

# OPC Connectivity Suite

## SKU: KWP-OPCCS0-PRD

### Component Drivers

- OPC DA Client
- OPC UA Client
- OPC XML-DA Client

### Features

- Provides remote access for OPC, Native Interfaces, and DDE
- Supports tunneling over LAN, WAN, and Internet via OPC UA
- Provides a single, reliable connection point to access data from multiple OPC servers on local and remote machines
- Optimize performance of OPC servers through OPC groupings that may be different than those required or allowed by clients
- Supports connection monitoring and reconnect behavior for each OPC server
- Provides connectivity to remote OPC servers for clients that do not support DCOM
- Allow connectivity to multiple OPC servers from clients that do not support multiple connections or handle multiple connections well
- Allow connectivity to OPC servers using different interfaces that are supported by clients, such as DDE, Wonderware SuiteLink, GE Intelligent Platforms (GE Fanuc) NIO
- Supports update by exception (Watchdog)
- Automatically import OPC server items

### Application Support

- OPC Data Access (OPC DA) Versions 1.0a, 2.0, 2.05a, and 3.0
- OPC Unified Architecture (OPC UA) Version 1.01

### Featured Suites

- Manufacturing Suite
- OPC Connectivity Suite

# OPC DA Client

## Product Overview

The OPC DA Client driver and KEPServerEX communications platform provide an easy and reliable way to connect disparate third-party OPC DA Servers to your client applications, including HMI, SCADA, Historian, MES, ERP, and countless custom applications.

With the OPC DA Client Driver and KEPServerEX, you can manage operations through a single server interface, so there is no need to learn the different nuances of other third-party servers.

This driver also enables Oracle MES and MOC users to bring Kepware OPC operations and all other third-party OPC operations into your business applications.

## Features

- Provides a single, reliable connection point to access data from multiple OPC servers on local and remote machines
- Enables optimized performance of OPC servers through OPC groupings that may be different than those required or allowed by your clients
- Supports connection monitoring and reconnect behavior for each OPC server
- Provides connectivity to remote OPC servers for clients that do not support DCOM
- Allows connectivity to multiple OPC servers from clients that do not support multiple connections or handle multiple connections well
- Allows connectivity to OPC servers using different interfaces that are supported by clients, such as DDE, Wonderware SuiteLink, GE NIO, and so forth
- Supports update by exception (Watchdog)
- Automatically import OPC Server Items

## Protocols

- OPC Data Access (DA)

## Supported Devices

- OPC DA Servers: 1.0 and 2.0

## Application Support

- OPC Data Access (OPC DA) Versions 1.0a, 2.0, 2.05a, and 3.0
- OPC Alarms and Events (OPC AE) Version 1.10
- OPC Unified Architecture (OPC UA) Version 1.01
- OPC .NET Service (OPC .NET) Version 1.00
- SuiteLink and FastDDE for Wonderware
- NIO Interface for iFIX
- DDE Format CF\_Text and AdvancedDDE

