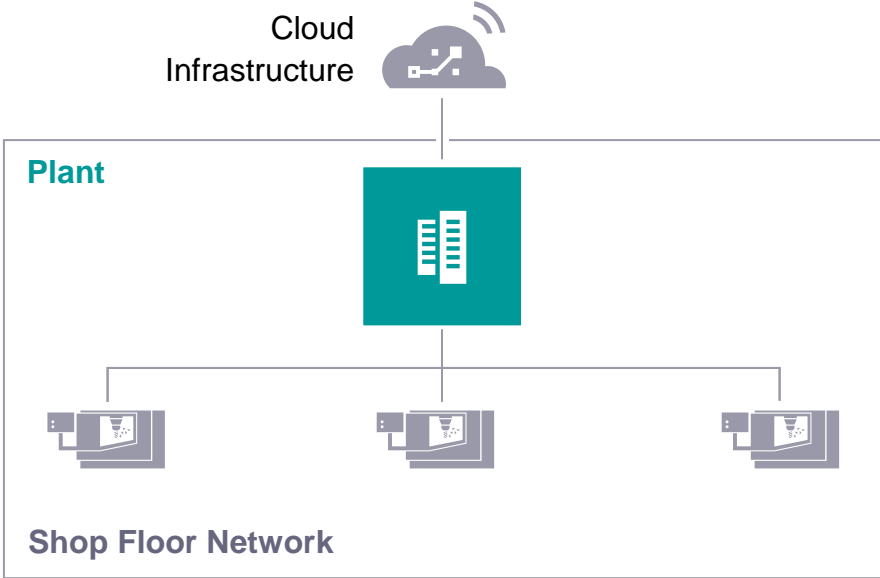
Increase in tool efficiency and availability

Goal

Tool usage improvement

Solution

Industrial Connectivity Services provide tool data to an app where an event and cause analysis will be conducted



Benefits

Increase transparency within the production process



Increased tool availability



Increased efficiency



Use case 4

Closed-loop production

Drivers

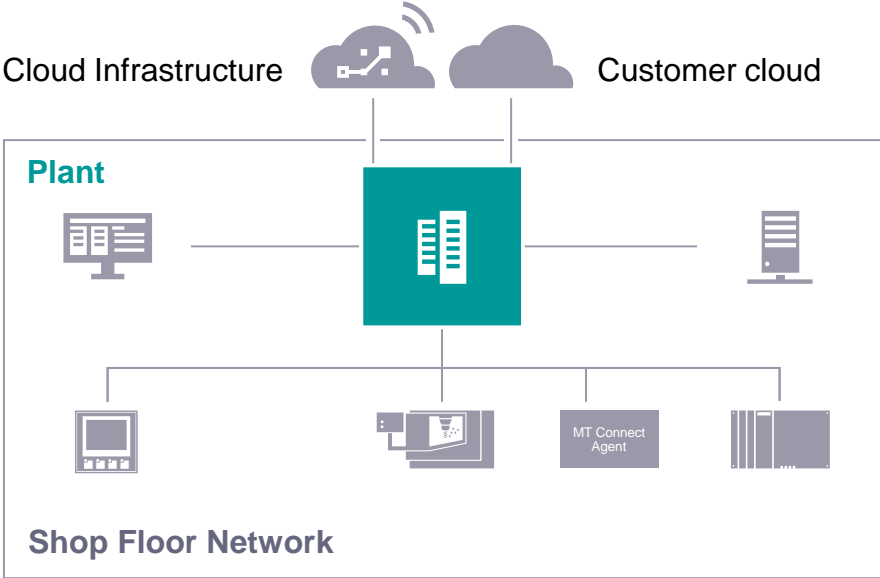
Transparency on shop floor production and shorter time to market for engineers to order products

Goal

Closed-loop production for improved production planning

Solution

End-to-end IT infrastructure integrating digital applications from order entry to production



