WITS DNP3 OPC Server

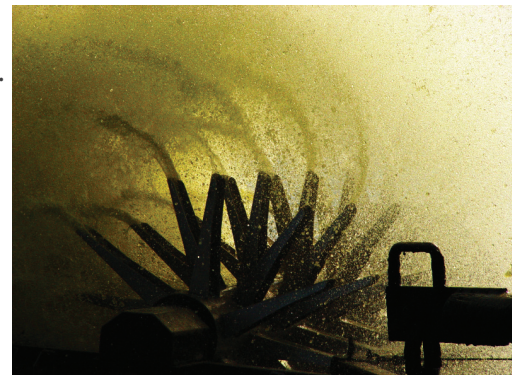## KEPServerEX – Communications Platform

Due to increasing environmental concerns, legislation, and business demands, there is a growing need to improve efficiencies within the control systems of the Water Industry. Assets must be updated so that new strategies can be implemented for reducing operating costs and improving the bottom line.

The Water Industry Telemetry Standards (WITS) group was formed to address these concerns and develop a standard method for data transmission between field devices and master stations. After extensive studies, the WITS group chose the existing, proven, open-standard DNP3 protocol as the best foundation. WITS enhancements and functions have since been added to tailor it to meet the specific needs of telemetry systems within the Water Industry.

Kepware's support for the WITS communications protocol sits on top of the existing DNP3 Ethernet and Serial communication drivers. KEPServerEX is the foundation for Kepware's WITS-DNP3 drivers, and providing access to more than 140 other protocols and communication options that allow communications with devices and systems from all major automation vendors. Thus, KEPServerEX provides a single, consistent interface through which users can maximize equipment performance and application connectivity. These communication options can be combined to provide the exact solution needed, while delivering a scalable architecture to meet future requirements.

Driver Features

- Communication Serialization to Limit Data Transmission (DNP Ethernet Driver).

- Supports for 1024 DNP Devices Ethernet Encapsulation (DNP Serial Driver).

- Advanced Time Synchronization (DNP Serial Driver).

- Supports Individual Event Class Polling.

- Supports Integrity Polling.

- Supports Advanced Time Synchronization (DNP Serial Driver).

- Supports Event Playback.

- Supports Direct Operate or Select then Operate Sequence.

- Supports WITS-DNP3.

- Supports WITS Asset management/Device Information.

- Supports WITS Security (Authentication).

- Supports WITS Data Sets.

- Supports Analog State, Counter State Changes, and Binary State Changes.

- Supports Field Device Health Check and Alarm Inhibit Changes.

- Supports Unsolicited Messaging with Event Class.

KEPServerEX

Proven Interoperability

- **150+ Communication Drivers with More than 250 Unique Protocols.**
- **Supports Open Standard Interfaces:**
  - **DDE Formats:** CF_Text, XL_Table, Advanced DDE, and Network DDE.
  - **OPC Alarms and Events (OPC AE):** 1.0 and 1.10.
  - **OPC Data Access (OPC DA):** 1.0a, 2.0, 2.05a, and 3.0.
  - **OPC .NET:** 1.20.2.
  - **OPC Unified Architecture (OPC UA):** 1.01.
  - **Thin-Client Terminal Server:** Windows Remote Desktop.
- **Supports Native Vendor Interfaces:**
  - Wonderware FastDDE & SuiteLink.
  - GE NIO for iFIX.
  - Oracle.
- **Advanced OPC and Channel Diagnostics.**

Centralized Communications

- **Single Server Platform for All Communications.**
- **Consistent, User-Friendly Interface.**
- **Automatic Tag Generation.**
- **CSV Import/Export.**
- **Advanced Tags for Linking and Computations.**
- **Write Optimization and Error Recovery.**
- **Advanced User Management.**

On-Demand Scalability

- **Plug and Play Device Drivers and Communication Options.**
- **Parallel Configuration and Live Operation via Separate Configuration and Runtime.**
- **Multi-Threaded Channel Architecture.**

Industrial Strength

- **OPC Certified Compliance.**
- **Strict Internal Quality and Control Standards.**
- **Endorsed by 15 Top OEMs.**

Requirements

Supported Operating Systems

- ☑ Windows 7
- ☑ Windows Server 2008
- ☑ Windows Vista Business/Ultimate
- ☑ Windows Server 2003 SP2
- ☑ Windows XP SP2

Minimum PC Hardware Requirements

- ☑ 2.0 GHz Processor.
- ☑ 1 GB installed RAM.
- ☑ 180 MB available disk space.
- ☑ Ethernet Card.
- ☑ Super VGA (800x600) or Higher Resolution Video.

About Kepware

Kepware Technologies, established in 1995, develops a wide range of communication and interoperability software solutions for the Automation industry. Our reliable, user-friendly, high-performing applications connect disparate software and hardware systems. Communications are managed through robust software platforms that support an array of open standards, propriety communication protocols, APIs, and automation systems' interfaces. We strive to deliver ideal-fit solutions that are designed and tested to meet the demands of industrial automation applications. Our quality software applications improve operations and decision-making throughout all levels of an organization. Kepware Technologies' mission is to become "Your Standard for Connectivity."

Contact Information

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