

## Application Brief: GG Services



### The Challenge

Gavin Gray is the owner and sole employee of Los Angeles, California-based automation integrator and machine builder GG Services, which designs and installs custom control systems in the southwestern United States. GG Services specializes in alternative energy systems and industrial machines.

Gray is a busy guy, and when a client needed remote, real-time access to its mobile water treatment system—specifically access to the Opto 22 control system he had built—Gray recognized that delivering this remote access was going to demand a lot of his time. He was up to the job, but thought that his time was better spent on other tasks.

Gray had added remote monitoring and HMI capabilities to control systems before, and he knew that a number of problems often turned up in the process.

Installing, configuring, debugging, and deploying the various elements of a remote access system can grow complicated when, for example, the control system and remote access system have difficulty exchanging information.

Or when a PC-based HMI requires access rights an IT department won't approve.

Or when an HMI expensively exchanges too much data with a remote site over a cellular modem.

### The Solution

Gray had heard about *groov* from his regional Opto 22 sales engineer and decided to take a closer look. He thought *groov* looked like a simple yet solid approach to setting up mobile communications. He was right.



*Key parameters for a mobile water treatment system are monitored and controlled using a tablet.*

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"*groov* is an easy and uncomplicated system that provides a web-based approach to monitoring a system and gathering data," explains Gray.

After installing a communications link at the mobile water treatment plant, Gray configured the *groov* Box and built screens for the interface. On startup, real-time data on pH, ORP, flow rate, conductivity, and other parameters were immediately available.

The client can also remotely control pumps and filters, set tank levels, and track power use. "With real-time data from the water treatment system," says Gray, "we can see problems and make corrections, as well as get general information."

Gray is pleased that he's saved a lot of time. "*groov*," he says, "takes 90% of the work out of setting up remote HMI and remote monitoring."

## The Customer

GG Services  
Sun Valley, CA

## 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, which use standard, commercially available networking and computer technologies, 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).