

Matrikon® OPC UA Server for PROFINET (MDB Adapter)

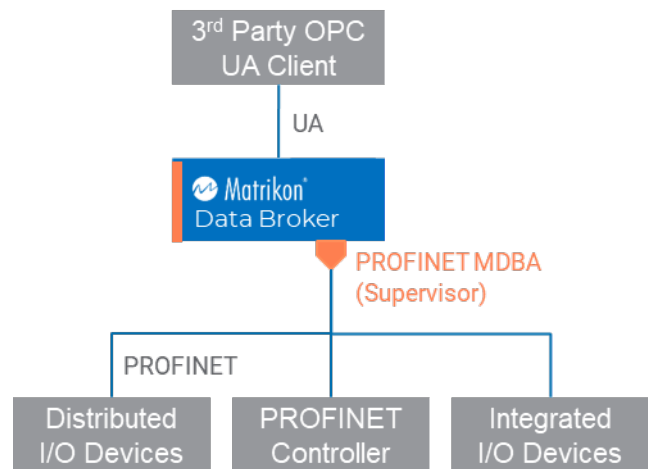
Version 1.0

Seamlessly Integrate PROFINET Network data with Enterprise Systems using Matrikon® MDB Adapter for PROFINET!

Overview

Accessing data from PROFINET networks for higher-level systems in today's complex industrial environments can be challenging. The PROFINET Matrikon Data Broker Adapter (MDBA) solves this problem by providing a robust OPC UA-based solution for integrating PROFINET data into SCADA, MES, and enterprise systems.

The PROFINET MDBA is built on the powerful Matrikon Data Broker (MDB) platform that delivers high performance, scalability, and advanced functionality for enterprise-wide OT data management.



Key Features at-a-glance:

- PROFINET IO Supervisor functionality for comprehensive network oversight.
- Scalable architecture supporting multiple PROFINET networks.
- Intuitive configuration interface.
- Advanced OPC UA security features.
- Automatic device discovery and GSDML file import.
- Seamless integration with Matrikon Data Broker (MDB) ecosystem.

PROFINET Capabilities

- **IO Supervisor Mode:** Monitor and collect data from multiple PROFINET IO-Devices.
- **Cyclic Data Access:** Periodic data collection suitable for SCADA-level monitoring.
- **Acyclic Data Access:** On-demand communication for configuration, diagnostics, and non-time-critical data.

Use Cases

Manufacturing Intelligence

Collect production data from PROFINET-enabled machines for analysis and reporting.

Asset Management

Monitor health and status of PROFINET devices for predictive maintenance.

Quality Control

Gather process parameters from PROFINET networks for quality assurance systems.

Energy Management

Integrate PROFINET-based power monitoring devices with facility management systems.

Improve Data Context

Leverage optional MDB functionality to map PROFINET data into OPC UA objects to better group and contextualize OT data for use throughout the shop floor and the enterprise.

Solution Benefits and Advantages

Simplified Integration

Easily connect PROFINET networks to MES, ERP, or SCADA systems using OPC UA or MQTT via the PROFINET MDBA and broader MDB functionality.

Enhanced Visibility

Access data and diagnostic information from PROFINET devices across your organization.

Standardized Communication

Leverage OPC UA's robust communication model for enterprise-wide data sharing.

Reduced Engineering Time

Automatic device discovery and configuration streamline setup.

Future-Proof Solution

Provide secure, OPC UA-based access to PROFINET data to ensure long-term interoperability.

Maintain Existing Investments

Integrate existing PROFINET networks with modern Industrial Internet of Things (IIoT) initiatives without having to change the underlying PROFINET system.

Product Specifications

System Requirements

Hardware Requirements

- RAM: 8GB
- CPU: 4-core i5 or later
- Storage: 1GB free space minimum

Software Requirements

- MDB v2.3.2
- Microsoft Visual C++2015-2022 Runtime
(Installed by the Adapter installation script)

Supported Operating Systems

- Microsoft Windows 10 (64-bit)
- Microsoft Windows 11
- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022

Supported Standards

OPC Specifications

- OPC Data Access Specification 2.05a
- OPC Data Access Specification 3.00
- OPC UA Specification 1.04

Next Steps

Start Your Digital Transformation Today!

- Download a free 30-day trial of the PROFINET MDBA at matrikonopc.com/PROFINET
- Contact our sales team for a personalized demo at sales@matrikonopc.com
- Learn more about the MDB ecosystem at www.matrikonopc.com/mdb