Adding Flexibility to Interoperability Solutions

It’s the hottest part of the summer in the Northern Hemisphere and every day we hear reports of flooding, fire and heat-related medical emergencies. All that bad news gets us thinking about how to improve our customers’ tactical use of our products, how to simplify the operator’s job when in the field. With that goal in mind, we developed and present the newest member of the Global Communications Technology family, the CP-102 Control Panel. Designed to let you leave the web browser behind, the CP-102 Control Panel connects directly to your G-408R, G-408 or G-404, giving you push-button access to your configured modules and nets.

Complimenting the CP-102 Control Panel, we have integrated a separate DP-101 Dial Pad to work with the front panel display of your G-400 Series unit and allow you to dial phone numbers quickly. Like the Control Panel, the Dial Pad is designed to simplify the tactical use of our products by making them even more quickly accessible to operators, increasing your team’s overall efficiency. We’ll feature the Dial Pad in our next newsletter. In the meantime, it is available and we have complete information about its full features and use on our website.

It hasn’t all been a summer of tactical response cases, however. One of the more interesting questions we fielded while talking to potential customers involves trunked radio systems and some of the frustrations involved. We can help.

Finally, we highlight one of our neatest features, RX Inhibit Recovery. It’s a really simple, but unique Global feature we know you’ll appreciate.
CP-102 Control Panel

Simplifying the Tactical G-400 Series Experience

We believe in designing and building quality products that are easy to use and quick to learn — no matter what language you speak. That’s why all Global Communications Technology systems are multilingual and can be controlled from a standard web browser. However, we know there are some tactical situations where you might prefer to travel a little lighter, set the computer and web browser aside or maybe use an operator with a little less training. With that in mind, we are excited to release the CP-102 Control Panel to work with our G-400 Series of interoperability products. Using the CP-102, you can control up to eight hardware or virtual modules, working up to four nets at a time without the need for a web browser. Ready to go when you are, the CP-102 Control Panel interfaces seamlessly with our G-400 Series units to simplify on-the-fly communications in a light but robust package.

Connecting the CP-102 Control Panel to your G-400 Series unit — either the G-408R, the G-408 or the G-404 — is simple. Powered by the USB connection running from your G-400 Series unit to the Panel, the CP-102 does not require additional power supplies or converters. Once you have configured your G-400 Series unit to work with your Control Panel, it will power up and “handshake” automatically with your G-408R, G-408 or G-404, displaying the modules and nets in your unit’s stored configuration. Now you are all set to control your nets using the straightforward, push button grid layout of the CP-102 Control Panel.

An 8×4 grid of buttons with LEDs displays up to eight modules (rows) and up to four nets (columns).

A simple card pocket lets you slide in and update the names of modules quickly.

You use your own language, your own naming system.

You will also notice a power LED, a light sensor allowing you to control panel brightness based on current conditions and three additional buttons: Connect All, Disconnect All and Revert/Save.
Adding a module to a net is simple; just click the button underneath the net you want to put the module into. Removing a module from a net is just as easy, another click of the button. When the situation calls for it, use the three additional buttons to save you time and hassle. Pressing the Connect All button puts all modules in a single net, and the Disconnect All button removes all modules from all nets. Finally, use the Revert/Save button to store and recall your module/net map.

Basic operation is so easy, you might forget that the CP-102 Control Panel comes with some more subtle features you can access using a web browser and your G-400 Series unit. While you’re there, don’t forget the most important: Enable Control Pad and Dial Pad. This specific function serves as a security measure to prevent unauthorized access to your system.

Ideal for efficient use in tactical situations, our Global CP-102 Control Panel compliments our G-400 Series by making it more dynamic and easier to operate quickly in the field. Providing you with uncomplicated access to your modules and nets, the CP-102 also includes simple features that let you adapt it to your ambient environment and preferences.

- Control the LED brightness.
- Select whether the panel is backlit.
- Enable call alerts.
- Change module/row mapping.
- Enable beeps, choose to hear a confirmation tone.

