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ICONICS Announces IoTWorX™ for Azure IoT Edge

Nuremberg, Germany – SPC/IPC/Drives 2018 – November 27, 2018 – ICONICS is a global automation software provider and six-time winner of the Microsoft Partner of the Year award, providing advanced web-enabled OPC UA and BACnet certified visualization, analytics, and mobile software solutions for any energy, manufacturing, industrial or building automation application. ICONICS announces version 10.96 of its IoTWorX™ Industrial Internet of Things (IIoT) automation software suite for IoT edge devices, including support for multiple operating systems and a new MQTT-based information broker.

IoTWorX 10.96 will bring advanced flexibility, security, and intelligence to any cloud application. Multiple modules ("containers") from multiple vendors (for example, Microsoft Azure IoT Edge) can run together in an IoTWorX gateway, either in isolation or in a shared environment. The solution can also utilize Docker-compatible containers running ICONICS cloud services at the edge. Users will benefit from IoTWorX' new local IoT Collector, which integrates with ICONICS' Hyper Historian™ and offers "lite" data collection and trending local to the gateway device.

"The latest version of ICONICS IoTWorX provides users greater access to the benefits of cloud integration," said Tom Buckley, Global IoT Business Development Manager at ICONICS. "This includes intensive fault analytics, advanced visualization, support for additional operating systems, and other capabilities thanks to Microsoft Azure and other cloud service providers."

IoTWorX 10.96 also supports simple, easy-to-use device provisioning. Based on Microsoft's Device Provisioning Service for those devices that support the Trusted Platform Module (TPM) standard, minimal user interaction is needed, making it possible to provision thousands of devices in a secure and scalable manner across the enterprise. OEM custom containers can also be easily integrated into the IoTWorX 10.96 software platform.

The new MQTT-based broker facilitates MQTT messaging between the hosted containers, external sensors, and devices. The gateway also supports an internal RESTful interface to its real-time data, providing all gateway-hosted containers direct access to the data collected locally. Users can view real-time data securely at the edge, on-premises, from any smart device.

IoTWorX 10.96 executes logic at the edge, transforming affordable edge devices into intelligent IoT gateways. It also aggregates disparate real-world signals with support for industry protocols such as OPC UA, BACnet, SNMP, Modbus, MQTT, and web services, and publishes that real-time data securely to the cloud via AMQP, MQTT or REST transport protocols. Real-time edge analytics is possible, using built-in fault rules and workflow technology to calculate and buffer faults, then merging this information with ICONICS Facility AnalytiX® in the cloud.

IoTWorX version 10.96 is currently being tested with the following operating systems:

- Windows 10 IoT Core
- Ubuntu 16.04
- Debian version 9
- Yocto Linux 3.0
- Ubuntu 18.04
- Raspbian

The ICONICS Information Broker, being introduced in the 10.96 release, will provide support for replication of point-to-point connectivity between individual systems. Based on MQTT and the Enterprise Service Bus architecture for data management and integration of applications, it uses a service-oriented architecture for the exchange of information between systems in a secure and scalable way, enabling enterprise application integration of services and applications.

To learn more about the IoTWorX software suite, visit ICONICS online at www.iconics.com/IoT.

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ICONICS Background Information

ICONICS, a longtime Microsoft Gold Partner and six-time Microsoft Partner of the Year award winner, including the Manufacturing, Application Development, and CityNext Partner of the Year, provides solutions to improve productivity, reduce integration time and operating costs, and optimize asset utilization with visualization and automation software. Founded in 1986, ICONICS has 350,000 installations in over 100 countries worldwide. ICONICS meets the demanding application challenges of the automotive, building automation, food and beverage, government infrastructure, manufacturing, petrochemical, pharmaceutical, renewable energy, utilities and water/wastewater industries. As a managed Microsoft ISV Partner, ICONICS designs its solutions to leverage Microsoft technologies, including Windows 10, Windows Server, Microsoft .NET, Microsoft Azure, SQL Server and Microsoft SharePoint.

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