



The Digital Twin Platform for Industrial Operations

Collect, monitor, and analyze industrial data end to end — from any sensor or PLC to live dashboards, reports, and connected systems.

● Product Overview

One platform, from sensor to insight

TwinCoreX unifies the full industrial data journey in a single system. Connect equipment, log time-series data, build a live digital twin, and turn it into dashboards, reports, and outbound data streams — without stitching together separate tools.



01

Collect

Communication drivers, SQL data sources, and a scheduled datalog historian.



02

Monitor

A visual Twin Screen and real-time dashboards with gauges, alarms, and charts.



03

Analyze

Sankey flows, heatmaps, and on-demand reports with CSV, Excel & PDF export.



04

Publish

Push processed data to external systems and APIs on a defined interval.

THE CHALLENGE

Industrial data is hard to harness

Plants run on PLCs, sensors, and databases that rarely speak the same language. The result is fragmented visibility and slow decisions.



Siloed systems

Data lives in isolated PLCs, SCADA nodes, and SQL databases with no shared view across the plant.



Limited real-time visibility

Operators react to problems after the fact instead of monitoring live process conditions and alarms.



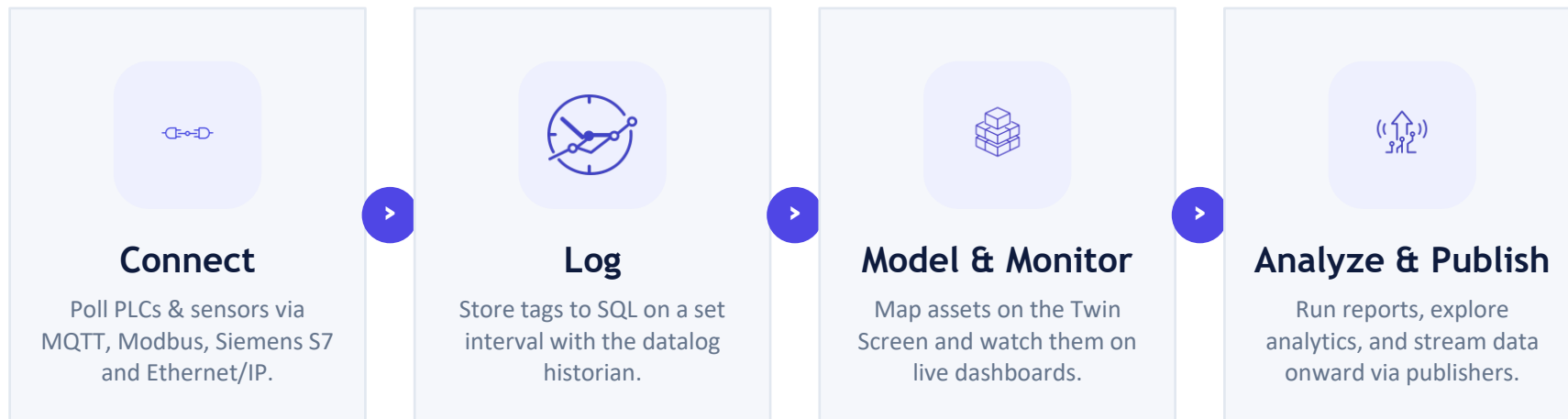
Manual, slow reporting

Exporting and compiling operational data by hand delays analysis and keeps insight locked in spreadsheets.

HOW IT WORKS

A connected pipeline from field to decision

Every module in TwinCoreX plugs into one continuous data flow.



Connect to any device on the plant floor

TwinCoreX polls industrial equipment through pluggable communication drivers, so every controller and sensor becomes a live data source with configurable polling and status monitoring.

