

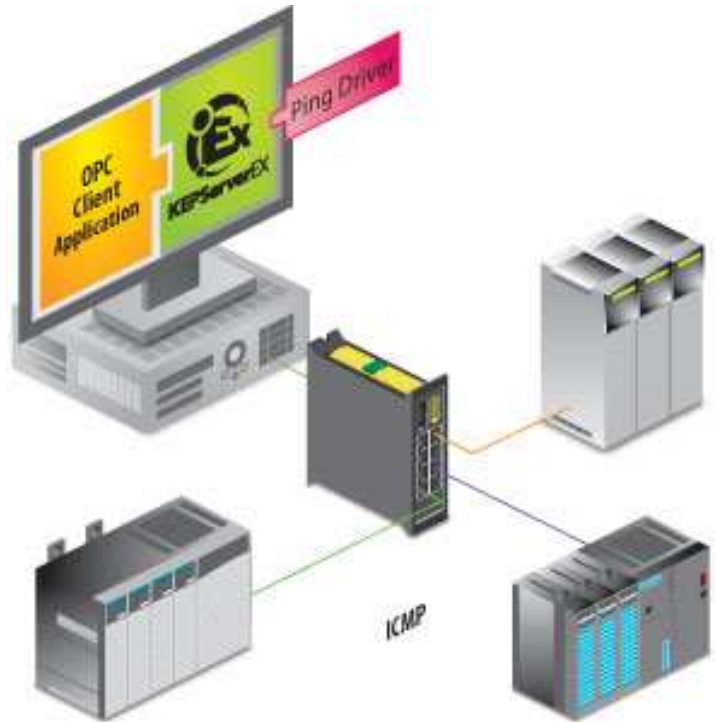


"THE WORLD LEADER IN COMMUNICATIONS FOR AUTOMATION!"

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## Ping OPC Server

The Ping driver is part of the iSNMP OPC Server Suite because not all Ethernet network devices are SNMP managed. To help monitor any system from within your HMI, the Ping driver automatically generates OPC tags for each unmanaged device defined. These "heartbeat" and "response time" tags provide a standardized and reliable way to monitor all devices in the Ethernet network. The Ping OPC Driver is also included in the IT and Infrastructure Suite. Instructions on upgrading legacy (COI) projects to the new iSNMP suite based in Kepware OPC technology. Download the new Project Conversion Utility for iSNMP.



### The SNMP OPC Server Suite includes:

- SNMP Driver
- Ping Driver

Read our article on the laymans Guide to Leveraging SNMP - The Solution to the Problem You are About to Consider Very Important!

### Plug-in Driver Features:

#### Leverage a Proven Server Architecture

Kepware purchased all SNMP-related assets of COI Software in September 2007. Kepware has developed a new iSNMP suite that "plugs-in" to Kepware's award winning OPC server architecture. The new drivers in the suite are, the SNMP driver for Managed devices and the Ping driver for Unmanaged devices. The OPC server which houses these drivers is Kepware's field proven KEPServerEX which supports the widest range of connectivity for OPC, DDE, and Native Interfaces.

The Ping Device Driver is provided for monitoring your network devices via the ICMP protocol (Ping). The Ping driver was designed specifically for use with 32 bit OPC Server products. The Ping driver provides the ability to monitor the Status of a network device, and the time that it takes for the ICMP message to reach its destination and return a response, the RoundTripTime.

### Runtime Management of Device Polling

All plug-in device drivers including the Ping driver provide communication timeout settings for Connect Timeout, Request Timeout, and an adjustable Retry or Fail After setting.

The Ping driver also supports Device Auto-Demotion for Unmanaged devices. Users can adjust Auto-Demotion parameters to allow drivers to temporarily place a device off-scan in the event that it is not responding. This allows the driver to continue to optimize its communications with other available devices on the same channel as well as notify the client application of the event.

### Protocol

- Internet Control Message Protocol (ICMP)

The Ping driver leverages the Internet Control Message Protocol (ICMP) to determine whether a defined IP or host address is reachable in the IP control network. Use the Ping driver when you need to incorporate device availability status into your automation applications when target devices are not SNMP managed

### Unmanaged Device Monitoring

Not all Ethernet network devices are SNMP managed. To help monitor any system from within your HMI, iSNMP automatically generates OPC tags for each unmanaged device defined. These "heartbeat" and "response time" tags provide a standardized and reliable way to monitor all devices in the Ethernet network.

### Application 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
- OPC Express Interface (OPC Xi) Version 1.00
- SuiteLink and FastDDE for Wonderware
- NIO Interface for iFIX
- DDE Format CF\_Text and AdvancedDDE

### Supported Devices

Any device (IP or Host address) that can communicate via TCP/IP

- |                            |                      |
|----------------------------|----------------------|
| • Building Control Systems | • PLCs & Controllers |
| • Device Servers           | • Printers           |
| • Drives                   | • Scanners           |
| • Gateways                 | • Security Systems   |
| • Hubs                     | • Sensors            |
| • HV AC Equipment          | • Switches           |
| • PCs and Servers          | (Unmanaged)          |

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### Additional Information and Resources:

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

### Related Products:

- Manufacturing Suite
- 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
- Legacy Pricing Policy

## Drivers "Plug-in" to KEPServerEX

The Ping 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