Connecting with Customers on YouTube

http://www.global-comm-tech.com/videos.html

We launched our YouTube presence with a four-minute video overview of why one might need interoperability products, and several screenshots and video scenes of our G-408 and G-SMU at work. Next stop, Hollywood? Probably not, but we're looking forward to exploring this video platform to reach customers and distributors around the world with training materials and additional information about our rich product features.
Adding Phones Makes Rental Radios a Better Experience for Non-Traditional Users

Radio systems let large numbers of people speak over a limited number of channels, which is exactly the sort of communications solution you're looking for if you're in public safety.

Or concert concessions, or event planning, or fairs and festivals, or sports tournaments, or hotels, or parades, or film production, or trade shows, or conventions....

It turns out that a lot of non-traditional industries use radios, but since they don’t need them everyday and because the systems are expensive, these industries often rent them on trunking systems.

Maximizing Ease-of-Use

Yes, radio systems offer a lot of benefit, but let’s think specifically about those non-traditional industries, maybe a trade show or a movie production. It’s reasonable to say 100 people need some sort of communications device in their hands at once. Most will never need to transmit, however, and the radio serves primarily to keep them aware of the overall situation. Go ahead and give them radios; if they need to transmit, they can, and in the meantime they know what’s happening.

Why do we add phones to the mix? Unlike traditional public safety radio users who would have their radios on for a full work shift, non-traditional radio users have a lot of down time between activity, and when something does happen, it tends to be orchestrated by a limited number of speakers. In other words, when a VIP arrives, the parade starts, a show begins or a movie scene is shot, everyone needs to be aware, but realistically only a handful people are doing most of the talking. At Global, we believe in making communications simple, giving people the benefit of the smoothest conversation possible, with no sense of delay or awkwardness, just efficiency and familiarity. Since most people are most familiar with communicating by phone or wireless, let these people use phones.

Our interoperability systems allow you to patch one or more phone lines or wireless phones smoothly together with a radio system.

For more information about how Global Communications Technology can be your solution, contact us today. [http://www.global-comm-tech.com/](http://www.global-comm-tech.com/)
Feature Focus: RX Inhibit Recovery

If you’ve set up an interoperability system patch between two or more radio systems, you may have encountered a ping pong effect that makes all interconnected communications totally unusable. The typical solution is RX Inhibit After TX. This prevents the ping ponging but can also result in the loss of the first word or syllable if a reply is received during the inhibit period. This can have disastrous consequences if that lost word happened to be, “Don’t.” When we designed our interoperability systems, we knew we could do better.

Global’s interoperability systems can both stop the ping ponging, and also recover the lost audio in full, catching the conversation up to real time smoothly, with no audio loss.

When you turn on our unique RX Inhibit Recovery feature, our systems start running some pretty fancy algorithms. Unlike the common RX Inhibit After TX, you don’t risk losing audio because our systems transmit it out in full. Even better yet, Global’s unique algorithms bring your audio back up to real time smoothly, quickly, and free of distortion.

This powerful feature is just one example of how Global Communications Technology’s advanced interoperability systems can improve your overall communication experience.

Fun fact #1: A futuristic digital clock that was commissioned and built for – but never appeared in – the 1968 film 2001: A Space Odyssey inspired the 1972 Pulsar P1, which sold for $2,100. What was it?
(A) LCD wristwatch (B) LED wristwatch (C) Solar-powered wristwatch

Fun fact #2: Electroluminescence, when a material emits light in response to the passage of an electrical current, was first discovered in 1907 by an engineer in the field of __?__ communication.
(A) radio (B) telegraph (C) telephone

Fun fact #3: The first LEDs were infrared but visible colors followed with red in 1962 and green, yellow and violet within 10 years. However, it wasn’t until 1993 before a bright __?__ LED was developed.
(A) blue (B) orange (C) ultraviolet (D) white

Fun fact #4: In 2014, the three engineers who developed the blue LED received the Nobel Prize in Physics because the blue LED was the necessary step to developing the game-changing __?__ LED.
(A) black (B) green (C) ultraviolet (D) white

More fun facts in our next newsletter, and more information about these fun facts on our website.