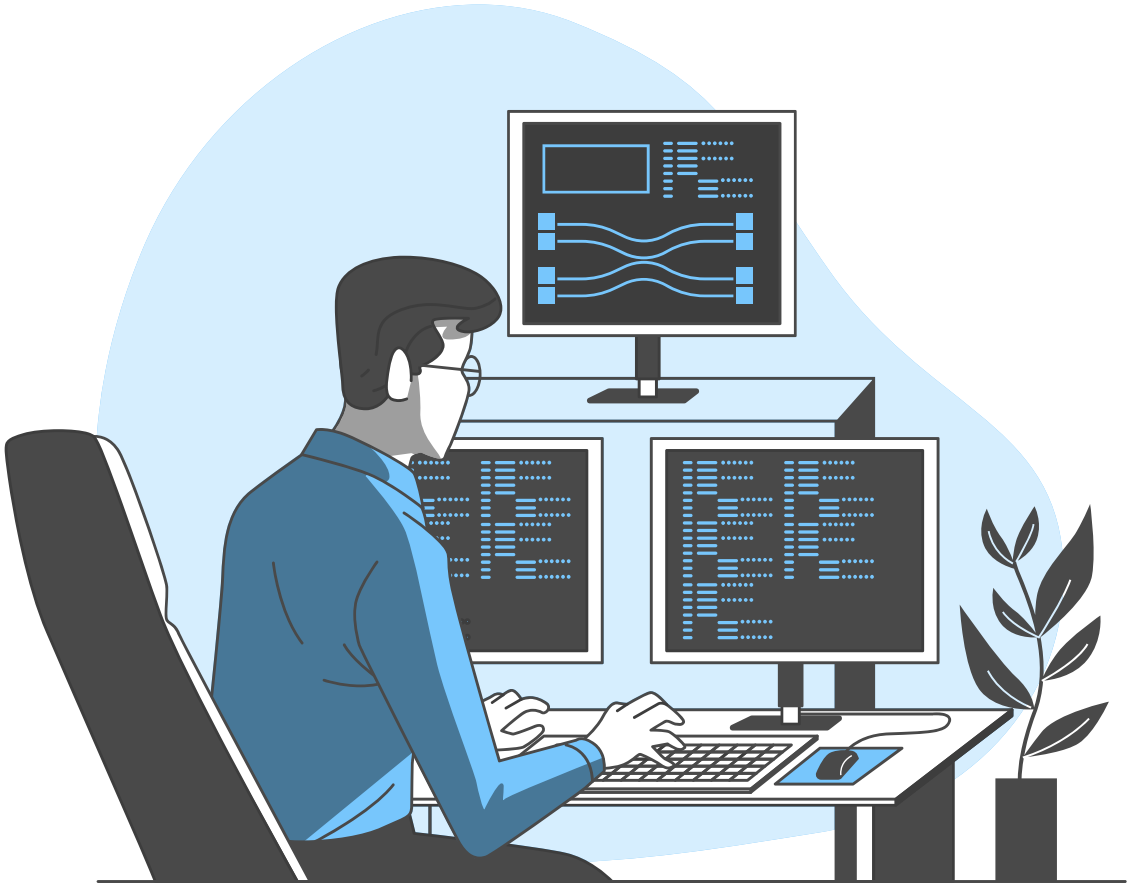
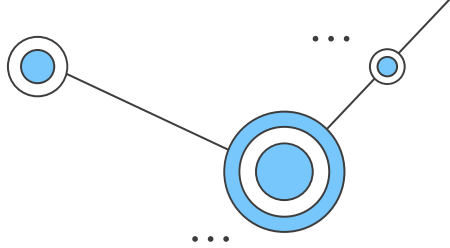


Fanitoring UA IIoT Platform

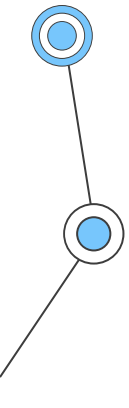
An industrial platform for industrial IIoT solutions.

What Do We Mean By IIoT Platform?



According to industry analysts magazine, an IIoT platform should provide:

1. **Device management** software that connects thousands to hundreds of thousands of sensors, industrial machines and digital systems. IIoT solutions are usually designed to identify failures and facilitate recovery from failure.
2. **Integration** through software development kits, development tools and APIs to support business processes and enterprise systems across the business.
3. **Data management** to control and monitor ingestion, storage, accessibility, flow and
4. **Analytics** of data from connected devices, the enterprise and third parties to reveal patterns and optimization of assets.
5. **Digital twins;** the enablement of and management of applications to simplify configuring and operating connected assets and that enable this.
6. **Security audits** and ensure compliance,
7. **Support for protocols relevant to the industrial domain**, such as OPC (Open Platform Communications) Unified Architecture.
8. **Robustness** in Engineering-level to prevent downtown.
9. **Flexibility** with no-code interfaces, for example, to allow a range of users to access job-specific applications.
10. **Cloud computing**, **edge computing** on-premises deployment.



Our Solutions

01

I/O

Gather data from any device, anywhere.

02

Runtime

Your business metrics and analytics logics.

03

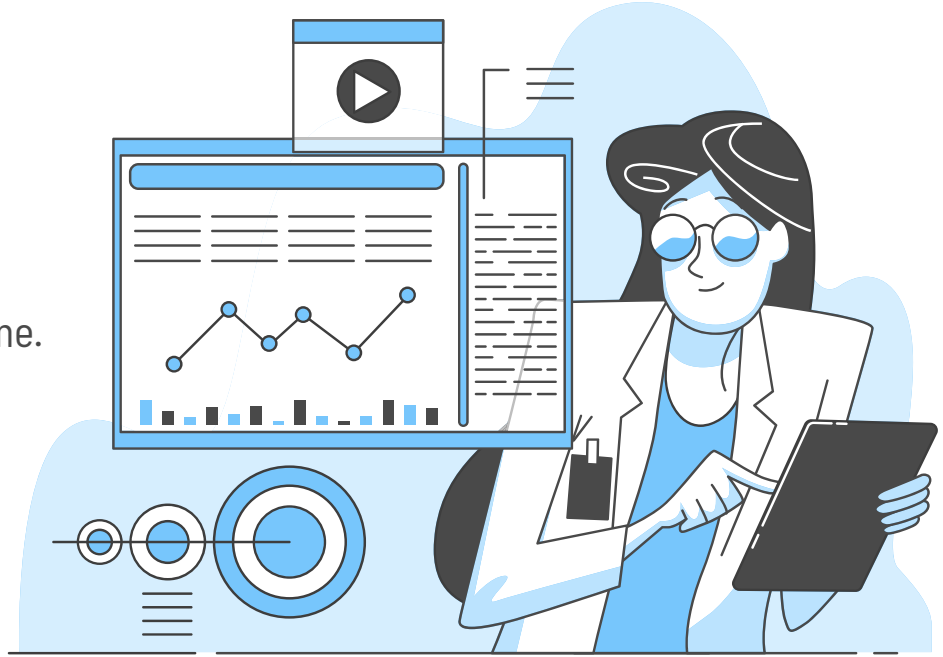
Alarm & Events

Be notified anywhere, anytime.

