

Life Is On

Wonderware
by Schneider Electric

Wonderware Operations Integration Servers

Providing the Next Generation of Device Integration

Wonderware Operations Integration (OI) Servers are a part of Schneider Electric Software's Industrial Internet of Things (IIoT) connectivity strategy. The inherent architecture of OI Servers allows for seamless integration of a growing number of devices. OI Servers thrive in Smart Cities and geographically distributed industries by integrating disparate systems on a global scale. The broader connectivity offering provides greater value to customers by enabling a more connected enterprise.

52%





Operations Integration Servers (OI Servers) Overview

Expanding connectivity and increasing data value have become vitally important as companies strive to leverage real benefits from the IoT/IIoT, big data and cloud technologies. Yet connecting and integrating disparate devices to the Supervisory HMI, SCADA systems and the Historian databases remains a challenge for many organizations, particularly in the manufacturing domain.

Operations Integration (OI) Servers from Wonderware® enable customers to realize tangible gains by providing the broadest set of connectivity options needed to support an industry wide, IIoT and cloud-ready communication strategy. Our OI Servers provide a single, hardware-independent platform that helps you improve standards, simplify configuration, promote consistency and maximize communication uptime.

Product At a Glance

Wonderware OI Servers support the full connectivity spectrum—from the data layer to the business and ERP layers—and provide raw content for the most advanced, global Internet of Things (IoT) and cloud-ready communications.

Key Benefits:

- + Broader connectivity spectrum
- + Enables seamless integration between InTouch, System Platform and PLCs
- + Increased throughput
- + Improved scalability and reduced application costs
- + Support for multiple OI Server versions on a single node
- + Elimination of single points of failure
- + High availability for greater communication uptime, reduced downtime
- + Single node side-by-side compatibility

What's NEW

- + Auto-Build support for ABCIP OI Server
- + Support for OPC-UA and MQTT communication protocols
- + Site-based licensing for centralized license management
- + Free 32-tag small application support
- + Enhanced and updated Operations Integration (OI) Core G-1.2 to support new security functionality for servers that enable SQL connectivity
- + Backward compatibility of the OI Core – all existing OI Servers can run with the OI Core G-1.2
- + Legacy DAServers converted to OI Servers - InTouch Machine Edition OI Server (OI ITME G-1.2) and OI OMRONFINS G-1.2 replace the legacy DAServers
- + Continuously growing driver suite that includes OI ADPRO G-1.2, OI TI500 G-1.2, OI SNMP G-1.2, OI OMRONFINS G-1.2 and Wonderware OI ITME G-1.2.*



Operations Integration Servers (OI Servers) Key Features and Benefits

Increase scalability and reduce application costs

It is no longer necessary to restrict a single driver to a single node. With OI Servers, you can run multiple, completely independent instances of the same driver in a single node. Single-node license now covers as many servers as you want in a single node. This allows users to consolidate scattered architectures into fewer nodes.

Improve robustness and eliminate single point of failure

By running multiple instances of the same OI Server on the same node, any potential problem that may affect one driver instance is isolated to just that instance.

Maximize communication uptime

With the new Wonderware OI servers, driver restarts that require configuration changes can be restricted to a single instance, allowing other drivers to work unaffected. This helps improve communication uptime while reducing the risks of downtime.

Increase throughput

Wonderware OI Servers enable parallel independent processing of I/O by each individual driver instance, which results in higher overall throughput or improved performance per driver and per node.

Support multiple driver versions

Wonderware OI Servers provide single node side-by-side upgrade capability, which allows users to continue running the previous driver version while adding a new version of the same driver protocol. This unique capability allows continued growth without disruptions and enables coexistence with legacy DAServers or DI.

Support for connectivity applications

To facilitate greater adoption and integration of IoT applications for edge devices, we've introduced free 32-tag tiny application support with the OI-Core G-2.0. This enables integration with small applications (32 tags) in edge sites and the ability to connect to Wonderware Online or Wonderware System Platform without requiring an OI Server license.

Leverage the new Auto-Build** functionality

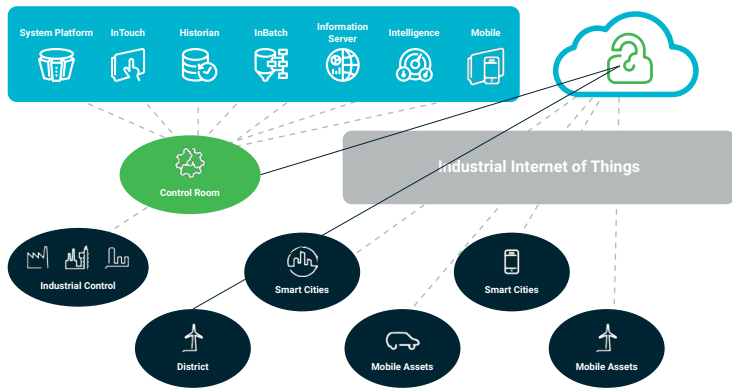
Our OI servers now have Auto-Build capability. This new feature helps improve engineering efficiency by reading the structure of a PLC program and automatically building the Application Server templates and instances based on the PLC schema. This can result in faster time-to-runtime and better integration between Wonderware System Platform and PLCs.

Site-based licensing

The OI Core supports activation-based licensing as well as the traditional ArchestrA.lic licensing. Our all new generation G-2.0 OI Servers support site-based licensing, which allows you to manage products at a centralized location rather than managing each product individually.



IO Gateway + MQTT



Wonderware connectivity expands

The OI Servers continue support for major PLC brands, such as Allen-Bradley, GE, Modbus and Siemens, and have expanded to support Automation Direct, CoDeSys (Bosch, 3S, Eaton, WAGO), Beckhoff, BACnet, Texas Instruments, Mitsubishi, Omron and Opto 22.

Connectivity to PLCs, DDE, SuiteLink, OPC, and OPC UA will continue while integration capabilities will expand into DCSs, Smart Devices, Telemetry, DNP3, IEC, IoT, and Cloud.

Wonderware OI Gateway

Formerly known as FSGateway, the Wonderware Operations Integration Supervisory Gateway – now referred to as OI Gateway – acts as a communications protocol converter. The OI Gateway can be used to link clients and data sources that communicate using different protocols.

The Wonderware OI Gateway has been enhanced to act as an OPC UA Client; this enables stand-alone support for InTouch, Historian, InBatch or any OPC/DDE/SuiteLink compliant software that requires connectivity to OPC-UA Servers. Wonderware OI Gateway now also supports MQTT protocol, making device configuration and integration and interoperability easier than ever.

Summary

Wonderware Operations Integration Servers are hardware independent, so you have the flexibility to connect to any device or PLC with a uniform, intuitive interface efficiently and hassle-free. Seamless configuration and integration to Wonderware InTouch and Wonderware System Platform ensure that you make the most of your data, transforming it into timely, actionable insight and control.

Wonderware OI Servers can help increase the availability of built-in system diagnostics for prompt troubleshooting and optimization. Designed to support multi-instance capability, our operations integration solution can help you reduce PLC connectivity configuration effort by almost 50 percent. Wonderware OI Servers are offered stand-alone and bundled with other Wonderware offerings.

For more information about Operations Integration Servers, please contact your local Wonderware representative or visit the Device Integration section of our website.