

OPC and Industrie 4.0



Prospectus

Established in 1995





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

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

120+ Employees

STRONG HISTORY OF GROWTH AND EXPANSION





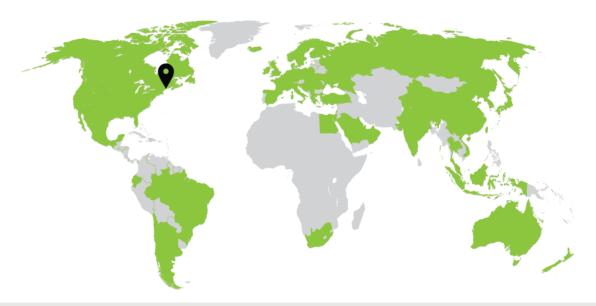




















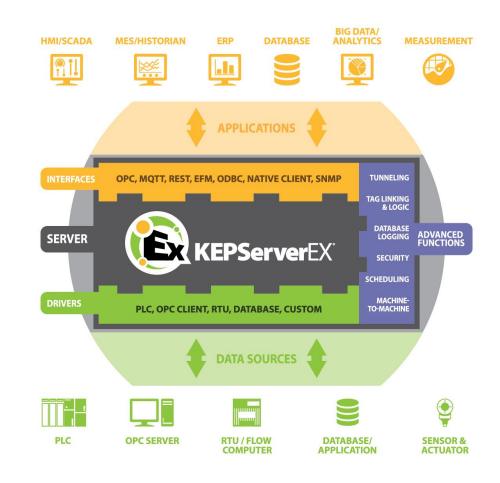






KEPServerEX Connectivity Platform

- Offers a library of 150+ device drivers, client drivers, and advanced plug-ins—supporting thousands of devices and other data sources
- Provides industrial operations data to traditional Industrial Automation clients (via OPC and proprietary protocols) and new IoT solutions (via MQTT and IT-centric protocols)
- Meets the highest standards of quality through third-party validation

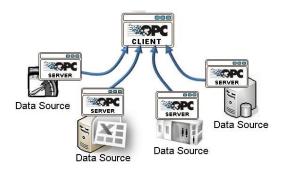


Kepware and OPC

OPC Foundation member since 1998

OPC Specifications:

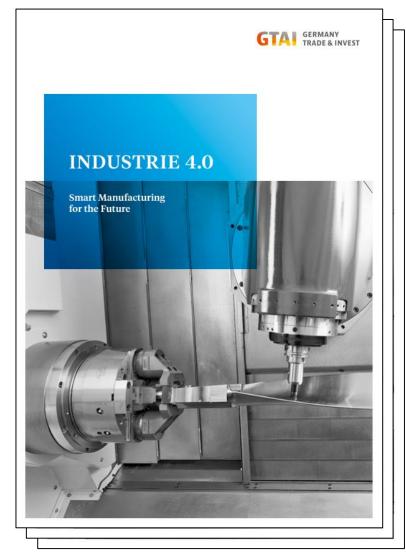
- OPC Data Access (DA)
- OPC Alarms and Events (AE)
- OPC Historical Data Access (HDA)
- OPC XML Data Access (XML-DA)
- OPC.NET
- OPC Unified Architecture (UA)







Industrie 4.0 and the Smart Factory



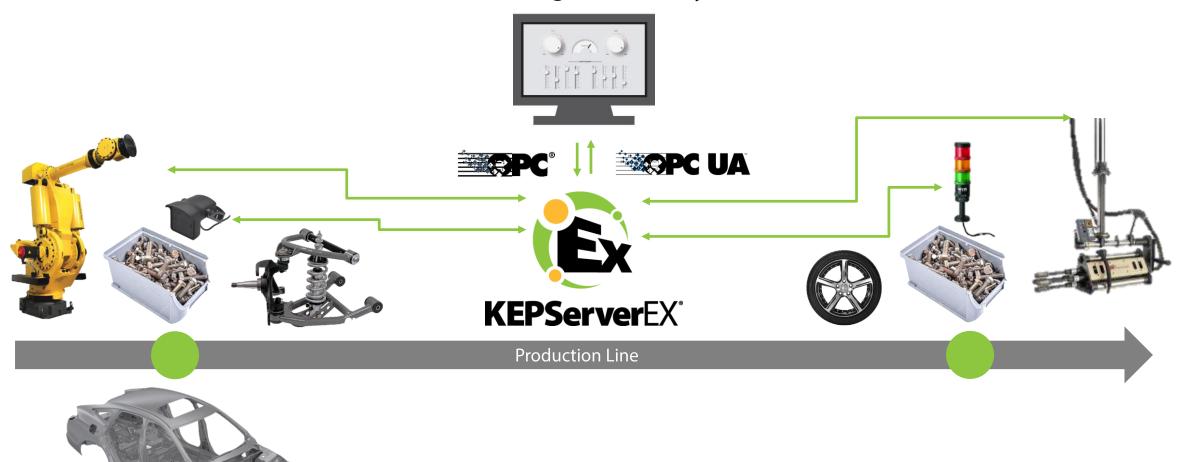
Key advantages of smart factory production:

- Self-aware factory units
- Manufacturing optimized for an individual customer
- Resource efficient production
- Machine adaptability to human work cycle

Source: DFKI/GTAI

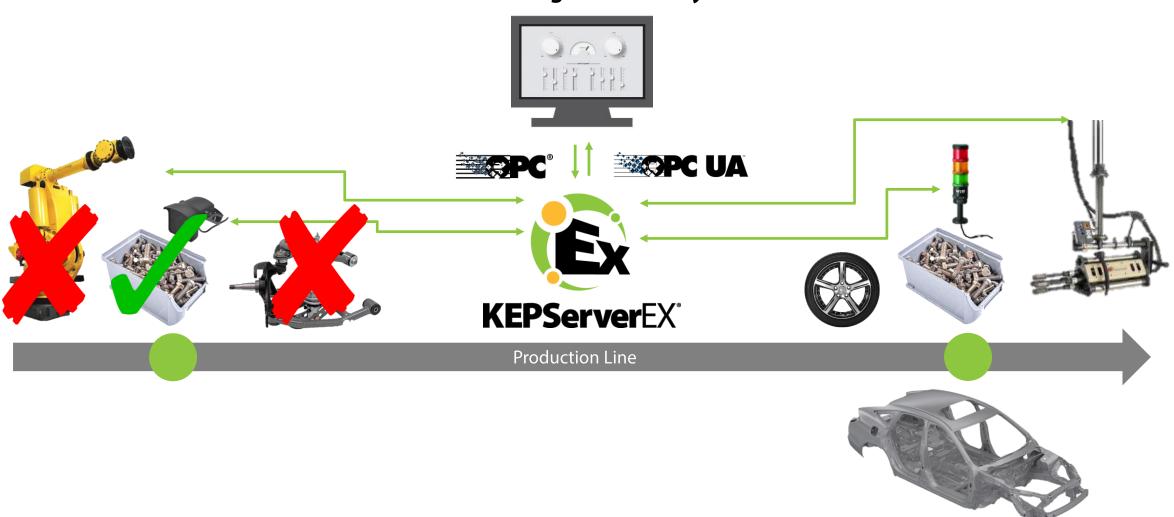


Manufacturing Execution System



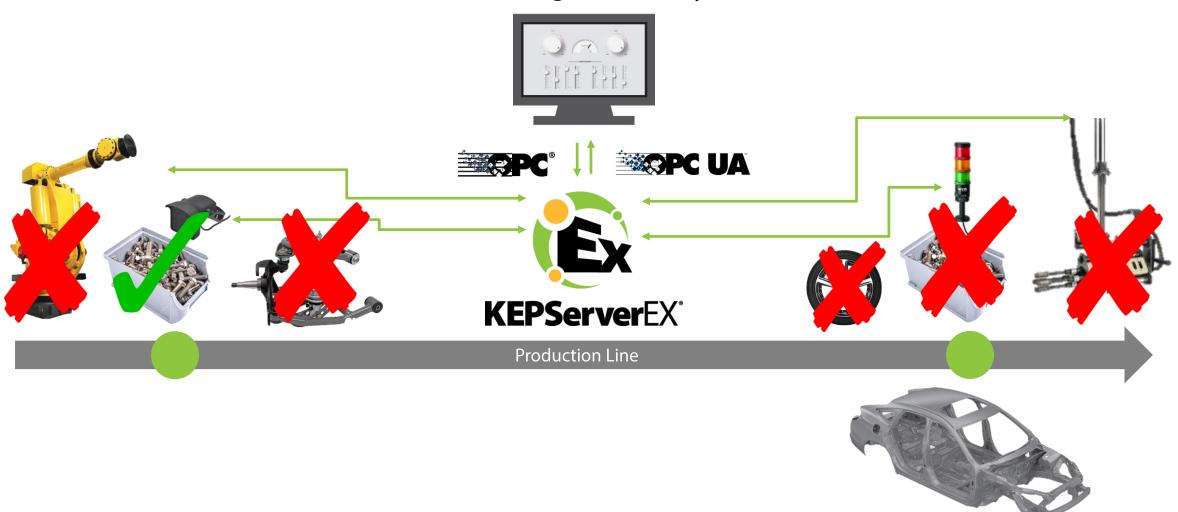


Manufacturing Execution System

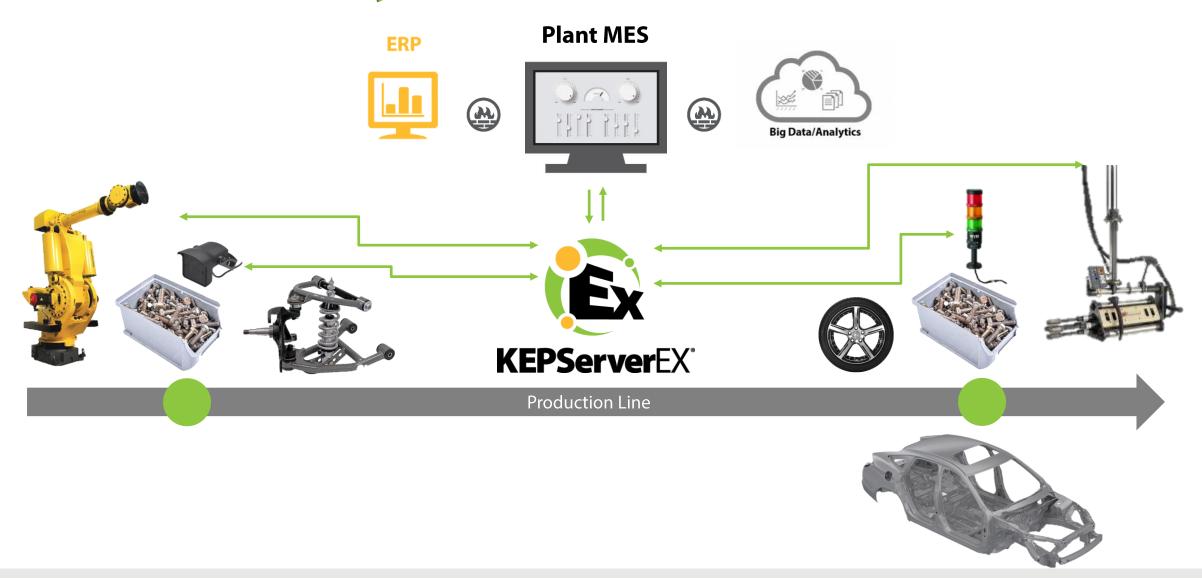


