

#### **Kepware Technologies**

## **Tunneling with KEPServerEX**

Part One of Our Webinar Series "KEPServerEX: Beyond Device Communications"









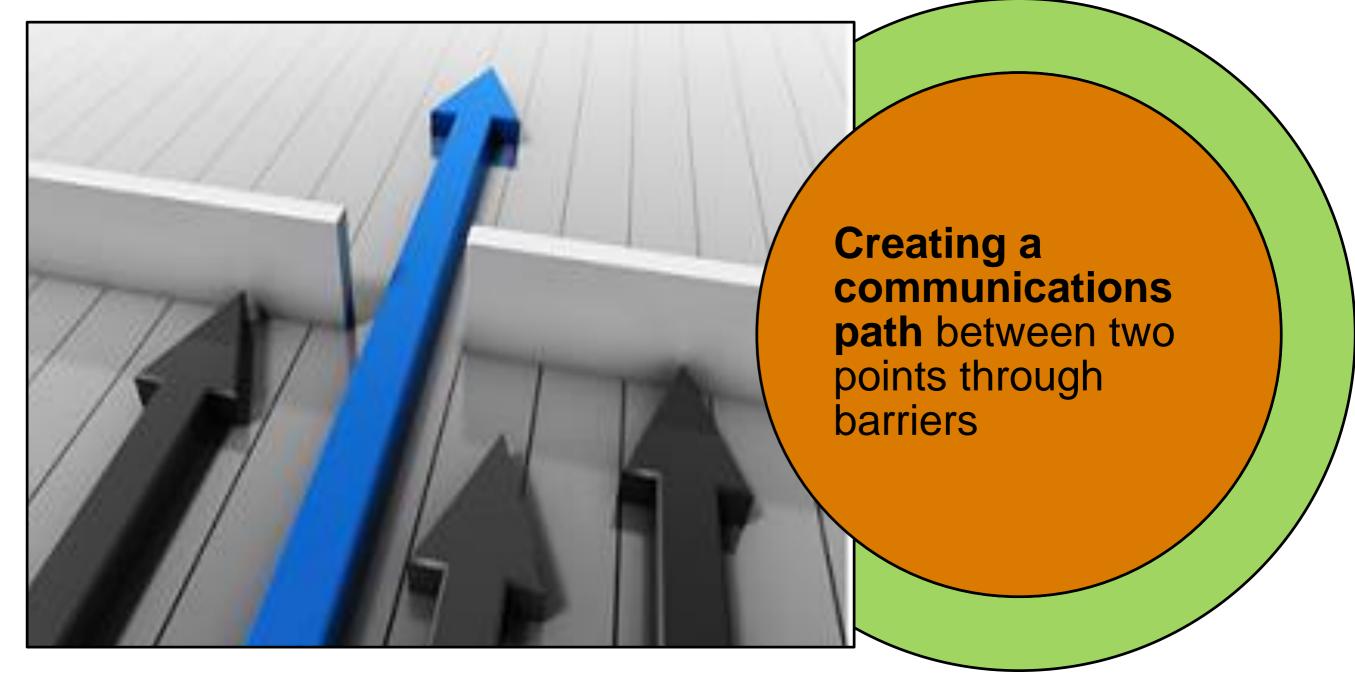
- 1. What is Tunneling?
- 2. What Makes a Great Tunneling Protocol?
- 3. Tunneling with KEPServerEX
- 4. Summary





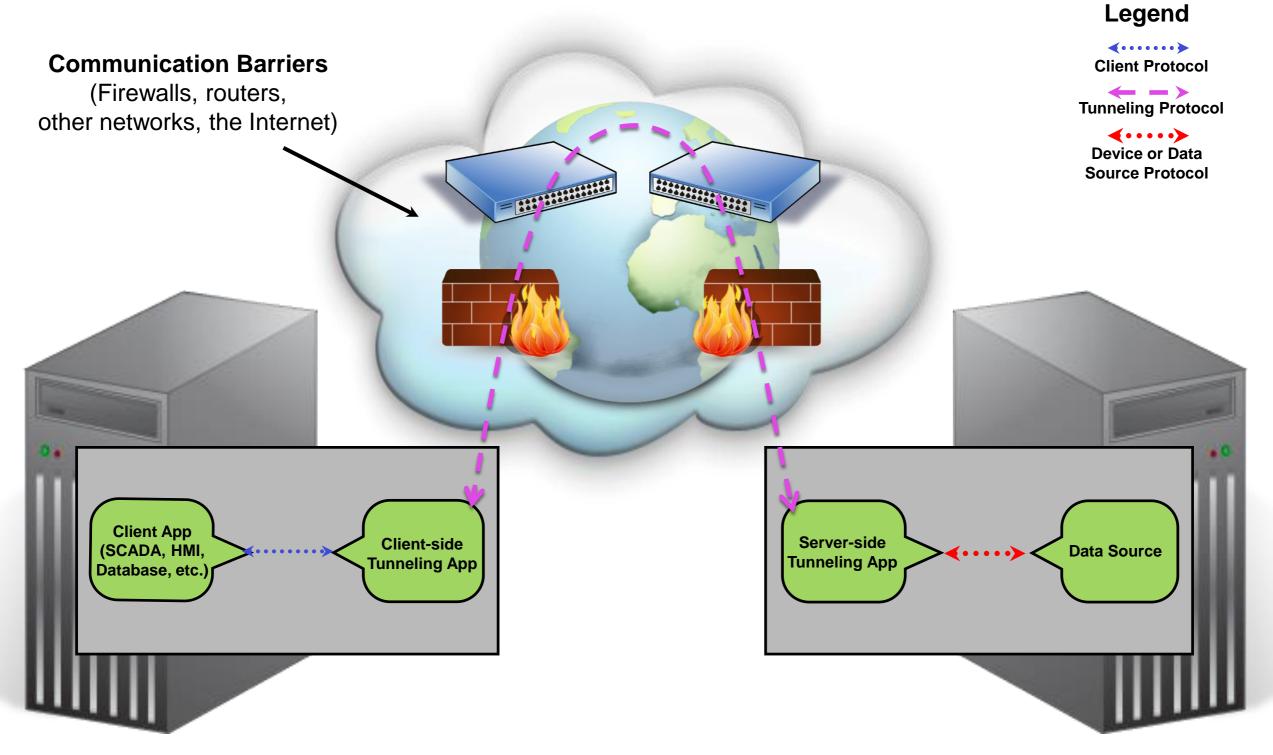
## What is Tunneling?

