



"THE WORLD LEADER IN COMMUNICATIONS FOR AUTOMATION!"

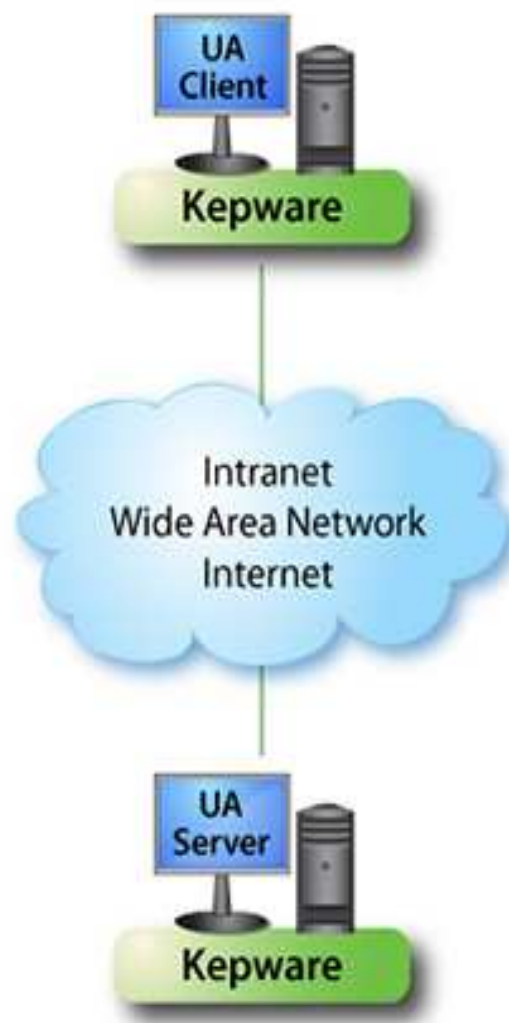
1-207-775-1660

## OPC UA Client Driver and OPC UA Server - OPC Tunneling

### OPC Tunneler - Leveraging OPC UA

The OPC UA Client Driver and the free OPC UA Server for KEPServerEX provide an ideal OPC Tunneling solution. The OPC UA Client Driver provides a communications tunnel between two or more computers, allowing data to be transferred securely and reliably. This eliminates reliance on Microsoft COM and DCOM technology, and provides higher performance and deterministic failure modes.

The OPC Tunneler uses Client/Server architecture to transfer data over an Intranet, Internet or WAN. It also creates a secure OPC Tunnel through firewalls and complements existing OPC DA applications. The OPC Tunnel provides end-users, integrators and automation suppliers with a favorable solution for remote connectivity to OPC applications. In comparison to remote OPC Connectivity via DCOM, the OPC Tunneler boasts security, ease of use and maintainability. Furthermore, there is no need to expose applications to unauthorized or anonymous users since OPC UA does not require a VPN connection for security.



### **KEPServerEX - Single Server and Tunneling Solution**

The Kepware OPC Tunneling solution can be used with a mix of products including Kepware and Third-Party OPC Clients and OPC Servers. In addition to the OPC UA Client Driver and the OPC UA Server interface, KEPServerEX also provides OPC DA, OPC AE, DDE and several vendor-specific interfaces. KEPServerEX's breadth of connectivity options ensures a complete and robust system regardless of the hardware and software vendor mix.

### **OPC UA Client Driver - Aggregation and Gateway**

The OPC Client Driver allows the aggregation of data from Third-Party OPC UA servers and any other data that KEPServerEX may be monitoring. KEPServerEX also has the ability to act as a gateway by converting existing OPC DA servers to OPC UA servers (or enabling OPC DA clients to connect to OPC UA data sources). The Kepware OPC Tunnel solution is an ideal way to share information in real-time B2B applications for automation.

### **OPC UA - The Latest and Most Capable Specification**

OPC UA is the most capable OPC specification for interoperability between automation software products. It unifies previous OPC "Classic" specifications, data encryption to RSA standards and authentication based on the x509 Certificate standard. Its firewall friendliness allows communications within the automation environment, across the enterprise and through public network segments with high security and performance.

The OPC UA Client Driver is also included in the Manufacturing Suite.

