Real world OPC-UA use cases

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CONTENTS

• About Kepware
• KEPServerEX® - Universal Communications Platform
• Real world KEPServerEX® use cases
• Resources and Services
About Kepware Technologies
PROSPECTUS

Established in 1995

Located in Portland, Maine

20+ YEARS of developing connectivity software for the Industrial Automation Industry

Extending PTC’s reach in Manufacturing with industrial connectivity solutions for the IoT

Strong History of Growth and Expansion

Industries Served

- Manufacturing
- Oil & Gas
- Building Automation
- Power
- IT & Infrastructure

Novotek

Map of the world with icons of various industries and awards.
KEPServerEX®
Universal Communications Platform
BUT MODERN COMMUNICATIONS ARE MORE DEMANDING

- **Global Connectivity** – across a shop-floor or across the world
- **Integration & interoperability** between production, non-production, business & IT systems
- **Data security** and integrity at every level
- **Real-time performance** & 24/7/365 reliability
- **Centralisation, simplification & standardisation** of industrial data solutions
- **Business continuity**, through Diagnostics, Redundancy & Recovery capabilities
kepserverex® IS DESIGNED FOR THESE TYPES OF APPLICATIONS
A ENTERPRISE-WIDE CONNECTIVITY PLATFORM

- Multi-Language support
  - English, German & Japanese
- Multi-layer Interoperability
  - Production layer connectivity
  - IT & business-system layer connectivity
  - IoT & Cloud connectivity
- Deep diagnostics on all client-side interfaces

- Programmatic KEPServerEX configuration from 3rd-party, custom applications
- Extended functionality through Plug-in options

- 150+ Data Source Drivers
- High-performance server core
- Deep diagnostics on all source drivers
- Media level redundancy for critical data
SECURE DATA TUNNELING

OPC UA Client Driver

- Utilises OPC UA, a non-proprietary, open-standard protocol
- Creates a secure, authenticated connection through firewalls and across networks, with any standard OPC-UA Server
- Can be added to legacy OPC-DA installations, to eliminate reliance on Microsoft COM and DCOM technology
Real world KEPServerEX® use cases
REMOTE OPC-DA CONNECTION – OIL&GAS
CONNECT IT AND OT NETWORKS - PHARMA

- PI_1
  - DA Client
  - DA Server
  - UA Client

- PI_2
  - DA Client
  - DA Server
  - UA Client

- RCN_1
  - DA Client
  - UA Client

- RCN_2
  - DA Client
  - UA Client

- CUG_1
  - DA Client
  - BACN
  - Siemens

- CUG_2
  - DA Client
  - BACN
  - Siemens

- DA Server
- UA Server
- BACN
- Siemens

- Tableting
- Granulating
- Coating
- Blister lines
- Washing machines
- Utilities: HVAC, Water Plant

- Purple: OPC-UA
- Green: OPC-UA
- Yellow: OPC-UA
INTERNET OF THINGS (THINGWORX PLATFORM)
Resources & Services
Product Training explores Kepware’s solutions for Industrial Automation and the Internet of Things.

- Monthly training course in Portland, Maine
- On-site classes available upon request
- On-the-road training opportunities at special events

Topics include:
- Optimizing server communications
- Implementing diagnostic tools for troubleshooting and debugging
- Using leading technology like REST for web connectivity and OPC UA for tunneling secure data
ONLINE RESOURCES

Kepware.com
• Access fully-functioning demo downloads, in-depth product information, an extensive video collection, and case studies, whitepapers, and eBooks

Social Media
• Stay up to date on product news, job opportunities, industry events, and photographs

Blog
• Explore industry trends and technology, Kepware’s culture and news, and tradeshow and event synopses
CONNECT WITH US

Kepware official Preferred Distributor in the Nordics and Benelux

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Request a pre-sales consultation or pricing information
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Training
Attend hands-on, customized training classes
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Technical Support
Get assistance from experienced engineers
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- technical.support@kepware.com

Blog
Stay up to date on the latest in automation and communications
- https://info.kepware.com/blog/

Social Media
Find product news, industry updates, event coverage, and more
Thank you!