What does "tunneling" mean in this context?





#### What Does a Tunnel Look Like?







## What is Tunneling?

What would someone want to tunnel?

**Enable communications** across networks, routers, and Firewalls (i.e. the Internet)

Perhaps to:

- Allow an OPC DA client on one network to talk to a device or an OPC DA server on a different network
- Allow a non-OPC client on one network to talk to a device or OPC DA server on a different network
- Enable a device on one network to exchange data with a device on another network

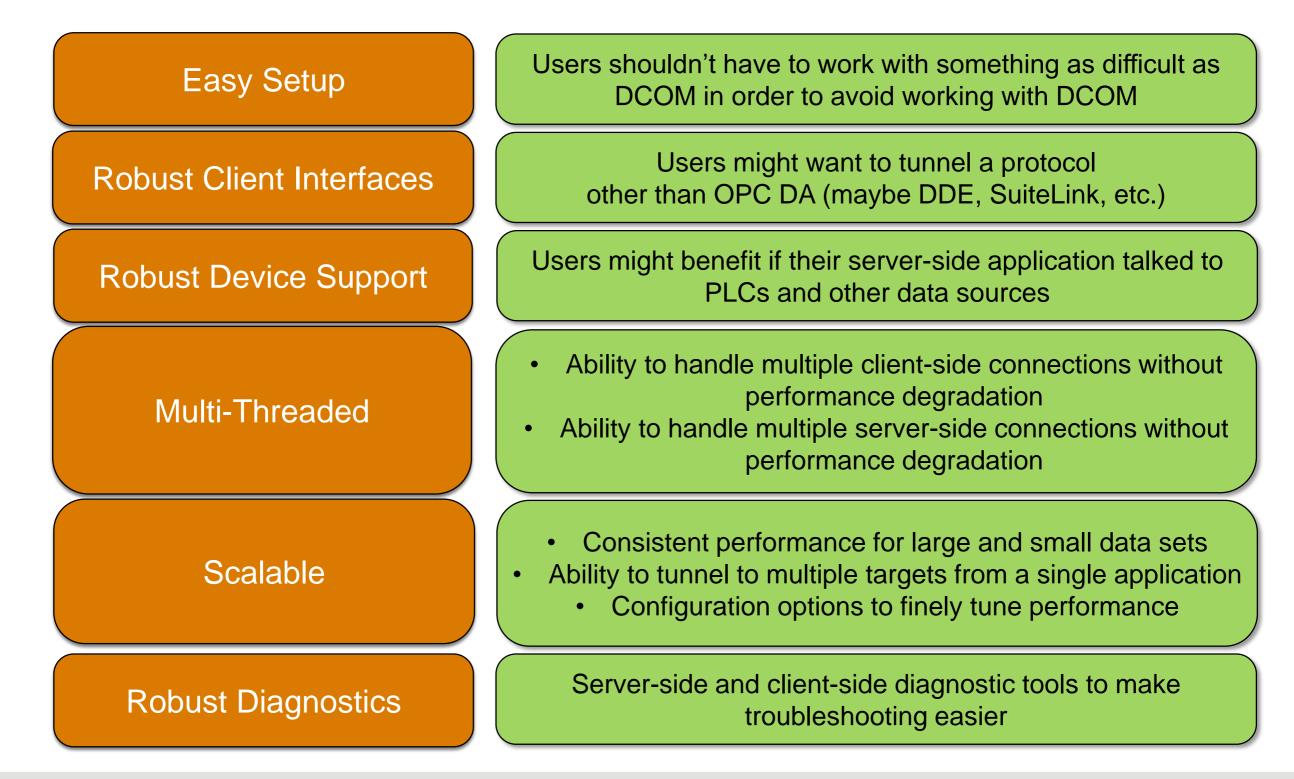


#### Add security to communications

 Some protocols are open and understandable by anyone with the protocol guide (like Modbus RTU)



