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**Opto 22 Updates *groov* to Easily Connect Modbus/TCP Devices with Smartphones and Tablets**

New *groov* 2.3 quickly and simply brings data from sensors, drives, meters, and thousands of other Modbus/TCP devices to smartphones, tablets, and PCs.

**Temecula, CA—January 7, 2015**—Industrial automation manufacturer Opto 22 has announced *groov* 2.3, a major update adding Modbus/TCP communication to the company's *groov* web-based mobile interface software. With *groov*'s new Modbus/TCP support, thousands of industrial devices can now be monitored and managed using effective, scalable operator interfaces on smartphones, tablets, and other mobile devices. Modbus/TCP is a widely adopted, TCP/IP-based communications protocol used in level sensors, rotary encoders, drives, meters, and industrial controllers and I/O, plus thousands of other devices deployed in diverse industries. Industrial automation end-users, system integrators, machine OEMs, or any authorized person can quickly and securely monitor and control these devices, as well as automation, building, and other control systems, all from a mobile device.

Acting as a Modbus/TCP master, *groov* communicates directly with Modbus/TCP slave devices over standard, non-proprietary Ethernet networks. No intermediary servers, protocol converters, or communications interfaces are required. This simplifies hardware planning, reduces initial hardware cost and ongoing maintenance, and streamlines device setup and configuration. More information about *groov*'s new Modbus/TCP support is available at [op22.co/modbusgroov](http://op22.co/modbusgroov).

**What is groov?**

*groov* is a zero-programming, web-based way to build, deploy, and view effective, scalable operator interfaces to monitor and control systems and equipment using mobile devices and other computer-based systems. These operator interfaces can be viewed on almost any mobile device or computer regardless of its manufacturer, operating system, or screen size, including smartphones, tablets, PCs, and even smart high-definition televisions.

For mobile devices like iPhones, iPads, and Android-based smartphones and tablets, a *groov* View app for iOS and Android is available free of charge on the iOS App Store and Google Play Store. The *groov* View app provides a native mobile experience for operator interfaces built with *groov*. These interfaces can also be viewed in the mobile device's built-in web browser.

*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. *groov* is available as either the standalone *groov* Box hardware appliance or the PC-based *groov* Server for Windows software.

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

**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 an online demo available at [groov.com/see-groov-now](http://groov.com/see-groov-now).

**Pricing and Availability**

*groov* 2.3 is available immediately. Choose either the *groov* Box hardware appliance (GROOV-AR1) at a list price of \$2895.00 USD, or *groov* Server for Windows software (GROOV-SVR-WIN) at

a list price of \$2695.00 USD. Customers who already have *groov* version 2.0 or later and a *groov* maintenance contract can upgrade to *groov* 2.3 free of charge. For more information, contact Opto 22 Pre-Sales at 951-695-3000 or toll free at 800-321-6786, or visit [groov.com](http://groov.com).

### **About Opto 22**

Opto 22 develops and manufactures hardware and software for applications involving industrial automation and control, energy management, remote monitoring, and data acquisition. Designed and made in the U.S.A., Opto 22 products have an established reputation worldwide for ease-of-use, innovation, quality, and reliability. Opto 22 products, including the *groov* mobile operator interface, use standard, commercially available networking and computer technologies, and are used by automation end-users, OEMs, and information technology and operations personnel in over 10,000 installations worldwide. 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](http://www.opto22.com).

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