04

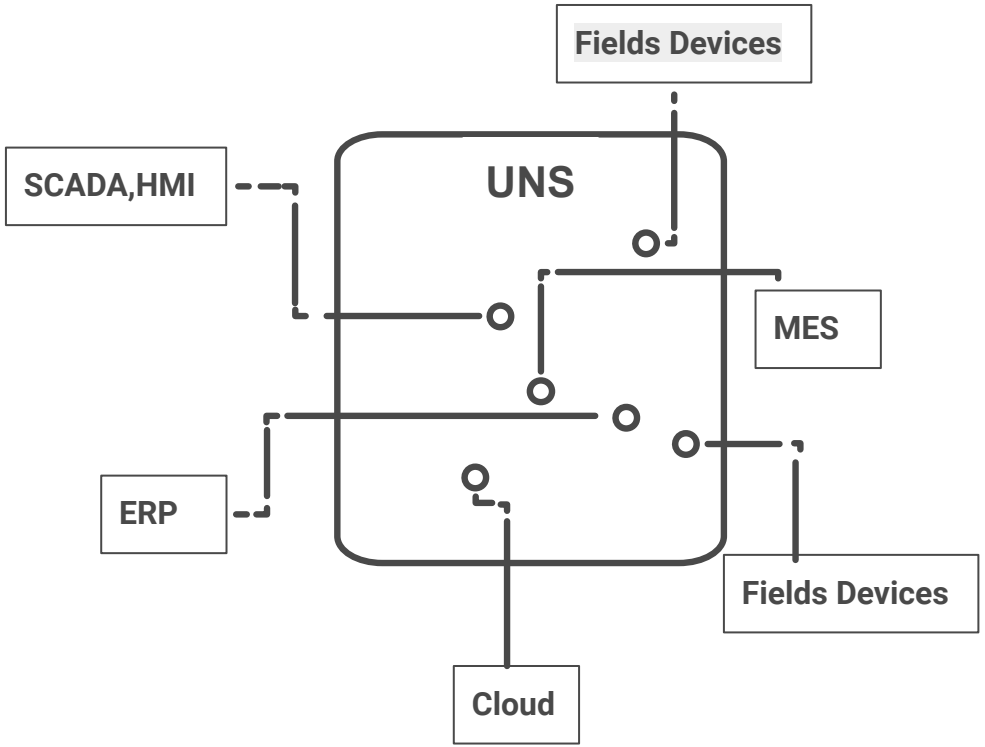
Historian

Collect your data.



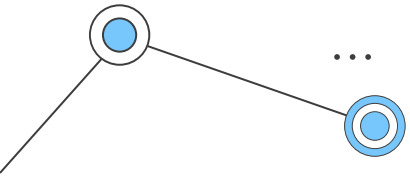
Unified NameSpace

- Centralization
- Standardization
- Security
- Interoperability
- Scalability



01

Protocol Support



Supporting Standards

Ultrafast designed I/O gateway.

Support for various communication protocols.

