

## Want flexible and powerful connectivity solutions? Simple. Use TOP Server.™

**Features** (see specifications sheet for details and driver list)

- OPC Interoperability and Independent Lab Certified—OPC DA, UA, A&E, .NET and HDA
- Single interface for client applications regardless of number of drivers
- Add drivers via plug-in architecture
- Native Wonderware and Proficy iFIX interfaces speed integration
- Multi-threaded support leverages multi-processor and multi-core processor computer power
- Support for latest Windows desktop, server and virtual platforms
- Security and traceability
- Ethernet encapsulation/terminal server devices and modem support on most serial drivers for wide range of options
- Configuration API—provides the ability to programmatically configure TOP Server through a REST-based API
- Localized language support—German and Japanese for select drivers, installation, documentation, menus and more
- Suite licenses for AB, GE, Mitsubishi, Omron, Modicon, Siemens, Yokogawa and others combine drivers from the same brand into a single part number providing very affordable options
- Software-keyed license is per computer regardless of device or tag quantity
- Cost effective drivers or suites plug right in
- Plug-in options to expand features beyond data collection are available
- Vertical industry-specific suites (see SPECIFICATIONS sheet for details)

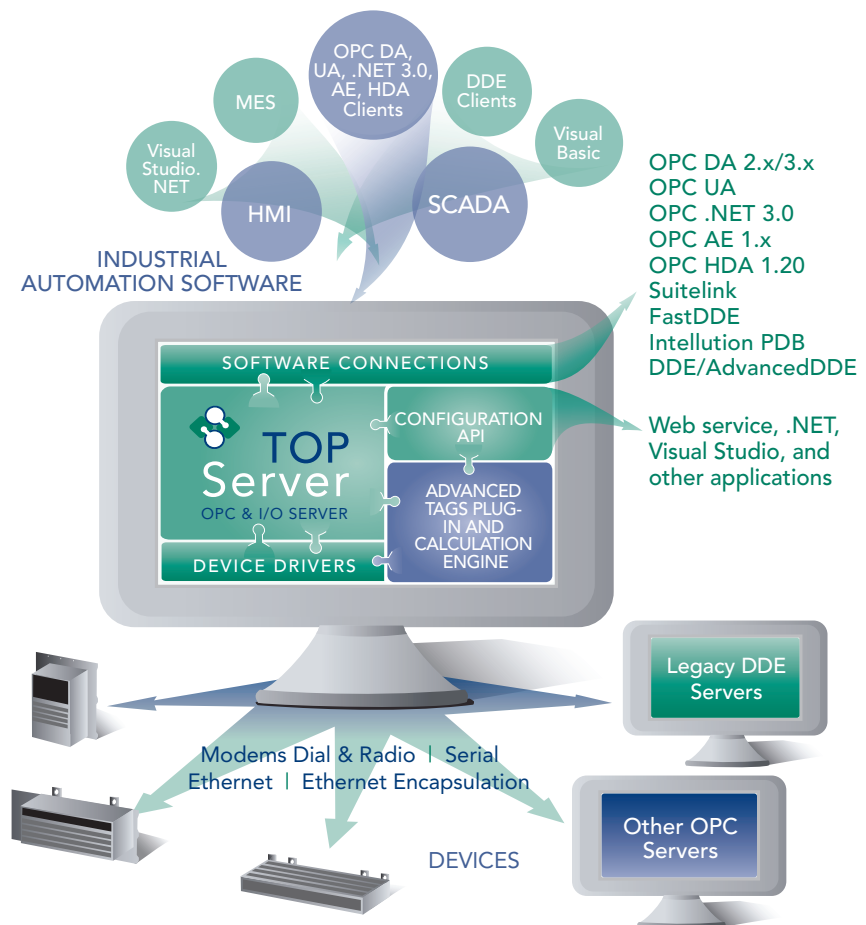
TOP Server brings you the best-in-class driver and OPC technology of Kepware combined with Software Toolbox's best-in-class technical support and value-added software.

When you buy from Software Toolbox or our channel partners, you get a single point of responsibility for software solutions—so much more than a driver.

TOP Server's flexible and powerful features reduce your total life cycle cost for automation software. Training costs are decreased through the use of a modular architecture and commonly used methods with different drivers. Knowledge gained from one project is used for the next.