#### What Makes a Great Tunneling Product?



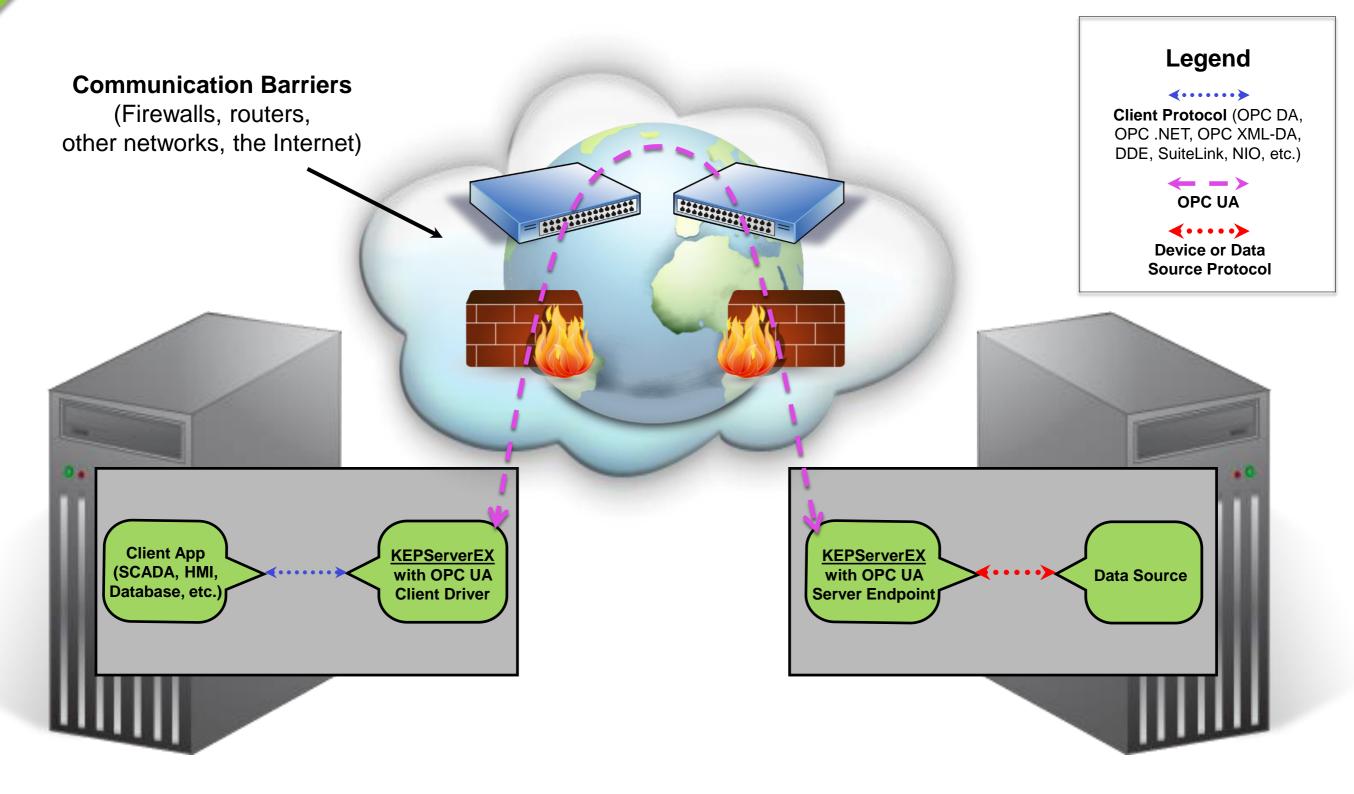






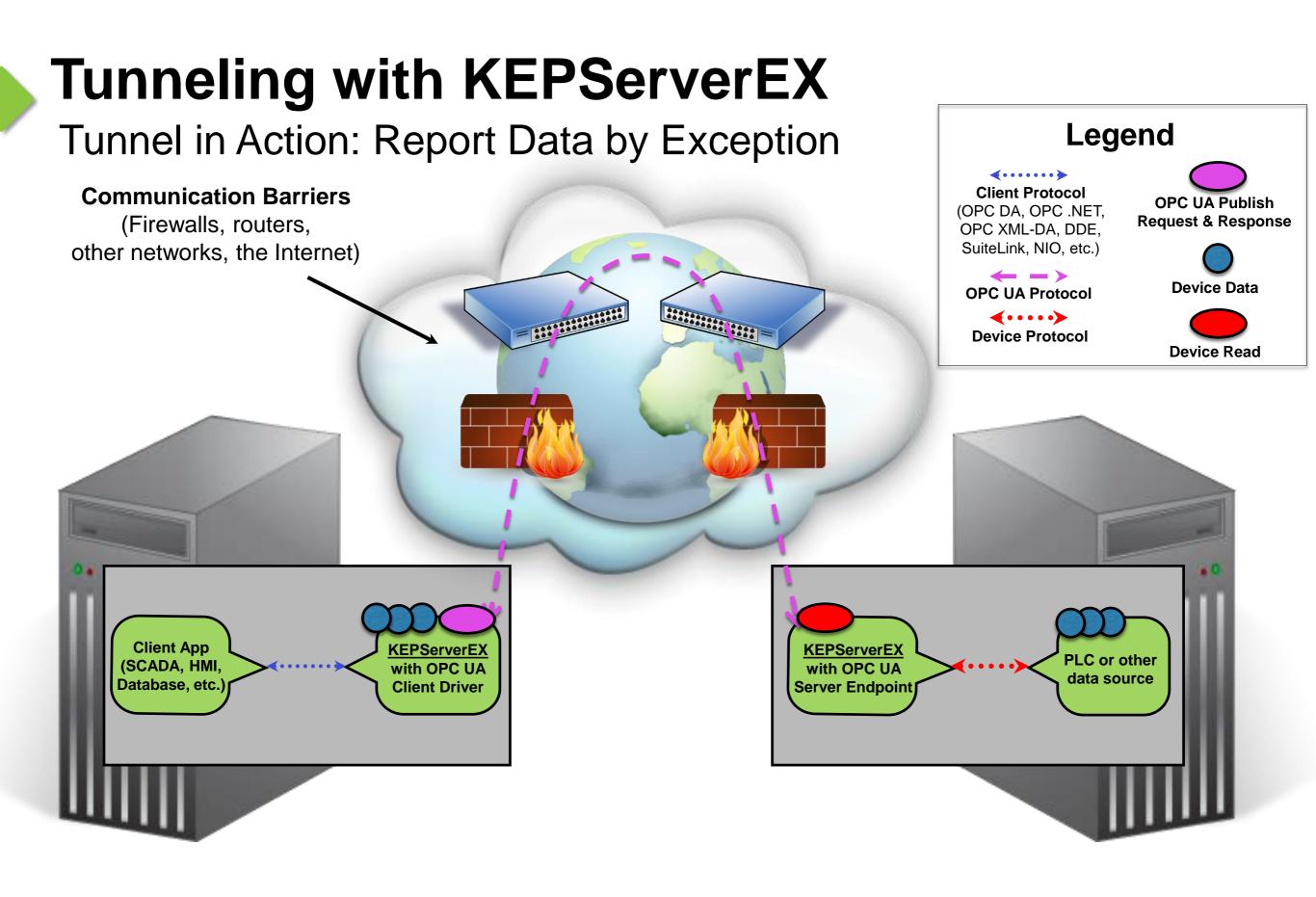






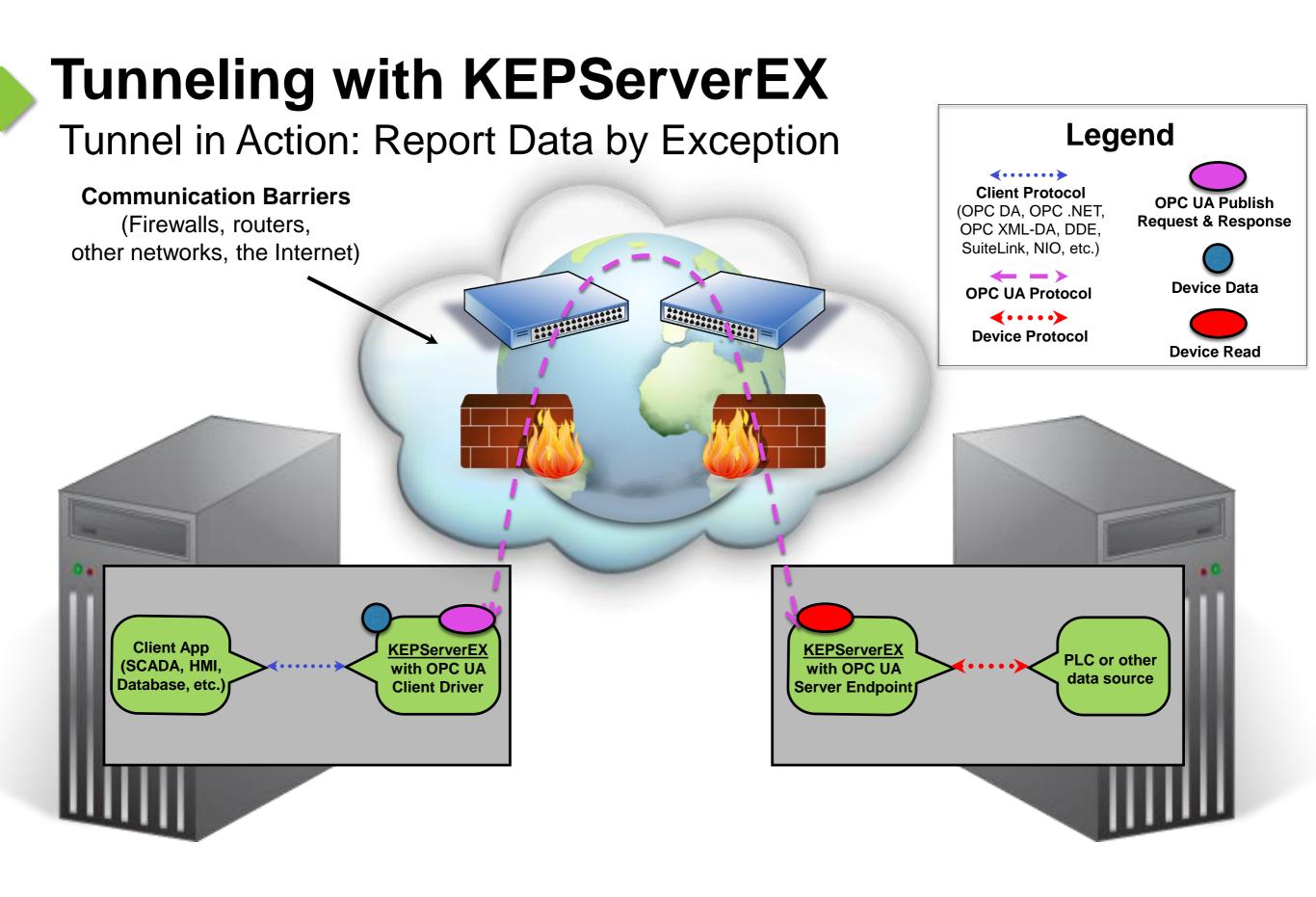






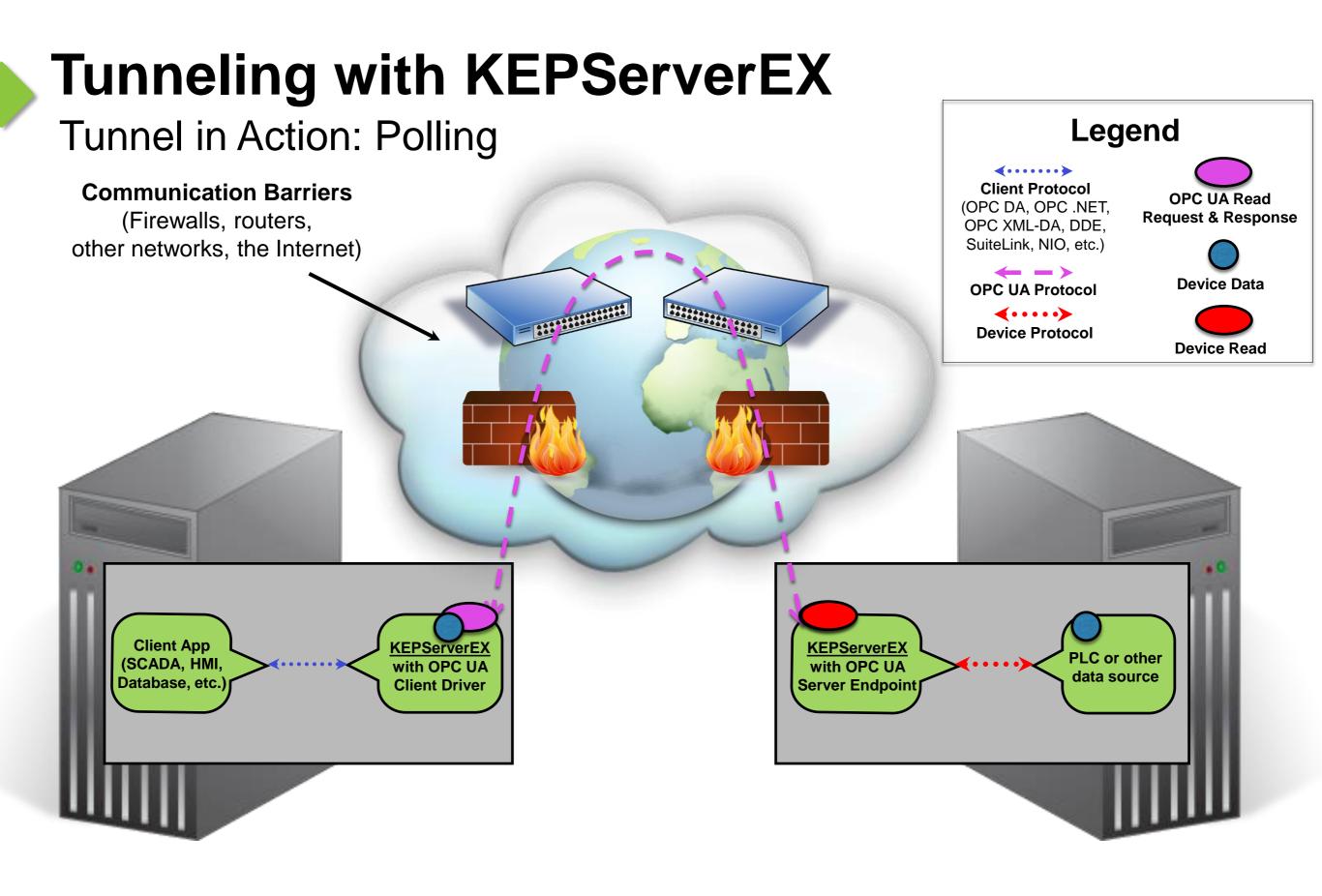






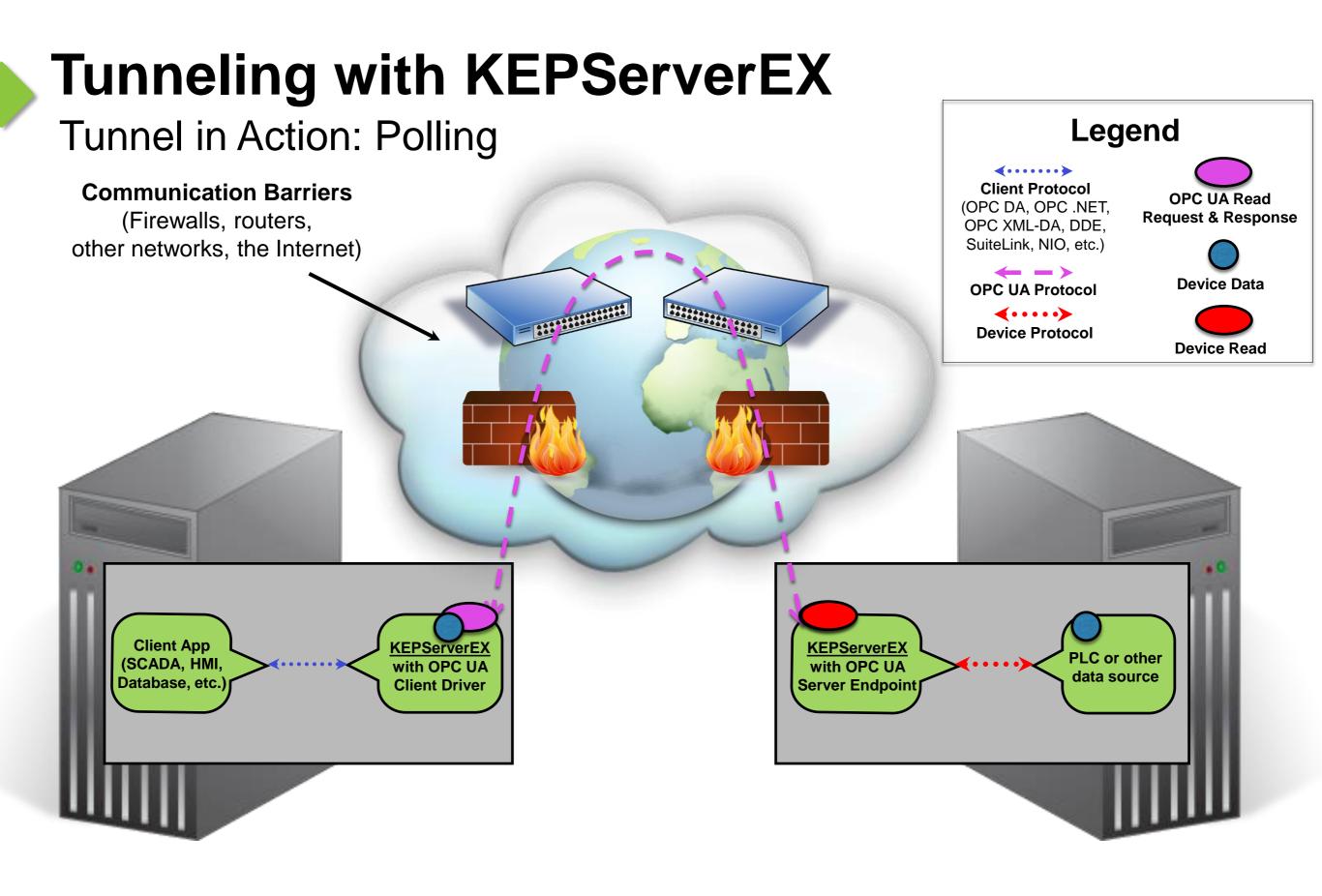