1.Kafka

2.AMQP

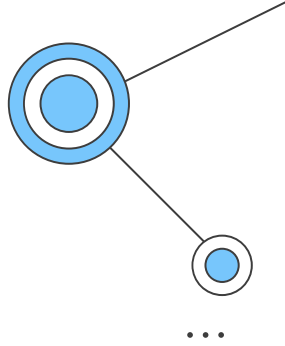
3.MQTT

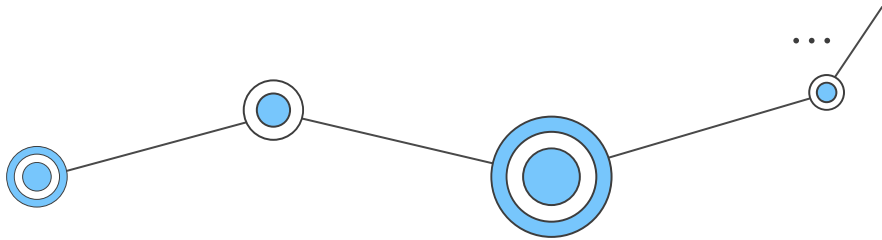
4. HTTP

5. OPC UA

6.S7 Siemens

7.Modbus





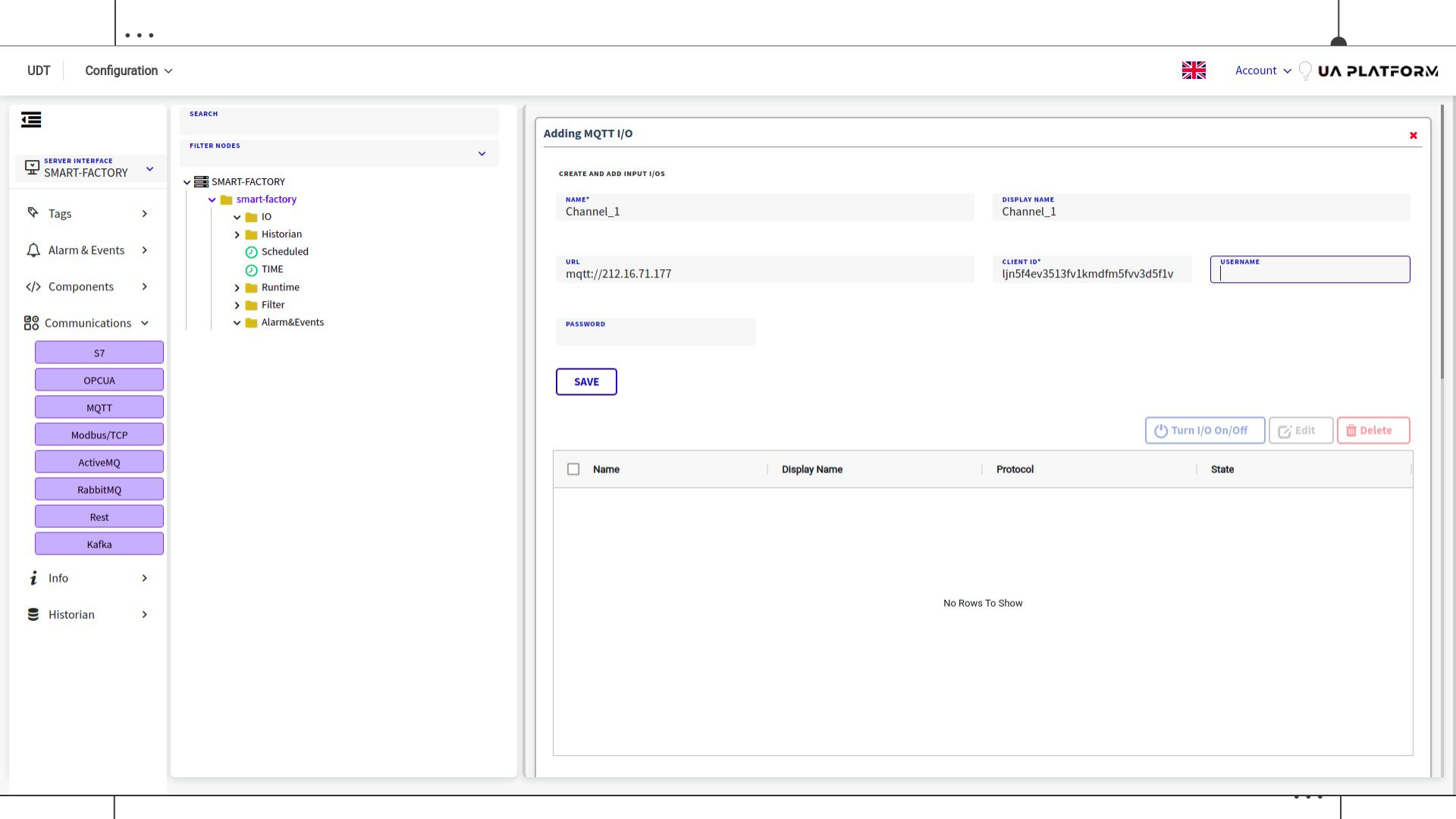
02

Device Management

Manage and secure any API, built anywhere

allows for easy management of devices and I/O. The platform provides a user-friendly interface that makes it easy to configure and manage devices, as well as to map IO to Fanitoring nodes. This feature provides greater visibility into the device state, and enables users to quickly troubleshoot any issues that may arise.

1. **Improved analytics** into device operations and performance
2. Enhanced ability to **detect and respond to issues in real-time**
3. Improved **efficiency in decision-making** and problem-solving


UDT
Configuration
Account
UA PLATFORM
SERVER INTERFACE
SMART-FACTORY
Tags
Alarm & Events
Components
Communications
S7
OPCUA
MQTT
Modbus/TCP
ActiveMQ
RabbitMQ
Rest
Kafka
Info
Historian
SEARCH
FILTER NODES
SMART-FACTORY
smart-factory
IO
Historian
Scheduled
TIME
Runtime
Filter
Alarm&Events
Adding MQTT I/O
CREATE AND ADD INPUT I/OS
NAME*
Channel_1
DISPLAY NAME
Channel_1
URL
mqtt://212.16.71.177
CLIENT ID*
ljn5f4ev3513fv1kmdfm5fvv3d5f1v
USERNAME
PASSWORD
SAVE
Turn I/O On/Off
Edit
Delete
Name
Display Name
Protocol
State
No Rows To Show

03

Digital Twins

Provides a powerful solution for industrial environments by allowing:

- mapping of real-world devices to a virtual representation
- real-time monitoring and optimization of physical assets and systems
- ability to test new designs and configurations in a virtual environment before implementing them

04

Integration

Based On IEC 62541

We provide on-premises or Cloud servers, which supports IEC-62541 standards and offers pre-build scenarios for integrations with other industrial systems.
Examples of these systems are:

- Connect industrial devices and systems to the **OPC UA** server
- Industrial systems such as **SCADA, MES**, ...
- Enterprise applications such as **ERP**
- Create **bi-directional** communication between IO signals and runtime components
- Easily **map IO signals to nodes** in the Factory Tree
- Mix and match IO signals with runtime components for greater control and flexibility

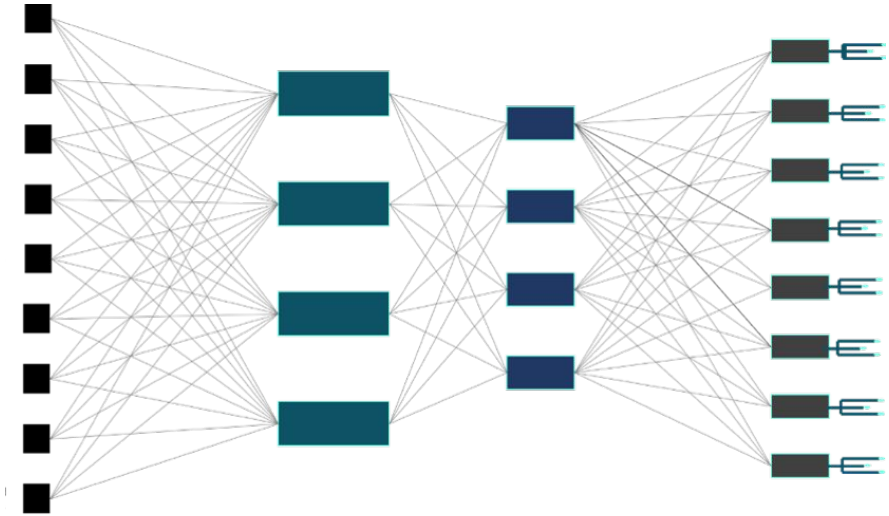
It's built to let you easily manage your business at any level.

05

Chain Servers

Chain Servers

Connect everything and manage what you want.



Scalability

The ability to connect multiple Fanitoring platforms as a single IO device allows for scalable solutions. The organization can start small and then expand as the needs grow, with no restrictions on the number of connected platforms.