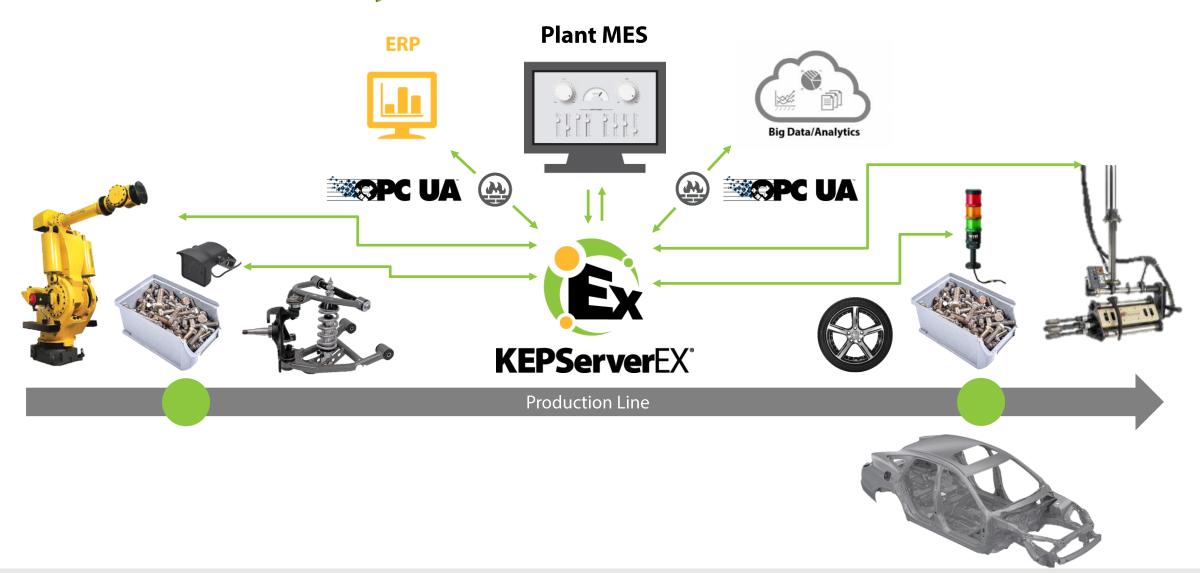


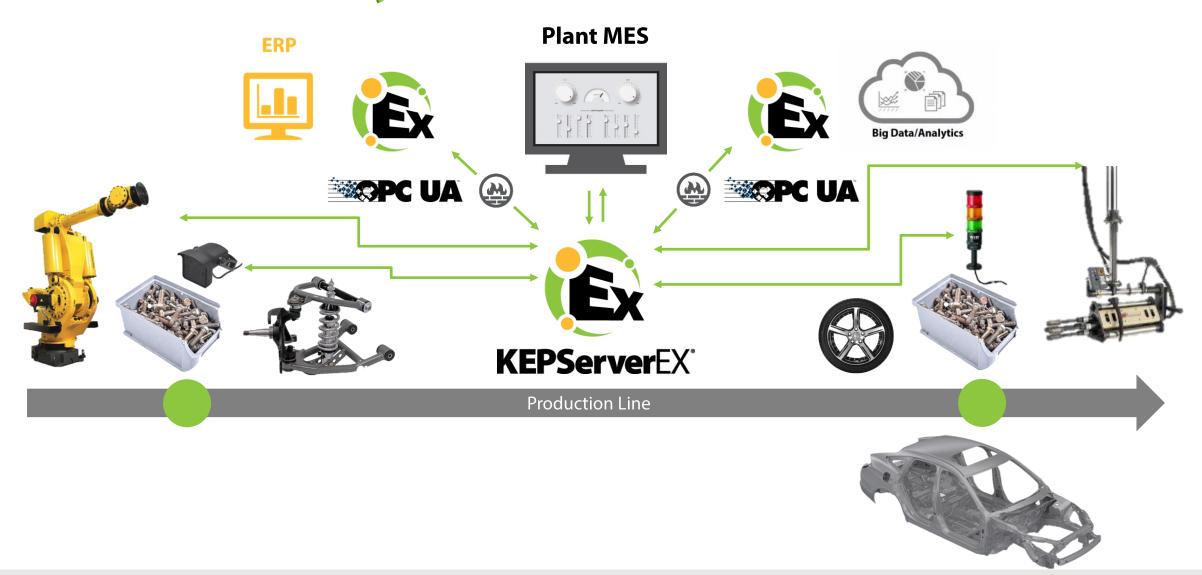
Manufacturing Execution System











KEPServerEX Roadmap

- OPC UA: Native development of core OPC UA technology
 - Improved performance, stability, and diagnostics
 - Creates a foundation for support of higher level OPC UA features, including:

Nano Profile

Methods

Discovery

Historical Data

Complex Data

Alarms & Conditions

- Localization: German and Japanese translation for core functions and key drivers
- Configuration API: REST-based API for the configuration of channels, devices, and tags
- Licensing: Improved experience for online servers, annual support, and demo trials
- User Interface: Unified project browser, standardized property model grid, improved wizard, and more