MQTT

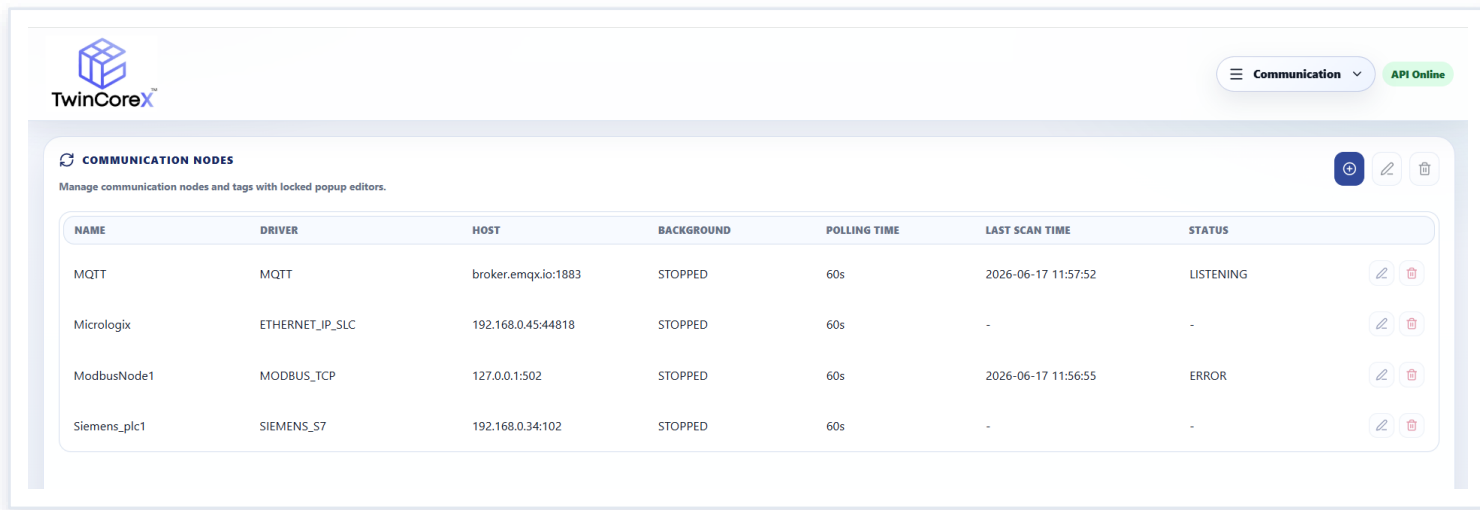
MODBUS TCP

SIEMENS S7

ETHERNET/IP

Configurable polling

Live status



The screenshot shows the TwinCoreX web interface. At the top left is the TwinCoreX logo. On the top right, there is a 'Communication' dropdown menu and a green 'API Online' status indicator. Below this is a section titled 'COMMUNICATION NODES' with a subtitle 'Manage communication nodes and tags with locked popup editors.' and three action icons (refresh, edit, delete). The main part of the interface is a table with the following columns: NAME, DRIVER, HOST, BACKGROUND, POLLING TIME, LAST SCAN TIME, and STATUS. The table contains four rows of data representing different communication nodes.

NAME	DRIVER	HOST	BACKGROUND	POLLING TIME	LAST SCAN TIME	STATUS
MQTT	MQTT	broker.emqx.io:1883	STOPPED	60s	2026-06-17 11:57:52	LISTENING
Micrologix	ETHERNET_IP_SLC	192.168.0.45:44818	STOPPED	60s	-	-
ModbusNode1	MODBUS_TCP	127.0.0.1:502	STOPPED	60s	2026-06-17 11:56:55	ERROR
Siemens_plc1	SIEMENS_S7	192.168.0.34:102	STOPPED	60s	-	-