Centralized

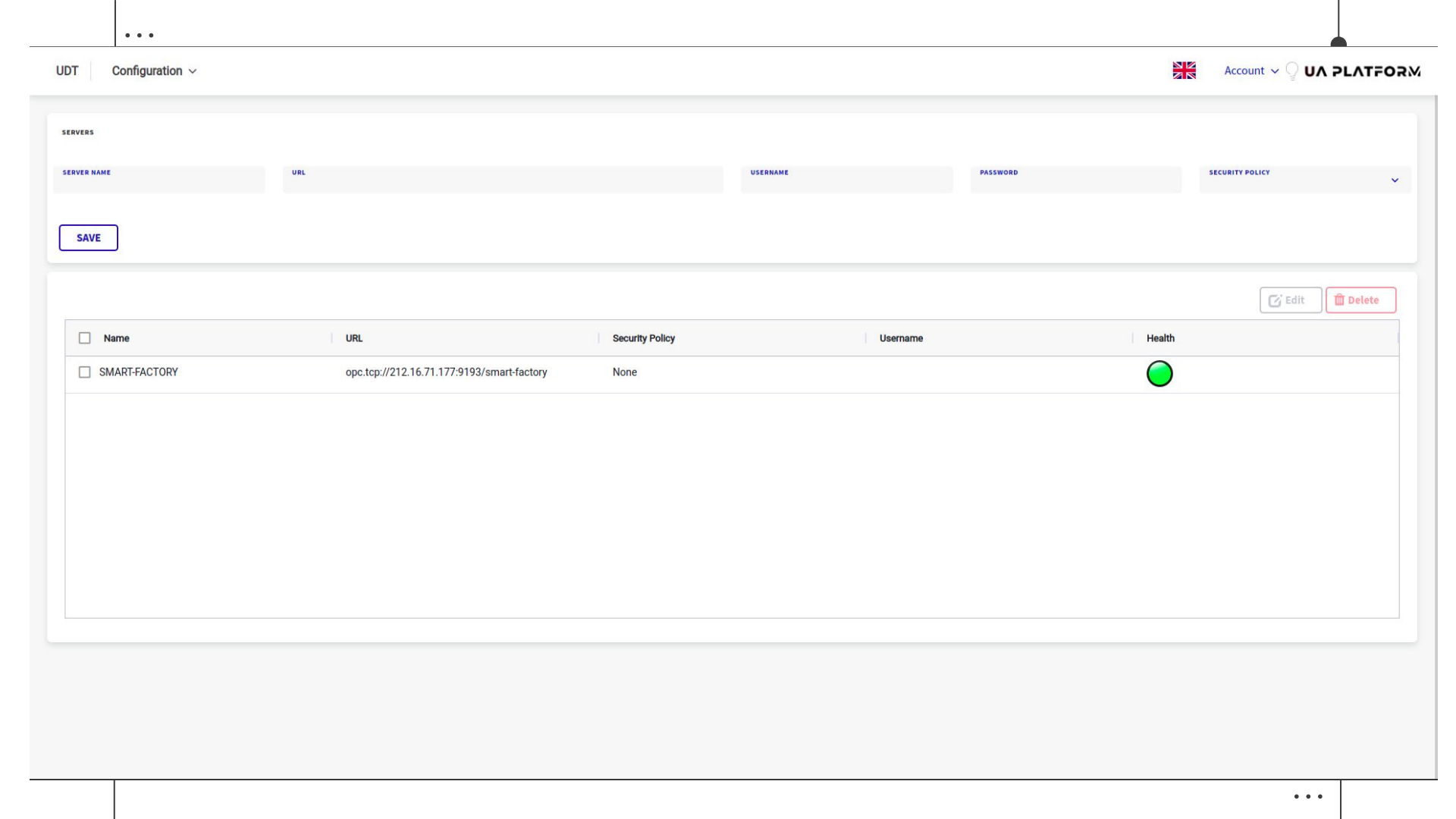
Management: All connected Fanitoring platforms can be managed from a single location, reducing the complexity of managing multiple systems. This allows organizations to simplify their IT/OT landscape, reducing costs and increasing efficiency.

Improved Performance

By connecting multiple Fanitoring platforms, the system performance can be improved. For example, the additional resources provided by the chain servers can be utilized to reduce response times or increase data processing capabilities.

Enhanced Security

The chain servers architecture provides enhanced security, as all data is transmitted between platforms using secure communication protocols. This helps organizations protect their data and systems from unauthorized access and cyber attacks.


UDT
Configuration
Account
UA PLATFORM
SERVERS
SERVER NAME
URL
USERNAME
PASSWORD
SECURITY POLICY
SAVE
Edit
Delete
Name
URL
Security Policy
Username
Health
SMART-FACTORY
opc.tcp://212.16.71.177:9193/smart-factory
None

