

**FANUC Showcases New
FIELD System IoT Technology
With ZDT Monitoring Software at
IMTS 2016**

For Immediate Release

ROCHESTER HILLS, MI – (Sept. 12, 2016) FANUC CORPORATION, the world's leading supplier of robotics and factory automation will demonstrate its new FANUC Intelligent Edge Link and Drive (FIELD) system that provides advanced analytics and deep learning capabilities for FANUC CNCs and robots, peripheral devices and sensors used in automation systems at IMTS 2016, booth #S-8919.

The FIELD system allows applications such as Zero Down Time (ZDT) or capabilities such as deep learning or machine learning to be applied in the Edge level of a factory site. The FIELD system is based on Edge computing where a large amount of data is processed within the manufacturing site, minimizing the volume and cost of sharing data, while also providing a secure connection to the Cloud for suitable applications. The data that is on the FIELD system from various machines can also be used for collaboration among equipment, performance optimization, improved traceability and quality control.

FANUC collaborated on the development of FIELD with Cisco, the worldwide leader in IT-enabled digitization; Rockwell Automation, the world's largest company dedicated to industrial automation and information solutions; and Preferred Networks, a leading provider of Artificial Intelligence solutions.

FIELD consists of hardware and software that allows multiple external computing devices to be added to the plant network in a highly secure manner. The software suite is composed of both open source and proprietary licensable products (from Cisco and Preferred Network). Once the FIELD software is loaded and configured, the machine data from all the automation equipment including CNC machines and robots can then be accessible to application developers through an open Application Programming Interface (API). The easy access to machine data significantly reduces the effort for a third party to develop applications to run on the FIELD system, providing a variety of monitoring, analytic and real-time functions.

At IMTS, FANUC will demonstrate FIELD's connectivity to a versatile range of products including CNCs, robots, ROBOMACHINES, and Rockwell Automation programmable automation controllers (PACs) using a variety of monitoring/data collection protocols including FANUC's MT-Link *i* and ROBOMACHINE Link *i*, EtherNet/IP and HTTP. The display will show live data being monitored by the FIELD system for all equipment in the FANUC booth, including progressive CNC functions and deep learning. Another display

will show the development process for FIELD applications and data being collected from automation equipment.

“FIELD is the next generation of intelligence for FANUC,” said Joe Gazzarato, director of product development, FANUC America. “We’re showing customers that the FIELD system will enable new applications that can drive significant improvements in machine reliability, quality, flexibility and speed to elevate manufacturing efficiency and profitability.”

The FIELD system is scheduled for release by the end of the year.

Zero Down Time

ZDT, an application that runs on FANUC’s FIELD system, currently collects data from more than 6000 robots in 26 factories. ZDT monitors these robots to see if the application is causing abnormal wear that could lead to a failure, and if so, FANUC sends parts with support to address the issue before any downtime occurs. With ZDT, FANUC also keeps track of robot usage and sends reminders at appropriate intervals to ensure important maintenance activities are completed on time. As the FIELD system and ZDT grow in the marketplace, FANUC will be able to help more customers with intelligent condition-based maintenance notifications and help optimize the performance and life of their robots.

At IMTS, a ZDT data collector running on a Cisco UCS (server) will collect data on all robots in the FANUC booth and send it to the cloud. Monitors will show the benefits of ZDT and each robot’s health data available in the cloud such as RV, motor, E-stop, energy usage, maintenance reminders, etc.

ZDT will also collect and monitor data in the cloud for robots at ACME Manufacturing (booth #N-7255), Rockwell Automation (booth #E-4357), and Methods Machine Tools, Inc. (booth #S-9119). A Cisco 809 router running FANUC’s ZDT data collector will send messages from those external booths to the FANUC ZDT data center in the cloud for analysis and reporting.

“The convergence of Internet of Things and industrial manufacturing has begun. Connectivity to equipment on the factory floor is growing at a rapid pace,” added Gazzarato. “This connectivity opens the door to new sources of data enabling applications that can leverage this data to deliver real business value.”

About FANUC CORPORATION

FANUC CORPORATION, headquartered at the foot of Mt. Fuji, Japan, is the global leader and the most innovative manufacturer of Factory Automation, Robots and ROBOMACHINE’s in the world. With 252 offices in 46 countries, FANUC provides

world-class service and support to customers globally. Since its inception in 1972, FANUC has contributed to the automation of machine tools as a pioneer in the development of computer numerical control equipment. FANUC technology has been a leading force in a worldwide manufacturing revolution, which evolved from the automation of a single machine to the automation of entire production lines. For more information visit: <http://www.fanuc.co.jp/eindex.htm>.

About FANUC America Corporation

FANUC America Corporation is a subsidiary of FANUC CORPORATION in Japan, and provides industry-leading robotics, CNC systems, and factory automation. FANUC's innovative technologies and proven expertise help manufacturers in the Americas maximize efficiency, reliability and profitability.

FANUC America is headquartered at 3900 W. Hamlin Road, Rochester Hills, MI 48309, and has facilities in: Atlanta; Boston; Charlotte; Chicago; Cincinnati; Cleveland; Houston; Los Angeles; Minneapolis; Montreal; Pine Brook, NJ; Pontiac, MI; San Francisco; Seattle; Toronto; Buenos Aires, Argentina; Sao Paulo, and Manaus, Brazil; and Aguascalientes, Mexico City, and Monterrey, Mexico. For more information, please call: 888-FANUC-US (888-326-8287) or visit our website: www.fanucamerica.com. Also, connect with us on [YouTube](#), [Twitter](#), [Facebook](#), [Google+](#) and [LinkedIn](#).

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