

Matrikon® OPC UA Server for Ethernet/IP (MDB Adapter)

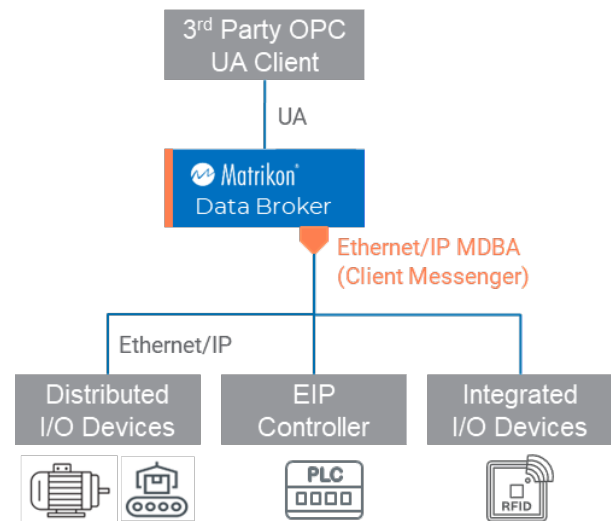
Version 1.0

Seamlessly Integrate Ethernet/IP Devices with the Matrikon Data Broker Adapter for Ethernet/IP (Ethernet/IP MDBA).

Overview

In today's rapidly evolving industrial landscape, seamless integration of Ethernet/IP devices is crucial for maintaining a competitive edge. This Ethernet/IP MDB Adapter is your gateway to effortless connectivity, enabling real-time data exchange between Ethernet/IP devices and your broader OT ecosystem.

The Ethernet/IP 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:

- OPC UA access to native communication with Ethernet/IP devices
- Support for Get/Set Attribute(s) Explicit Messages
- Operates as an EIP client messenger
- EDS file-based device definition and manual mapping for new I/O Modules
- OPC UA compliance for standardized connectivity.
- Built on scalable Matrikon Data Broker (MDB) data technology
- Remote MDB-based configuration
- Advanced data security features

Use Cases

Manufacturing Intelligence

Centralize data from multiple Ethernet/IP sources for analytics and reporting.

Asset Management

Monitor the health and status of Ethernet/IP devices for predictive maintenance.

Quality Control

Gather process parameters from Ethernet/IP networks for quality assurance systems.

Energy Management

Integrate Ethernet/IP-based power monitoring devices with facility management systems.

Improve Data Context

Leverage optional MDB functionality to map Ethernet/IP 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 access OT data from Ethernet/IP networks in MES, ERP, or SCADA systems using OPC UA or MQTT using the Ethernet/IP MDBA and MDB functionality.

Enhanced Data Visibility

Access real-time and on-demand SCADA data from Ethernet/IP devices across your organization.

Standardized Communication

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

Improved Security

Leveraging the security built into this Ethernet/IP MDBA, MDB data technology in general, and the OPC UA standard helps minimize potential risks associated with

making Ethernet/IP data accessible to the broader enterprise.

Reduced Engineering Time

Automatic device discovery and configuration streamline setup.

Future-Proof Solution

Provide secure, OPC UA-based access to Ethernet/IP data to ensure long-term interoperability.

Maintain Existing Investments

Access existing Ethernet/IP network data in modern Industry 4.0 and Industrial Internet of Things (IIoT) initiatives without having to change the underlying Ethernet/IP components.

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 Ethernet/IP MDBA at www.matrikonopc.com/EthernetIP
- Contact our sales team for a personalized demo at sales@matrikonopc.com
- Learn more about the MDB ecosystem at www.matrikonopc.com/mdb