

Product Information Note

Experion OPC Overview



The openness of OPC combined with the advanced functionality and robustness of Experion. **Experion® PKS – The Knowledge to Make it Possible.**

OPC is dedicated to ensuring interoperability in automation by creating and maintaining open specifications that standardize the communication of acquired process data, alarm and event records, historical data, and batch data to multi-vendor enterprise systems and between production devices.

Honeywell is a board member on the OPC Foundation and has an extensive range of OPC capabilities across the product portfolio particularly in Experion. MatrikonOPC is an independently run Honeywell business that is also a member of the OPC Foundation and the largest supplier of OPC products globally. The combination of Experion OPC capabilities and MatrikonOPC creates a powerful OPC solution suite that:

- Solves the broadest range of connectivity problems
- Provides the most mature OPC Clients and Servers
- Is supported by the largest team of OPC experts globally

Experion provides the most comprehensive suite of integrated OPC capabilities

Experion provides a range of Clients and Servers to meet your Data Access, Alarm & Event, and History open connectivity needs including

- OPC Data Access Clients
- OPC Alarm & Event Client
- OPC Data Access, Alarm & Event and History Data Access Servers
- An OPC double headed Data Access Client for bridging two or more OPC Servers together.
- Redundancy support for OPC Data Access, History Data Access plus Alarms and Events.

OPC Clients

OPC Data Access Clients

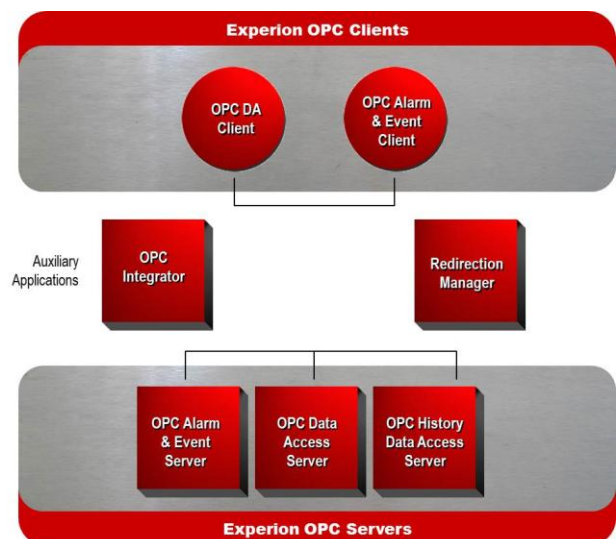
Experion's OPC Data Access clients are designed to integrate data originating from simple RTU devices up to more complex and data rich DCS systems.

- Generate alarms for devices that have no native Alarm & Event capability.
- Easily take advantage of Experion standard functions such as pre-configured trends, groups, history collection, scripting and reporting.

OPC Alarm & Event Client

Experion's Alarm and Event (A&E) Client allows third party OPC A&E data to be integrated seamlessly into the Experion A&E management system. This provides a central, consolidated window for operators to view native Experion A&E data along with A&E information that is coming from other sources.

- Integrate third party events directly into the Event, Message, SOE or Alert summaries.
- Supports Simple and Tracking OPC event types.
- Ability to map OPC Areas into Experion Assets.



OPC Servers

OPC Data Access Server

The Experion OPC Data Access Server provides OPC Data Access Clients with the capability to view Experion point data for the purposes of control and plant-wide historization.

- Supports multiple OPC Server instances for improved reliability
- OPC Browsing of the entire Experion namespace.
- Ability to secure access to the OPC Data Access Server and control read and write permissions.

OPC Alarm & Event Server

The OPC Alarm and Event Server is a simple and convenient mechanism for publishing Experion Alarms and Events to client applications. Provides a rich range of different Experion Alarm and Event data in an efficient manner.

- Browse Interface is supported allowing all OPC Alarm & Event Client to browse the Experion asset structure.
- Support for all Experion Alarm & Event types.

OPC History Data Access Server

The OPC History Data Access Server presents Experion History data in an open manner to client applications. Whether archived or online, the Experion OPC History Data Access Server is able to retrieve and publish data in a timely and efficient fashion. A powerful range of aggregate functions are provided to reduce processing load on the client.

- Fast and efficient access to Experion Historical data.
- Seamless access to archived data.