Bring in databases — and keep them in sync

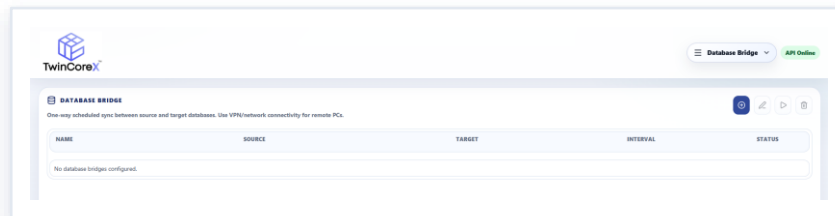
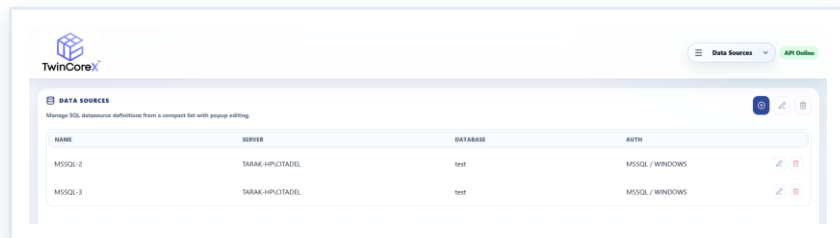
Define SQL data sources once, then move data safely between sites. The Database Bridge runs one-way scheduled syncs between source and target databases over your VPN or network.



Data Sources



Database Bridge



A time-series historian for every tag

Create dedicated datalog nodes and map tags from any communication driver. TwinCoreX writes them to your database on a defined interval — building the historical record that powers reports and analytics.