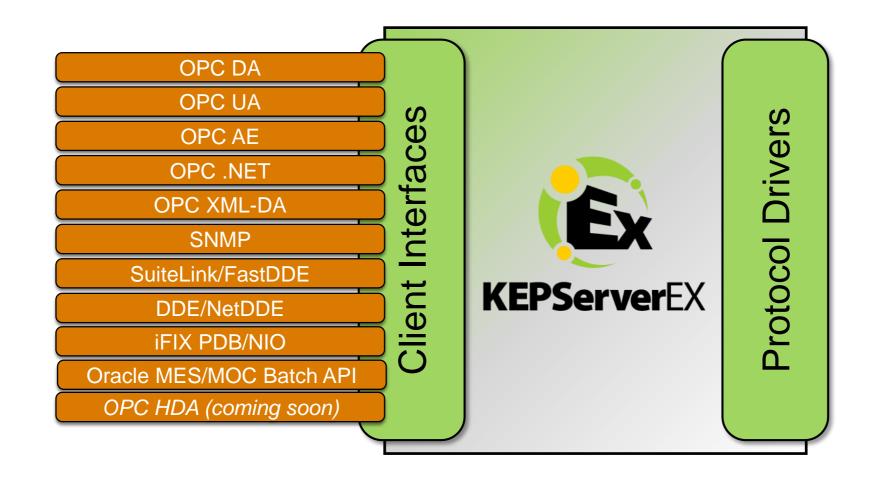






**Robust Client Interfaces** 

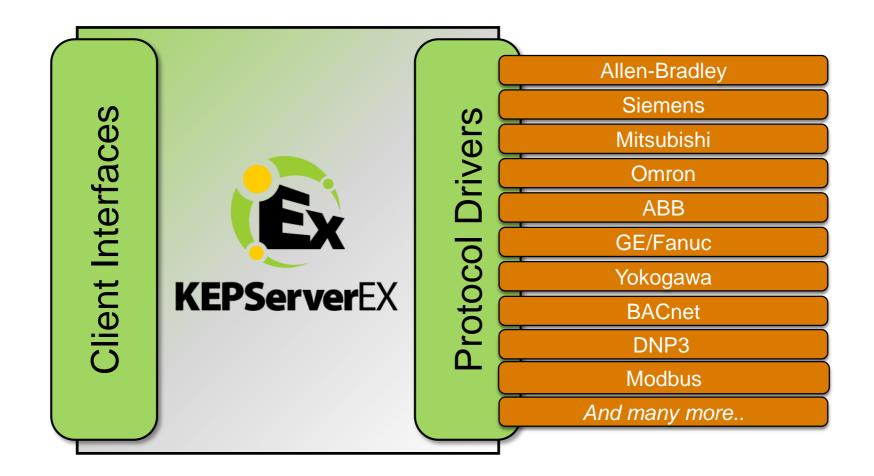
Client interface support includes OPC DA, OPC UA, OPC AE, OPC .NET, OPC XML-DA, SNMP, SuiteLink/FastDDE, DDE, NetDDE, iFIX