06

Data management & Analytics

Data Collection and Processing

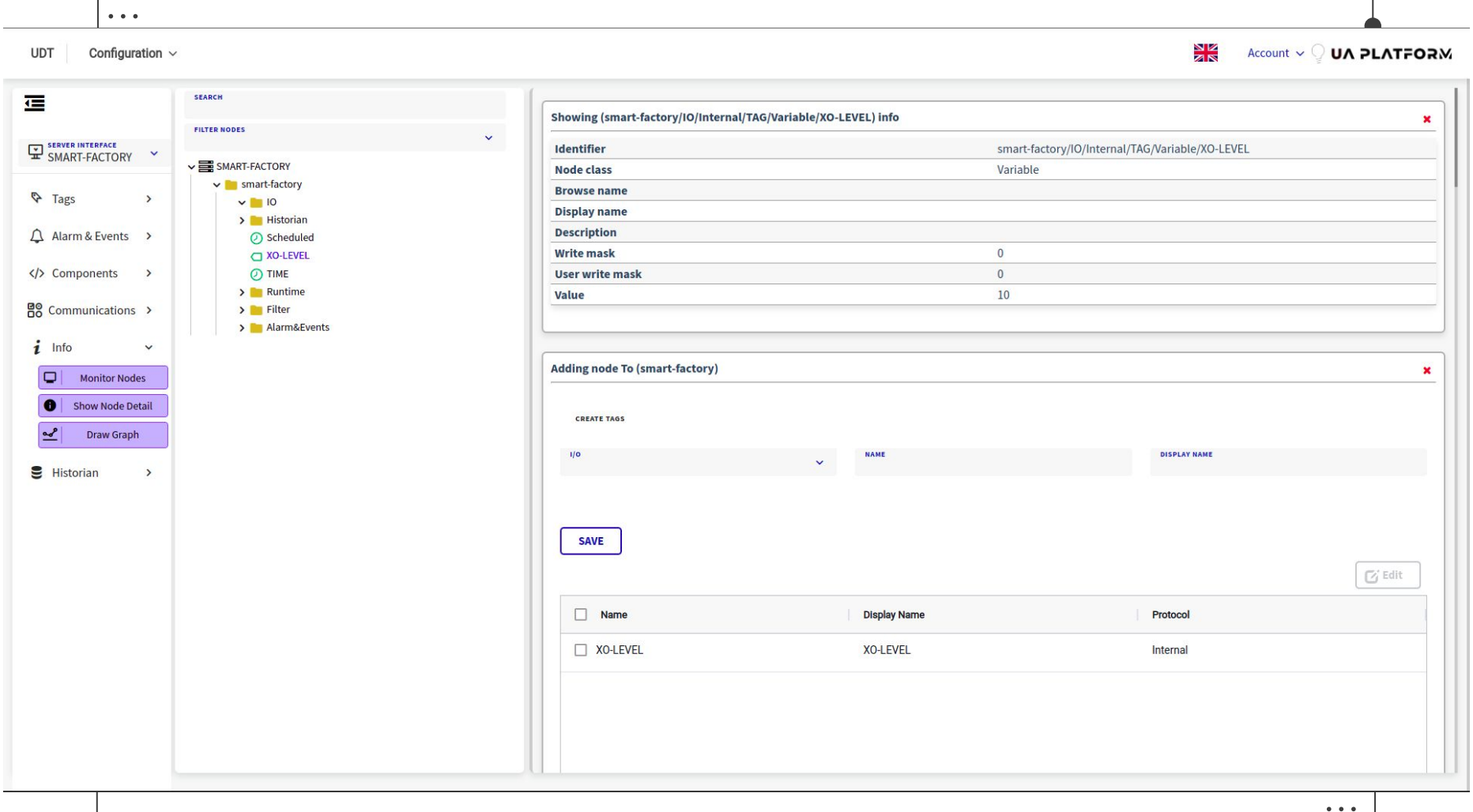
Fanitoring collects data from various industrial and IT devices through supported protocols, such as OPC-UA, MQTT, and others. The collected data is then processed in real-time to identify relevant information and generate actionable insights.

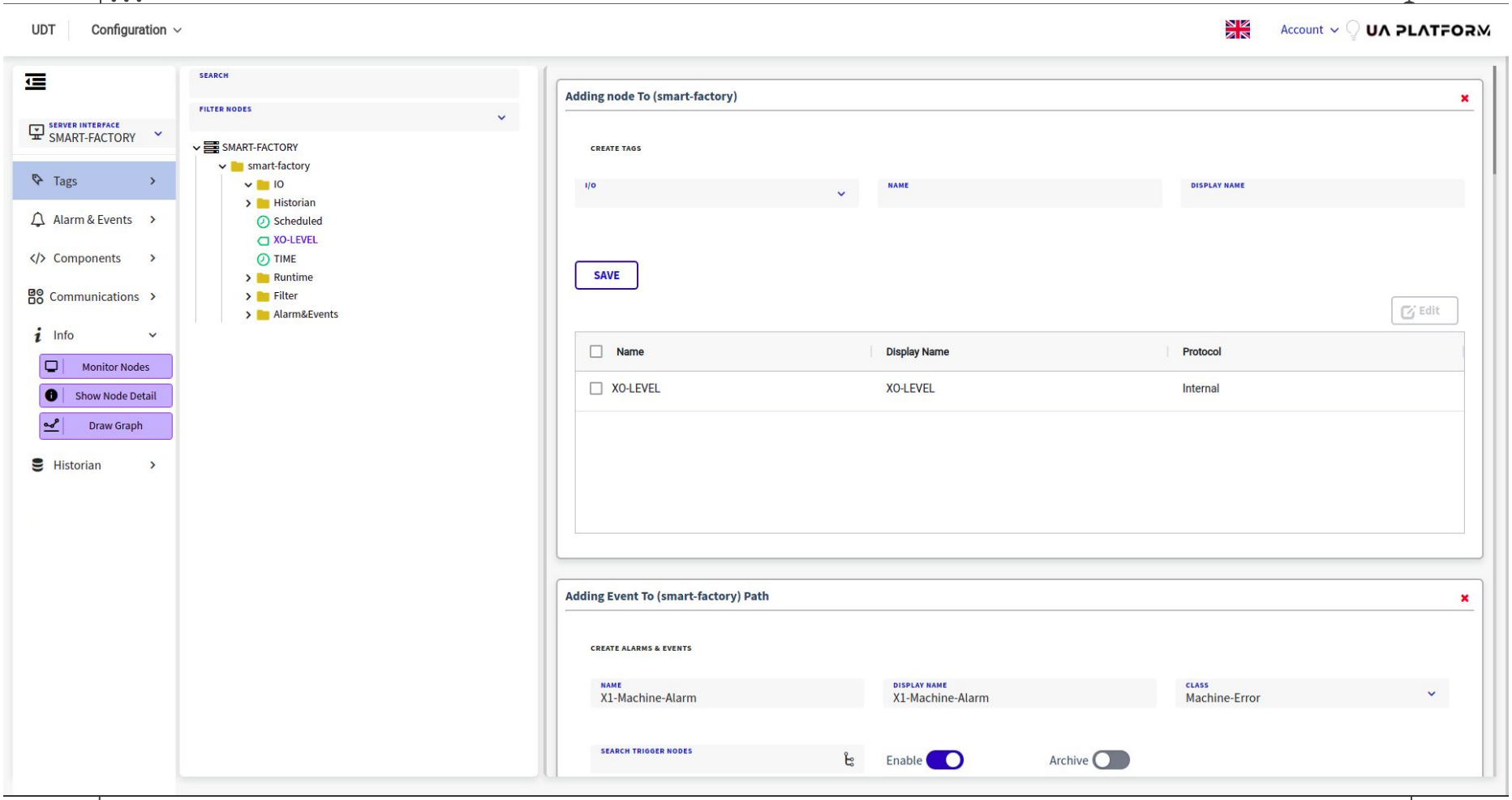
Decision-Making

Fanitoring uses advanced algorithms and data processing techniques to make real-time decisions based on the processed data. These decisions are made in real-time, allowing for quick and accurate responses to changing conditions in the industrial environment.

