



GATEWAY INDUSTRY 4.0 & IIoT



01 ABOUT SIA



REDUCE COST OF IIOT & INDUSTRY 4.0 IMPLEMENTATIONS

by simplifying data exchange to the shop floor

SIA Connect is an edge gateway that simplifies the unification and convergence of data between IT and OT (Operational Technology).

It empowers analytic tools & data driven decisions by releasing valuable data from industrial and building shop floors. It applies a non-intrusive approach with a high degree of flexibility:

- native access to **all** legacy operational systems
- bi-directional data exchange with **any** IT system

This is done without the hassle of programming and complex configuration.



**GATEWAY
CLOUD, IT/ OT**

**PROTOCOL
CONVERTER**



DATA LOGGER



Industry 4.0 & IIoT

With access to more than 30+ industrial protocols & millions of devices SIA Connect secures full transparency across data sources. Its ability to bi-directionally exchange data across systems enables dataflows and feed-back across operation & enterprise and can further enable AI algorithms & Machine Learning.

- OEE key metrics & condition based monitoring
- Connected factories & machinery fleet management
- Enabling AI & ML for predictive maintenance & performance

Smart Building

Commercial & public buildings contain lots of valuable but hidden data. Release the hidden potential of your buildings with SIA Connect by non-intrusive data exchange with Building Management Systems, solar cells, utility meters and much more.

- Detection of leaks & consumption abnormalities
- ESG reporting & building optimization
- Indoor environment & air quality measuring



IT / OT convergence

With a flexible support for bi-directional SQL queries, open API backend & OPC-UA server SIA Connect provides a faster and more streamlined approach to data flowing between Information Technology (IT) in enterprise systems and Operational Technology (OT).

- Paperless production & ERP integration
- Convergence between shop floor & enterprise systems
- Activity based tracking of batches, orders & recipes



Learn more on www.sia-connect.com

PROTOCOLS TECHNOLOGIES

Industrial & Building



Clouds & IT



KEY FEATURES

01

DEVICE AGNOSTIC

30+ protocols and technologies supported - all major vendors of PLCs, robots, BMS and meters are guaranteed compatible.

02

SQL INTEGRATION

Customizable SQL queries provides a simple direct integration to IT & enterprise systems.

03

BI-DIRECTIONAL DATA EXCHANGE

Bi-directional data exchange between systems enables smart data flows and feedback loops across systems and devices.

04

NON-INVASIVE

Connect your operational devices and IT infrastructure in non-invasive push-pull approach, which ensures seamless implementation.

05

EDGE COMPUTING

Setup smart rules & conditions to decide on data exchange along with smart processing functions to process the data

06

OPEN & REMOTE API TAILORED FOR OEM

Integrate as OEM and strengthen your solution - building on the open architecture and provided API with remote option.



The integrated OPC-UA server allows yet another easy bi-directional data integration and unification across machines, sensors and enterprise systems.

Convert any of the many supported devices, sensors and systems to OPC-UA. Powered by SIA's strong OPC-UA server engine.

SUPERIOR CLOUD GATEWAY

Contextualization & Data normalization

Let SIA enrich your cloud data with necessary metadata - to put it into the right context. Aspire for full transparency into operational datasets for optimal decision making.

Offline Redundancy

No matter if you are online or have a glitch SIA guarantees access to your data. The internal fallback buffer keeps your data and retransmits it when online.

Native Cloud Support

Support for any MQTT & REST API backend with customizable payloads provides direct and native integration to any cloud.

Azure & Aws Certified

Certified as IoT gateway on Azure & AWS with native support - this simplifies implementation and ensures a seamless integration of bi-directional data access.

Secure Connections

High security is guaranteed with encrypted connections between SIA and any secure cloud - your data will stay safe.

Remote Management

SIA's open API and ability for remote accessing it ensures seamless integration into your platform & ability to implement fleet management.

Data Logger for any application and purpose

- ✓ **25M+ samples storage**
Extensive software memory with integrated chart tool.
- ✓ **Data access & export**
Export the logged data to CSV or access it using Open API.
- ✓ **Triggers & Processing**
Advanced triggers and filters ensure high quality of data.



06 TECHNICAL SPECIFICATIONS

Software & HW editions	Docker or Hardware w. software
Dimensions	119,5 mm x 101mm x 22.5mm
Enclosure type	DIN rail 35mm (EN 60715)
Enclosure material	Blend PC/ABS self-extinguishing
Storage & RAM	8GB / 512MB
Processor	Cortex-A7 / A53 Quad core 1GHz
Network	10M/100M + 10M/100M Ethernet
Power input	10V - 30 V / 1.5A
Operating temperature	-20 C° - +70 C°
Certifications & Approvals	FCC Part 15 Subpart B ANSI C63.4:2014 EN 55032:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 + A1:2019 EN 55035:2017 EN 62368- 1:2014+A11:2017
Configuration tools:	Web-based GUI & REST API
Supported protocols:	OPC-UA client & server, Modbus TCP, Modbus RTU, BACnet IP, BACnet MS/TP, M-Bus, M-Bus Wireless Siemens S7, !LOGO & TI505, AB Ethernet/IP, Omron FINS & HostLink, Mitsubishi MC, Beckhoff TwinCAT ADS, Schneider, Universal Robots RTDE, Keyence KV, IFM VSE Microsoft SQL , Azure SQL, Oracle , MySQL MariaDB, IBM DB2, MongoDB, Postgre SQL ,SQLite MQTT, REST API's, Azure IoT Hub, Mindsphere AWS, Google Cloud, Cumulocity, ThingWorx and many more..

GET IN TOUCH

We're here to help and discuss your Industry 4.0 & IIoT projects.
We look forward to get in touch with you!

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Explore SIA

sia-connect.com



GATEWAY
INDUSTRY 4.0
IIOT

Wer wir sind



Routecco unterstützt Industrieunternehmen dabei, ihre Geschäftsmodelle zu optimieren und Innovationen sicherer sowie nachhaltig erfolgreich einzusetzen.

Seit über 25 Jahren sind wir erfolgreicher internationaler Anbieter von Komponenten und Gesamtlösungen für die industrielle Prozessautomatisierung. An unserem Standort in Flamatt betreuen wir den schweizerischen Markt als preferierter Distributor für Rockwell Automation (Marke Allen Bradley) und für viele weitere namhafte Hersteller.

Unser oberstes Ziel ist es, Industrieunternehmen durch professionelle Zusammenarbeit und exzellenten Service mit technischen sowie betriebswirtschaftlichen Lösungen bestmöglich zu unterstützen.

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