PDB/NIO, Oracle MES/MOC Batch API, and OPC HDA (coming soon)





**Robust Device Support** 

KEPServerEX offers over 150 drivers that support over 300 unique communications protocols



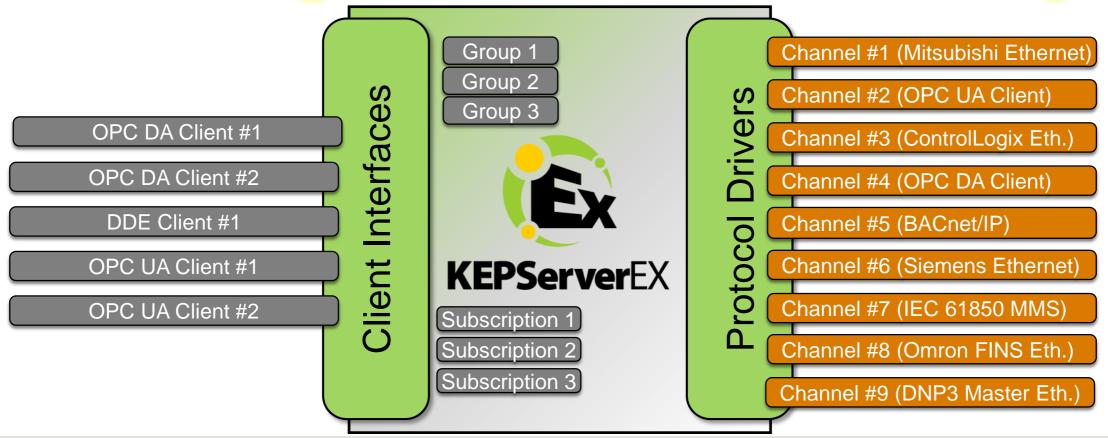


**Multi-Threaded** 

The KEPServerEX Communications Platform is highly multithreaded

- Each client connection is assigned its own thread
- Each OPC group or subscription that an OPC client adds is assigned its own thread
- Each Channel in the KEPServerEX project is assigned its own thread