Real-Time Data Visualization

Fanitoring provides real-time data visualization capabilities, allowing users to easily understand the processed data and make informed decisions. The visualizations are customizable and can be tailored to the specific needs of each user or industrial environment.


UDT
Configuration
Account
UA PLATFORM
SERVER INTERFACE
SMART-FACTORY
Tags
Alarm & Events
Components
Communications
Info
Monitor Nodes
Show Node Detail
Draw Graph
Historian
SEARCH
FILTER NODES
SMART-FACTORY
smart-factory
IO
Historian
Scheduled
XO-LEVEL
TIME
Runtime
Filter
Alarm&Events
Showing (smart-factory/IO/Internal/TAG/Variable/XO-LEVEL) info
Identifier
smart-factory/IO/Internal/TAG/Variable/XO-LEVEL
Node class
Variable
Browse name
Display name
Description
Write mask
0
User write mask
0
Value
10
Adding node To (smart-factory)
CREATE TAGS
I/O
NAME
DISPLAY NAME
SAVE
Edit
Name
Display Name
Protocol
XO-LEVEL
XO-LEVEL
Internal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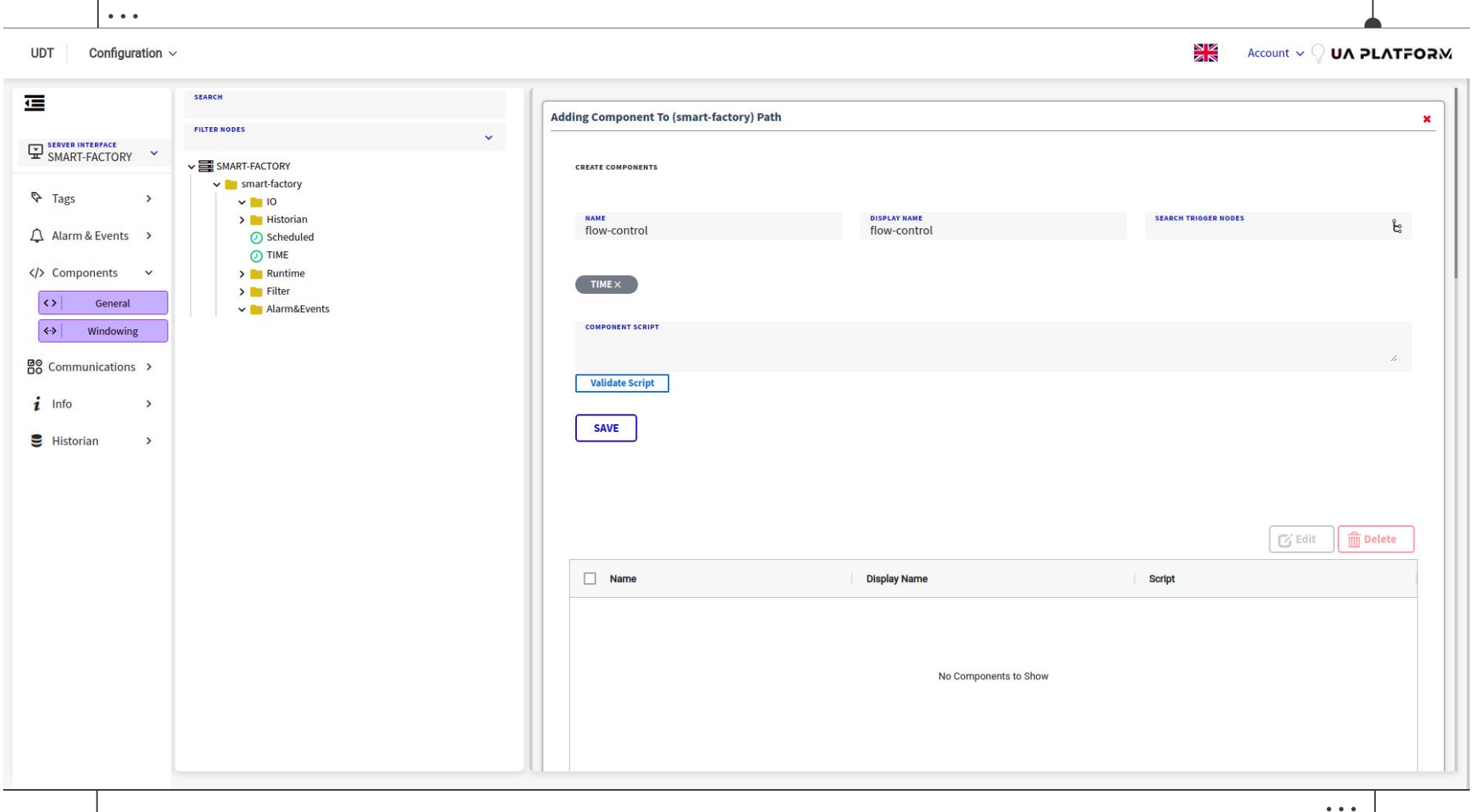
FILTER NODES
SMART-FACTORY
smart-factory
IO
Historian
Scheduled
XO-LEVEL
TIME
Runtime
Filter
Alarm&Events
Adding node To (smart-factory)
CREATE TAGS
I/O
NAME
DISPLAY NAME
SAVE
Edit
Name
Display Name
Protocol
XO-LEVEL
XO-LEVEL
Internal
Adding Event To (smart-factory) Path
CREATE ALARMS & EVENTS
NAME
X1-Machine-Alarm
DISPLAY NAME
X1-Machine-Alarm
CLASS
Machine-Error
SEARCH TRIGGER NODES
Enable
Archive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Components
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Windowing
Communications
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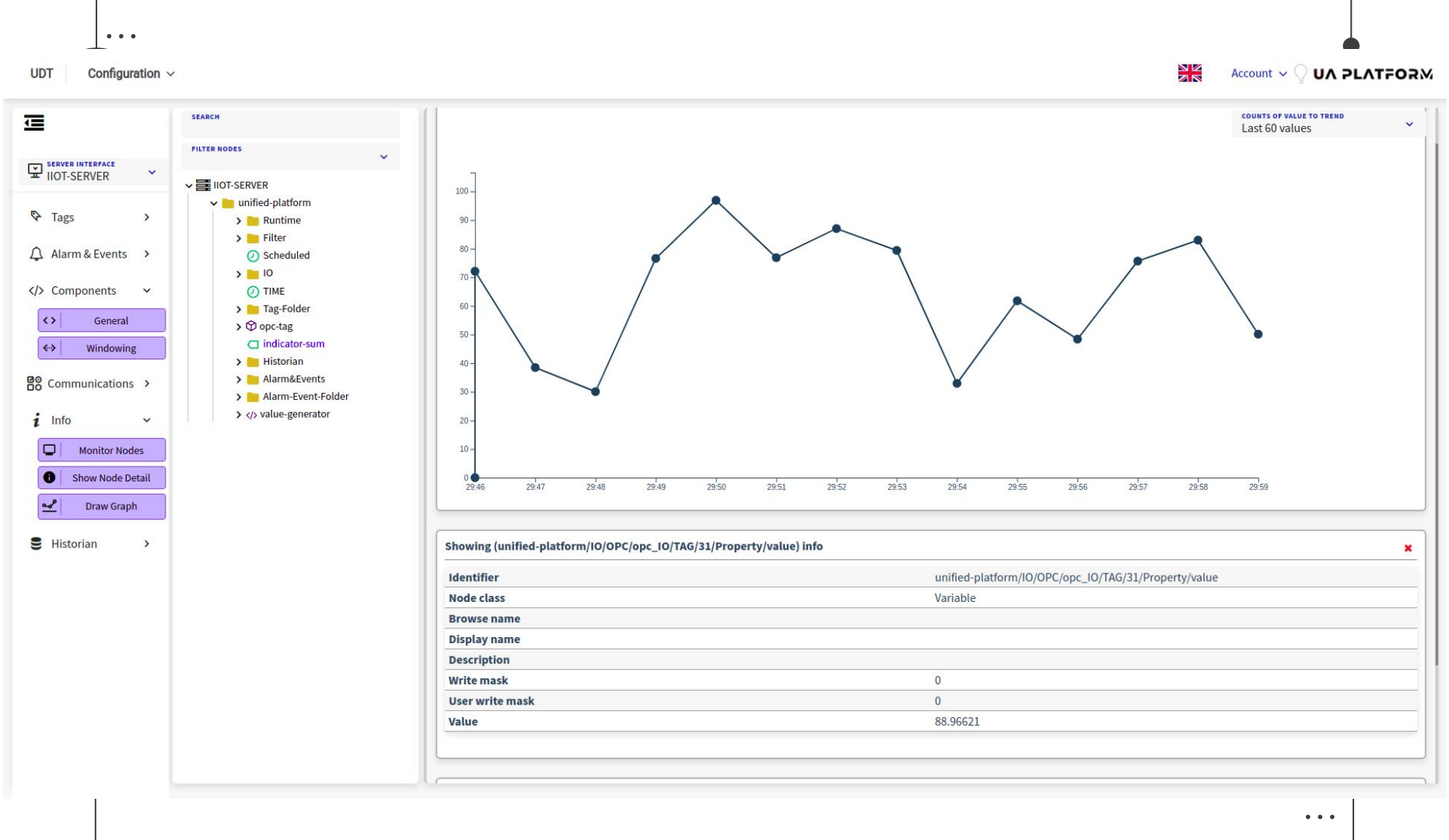
Historian
SEARCH
FILTER NODES
SMART-FACTORY
smart-factory
IO
Historian
Scheduled
TIME
Runtime
Filter
Alarm&Events
Adding Component To (smart-factory) Path
CREATE COMPONENTS
NAME
flow-control
DISPLAY NAME
flow-control
SEARCH TRIGGER NODES
TIME
COMPONENT SCRIPT
Validate Script
SAVE
Edit
Delete
Name
Display Name
Script
No Components to Show


