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**Opto 22 Expands *groov* with New Graphics Capabilities and OEM Customization**

*New image library, gadgets, and screen options in groov 3.1 help engineers and OEMs build custom mobile smartphone and tablet interfaces for their automation systems and IoT applications.*

**Temecula, CA—March 14, 2016**—Industrial automation manufacturer Opto 22 has announced *groov* 3.1, an update to its mobile operator interface system that adds integrated image management, new image uses, and new on-screen and project options so you can create a unique operator interface that's customized for your application. *groov* connects machines, equipment, and control systems with mobile devices like smartphones and tablets. With *groov* 3.1, industrial automation engineers, system integrators, and machine OEMs can create highly customized operator interfaces that meet their needs, including data-rich dashboards for IoT (Internet of Things) applications.

**New Graphics Capabilities**

Graphics features added in *groov* 3.1 include a new Image Indicator gadget that uses multiple images to indicate states or ranges of values. For example, four different images of a stack light could indicate a machine status of running, stopped, paused, or needing attention. Likewise, different images could indicate various tank fill levels. Another new feature is applying images to button gadgets, typically used for on/off or start/stop controls, while page navigation links let you create custom navigation controls anywhere on the *groov* page.

A new Image Library in *groov* 3.1 manages all the graphics used in a *groov* project for easy uploading, accessing, and handling. When a graphic is imported into a *groov* project, it is added to the Image Library. During interface development, the same image can be used

throughout your project, saving time and disk space. When the image is updated or changed in the library, all instances of the image throughout the project are updated as well.

These new graphics features result in a significantly more visually appealing and functional mobile interface, along with a greater degree of customization than ever before.

### **Customize Your Application**

For OEMs, machine builders, and anyone who needs to customize an operator interface with a specific logo and color scheme, *groov* 3.1 project options let you change default menu and caption bar colors, freeze the menu bar, and replace the default “*groov*” logo at the top of the screen with your own graphic.

Additional improvements in *groov* 3.1 include new options to precisely adjust text size, color, style, font, and background color in gadgets; to size gadgets like LEDs smaller to achieve greater detail and density; and to select and change properties of multiple gadgets simultaneously. A new tag overview screen shows all tags in use and the events for each tag. Also, *groov* systems that connect to Modbus/TCP devices can now access individual bits within Modbus registers.

### **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. Users can also receive event-based email messages, for example when a connected machine or system needs attention. *groov* is available as either the standalone *groov* Box, an industrially hardened 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 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.

### **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](http://groov.com/see-groov-now).

### **Pricing and Availability**

*groov* 3.1 is available now directly from Opto 22 and from Opto 22 distributors worldwide. *groov* platforms start with either the standalone *groov* Box hardware appliance (GROOV-AR1-BASE) at a list price of \$1295.00 USD or *groov* Server for Windows software (GROOV-SVR-WIN-BASE) at a list price of \$995.00 USD. To communicate with multiple Modbus/TCP devices or SNAP PAC controllers, move up to *groov* Plus (GROOV-LIC-PLUS) for an additional \$695.00 USD. To communicate with OPC UA-compliant systems and equipment as well as with multiple Modbus/TCP devices and SNAP PAC controllers, move up to *groov* Enterprise (GROOV-LIC-ENT) for an additional \$1595.00 USD over the base price.

Customers who already have *groov* version 2.0 or later and a current *groov* maintenance contract can upgrade to *groov* 3.1 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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