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WIRELESS NEWS

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Clear-Com Unveils Interoperability Gateway for Communications Systems

Clear-Com recently announced the launch of its new Gateway family. The modular CG-X1 and CG-X4 devices are designed to link and bridge disparate communication systems such as IP networks, telephone networks, radios and intercom systems. Clear-Com Gateway is a good solution for on-site communication across different frequencies for government, military, public safety agencies and many other applications.


Clear-Com Gateway CG-X4

Clear-Com Gateway combines radio interface technology for analog and digital radios with a suite of programmable features to meet demanding radio and Land Mobile Radio applications. Gateway bridges radio channels across different radio platforms, port-to-port, port-to-multi-port and Radio-over-IP, enabling cross-communication between different frequencies. In addition, as the radio market continues to move to digital radios and 4G LTE, Gateway devices can link to these digital radio networks via SIP and the Digital Radio Module to allow analog-to-digital and digital-to-digital bridging and conferencing on one platform.

Clear-Com Gateway devices also have built-in SIP interface capability. Standards-based IP interfacing for Voice-over-IP, Radio-over-IP, Unicast, Multicast and SIP applications are supported for connectivity and interoperability. When connected to Clear-Com intercom systems, the four-wire port signalling capability can activate features and trigger radios, and SIP telephone access becomes available within Clear-Com systems. The CG-X1 is the two-port option for remote sites and single-channel bridging. The CG-X4 carries a higher port density of eight ports in a small form factor, with the possibility of up to 16 ports in total in a 1RU space.

COVIA LABS new ALERT & RESPOND is Unifying Communications and Control

Product Definition: **Alert & Respond** is an emergency response collaboration software product that supplements existing public safety radio systems by creating secure ad hoc networks across a wide variety of commercial phones, computers, cameras and other devices using commercial carrier data networks and mobile satellite data systems. It deploys automatically and combines voice, video, text, GPS locations and maps. It gives dispatchers, commanders and frontline first responders the media-rich integrated information they need in emergency situations to carry out efficient, highly coordinated responses that save lives while greatly reducing the likelihood of making dangerous mistakes.

Because it does not require specialized hardware or infrastructure, **Alert & Respond** meets the need for robust, inexpensive, interoperable communications. It uses commercial or other existing data networks and mobile satellite data systems, communications dead spots are filled in. Additionally, **Alert and Respond** Operations can be pushed to various agencies, between local police and fire   departments, or to federal agencies and the public without a new communications or security infrastructure or requiring the purchase of new hardware. Our unique patented technology can connect designated individuals into secure Operations within seconds using their own devices. **Alert & Respond** runs on a unique and powerful unifying platform technology that can be used to seamlessly and cost effectively integrate existing devices with sensors, drones, messaging, situational awareness and command and control systems. **Alert & Respond** is compatible with many commercial devices, operating systems and protocols in order to seamlessly unify their operations. These include Web Video Cameras, Apple iPhones,   Windows Mobile phones, Nokia Symbian phones, Linux phones, simple feature phones, PCs, Macs, Netbooks, Web Services such as Google Maps, Internet servers, TCP/IP, 3G, 4G LTE including FirstNet, Edge, WiFi and Bluetooth. Cloud based options can be provided for disaster management, or can be entirely mobile.
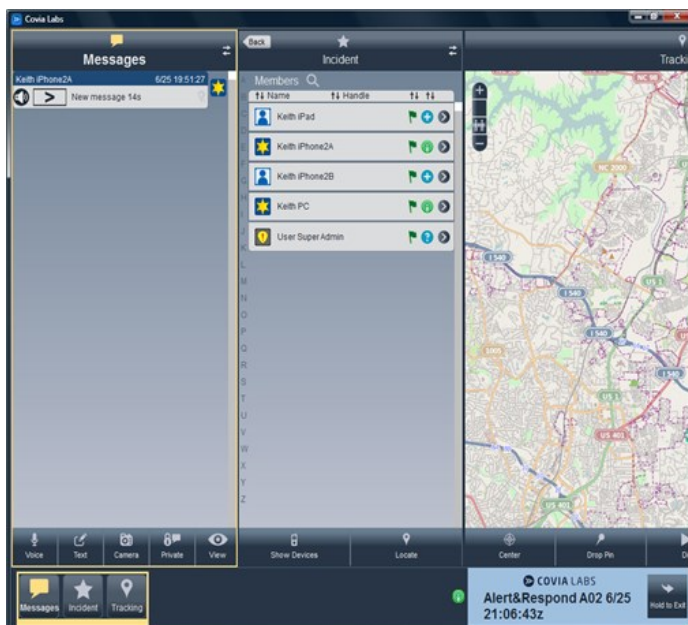
COVIA LABS new ALERT & RESPOND is Unifying Communications and Control

Covia Labs' technology takes an entirely new approach to unifying operations and securing access to media and controls across devices. DART™ technology tightly integrates security, distribution, adaptation and communications bridging methods to deliver robust, secure comprehensive solutions many which are patented.

