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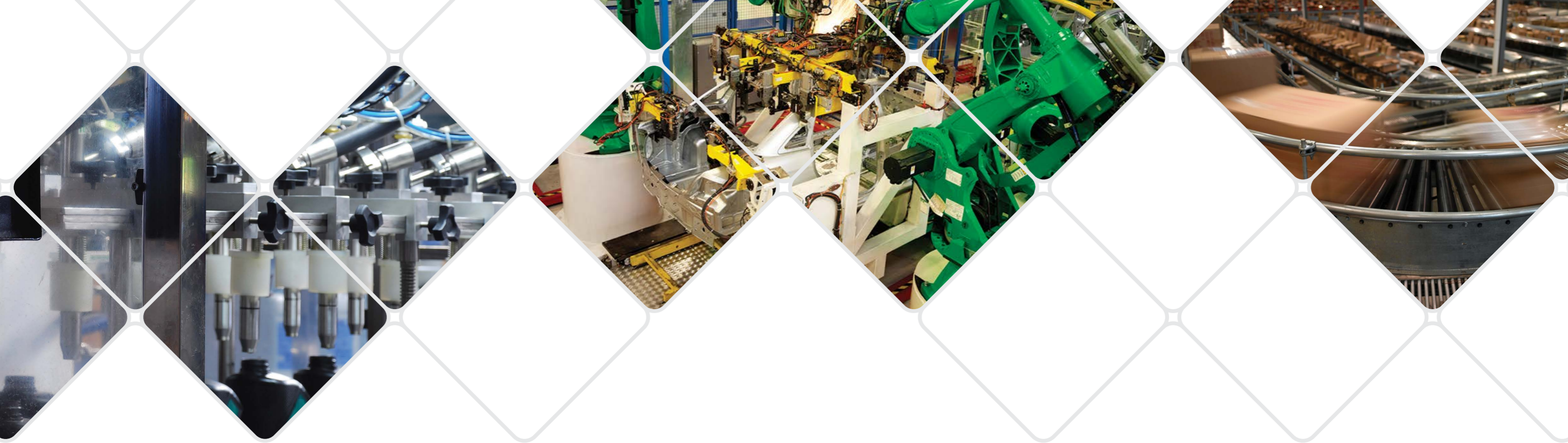
MANUFACTURING

Communications Solutions for
Industrial Automation and Control

kepware®

REAL-WORLD SOLUTIONS FOR REAL-WORLD CHALLENGES

With its wide range of machinery, automation, and applications, manufacturing plants face many communications challenges that ultimately affect safety, productivity, and profitability.

Kepware's KEPServerEX® communications platform enables users to connect, manage, monitor, and control critical production, facility, and infrastructure data through a standardized communication layer. Its industry-proven platform design allows you to meet the requirements unique to your plant's manufacturing environment.

Control and Monitor Production

Real-time production control and analysis requires information from all machines and equipment on the plant floor. If you can analyze your production data, you can optimize your line and ensure that your manufacturing systems are operating efficiently. The challenge in gaining and using this data comes from the very nature of the plant floor ecosystem, which often requires the ability to connect and communicate with many different devices from different manufacturers that speak a myriad of languages (or protocols).

KEPServerEX helps you manage data from disparate data sources by providing connectivity to the following industry-leading companies and technology:

- Automation equipment manufacturers, including GE, Mitsubishi, Omron, Rockwell Automation, Schneider Electric, and Siemens
- Protocol initiatives like Torque Tool, MTConnect, and OPC UA
- HMI, SCADA, MES, and ERP software via OPC DA, OPC HDA, and OPC UA
- Database applications like SQL, Access, and Oracle

ex With KEPServerEX handling device connectivity and interoperability within your manufacturing facility, you can easily collect, manage, and monitor all of the equipment on and around your plant floor.

FROM SHOP FLOOR TO TOP FLOOR

Kepware's industry-endorsed software solutions help companies improve operations and decision making throughout all business levels.