Benefits

Improve production quality and minimizing production time



Reduce manual effort through digitalized production planning



Generate blueprint for holistic OT/IT integration



Use case 5

Test with Artificial Intelligence

Drivers

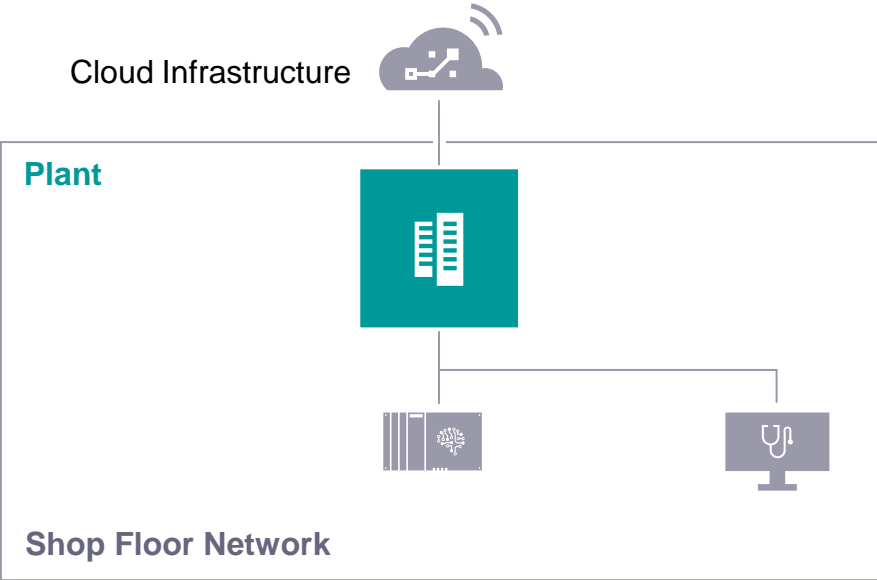
Increase first pass yield and reduce manual effort

Goal

Closed-loop production for improved production planning

Solution

Using Artificial Intelligence (AI) to reduce pseudo errors at Automated Optical Inspection (AOI) using model-based decisions with visual data from object recognition



Benefits

Reduced test efforts



Increased production capacity and planning flexibility



Reduction of operational expenditures



Use case 6

Holistic use of operational data

Drivers

A holistic approach to a new IT infrastructure

Solution

As part of an IT ecosystem, BFC connects the shop floor to support the process data analysis within the company

Benefits

Increase transparency within the production process



Complete networking of existing production machines

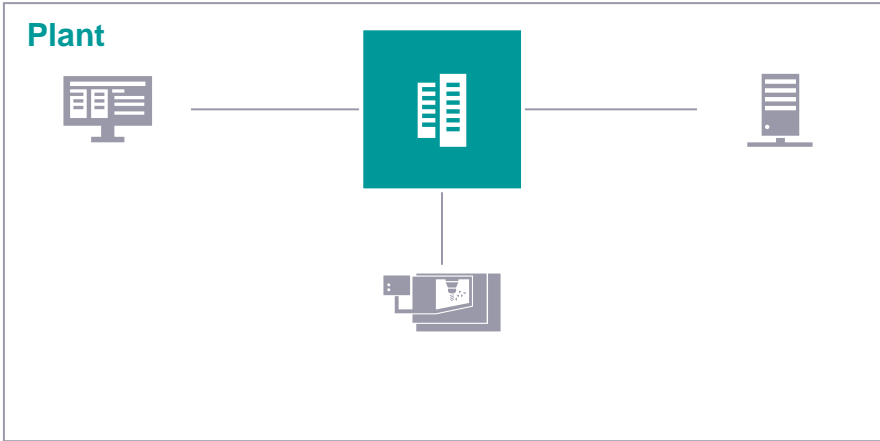


Increased productivity



Goal

Reduce pseudo errors at Automated Optical Inspection (AOI)



Use case 7

Manufacturing Execution

Drivers

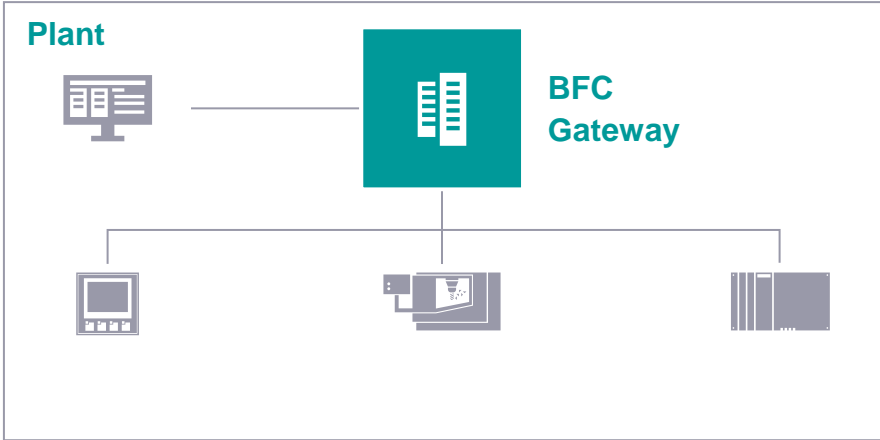
Digital shop floor management between IT/OT level

Goal

Stable and reliable interaction through data buffering, handshake mechanism and message execution of predefined data templates for order download, order progress and message transfer

Solution

Communication concept to exchange production data between a Manufacturing Execution System (Opcenter EX DS) through the BFC to heterogenous shop floor devices



Benefits

Increase transparency within the production progress



Increased productivity



Flexibility in selection of relevant orders



Industrial Connectivity Services

Benefits



Why should you choose Industrial Connectivity Services?



95%

Compatibility to all field devices and software systems



Seamless integration into existing IT infrastructure



Connect anything with everything



Unlimited scalability of connected assets

Contact

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