#### **Multithreading Increases Performance and Stability!**

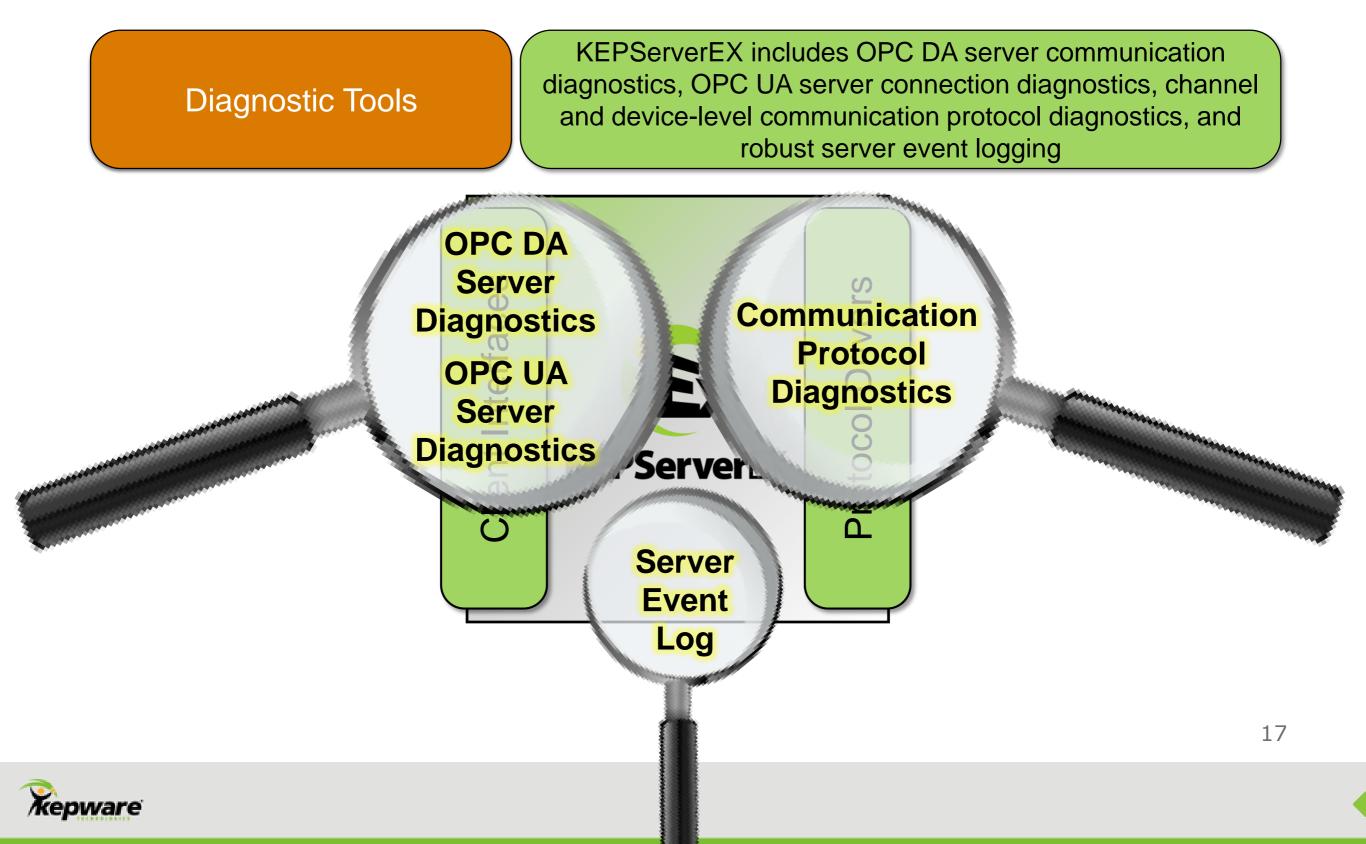


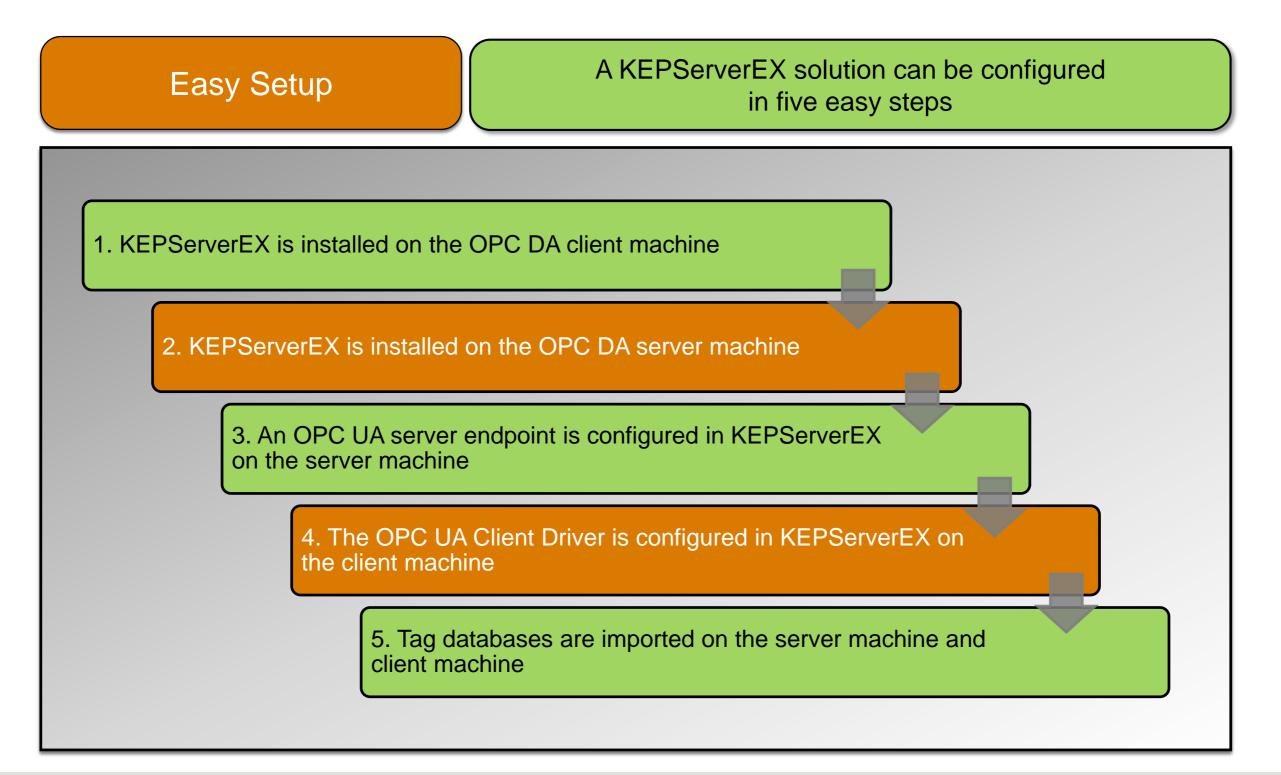


Scalable

A single copy of KEPServerEX can scale to communicate to hundreds of clients, thousands of devices, and millions of tags