Tag mapping

Interval logging

SQL storage

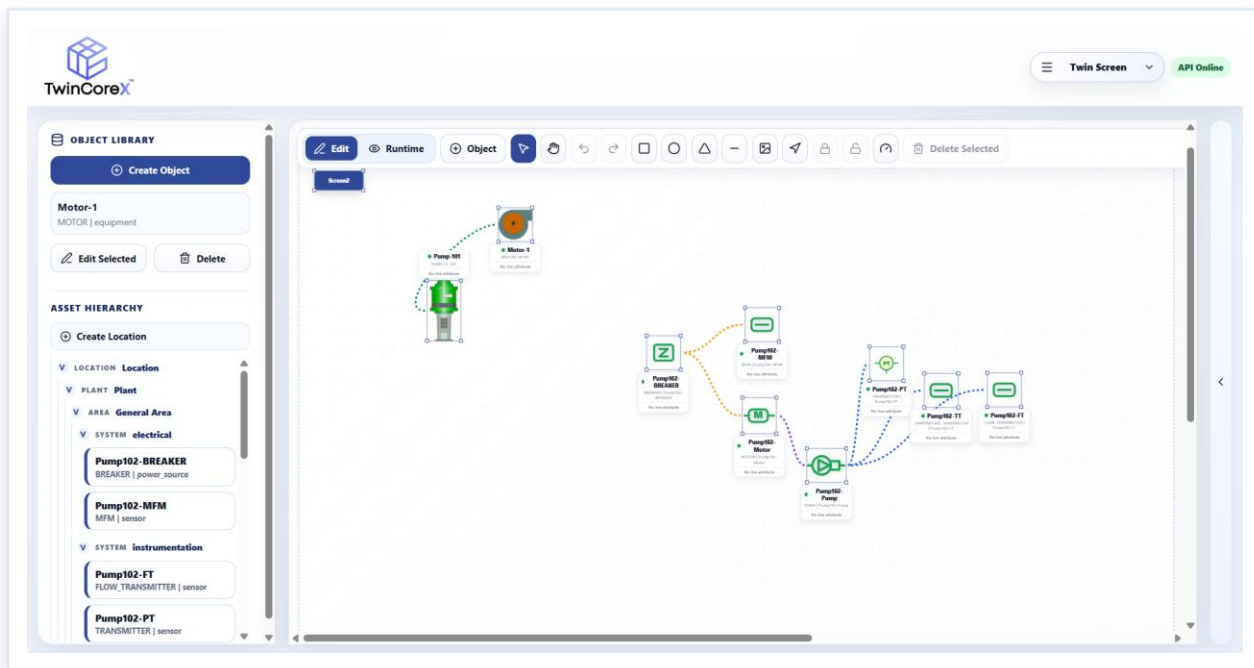
Last-log status

The screenshot shows the TwinCoreX web interface for managing datalog nodes. At the top left is the TwinCoreX logo. On the top right, there is a menu icon, a dropdown menu currently showing 'Datalog', and a green status indicator that says 'API Online'. Below the header, the main section is titled 'DATALOG NODES' with a subtitle 'Create separate datalog nodes and map tags from different communication drivers.' To the right of this title are three icons: a plus sign in a circle, a pencil, and a trash can. Below the title is a table with the following columns: NAME, DATASOURCE, TABLE, DATALOG, INTERVAL, LAST LOG, and STATUS. There is one row in the table with the following values: Datalog1, MSSQL-2, dbo.comm_log, OFF, 60s, -, and -. To the right of the table row are two icons: a pencil and a trash can.

NAME	DATASOURCE	TABLE	DATALOG	INTERVAL	LAST LOG	STATUS
Datalog1	MSSQL-2	dbo.comm_log	OFF	60s	-	-

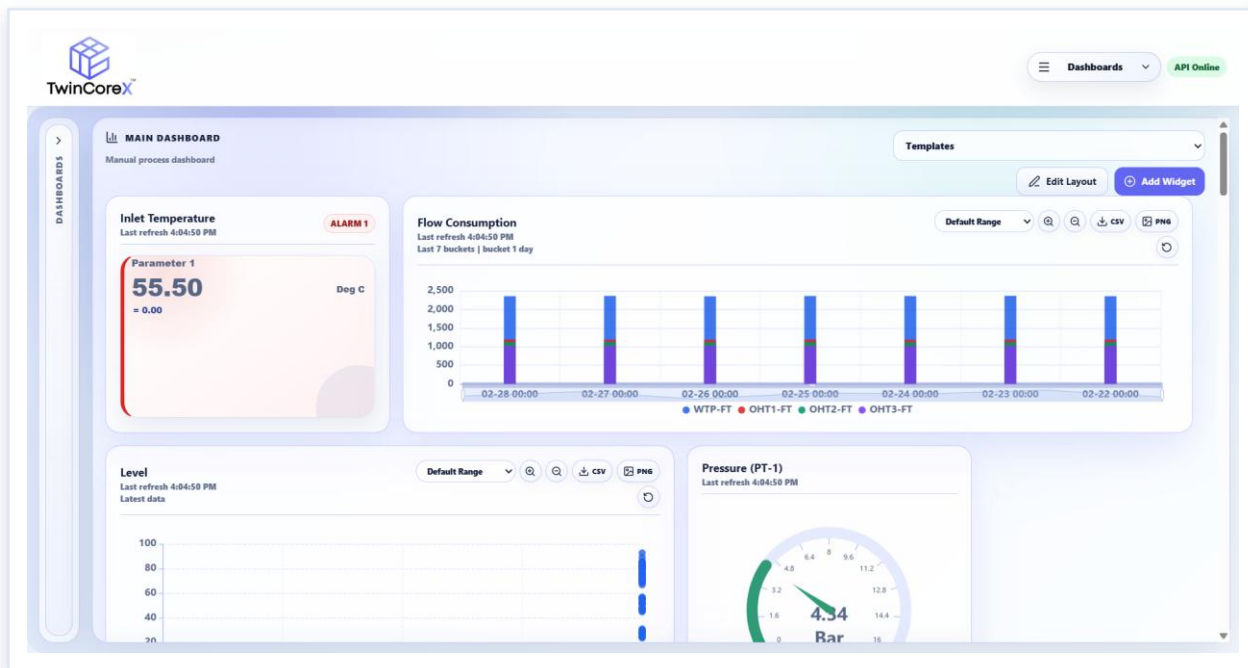
Build a visual twin of your plant

Model equipment on a drag-and-drop canvas, organise it in an asset hierarchy by location and system, and bind live tags to every object.



Live dashboards with alarms

Compose gauges, trend charts, level indicators, alarm tiles and widgets — build from templates and monitor real-time conditions at a glance.



See how your process really flows

Go beyond single values with advanced visualisations — Sankey diagrams for mass and flow balance, heatmaps for patterns over time, and comparative charts across tags.