The ability to reuse configurations like templates on separate PC's has made TOP Server the clear favorite for systems integrators, OEM's and global companies.

As a reliable multi-threaded application leveraging the latest in dual-core processor and multi-processor technologies, TOP Server maximizes performance and ensures you get the right data at the right time.



### Unique driver capabilities expand your range of application solutions.

- Native ethernet encapsulation for most serial drivers—robust serial device integration on your ethernet network
- Modbus ethernet gateway support—Modicon ethernet to Modbus/Modbus Plus gateway hardware to bridge legacy serial and proprietary networks
- Flexible Modbus protocol support—configurable formatting settings for the greatest hardware compatibility
- AB ControlLogix and ControlLogix Gateway support—connects to AB DH+, ControlNet, EtherNet/IP and Serial downstream networks using AB ControlLogix Gateway capabilities
- Omron NJ Ethernet routing support—connects remote NJ / NX controllers via routing through a locally connected NJ / NX Ethernet/IP unit.
- Advanced Tag option—generates valuable aggregate information for analytics and bridge values across systems
- Media-Level Redundancy option—ensures reliable communications with built-in device and communication path redundancy
- Multiple Tag Generation allows rapid creation of large quantities of tags
- Real-Time Scheduler option—allows precision control over the polling frequency for driver requests for real-time data

## TOP Server is the top choice, the world over. Make it yours.

You need the flexibility to connect your hardware to a complex array of automation software. Choose TOP Server and you can meet your business goals. All the TOP Server built-in features come with your purchased license.

Whether a user, integrator, or channel partner, TOP Server's proven track record makes it your best choice for any challenging device integration application.

TOP Server is used in mission-critical applications all over the world in almost every industry.

TOP Server will be there for you. Connect with us today to find out how.



## Flexible features reduce your total life cycle cost.

- Support for OPC DA, OPC UA, OPC .NET, OPC HDA, OPC A&E, FastDDE, SuiteLink, AdvanceDDE, and DDE software interfaces reduces integration costs
- Windows Service supported for unattended startup
- Dial-up support for serial drivers
- Automatic tag database generation—reads tags from hardware or programming software and automatically configures tags (GE, Modbus, AB ControlLogix, Beckhoff, Yokogawa drivers and more)
- Dynamic address support—no duplicate tag databases required
- Tag import/export—import data from CSV files to speed configuration or sharing with applications
- Multi-threaded design allows maximization of your throughput for large systems
- Common, modernized user interface with tree view and properties editor reduces training and engineering costs
- Drag and drop copying of tags and devices—configure one device with tags, then copy/paste to other devices
- Extensive diagnostic tools at the protocol and OPC DA/UA/HDA level reduce field startup costs
- Included OPC Quick Client provides known simple, easy-to-use OPC client for quick field testing and deployment
- Extensive built-in system tags allow client application (including InTouch) to remotely reconfigure driver, including enabling or disabling devices.
- OPC ProgID Redirect—easily migrate from other OPC DA servers
- Built-in security allows control of who changes driver configuration
- Server Scan Rate Modes—de-couple devices from excessive client scan rates
- DNS Host Resolution—use Host Names instead of IP Addresses for some drivers including Modbus ethernet, ControlLogix ethernet and Siemens ethernet



## OPC STANDARDS COMPLIANCE

Support for the OPC standards ensure a wide range of HMI/SCADA & MES systems will work with TOP Server.

- OPC Data Access (DA) 1.0/2.05a/3.0
- OPC UA (DA profile)
- OPC XI/OPC.NET 3.0 (DA and AE Profiles)
- OPC A&E 1.0 and 1.1 (event log messaging)
- OPC HDA 1.20 (with Local Historian plug-in)
- OPC Self-Test Certified
- OPC Interoperability Tested
- OPC Independent Lab Test Certified

## HMI NATIVE CLIENT INTERFACES

In addition to OPC, TOP Server supports the following vendor-specific interfaces:

- Wonderware SuiteLink & FastDDE
- GE Intelligent Systems (Proficy iFIX) NIO/PDB

## OTHER INTERFACES SUPPORTED

- REST-based Configuration API with full CRUD operations
- Visual Basic 6—via OPC DA
- Visual C++—via OPC DA
- Visual Studio.NET—VB, C#—via OPC DA, OPC UA, OPC A&E
- DDE Server—CF\_Text or AdvancedDDE
- DDE Client—CF\_Text