OPC Utilities

OPC Integrator

OPC Integrator is a double headed client that allows bi-directional data transfer between two or more OPC Data Access Servers for the purposes of supervisory monitoring, alarming and control. As a fully integrated part of Experion, it provides integrated diagnostic, configuration and operational experiences that are consistent with other Experion operations.

- Fully integrated with Experion including engineering, diagnostics, security and runtime functions that are all integrated within the Experion HMI.
- Fully redundant operation
- Bulk item import and export utilities

Redirection Manager

Redirection Manager (RDM) provides OPC Server redundancy to OPC Data Access, Alarm & Event and History Data Access Clients that may not support this capability by transparently

redirecting client requests to a secondary OPC Server when the primary OPC Server is unavailable.

- Supports active/active redundancy which simultaneously builds items and groups on both the primary and backup OPC Servers allowing for very fast failover in the event of a primary OPC Server failure.

OPC UA

The OPC UA or Unified Architecture is the latest standard from the OPC Foundation. Both Honeywell Process Solutions and MatrikonOPC have been contributors to this standard that seeks to provide next generation connectivity that is more reliable, secure and provides better cross platform support. Most importantly, UA seeks to bring together all of the different data types that have been traditionally handled as different standards.

Honeywell and MatrikonOPC are initially providing data access support to Experion using OPC UA, with additional data types coming in the future.



MatrikonOPC provides equipment data connectivity software based on the OPC standard. The MatrikonOPC promise is to empower customers with reliable data access to all major automation vendors' systems, provide practical OPC training and deliver superior client care.

They provide connectivity to every major control system and application on the market. With more than 500 OPC products and over 100,000 installations worldwide their experience is second to none.

Consulting Capabilities

MatrikonOPC has the people and expertise to help engage with you directly to solve your connectivity challenges. Capable of supporting any companies' global operation, we have the resources and knowledge required to solve any OPC related problem. No other company has OPC implementation services as a core competency.

Global Presence

Having a global presence enables MatrikonOPC to react quickly to customer problems in the customer's time zone. MatrikonOPC has a depth of engineering knowledge and the expertise in designing and implementing advanced OPC-centric data architectures. With offices throughout North America, Australia, Europe and the Middle East, MatrikonOPC's reach is global.

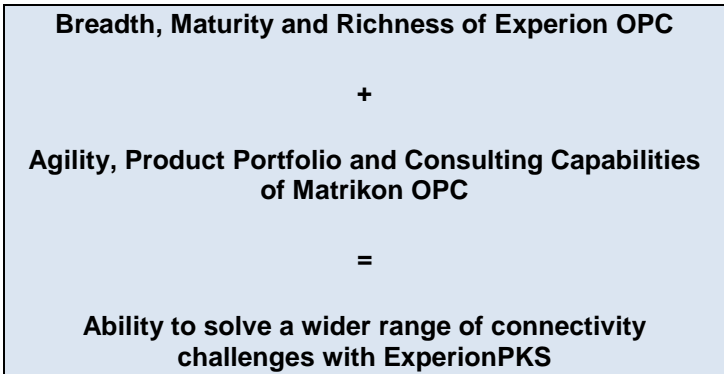
Innovation and Agility

MatrikonOPC is on the forefront of technology innovation. 40% of revenue from MatrikonOPC is put back into research and development. MatrikonOPC focuses on delivering technology that solves today’s problems and prepares you for the future.

Standards Contribution

MatrikonOPC has always taken a proactive role in the OPC foundation. MatrikonOPC has devoted considerable effort in supporting the foundation and driving the specifications.

Experion and MatrikonOPC



MatrikonOPC and Honeywell jointly test all of our interfaces together so that you can be assured of the highest quality and reliability our support organizations are able to jointly engage on issues to quickly resolve OPC related issues providing customers a transparent support experience.

Honeywell is integrating MatrikonOPC technology into various portfolio areas to bring the best of MatrikonOPC’s world class technology into Honeywell’s products.

Whether you are building a new plant or have an existing plant with a connectivity challenge, Experion OPC Clients and Servers coupled with the MatrikonOPC connectivity solves the broadest range of connectivity problems, using the most mature OPC Clients and Servers, supported by the largest team of OPC experts globally.

Experion® is registered trademark of Honeywell International Inc.

For More Information

To learn more about Honeywell’s Experion OPC visit our website www.honeywellprocess.com or contact your Honeywell account manager.

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