*Serial Bridging™ For Reliable Communications -automatically bridge communications serially throughout devices and protocols, while preserving the end-to-end encryption of the conversations. This patented technology increases the robustness of a team of interoperating devices by automatically finding new paths in the face of communication and device failures.

*No waiting to talk or to hear, no Blocking or Bonking, no clipped voice, all voice is delivered as fast as the network allows, <200ms unless the 3rd party network is slow

*All features are Standard, including Situational Awareness, from the smallest device to biggest device, no upcharges. Every device gets every application, and console is standard. Also runs on PC 911 Consoles

*No Server required, Dynamic Mastering for Scalability and to Eliminate Single Point of Failure, Covia Connectors automatically bridge communications serially throughout devices and protocols, while preserving the end-to-end encryption of the conversations. This patented technology selects the right device to prepare and transport data on a real time basis..

*Direct Talk – No need for cellular tower, devices can talk directly to each other on any network, WiFi or even BlueTooth

*Mesh built-in – Covia Connectors automatically bridge communications serially throughout devices and protocols, while preserving the end-to-end encryption of the conversations. This patented technology increases the robustness of a team of interoperating devices by automatically finding new paths in the face of communication and device failures. Covia Connectors automatically bridge communications serially throughout devices and protocols, while preserving the end-to-end encryption of the conversations. This patented technology increases the robustness of a team of interoperating devices by automatically finding new paths in the face of communication and device failures.

*Thousands of devices can participate in an Operation because there can be any number of high capacity fast communications servers included in an Operation and data transmissions are highly optimized. Data is synchronized only with devices with roles that need it, have the rights to use it, and only when the data is actually used. Media, such as pictures and video can be requested in a smaller transcoded size if the device does not need the full size media

*Mash-up – Every piece of data mashes up with other data, so if a device PTTs, that PTT will also carry its location, the name, the media (pictures, texts, videos) time, date etc

*FIPS 140-2-END TO END, and for every application. Even non-Covia applications.

*Connected Applications™ take advantage of DART to automate the tedious administrative chores of distributing software, credentials, and all information while limiting their interactions to their individual roles in the Operations.

*Think about it –Every First Responder on their own device, on the right talk group, with all the critical current information already available, no matter what kind of device they bring with them, on secure channels 10 minutes **before** they arrive.*

COVIA LABS
unifying communications and control

BIRD 7022 Statistical Power Sensor

The Bird Model 7022 Statistical RF Power sensor is the only thruline RF power measurement device that provides the statistical analysis capability required to accurately characterize the RF power features of any digitally–modulated signal employed in wireless communications systems. It measures the power levels from 250mW to 500W over a **frequency range of 350MHz to 6GHz** and is an excellent choice for applications ranging from performance optimization to maintenance and trouble-shooting. It is extremely compact, lightweight and rugged and weighing 1.5 lbs. making it well suited for use in the field.

In addition to measuring the statistical properties of digital waveforms, it provides a complete range of other RF measurements including forward and reflected average power and reflected average power, VSWR and return loss.

The sensor also includes the latest version of Bird's Virtual Power Meter software, that provides a comprehensive user interface for configuring measurements, viewing results and exporting data for trend analysis in spreadsheets.

WHY STATISTICAL ANALYSIS?
The non-periodic, time-domain characteristics of digitally-modulated signals make it impossible to accurately characterize them using conventional RF power measurement techniques. Bench-top instruments with statistical measurement capabilities have been available for some time, but the BIRD model 7022 is the first to incorporate them in a thruline USB-connected power sensor suitable for use in any environment from periodic field measurements to installation in base stations.

The model 7022 has three operating modes. In "conventional" mode, it functions much like a traditional RF power sensor, measuring forward and reflected average power, VSWR and return loss. In "time domain" mode it displays the time-domain waveform characteristics and provides markers to determine average burst power and other pulse-related parameters. In "statistical" mode it measures peak-to-average power ratio versus the time as a percentage that the waveform is at, or if it exceeds a specific peak/average power ratio.

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