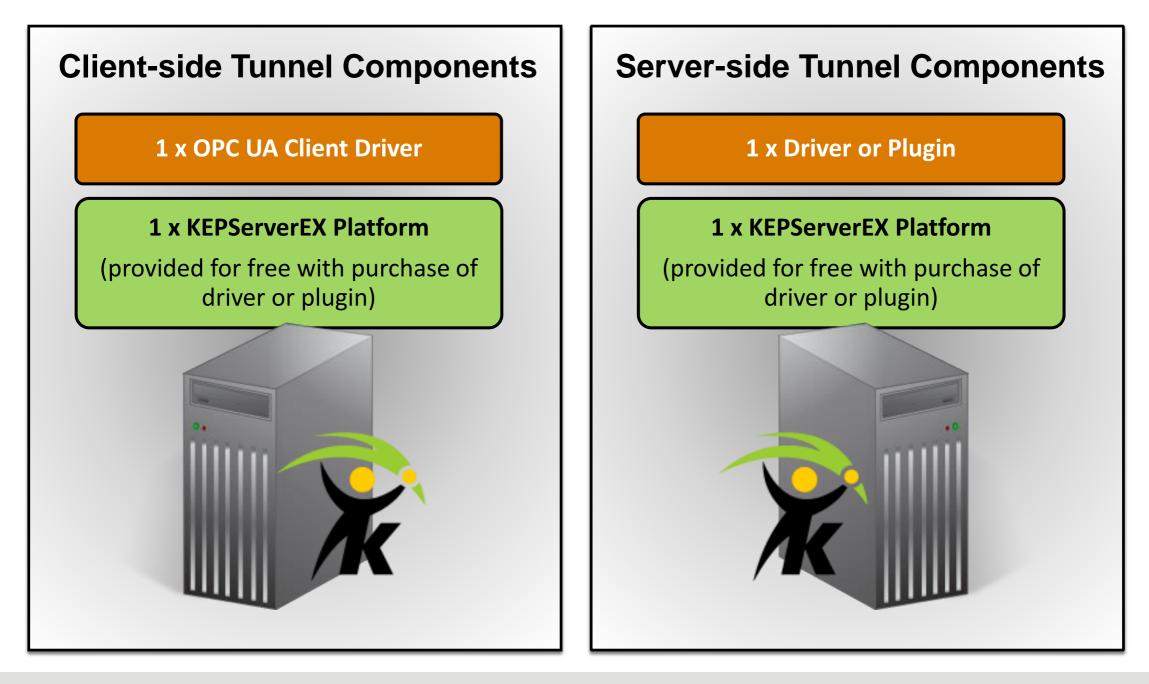
### **System and Product Requirements**





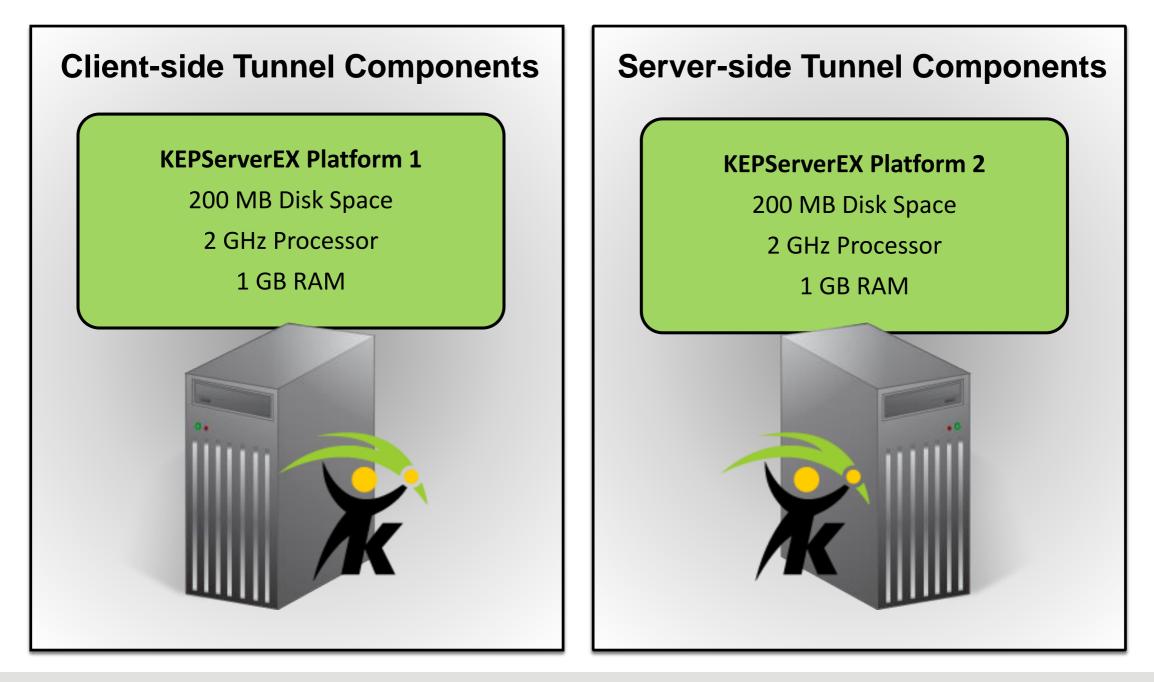


#### **Required Products:**





#### System Requirements:







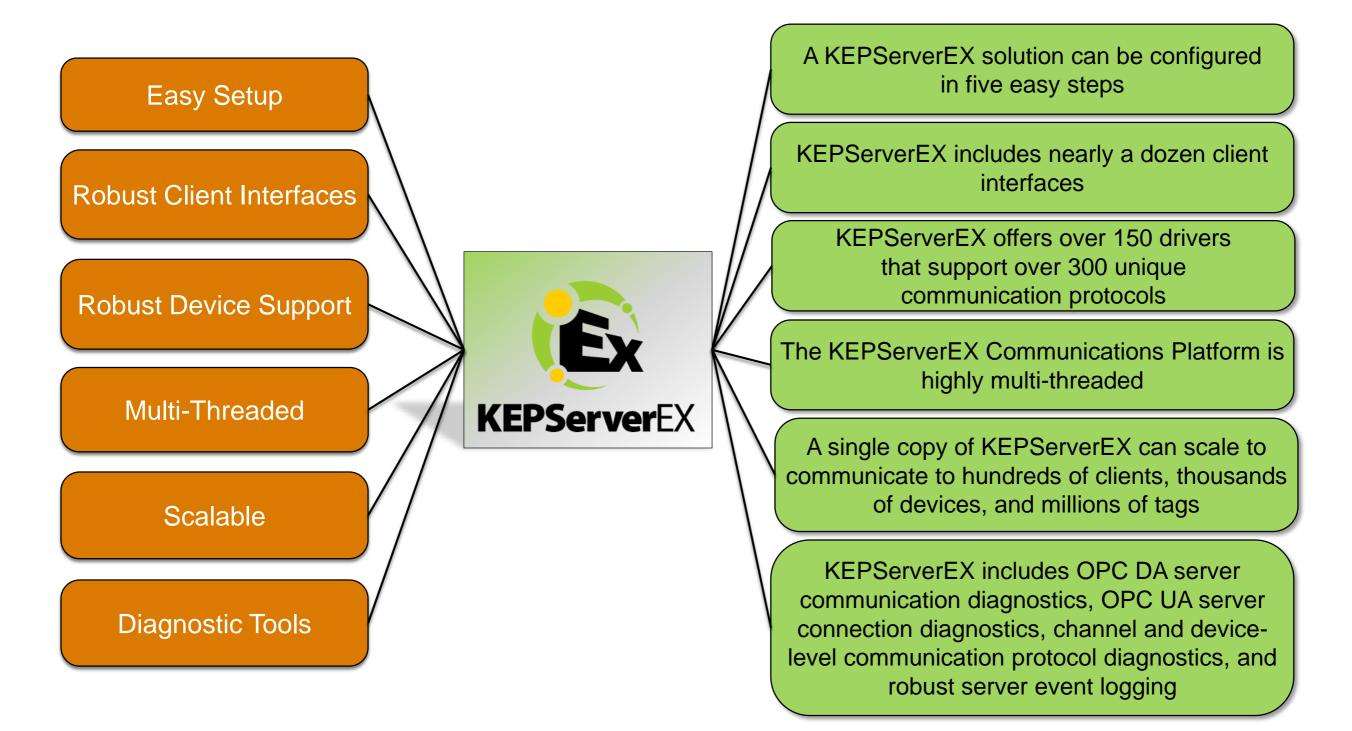
## Summary







#### **KEPServerEX: A Great Tunneling Product**







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