1. WAREHOUSING

Mettler Toledo
ODBC Client
U-CON

2. MACHINING AND MOLDING

Fanuc	Siemens
Krauss-Maffei	Simatic
Mitsubishi	U-CON
MTConnect	

3. PROCESS, ASSEMBLY, AND ROBOTICS

Allen-Bradley	Mitsubishi	Opto 22
Beckhoff	Modbus	Siemens
Fanuc	ODBC Client	Torque Tool
GE IP	Omron	Toyopuc
Micro-DCI	OPC Connectivity	

4. PACKAGING AND MATERIAL HANDLING

Allen-Bradley	Omron
Beckhoff	OPC Connectivity
IDEC	Siemens
ODBC Client	

5. QUALITY AND TEST

AutomationDirect	Scanivalve
Modbus	U-CON
Partlow	Yokogawa

6. POWER AND FACILITIES MANAGEMENT

BACnet	SNMP
DNP3	WAGO
IEC 60870-5	
IEC 61850	

7. SAFETY AND SECURITY

BACnet
Modbus
SNMP
System Monitor
U-CON

8. ENTERPRISE APPLICATIONS

Big Data/Analytics
ERP
IoT Platforms
MES/MOM
SCADA

Modern Manufacturing Plants Require Flexible Systems

Standardizing plant floor communications through a communications platform enables modern manufacturing plants to quickly implement new equipment and systems based on criteria unique to their specific needs—with minimal effect on existing infrastructure. Designed to streamline the deployment, management, and delivery of information, KEPServerEX simplifies the communications architecture, providing:

- Connectivity to an ever-growing list of devices and applications based on the current and future needs of the Manufacturing Industry

- Support for legacy, current, and future controllers' firmware and operating systems

- Industrial-strength solutions rigorously tested to withstand the most demanding industry requirements, including tools to support fault-tolerant redundant environments

Kepware's robust, reliable, and scalable software solutions deliver real-time insight into production on the plant floor.

Leveraging Plant Floor Information throughout the Enterprise

Decision making requires current, accurate, and detailed information. With access to real-time plant floor data, you can identify, respond, and resolve maintenance issues and problems before they impact productivity. The challenge comes in securely gaining access to frequent, robust, and reliable real-time and historical information.

Kepware's solutions enable visibility into process, product, and asset data across the factory to all levels of the connected enterprise by providing:

- Direct, simultaneous connections to all required clients, including ERP, MES, HMI, SCADA, Mobile, Big Data, and IoT platforms

- A unique platform architecture that can scale for applications with one protocol, one device, and one data point to hundreds of protocols, thousands of devices, and millions of data points

- Secure, authenticated, and encrypted communications from client to device across various network topologies

KEPServerEX is a key component to Industrie 4.0 and the Industrial IoT, providing connectivity and interoperability to today's Smart Factory.

About KEPServerEX

KEPServerEX is the industry's leading communications platform that provides a single source of industrial automation data to all of your applications. The platform design allows users to connect, manage, monitor, and control diverse automation devices and software applications through one intuitive user interface.

KEPServerEX leverages OPC (the automation industry's standard for interoperability) and IT-centric communication protocols (such as SNMP, ODBC, and web services) to provide users with a single source for industrial data.

To get started, simply download KEPServerEX and then select from Kepware's library of more than 150 device drivers, client drivers, and advanced options to fit your unique industrial control system requirements. To view and search the library, visit: www.kepware.com.

About Kepware

Kepware Technologies is a software development business of PTC Inc., headquartered in Portland, Maine. Kepware provides a portfolio of software solutions to help businesses connect diverse automation devices and software applications and enable the Industrial Internet of Things. From plant floor to wellsite to windfarm, Kepware serves a wide range of customers in a variety of vertical markets including Manufacturing, Oil & Gas, Building Automation, Power & Utilities, and more. Established in 1995 and now distributed in more than 100 countries, Kepware's software solutions help thousands of businesses improve operations and decision making.

OPERATIONS MANAGEMENT
PROCESS MANAGEMENT
CONTROL
PREDICTIVE MAINTENANCE
ENTERPRISE INTELLIGENCE
MEASUREMENT
OIL & GAS
MANUFACTURING
POWER & UTILITIES
PACKAGING
IT / NETWORK
FACILITIES MANAGEMENT

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