#### **The OPC Connectivity Suite includes:**

- OPC DA Client Driver
- OPC UA Client Driver

---

#### **Benefits**

- Eliminate DCOM Configurations
- Firewall Friendly
- Easy Network Management
- Enhanced Security

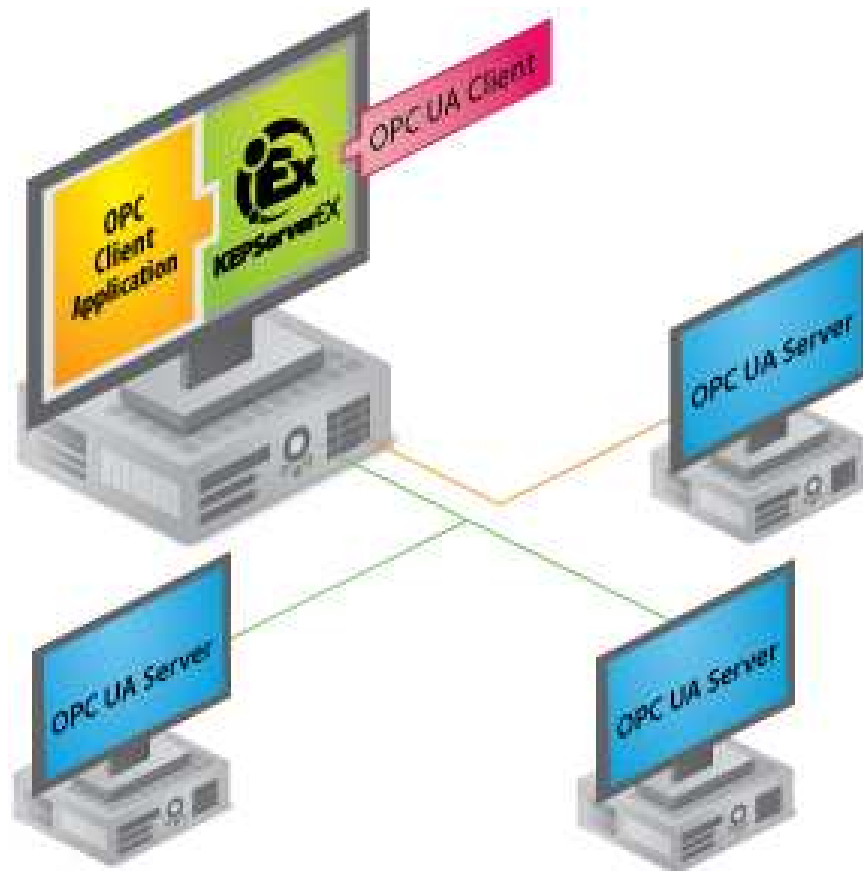
#### **Protocol**

- OPC UA v1.01  
(optimized binary TCP)

#### **KEPServer Interface Support**

- OPC Data Access (OPC DA) Versions 1.0a, 2.0, 2.05a, 3.0
- OPC Alarms and Events (OPC AE) Version 1.10
- OPC Unified Architecture (OPC UA) Version 1.01
- SuiteLink and FastDDE for Wonderware
- NIO Interface for iFIX
- DDE Format CF\_Text and AdvancedDDE

**Use Case 1: OPC UA Client and OPC UA Servers**  
**Aggregate Data from Multiple Remote Systems**



Click to Enlarge

The OPC UA Client Driver provides data access between OPC UA Servers and Client products such as HMI, SCADA, Historian, and MES solutions.

**Use Case 2: OPC Tunneling**  
**Remove the need for DCOM**



Click to Enlarge

Two KEPServerEX Installations working together as a Secure OPC Tunnel. The Client/Server architecture allows users to transfer data over an Intranet, Internet or WAN.

**Additional Information and Resources:**

- KEPServerEX OPC Server Features
- OPC UA Client Driver Revision History
- KEPServerEX Revision History
- Connecting Visual Basic to OPC UA Client Driver
- System Requirements
- OPC Compliancy Testing
- KEPServerEX v5 Licensing
- Upgrade Pricing

**Related Products:**

- Manufacturing Suite
- OPC DA Client Driver
- LinkMaster OPC Bridging Software
- DataLogger Option for KEPServerEX
- Advanced Tag Option for KEPServerEX
- RedundancyMaster OPC Redundancy Software
- Support and Maintenance Agreement
- Support and Maintenance Agreement Pricing

---

**Drivers "Plug-in" to KEPServerEX**

The OPC UA Client Driver OPC Server is a plug-in device driver for KEPServerEX. A "Plug-in" is a software program (.dll) that extends the capabilities of KEPServerEX to fit the communication requirements of a specific device or system. The plug-in driver handles all of the proprietary communications between the device/system and the OPC layer, KEPServerEX. The KEPServerEX core then handles all OPC and Proprietary Client communications between the plug-in driver and the Client application. For a complete list of features and capabilities please visit the KEPServerEX overview page.

- OPC Foundation Certified - The Best of OPC on the Market
- High Performance - Multi Threaded - Runtime Configurable
- Detailed Protocol Diagnostics - Communications Trace
- Detailed OPC Diagnostics - Communications Trace
- Native Interfaces - Client Connectivity Beyond the OPC Standards
- Stratus High Availability Computing - Certified
- Marathon High Availability Computing - Certified
- Kepware 2 Hour Demonstration Mode on all Products