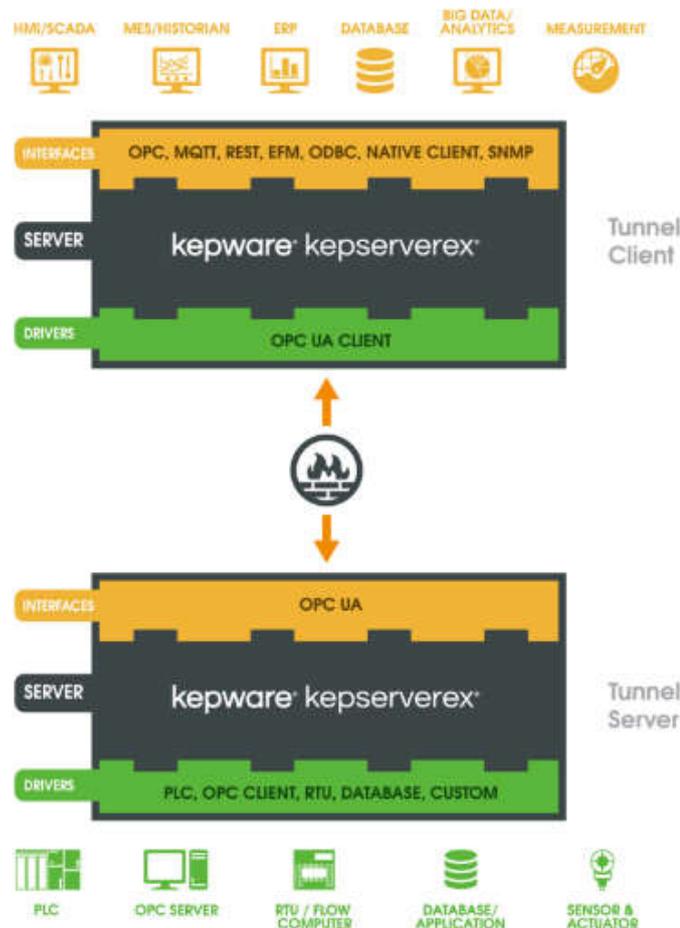
# OPC UA Client

## Product Overview

The OPC UA Client driver paired with the OPC UA Server interface of another KEPServerEX implementation provide an ideal secure tunneling solution. The OPC UA Client driver provides a communications protocol between two or more computers, allowing data to be transferred securely and reliably. This eliminates reliance on Microsoft COM and DCOM technology, and provides secure, authenticated communications and higher performance.

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.

Keeware's OPC Tunneling solution is an ideal way to share information in real-time with B2B applications for automation.



## KEPServerEX: A Single Server and Tunneling Solution

Keeware's OPC Tunneling solution can be used with a range of products, including 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. Its breadth of connectivity options ensures a complete and robust system regardless of the different hardware and software vendors used.

### **OPC Tunneler: Redundancy**

Coupling the OPC UA Client driver based tunnel with the Media Level Redundancy plug-in in KEPServerEX provides support for high availability environments through the ability to configure secondary tunnels and triggering conditions. The Media Level Redundancy plug-in allows the definition of redundant communications paths and devices, and supports a user configurable triggering mechanism to initiate a failover.

### **OPC UA Client Driver: An Aggregation and Gateway Solution**

The OPC UA Client driver aggregates data from third-party OPC UA servers and KEPServerEX, which has the ability to act as a gateway by converting existing OPC DA servers to OPC UA servers (or by enabling OPC DA clients to connect to OPC UA data sources).

### **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. It is firewall-friendly and allows communications within the automation environment, across the enterprise, and through public network segments with high security and performance.

## **Features**

- OPC Tunneling for OPC DA 1.0, 2.05a and 3.0
- Works within the Corporate Network, through Wide Area Networks, over VPNs, and through Firewalls
- Provides remote access for OPC, Native Interfaces, and DDE
- Supports media-level redundancy, including the ability to configure secondary tunnels and triggering conditions
- Data Encryption via RSA Standards
- Endpoint Authentication through x509 Certificates
- Automatic Discovery of OPC UA Servers
- Automatic Tag Database Generation
- Ability to set OPC UA Server Priorities
- Poll or Report by Exception (On data change)
- Endpoint management of a per connection basis
- Ability to integrate third-party server data with all KEPServerEX drivers
- Keep Alive and Watchdog features to ensure reliable connectivity

## **Protocols**

- OPC Unified Architecture (UA)

## **Application Support**

- OPC Data Access (OPC DA) Versions 1.0a, 2.0, 2.05a, and 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

## **Additional Tech Info**

### ***BENEFITS***

- Eliminates DCOM configurations
- Firewall-friendly
- Provides easy network management
- Provides enhanced security

# OPC XML-DA Client

## Product Overview

The OPC XML-DA Client driver and KEPServerEX provide an easy and reliable way to connect disparate third-party OPC XML-DA servers to your client applications, including HMI, SCADA, Historian, MES, ERP, and countless custom applications.

With the OPC XML-DA Client Driver and KEPServerEX, you can manage operations through a single server interface, so there is no need to learn the different nuances of other third-party servers.

## Features

- Provides a single, reliable connection point to access data from multiple OPC XML-DA servers on local and remote machines
- Enables optimized performance of OPC XML-DA servers through OPC groupings that may be different than those required or allowed by your clients
- Supports connection monitoring and reconnect behavior for each OPC XML-DA server
- Allows connectivity to multiple OPC XML-DA servers from clients that do not support multiple connections or handle multiple connections well
- Allows connectivity to OPC XML-DA servers using different interfaces supported by clients, such as DDE, Wonderware SuiteLink, GE NIO, and so forth
- Supports update by exception (Watchdog)
- Can automatically import OPC XML-DA Server Items

## Protocols

- OPC XML-DA

## Supported Devices

- Any OPC XML-DA Server

## Application Support

- OPC Data Access (OPC DA) Versions 1.0a, 2.0, 2.05a, and 3.0
- OPC Alarms and Events (OPC AE) Version 1.10
- OPC Unified Architecture (OPC UA) Version 1.01
- OPC .NET Service (OPC .NET) Version 1.00
- SuiteLink and FastDDE for Wonderware
- NIO Interface for iFIX
- DDE Format CF\_Text and AdvancedDDE