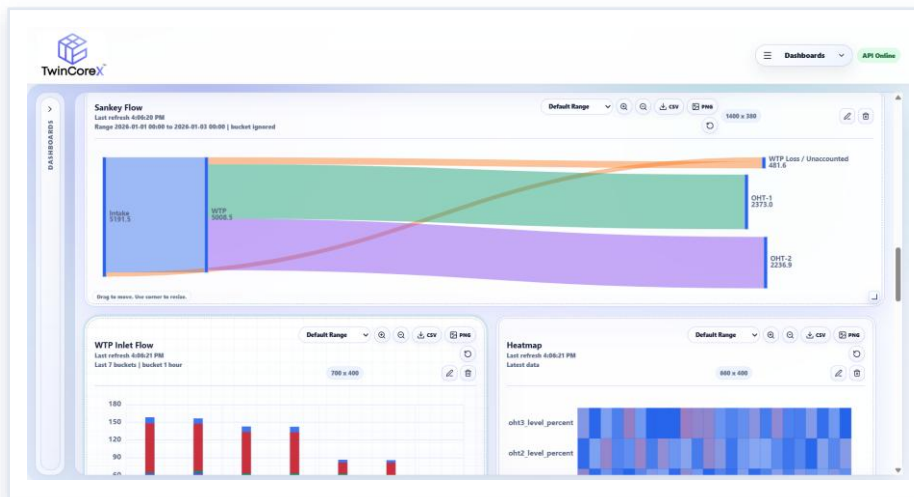
Sankey flow

Heatmaps

Flow analysis

Multi-tag charts

Custom ranges



Configure once, run reports on demand

Define once in the Report Builder, run for any date range, export in any format.



Report Builder

Define datasource, table & bucket for each report.



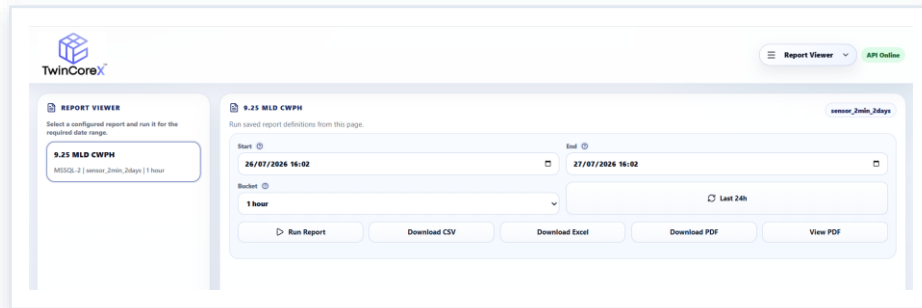
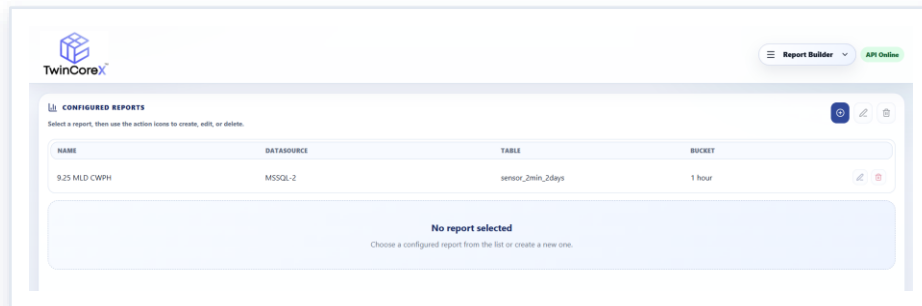
Report Viewer

Run any saved report for a chosen date range.



Export

Download results as CSV, Excel or PDF.