## ADDITIONAL SUPPORTED FEATURES

- Multi-Core processors (load sharing)
- Multiple CPU systems (load sharing)
- Windows Terminal services
- Marathon everRun
- Stratus ftServer

## FEATURES/FUNCTIONALITY INCLUDED

- No artificial tag limits imposed
- Auto-demotion (slow polling)
- Automatic tag generation (select drivers)
- Copy/paste/drag/drop configuration elements
- CSV import/export
- DNS Host name resolution (select drivers)
- Verbose event log
- Modem support
- Transferrable project file (easy moves/re-use)
- Multiple drivers/device types per project
- Localized language support—German and Japanese for select drivers, installation, documentation, menus and licensing
- Media-level redundancy
- Offline or online/runtime configuration changes
- OPC Quick Client test tool
- Flexible OPC configuration options
- Plug-in driver architecture
- OPC (DA/UA/HDA) and communications diagnostics
- Run as a service
- ProgID redirection
- Device scan rate modes (client-decoupled scan rate)
- Configuration and runtime security (now including Security Policies plug-in free)
- Item value scaling
- Selectable Network Card (NIC)
- Serial-to-ethernet encapsulation (most serial drivers)
- Simulation mode
- System/statistics tags
- Topic mapping (aliases)
- JSON project format

## MINIMUM HARDWARE REQUIREMENTS (Defer to recommendations for the OS)

- 2.0 Ghz CPU/processor—single core
- 1 Gb installed memory/RAM
- 300 Mb minimum required disk space
- Ethernet card supported by the Windows OS
- 530 Mb recommended disk space (Required for full installation of all drivers/plug-ins/interfaces)

## 32-BIT WINDOWS (X86) OPERATING SYSTEMS

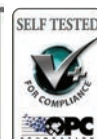
- Windows 7 x 86 (Professional, Ultimate, and Enterprise Edition)
- Windows 8 x 86 (Windows 8, Pro, and Enterprise Edition)
- Windows 8.1 x 86 (Windows 8, Pro, and Enterprise Edition)
- Windows 10 x 86 (Pro and Enterprise Edition)
- Microsoft Hyper-V
- VMWare Virtualization

## 64-BIT WINDOWS (X64) OPERATING SYSTEMS

- Windows Server 2008 x64 R2
- Windows Server 2012 x64 R2
- Windows Server 2012 x64
- Windows Server 2016 x64
- Windows 7 x64 (Professional, Ultimate, and Enterprise Edition)
- Windows 8 x64 (Windows 8, Pro, and Enterprise Edition)
- Windows 8.1 x64 (Windows 8, Pro, and Enterprise Edition)
- Windows 10 x64 (Pro and Enterprise Edition)
- Microsoft Hyper-V
- VMWare Virtualization

## LICENSING DETAILS

- Software license (online activation—single roundtrip per machine)
- Support/maintenance renewals by certificate file import (no online access needed)
- USB hardware dongle option (additional fee)
- Licensing is granted on a per machine basis by driver suite (manufacturer) or individual driver (where a suite is not available)
- Vertical industry suites available



### TOP SERVER PLUG-IN LIST

- Advanced Tag plug-in
- Connection Sharing plug-in
- Data Logger plug-in
- Media-Level Redundancy plug-in
- OPC Alarms & Events (A&E plug-in)
- Oracle Connector plug-in (MES/MOC)
- SNMP Agent plug-in
- Local Historian plug-in
- Real-Time Scheduler plug-in

### TOP SERVER VERTICAL INDUSTRY SUITES

- Building Automation suite—BACnet ethernet, Modbus TCP/IP ethernet, Modbus RTU Serial, Modbus ASCII Serial, System Monitor, UCON, and Custom Interface drivers
- IT and Infrastructure suite—SNMP Suite, Modbus TCP/IP ethernet, Modbus RTU Serial, Modbus ASCII Serial, System Monitor, UCON, and Custom Interface drivers
- Manufacturing suite—all standard drivers in one suite
- Oil and Gas suite—ABB Totalflow Serial (real-time), Enron Modbus (real-time), Omni Flow Computer (real-time), WITS suite, Lufkin Modbus, Bristol/ IP ethernet, Weatherford 8500 serial, Fisher ROC suite, Modbus TCP/IP ethernet, Modbus RTU serial, Modbus ASCII serial, UCON, and Custom Interface drivers
- Power and Utilities suite—IEC 60870-5 suite, IEC 61850, DNP suite Modbus TCP/IP Ethernet, Modbus RTU Serial, Modbus ASCII Serial and UCON

