The MatrikonOPC Universal PLC Server is a single OPC Server that provides connectivity to multiple devices, protocols and APIs. MatrikonOPC Universal PLC Server offers a wide range of plug-ins to support the most popular PLC protocols enabling connectivity between different vendors’ systems. MatrikonOPC Universal PLC Server plug-ins include:

- Allen Bradley PLCs UCS Plug-in
- GE Fanuc PLCs UCS Plug-in
- Mitsubishi PLCs UCS Plug-in
- Modicon (Modbus) PLCs UCS Plug-in
- OMRON PLCs UCS Plug-in
- Siemens S7 PLCs UCS Plug-in

Your PLC Data Source for Experion HS. The Universal PLC Server enables Experion® HS to connect to the most popular PLC brands. Browsable tag discovery, native source identification and efficient runtime data access all make this the best way to bring PLC information into Experion HS. Use this PLC data in Experion displays, trends, group displays, faceplates, etc. It offers an ideal user experience with user configurable tags, simply multiple devices management, tag level security, device level redundancy and more.
Advanced MatrikonOPC Server Functions

Advanced functions make OPC integration easier, allowing MatrikonOPC’s latest servers to better process data and make OPC solutions more secure and reliable. MatrikonOPC Server advanced functionality consists of a collection of components engineered to work together in various combinations depending upon each MatrikonOPC server’s requirements.

Works with Your Systems

- Works with Experion HS or Experion LS and virtually any 3rd party PLC device

Features

- Full integration of classic OPC specifications: OPC DA, HDA, A&E
- OPC UA support with integrated Address Space
- Integrated per-user, per-item level security*
- Built-in device level redundancy
- Advanced calculation engine
- Off-line simulation mode
- Extensive suite of plug-ins available for devices, protocols and APIs
- OPC Client plug-in*  
  *Optional

Supported OPC Specifications

- OPC A&E (OPC Alarms and Events) 1.1
- OPC DA (OPC Data Access) 1.0a
- OPC DA (OPC Data Access) 2.0
- OPC DA (OPC Data Access) 2.05a
- OPC DA (OPC Data Access) 3.0
- OPC HDA (OPC Historical Data Access) 1.1
- OPC HDA (OPC Historical Data Access) 1.2
- OPC Security 1.00
- OPC Unified Architecture
**OPC Security:** Native support for the OPC Foundation's OPC Security specification is crucial for implementing secure OPC architectures. Instead of relying on global, DCOM based, "all-or-nothing" OPC data access permissions, this function offers complete control over item browsing, adding, reading, and writing - on a per-user-per-item basis. Granular control over data access helps prevent accidental or intentional un-authorized OPC data access. This role based security adds another layer to a systems overall defense-in-depth strategy.

**Device Communication Redundancy:** Maximize OPC data reliability by enabling the OPC Server to access multiple data sources in a redundant fashion without the need for specialized hardware and/or additional custom software.

**Data Calculations:** MatrikonOPC servers allow processing of raw OPC item data on the OPC Server side. Using a variety of math functions, constants, and equations – MatrikonOPC servers help reduce OPC client side computing requirements and network traffic volume by performing data conditioning right on the OPC Server side.

**Alarms and Events:** MatrikonOPC’s Server enables users to trigger alarms and events based on the OPC item's value. Also, alarms and events can be triggered based on the calculated value of pre-processed items using the powerful calculation engine. The MatrikonOPC’s Advanced Framework enables client filtering by event type, severity, and category and is OPC compliant.

**Maximum Interoperability:** Strict adherence to the OPC Foundation's OPC DA, OPC HDA, and OPC A&E specifications. Backwards compatible and compliancy-tested, MatrikonOPC servers strictly adhere to the OPC Foundation's specifications to ensure maximum interoperability with other supplier’s OPC products.

**Offline Mode:** Developed to aid system integration, this functionality simplifies OPC Server configuration by allowing OPC Clients to access data from all configured OPC items even when the underlying data source is not available. For example, during plant commissioning, instead of delaying HMI graphic screen testing until the end of the project when all the OPC Servers’ data sources are available, these tests can now be run at any time using the Offline Mode random test data.

**User-Defined Tag Names:** Enables the creation of virtual OPC items on any MatrikonOPC server. Whether used for testing or for user-defined status indicators, MatrikonOPC Aliasing extends all MatrikonOPC servers to work with user-configured OPC items.

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**More Information**
For more information on using MatrikonOPC solutions with Honeywell products, visit [www.honeywellprocess.com](http://www.honeywellprocess.com), or contact your Honeywell account manager.

For more information on MatrikonOPC’s Universal PLC Server, visit [www.matrikonopc.com](http://www.matrikonopc.com)

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