Device Integration Servers are a part of our Industrial Internet of Things (IIoT) connectivity strategy. The inherent architecture of Device Integration Servers allows for seamless integration of a growing number of devices. Device Integration 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.

Device Integration Servers
Providing the Next Generation of Device Integration

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wonderware.com/hmi-scada/device-integration
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Product at a Glance
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.

Our Device Integration Servers provide a single, hardware-independent platform that helps you improve standards, simplify configuration, promote consistency and maximize communication uptime.

Device Integration 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 with web-based and cloud applications
• Seamless integration between InTouch, System Platform, Historian and PLCs
• Increased throughput
• Improved scalability and reduced application costs
• Support for multiple Device Integration 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 Device Integration Server, Siemens S7 and SDirect
• Support for OPC-UA and MQTT communication protocols
• Site-based licensing for centralized license management
• Free 32-tag small application support
• Enhanced and updated Device Integration Core G-1.2 to support new security functionality for servers that enable SQL connectivity
• Backward compatibility of the Device Integration Core – all existing Device Integration Servers can run with the Device Integration Core G-1.2
• Legacy DAServers converted to Device Integration Servers - InTouch Machine Edition Device Integration Server (Device Integration ITME G-1.2) and Device Integration OMRONFINS G-1.2 replace the legacy DAServers
• Continuously growing driver suite that includes Device Integration ADPRO G-1.2, Device Integration TI500 G-1.2, Device Integration SNMP G-1.2, Device Integration OMRONFINS G-1.2 and Device Integration ITME G-1.2.*
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Device Integration 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 Device Integration 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 Device Integration 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 Device Integration 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
Device Integration 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
Device Integration 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 Device Integration-Core G-2.0. This enables integration with small applications (32 tags) in edge sites and the ability to connect to InSight or System Platform without requiring an Device Integration Server license.

Leverage the new Auto-Build** functionality
Our Device Integration 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 System Platform and PLCs.

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

Device Integration Gateway
Formerly known as FSGateway, the Device Integration Supervisory Gateway – now referred to as Device Integration Gateway – acts as a communications protocol converter. The Device Integration Gateway can be used to link clients and data sources that communicate using different protocols.
The Device Integration 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. Device Integration Gateway now also supports MQTT protocol, making device configuration and integration and interoperability easier than ever.

Summary
Device 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 InTouch and System Platform ensure that you make the most of your data, transforming it into timely, actionable insight and control.
Device Integration Servers can help increase the availability of built-in system diagnostics for prompt troubleshooting and optimization.
Designed to support multi-instance capability, our device integration solution can help you reduce PLC connectivity configuration effort by almost 50 percent. Device Integration Servers are offered stand-alone and bundled with other offerings.
For more information about Device Integration Servers, please contact your local representative or visit the Device Integration section of our website.