UDT
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UA PLATFORM
SERVER INTERFACE
IIOT-SERVER
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Alarm & Events
Components
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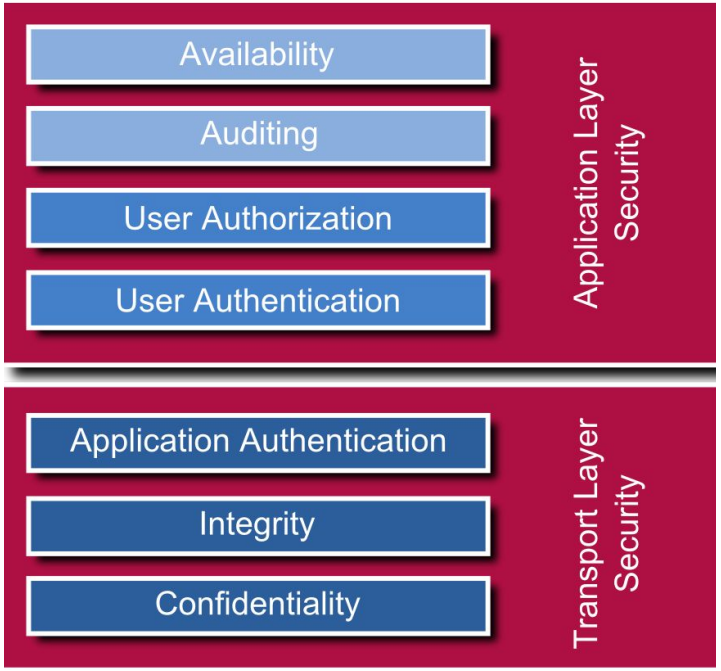
Windowing
Communications
Info
Monitor Nodes
Show Node Detail
Draw Graph
Historian
SEARCH
FILTER NODES
IIOT-SERVER
unified-platform
Runtime
Filter
Scheduled
IO
TIME
Tag-Folder
opc-tag
indicator-sum
Historian
Alarm&Events
Alarm-Event-Folder
value-generator
COUNTS OF VALUE TO TREND
Last 60 values
100
90
80
70
60
50
40
30
20
10
0
29:46
29:47
29:48
29:49
29:50
29:51
29:52
29:53
29:54
29:55
29:56
29:57
29:58
29:59
Showing (unified-platform/IO/OPC/opc_IO/TAG/31/Property/value) info
Identifier
unified-platform/IO/OPC/opc_IO/TAG/31/Property/value
Node class
Variable
Browse name
Display name
Description
Write mask
0
User write mask
0
Value
88.96621

07

Security

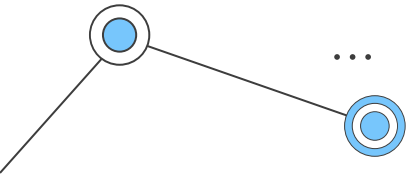
Our **IEC 62541** cybersecurity solutions help to instill cybersecurity rigor into your processes. We offer a suite of cybersecurity testing and certification services for IEC 62541 to fit your security needs and help you:

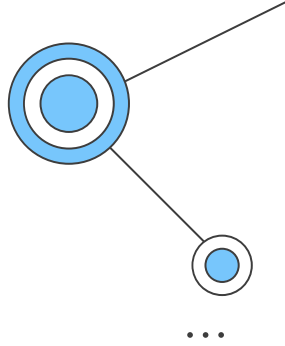
- Assess the security and quality of your products
- Prove to customers that you implemented a required security level efficiently
- Gain a competitive advantage.
- Manage supply chain complexity
- Enhance brand protection.


