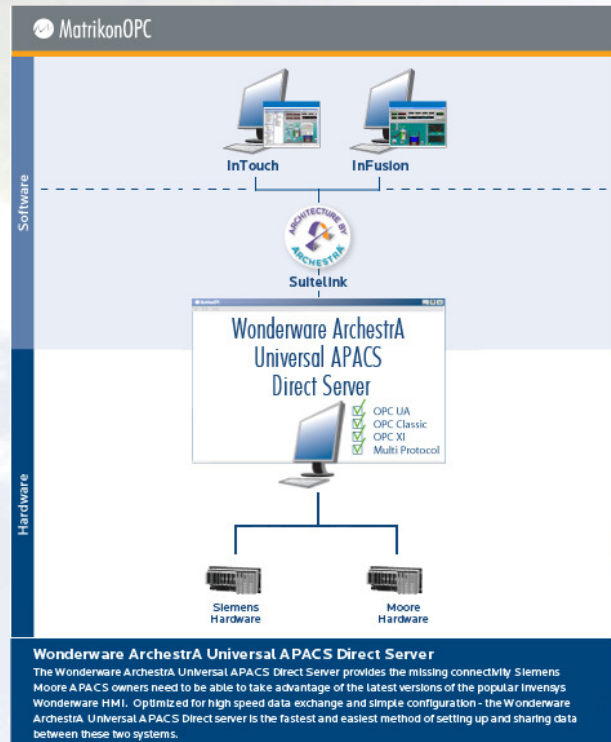# Wonderware ArchestrA Universal APACS Direct Server

The Wonderware ArchestrA Universal APACS Direct Server provides the missing connectivity Siemens Moore APACS owners need to be able to take advantage of the latest versions of the popular Invensys Wonderware HMI. Optimized for high speed data exchange and simple configuration - the Wonderware ArchestrA Universal APACS Direct server is the fastest and easiest method of setting up and sharing data between these two systems.

Unlike the APACS API which is still sold but no longer maintained and which does not support Windows versions beyond Windows 2003 - the *Wonderware ArchestrA Universal APACS Direct server* supports all the versions of Windows needed to run the latest versions of the Wonderware HMI, supports virtualization, and includes expert MatrikonOPC support available 24/7 around the world- Key factors for APACS owners and project teams to consider when looking to reduce project risks.

With built in SuiteLink and OPC connectivity to ArchestrA, this OPC Server delivers the high speed data performance often required for DCS migration or console replacement projects. In addition, the *Wonderware ArchestrA Universal APACS Direct Server* automatically finds all Siemens Moore MBUS/MNET interfaces over Ethernet and sets up connections for them – making it easier than ever to use Wonderware applications together with the APACS DCS.

Wonderware ArchestrA Universal APACS Direct Server
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Benefits and features:

- Native SuiteLink support for easy System Platform communication
- Direct integration with Wonderware ArchestrA Configuration Console for simplified configuration and maintenance.
- Throttling options at the APACS resource level
- Advanced error recovery based on the OPC Quality for OPC Items
- Advanced OPC Quality display customization for better decision making.
- Supports standard Siemens Moore tag syntax making migration easy
- Get timestamps direct from the device or from the local PC - your choice
- With multiple NIM's, supports load-balancing and redundancy
- Persistent OPC Server tag address space for fast tag additions
- Auto detection or manual addition of NIM's
- Can be used as part of a replacement for Aimax HMI
- OPC Client plug-in (optional).
- Supports Windows 2000, 2003, XP, 2008 and Windows 7
- Supports Windows 32-bit and 64-bit
- OPC UA support with integrated Address Space.
- 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

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- Superior OPC security down to the per-user-per-item level to protect your DCS data sources.*
- Built-in device level redundancy for maximum reliability.
- Advanced calculation engine for complex control system operations.
- Off-line simulation

Built to support Wonderware users' future needs, the Wonderware ArchestrA Universal APACS Direct 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.
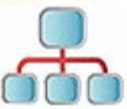
Advanced MatrikonOPC Server Functions

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.

Wonderware ArchestrA
Universal APACS Direct Server

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 compliancy 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.

The Wonderware ArchestrA Universal APACS Direct Server is OPC Certified!
OPC Certification is the process of ensuring that applications meet the standards specified by the OPC Foundation. OPC Certification requires extensive testing to ensure true interoperability. OPC Certification means multi-vendor system interoperability is guaranteed. If your OPC products are not certified, you need to ask your vendor what sort of guarantees they offer.

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