### TOP SERVER ELECTRONIC FLOW MEASUREMENT (EFM) SUITE

- EFM Exporter Plug-in—Export EFM data for Flow-Cal (Gas & Liquid), Quorum PGAS, Generic CSV and Database (SQL & ODBC) formats
- Included EFM Capable Drivers:
  - Omni Flow Computer
  - Enron Modbus serial
  - Fisher ROC suite
  - ABB Totalflow serial
  - EFM Simulator

### TOP SERVER DRIVER SUITE LIST

- AB Bulletin 1609 UPS
- AB Bulletin 900 temp controllers
- ABB Totalflow serial
- Allen-Bradley suite: DF1 serial, DH+/DH-485, PLC5/SLC Ethernet, ControlLogix Family ethernet (Micro, Flex, Compact), ControlLogix Unsolicited ethernet
- Alstom Redundant ethernet
- Analog Devices 6B
- Aromat Serial and ethernet
- Automation Direct suite: DirectNet, K-Sequence, ethernet (ECOM & EBC)
- Automation Direct EBC ethernet
- BACnet ethernet
- Beckhoff TwinCAT ethernet
- Bristol/IP ethernet (BSAP)
- BUSWARE ethernet I/O
- Contrex CX1000 and M Series
- Custom interface driver (CID)
- Cutler Hammer D50/100 and ELC ethernet
- Danfoss AKC55 serial
- DataForth IsoLynx
- DDE server to OPC client bridge
- DeviceNet/Profibus (Hilscher Universal)
- DNP 3.0 Suite—serial + ethernet
- Enron Modbus serial
- EUROMAP 63
- Fisher ROC Suite Real-Time – serial + Ethernet
- Fuji Flex PLCs
- GE Focas (1 and 2) ethernet for CNC
- GE suite: SRTP or EGD ethernet, CCM, SNP & SNPX serial
- Honeywell UDC 3000/3300 & HC900
- IDEC ASCII serial
- IEC 60870-5 suite (101 Serial / 104 ethernet)
- IEC 61850 MMS Client
- Intelligent Actuator SuperSEL
- Keyence KV ethernet
- IOTech PointScan 100
- KraussMaffei MC4 ethernet
- Lufkin Modbus
- Mettler Toledo Scale serial
- Micro-DCI (Bailey, Fisher & Porter)
- Mitsubishi suite: FX & FX-NET, A/Q/QnA Series (serial and ethernet)
- Modbus suite: RTU & ASCII serial Master, RTU Serial Slave, Modbus Plus, Modbus TCP/IP ethernet Master and Slave, Gateway
- MQTT client
- MTConnect client
- ODBC client
- Omni Flow Computer
- Omron suite: FINS ethernet and gateway, NJ ethernet, Hostlink serial, FINS Serial, temp.controllers serial
- OPC Client suite (DA/UA/XML-DA)
- Optimization OptiLogic
- Opto22 ethernet
- Partlow ASCII serial
- Philips PC8/PC20
- Red Prairie logistics transactions
- Sattbus & Sattbus ethernet
- Scanivalve ethernet
- Siemens suite: S5 AS-5 11 & 3964R, S7-200 PPI and ethernet, S7-300/400 MPI and ethernet Master or Slave
- Simatic/TI 5x5 ethernet or serial
- Simatic/TI TIWAY serial
- Simulator suite
- SIXNET ethernet I/O
- SNMP & Ping suite
- SquareD serial
- System Monitor (Windows perf. counters)
- Telemecanique Unitelway
- Thermowestronics Data Acq. Systems
- Torque Tool ethernet
- Toshiba serial and ethernet
- Toyopuc PC2 serial and PC2/PC3 ethernet
- Triconex TSAA ethernet
- User configurable driver (UCON)
- Wago 750 ethernet
- Weatherford 8500 serial
- WITS Level 0 suite (Active/Passive)
- Yaskawa Memobus, MP serial + ethernet
- Yokogawa DX100/200,DXP, & Darwin—serial + ethernet, YS100 serial
- Wonderware InTouch client

