

Wonderware ArchestrA Universal Building Automation Server

Use the Wonderware ArchestrA Universal Building Automation Server to enable Wonderware applications to communicate natively with a broad range of Building Automation data sources. With built in SuiteLink and OPC connectivity to ArchestrA and native support for today's most popular building automation protocols – this server makes it easier than ever to use Wonderware applications in Building Management System integration projects.

Benefits and features:

- Native SuiteLink support for easy System Platform communication
- Direct integration with Wonderware ArchestrA Configuration Console for simplified configuration and maintenance.
- Enables WW ArchestrA to connect to 3rd party OPC Servers via its built-in OPC Client plug-in.
- Full support for OPC Classic specifications: OPC DA, HDA, A&E and OPC UA
- Superior OPC security down to the per-user-per-item level to protect your BA data sources
- Built-in device level redundancy for maximum reliability.
- Advanced calculation engine for complex control system operations.
- Off-line simulation mode.

Building Automation Protocols supported:

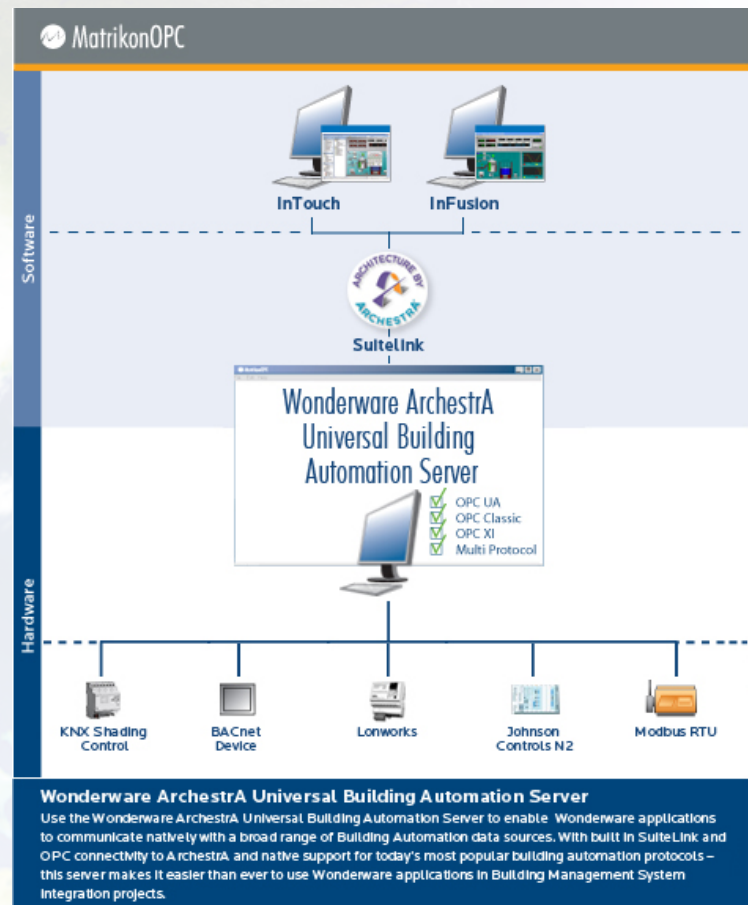
- [UCS Plug-in for BACnet](#)
- [UCS Plug-in for Johnson Controls N1](#)
- [UCS Plug-in for Johnson Controls N2](#)
- [UCS Plug-in for KNX](#)
- [UCS Plug-in for LonWorks](#)
- [UCS Plug-in for Modbus](#)

Built to support Wonderware users' future needs, the Wonderware ArchestrA Universal Building Automation Server allows WW users to quickly expand their connectivity by adding the support for more protocols to their ArchestrA system via standard UCS plug-ins. This ensures that WW users have an unmatched and the best connectivity experience with a wide range of systems.

MatrikonOPC is a Wonderware Certified Software Partner since 2008. MatrikonOPC and Wonderware work closely to maximize the value delivered to the end-users by providing secure, reliable, and intuitive products that fit customers' needs.

OPC Specifications

- OPC A&E (OPC Alarms and Events) 1.0, 1.01, 1.1
- OPC DA (OPC Data Access) 1.0a, 2.0, 2.05a, 3.0
- OPC HDA (OPC Historical Data Access) 1.0, 1.1, 1.2
- OPC Security 1.00
- OPC Unified Architecture 1.01

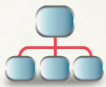


Advanced MatrikonOPC Server Functions

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 on each MatrikonOPC server's requirements.



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 fully compliance tested, MatrikonOPC servers strictly adhere to the OPC Foundation's specifications to ensure maximum interoperability with other vendor'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 - such 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.

