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Opto 22 and Dell Bridge the OT/IT Gap to Deliver Industrial IoT Solutions at Hannover Messe 2017

Automation manufacturer Opto 22 and IoT solutions provider Dell announce joint product exhibition at Hannover Messe 2017, showcasing technology to bring the Industrial IoT (IIoT) into reality by bridging the gap between existing industrial assets and infrastructure, and the digital world of mobile, cloud, and information technology.

Temecula, CA - April 18, 2017 – Industrial automation manufacturer and Internet of Things (IoT) application toolset provider Opto 22 and Dell announce joint exhibition at the Hannover Messe 2017 industrial automation trade show, 24–28 April, in Hannover, Germany, at Hall 8 Stand F31. Products from both companies will be showcased, demonstrating how to integrate and deliver edge computing applications and connect real-world signals and industrial "things" to the digital world of information technology, mobile, and cloud computing.

Delivering Cohesive IIoT Solutions

Converging Operations Technology (OT) and Information Technology (IT) is a critical stumbling block for many industrial IoT applications. As a Dell IoT Partner Program member, Opto 22 is uniquely positioned in the market to deliver a complementary product solution for connecting real-world electrical devices and signals to Dell's advanced Edge Gateway line of products. The two companies provide a cohesive solution to bridge the cultural and technology gap between OT and IT.

This combination fuses together an industrially rugged hardware platform, data visualization for mobile and web clients, robust industrial automation protocol support including Modbus/TCP and OPC UA, and advanced data flow processing through software development environments like

Node-RED. Combined with the ability to connect multiple data sources including devices, databases, and third-party APIs (application program interfaces), Opto 22 and Dell deliver a single, cohesive, cost-effective, and powerful platform for nearly any IoT or edge computing application.

"We're excited to exhibit at Hannover Messe with our IoT Solutions Partner, Opto 22, and showcase solutions that provide secure manageability and analytics for edge computing," said Jason Shepherd, Director of IoT Strategy and Partnerships, Dell. "Working closely with our partners is critical to reducing the fragmentation in the IoT market today."

Going the Last Mile

Connecting existing industrial assets to IT systems requires translating the electrical signals (voltage and current) in the physical world to the bits and bytes of the digital world. Opto 22, respected worldwide for its 43-year history of product quality and innovation, manufactures the I/O and controllers that translate signals on that "last mile" of the data route.

Designed on open standards and built for harsh industrial environments, Opto 22's SNAP PAC System integrates hardware and software for industrial Internet of Things, industrial control, remote monitoring, and data acquisition applications. Designed to simplify the typically complex process of understanding, selecting, buying, and applying an automation system, the SNAP PAC System consists of these integrated components:

- **SNAP I/O**™—analog, digital, and serial I/O modules for wiring directly to field devices, machines, and sensors. Wide variety of signal types; 1 to 32 I/O points per module; most I/O modules are guaranteed for life.
- **SNAP PAC brains**—intelligent I/O processors for distributed control on Ethernet and serial networks
- **SNAP PAC controllers**—standalone or rack-mounted industrial controllers with networking options and a RESTful API, or a software-based controller
- **PAC Project™ Software Suite**—easy-to-use flowchart-based control programming, HMI (human-machine interface) development and runtime, plus optional OPC server, database connectivity software, and software-based controller for PC-based control
- *groov*—an easy-to-use tool for building and using custom mobile operator interfaces and system dashboards to monitor and control systems and equipment from any web-enabled device

More about *groov*

groov offers a zero-programming, web-based way to present key data and controls to the people and software that need them. Whether it's technicians in the field troubleshooting pumps and pipelines, line operators monitoring factory processes, managers checking production and KPI data, or company databases requiring data from physical equipment, *groov* provides what's needed, securely and efficiently.

Using *groov,* you build your custom operator interface with drag-drop-tag simplicity. *groov* connects multiple data sources including devices, databases, and third-party APIs (application program interfaces), and supports Modbus/TCP and OPC UA automation protocols. Your custom interface can be securely viewed on any authorized web-enabled device regardless of manufacturer or size, from smartphones and tablets to computers and high-definition TVs.

groov can augment existing human-machine interfaces (HMIs) and Supervisory Control and Data Acquisition (SCADA) systems by making important information available to authorized users at any time and in any location. Users can also receive event-based email messages, for example when a connected machine or system needs attention.

In addition to Modbus/TCP networking, *groov* supports OPC Unified Architecture (OPC UA) to communicate with a variety of machines and systems on the plant floor, including PLCs, DCSs, PACs, databases, and OPC-DA servers. *groov* also communicates directly with Opto 22 SNAP PAC System controllers.

groov Free Trial Version and Online Demo

A fully functional version of *groov* Server for Windows is available to download and try so you can see your own system's data on a smartphone, tablet, or other mobile device. The *groov* Free Trial operates for two hours without a license and can be restarted as needed. You can also see *groov* in action immediately and try it yourself with a live online demo available at groov.com/see-groov-now.

Dell Edge Gateway Qualification

groov Server for Windows is qualified on the Dell Edge Gateway 5000 Series, the most industrial IoT device from Dell, designed to provide fast, responsive data solutions even in extreme conditions. Built tough, the Gateway 5000 Series' fanless, solid-state design is optimized for wall

and DIN-rail mounting, and the extended environmental specifications are designed to withstand harsh conditions—including temperatures up to 70°C and down to −30°C.

IoT gateways are often expensive, proprietary, difficult to manage, and don't provide enough security. Dell's purpose-built gateway was designed to overcome these problems, cutting through the hype and delivering real-world solutions for today's IoT applications.

The Edge Gateway 5000 Series provides a foundation of security. Hardware features help protect the network edge and sensors from cyber attack, including a secure boot and BIOS-level control. It allows IoT developers to keep their guard up and network costs down while aggregating and securing IoT data at the edge of the network

About Opto 22

Opto 22 designs and manufactures industrial control products and Internet of Things platforms that bridge the gap between information technology (IT) and operations technology (OT). Based on a core design philosophy of leveraging open, standards-based technology, Opto 22 products are deployed worldwide in industrial automation, process control, building automation, industrial refrigeration, remote monitoring, and data acquisition applications. Designed and manufactured in the U.S.A., Opto 22 products have a worldwide reputation for ease-of-use, innovation, quality, and reliability. For over 40 years OEMs, machine builders, automation end-users, and information technology and operations personnel have and continue to trust Opto 22 to deliver high-quality products with superior reliability. The company was founded in 1974 and is privately held in Temecula, California, U.S.A. Opto 22 products are available through a global network of distributors and system integrators. For more information, contact Opto 22 headquarters at +1-951-695-3000 or visit www.opto22.com. Follow us on Twitter, Facebook, LinkedIn, YouTube.

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