Stream data out to any system

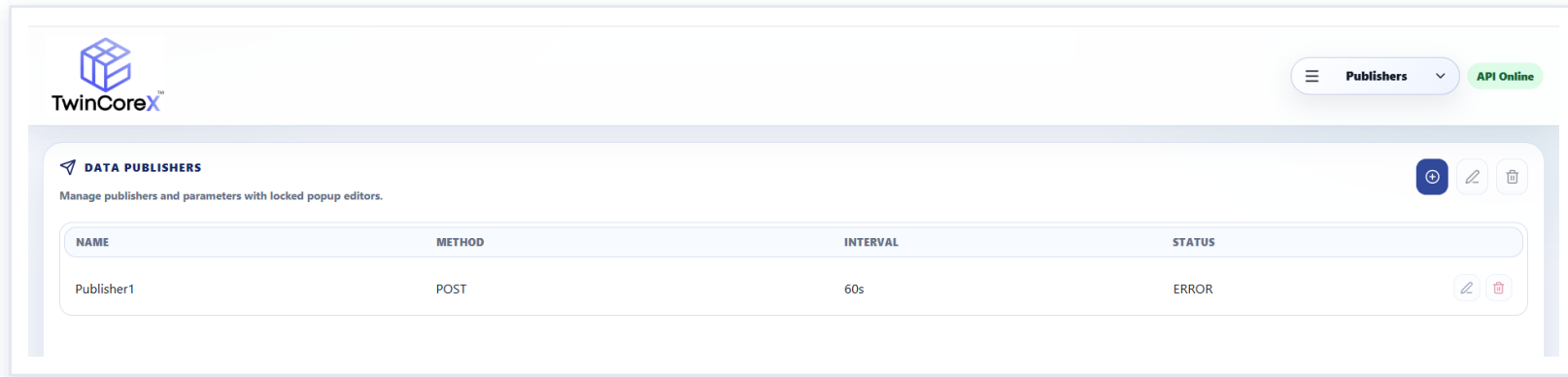
Close the loop by pushing processed data onward. Publishers post to external endpoints and APIs on a defined interval, with parameters and delivery status tracked for every destination.

POST to API

Scheduled interval

Custom parameters

Status tracking



The screenshot shows the 'DATA PUBLISHERS' management interface in the TwinCoreX platform. The interface includes a header with the TwinCoreX logo, a 'Publishers' dropdown menu, and a green 'API Online' status indicator. Below the header, there is a section titled 'DATA PUBLISHERS' with a subtitle 'Manage publishers and parameters with locked popup editors.' and three action icons (add, edit, delete). A table lists the publishers with columns for NAME, METHOD, INTERVAL, and STATUS. The table contains one entry: 'Publisher1' with METHOD 'POST', INTERVAL '60s', and STATUS 'ERROR'. There are also edit and delete icons for this entry.

NAME	METHOD	INTERVAL	STATUS
Publisher1	POST	60s	ERROR

Everything in one connected workspace

Twelve integrated modules span the full data lifecycle — grouped here by what they help you do.



COLLECT

- Communication
- Data Sources
- Database Bridge
- Datalog



MONITOR

- Twin Screen
- Dashboards
- PDF Templates



ANALYZE & PUBLISH

- Report Builder
- Report Viewer
- Publishers

WHERE IT FITS

Built for process-intensive industries

Any operation that runs on sensors, PLCs and SQL data can be modelled and monitored in TwinCoreX.



Water & Utilities

Monitor pumps, flow, levels and pressure across treatment and distribution networks.



Manufacturing

Track machine tags, throughput and alarms on a live plant-floor twin.



Energy & Power

Log time-series signals and analyse consumption and load patterns.



Oil, Gas & Chemicals

Balance mass and flow with Sankey analytics and scheduled reporting.

One system instead of a toolchain



Unified platform

Collection, monitoring, analytics and publishing live together — no integration glue between tools.



Real-time by design

Poll, log and visualise on configurable intervals so decisions are based on current conditions.



Vendor-agnostic connectivity

Standard drivers reach MQTT, Modbus, Siemens and Ethernet/IP devices out of the box.



Own your data

Data lands in your SQL databases with backup, restore and one-way sync you control.



TwinCoreXTM

Build your digital twin — from sensor to insight.

Collect · Monitor · Analyze · Publish

[Request a demo](#)