Availability
Auditing
User Authorization
User Authentication
Application Layer Security
Application Authentication
Integrity
Confidentiality
Transport Layer Security

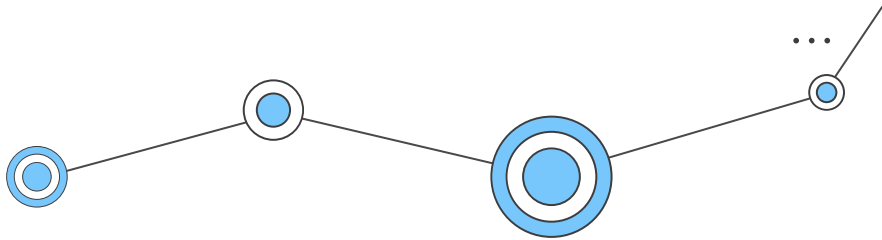
08

Historian





- Design and build APIs and integrations at lightning speed.
- Deploy to any cloud and on-premises with a single runtime.
- Manage and gain real-time visibility and troubleshoot faster using one interface.
- Ensure automated security and threat protection at every layer.



Benefits of Fanitoring Historian

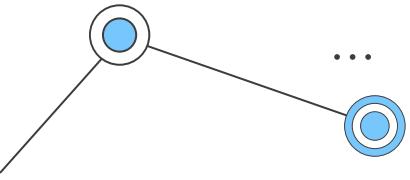
- Store historical data in a centralized location
- Easy access to data for analysis and reporting
- Retrieve historical data in real-time for decision making and troubleshooting
- Keep track of changes and trends over time
- Improved efficiency and productivity

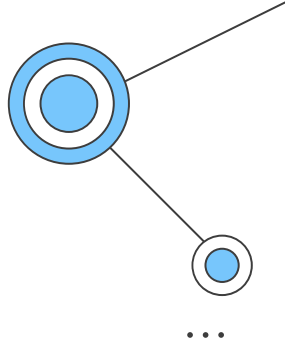
Integrating with 3rd Party Applications

Fanitoring Historian can be integrated with 3rd party applications, such as data visualization tools, to provide a comprehensive solution for real-time data analysis and reporting. By leveraging the historian's data, these tools can provide valuable insights and help make informed decisions.

09

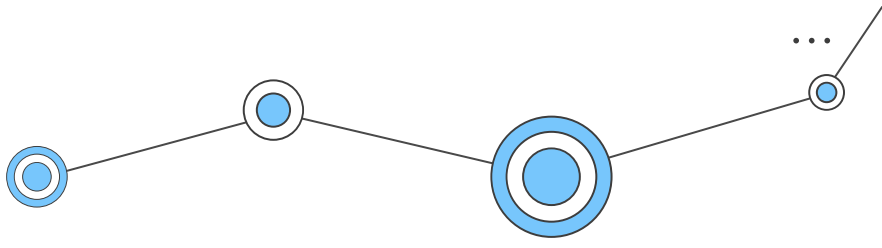
Robustness & Flexibility





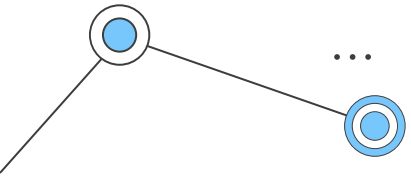
Start solving the most common integration challenges.

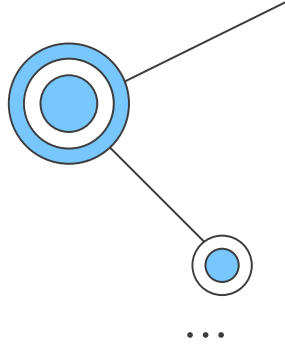
The biggest competitive advantage for organizations are reached when IIoT solutions are **flexible**. Businesses don't want to introduce software that cannot communicate with other packages, especially when difficult to expand. At UA Platform, our most important objective is to make life easy for our customers. We integrate easy-to-use, flexible solutions inside the already existing IT infrastructure.



10

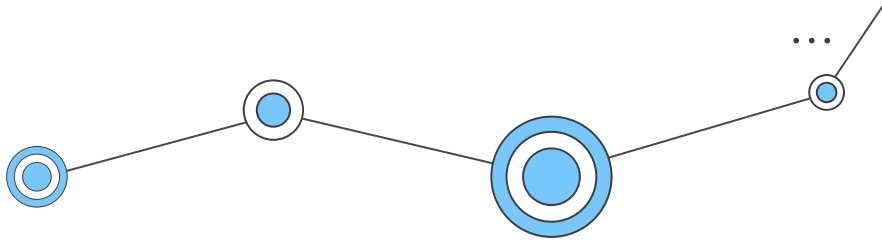
Cloud & Edge computing





Aggregate and orchestrate your data

Deploy Any point Platform's runtime engine as a gateway between IIoT devices to capture or generate data from sensors, back-end applications, and other systems that consume the data. The platform communicates via lightweight protocols, such as Kafka, AMQP and MQTT, and IIoT gateways — allowing you to connect, manage, and analyze data in a scalable manner in **cloud or edge devices**.



Final Words

The industrial world has seen incredible changes over the last few years. Companies are quickly adapting to new and disruptive technologies that are completely changing the manufacturing landscape. The impact of connectivity applied to processes, machinery, and people is shaping the way production is monitored, optimized, and scrutinized.

The ability to access information and act on equipment from any remote location created the need for rethinking how everyday operations are being carried out. **Fanitoring UA IIoT Platform** here to solve these major facts for you.