



# SIA Connect

Simply Connecting the Industry

# Many Industry 4.0 & IIoT projects fails

before even started because of lack of data



- Releasing data from shop floor has high risks and associated costs
- Complexity of OT data sources requires complex solutions
- Lack of system compatibility and metadata between IT & OT
- IT & OT teams have different ways of working

SIA Connect is the solution to these problems



**Gateway to  
Cloud & IT / OT**



**Protocol  
converter**



**Data  
Logger**



# Areas of applications



## Industry 4.0 & IIoT

Turn Industrial controllers into IIoT devices



## Smart Building

Support for BMS & Meters



## OT / IT convergence

Embedded OPC-UA server & SQL support



## OEM solutions

Integrate able software custom solutions

# Succeed in Industrial digitization

by bringing in simplicity and flexibility with SIA Connect



# Simplicity & Scalability

are the keys to apply Industry 4.0

## User centric software

Web based & responsive configuration software

## No programming

Intuitive UI ensures a Click'n'Connect "feeling"

## Open API & Architecture

For developers by developers

## Full data ownership

You own the data 100%. No middleware services.



# Cloud Gateway & IT / OT

Connecting shop floors to clouds & enterprise systems



## Cloud Gateway & IT / OT

### Edge processing

Process, filter and handle all the logic on the edge

### Correlation & combination of data

Use data from various sources as metadata in payloads & queries

### Fallback buffer

Process, filter and handle all the logic on the edge

### SQL support

Data exchange and bidirectional SQL queries to IT systems

### OPC-UA server & API

Bidirectional data exchange accessible on OPC-UA & API

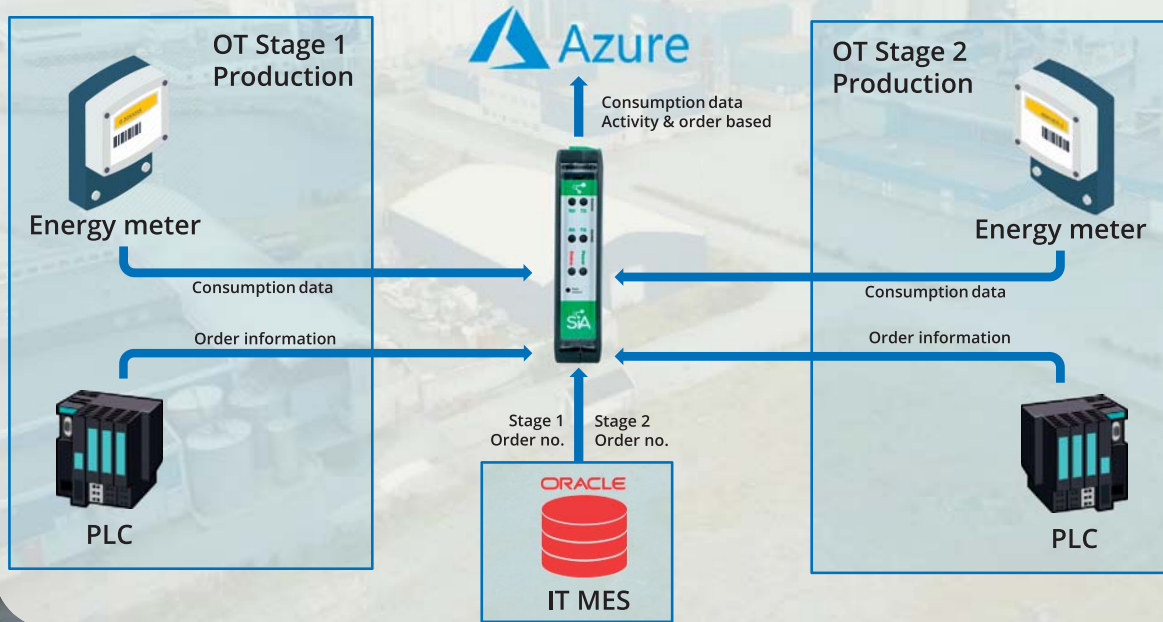




# Activity based CO2 footprint in production

**Challenge:** Combine various data sources and in a scalable solution for all their plants where no plants are the same. The solution had to be in a retrofittable and non-invasive.

**Technologies & components:** Allen-Bradley PLC, Energy meters using Modbus & Wireless Mbus, Oracle database & Azure SQL database.



# Universal data logger

for any application and purpose



## Data logger

### 30+ protocols & technologies

Data logging tool that covers a broad range of applications

### 25M+ samples storage

Memory can store 25M+ samples. Integrated chart tool in software

### Data access & export

Export the logged data to CSV or access it using the Open API

### Triggers & processing

Advanced triggers and filters ensures high quality of data





# Protocol converter

making incompatible protocols & devices talk



## Protocol converter

### Many-to-Many

Route data between 30+ protocols and endless of devices

### Push-pull conversion technology

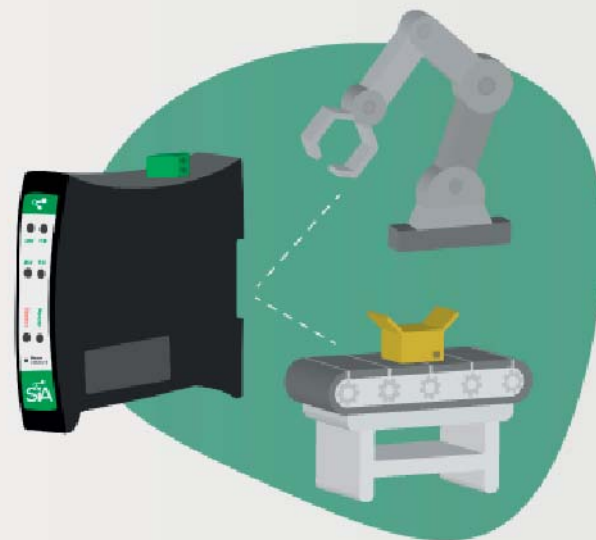
Reduce commissioning time & avoid invasive modifications

### Conditional & logic rules

Apply logic rules and conditions for data conversion

### Server "READY"

Architecture allows server implementation as a classical gateway



Integrated OPC-UA server

# Simplest Azure gateway

making IIoT projects in Azure succeed



## Azure gateway

### IoT Hub

Fast setup with Connection String. Support for Message Properties

### Event Hub using REST API

Ingest data to the Event Hub by using the REST API Connector

### Azure SQL Database

Execute queries directly to the database to read or write data.

### Customizable payload

Generate valuable metadata by combining data from any source

### Bi-directional data exchange

Enable feedback loops from big data algorithms & AI in Azure



*"We have all been extremely impressed with the ease in which we were able to very quickly get data from the PLC up to Azure. I think it might have taken a sum total of around 30min! A super result and a fantastic unit that was extremely simple to configure."*

- Simon Russell, Lead Engineer at HARSCO

**HARSCO**



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