UNIVERSAL COMMUNICATIONS PLATFORM
SETTING NEW STANDARDS FOR FIRST RESPONDERS

LOCKHEED MARTIN
When facing the challenges of combat, disaster response or outwitting emerging threats, communications and coordination among teams are keys to success. To meet the demanding and rapidly changing tactical and emergency environments our customers encounter, Lockheed Martin has designed a Universal Communications Platform (UCP) as a flexible and affordable communications solution to keep teams connected.

The UCP allows integration of all types of fixed and mobile radio and data-related systems, transforming any radio system into a fully IP-based network. The UCP is vendor and equipment agnostic and can be used with any existing radios and systems. This allows monitoring, control and dispatch from any location with a network connection and a smart phone, laptop, PC, or PDA -- no matter the radio vendor, frequency or band.

Designed on an open architecture framework, the UCP can be easily and seamlessly integrated and deployed to a wide range of government and civilian applications, including first responder, law enforcement, and counterterrorism. It is fully interoperable, enabling in-network and out-of-network communications, including with other DoD, federal, and public safety entities. With an agile new generation of IP Communications technologies and protocols, the UCP enables nearly any type of existing radio system to perform with state-of-the-art IP features.

**NETWORK INTERFACE UNIT (NIU)**
Providing IP-based Gateway for Communications Interoperability

Lockheed Martin’s Network Interface Unit (NIU) allows up to four separate audio devices to be accessed remotely through a LAN or WAN using a common IP language. Whenever a call is sent or received from an audio device, a multicast VOIP stream is generated by the NIU, allowing access to all connected audio devices, without the use of centralized servers.

Any device that supports two or four-wire analog audio is supported. Examples commonly connected to the NIU include mobile radios, base stations, router E&M ports, public address systems, and tone remotes/ consoles.

**NIU FEATURES**
- Rugged solid aluminum housing with Mil-Spec cannon plug connectors
- Operates on 12V DC and can be easily operated on solar, batteries, or mounted in a vehicle
- Remotely configurable and tunable with most commonly used web browsers; no special software required
- Hardware and software gain control
- Automatic Gain Control
- RX Audio Squelch
- Crosspatch capability
- ANI Over the Air - Decode and Display
- Select and Unselect Speakers capability

**THE UCP INTEGRATES ALL TYPES OF FIXED AND MOBILE RADIO SYSTEMS, ENABLING INTEROPERABILITY WITH OTHER COMMUNICATIONS AND DATA-RELATED SYSTEMS, TRANSFORMING ANY RADIO SYSTEM INTO A FULLY IP-BASED NETWORK.**
UNIVERSAL COMMUNICATIONS PLATFORM

MULTI-RADIO UNIT (MRU)
Connecting Multiple Radio Tranceivers

Lockheed Martin’s Multi-Radio Unit (MRU) works in conjunction with our NIU and RCU, to provide IP access and control of up to four separate portable radio transceivers. The radios are housed in individual shielded enclosures within the 19” rack mountable MRU.

The MRU front panel includes a touch screen LCD display to control all four radios inside the transceivers. LED indicators and speaker/ microphone connectors for each radio are available on the front panel.

Radios can be configured and operated from a dispatch console, workstation/ laptop, or directly from the front panel, allowing full control from the touch screen, giving it stand alone, base station type capabilities.

RCU FEATURES

• Rugged solid aluminum housing with Mil-Spec cannon plug connectors
• Operates on 12V DC and can be easily operated on solar, batteries, or mounted in a vehicle
• Configurable and tunable remotely with most commonly used web browsers
• Remotely control radio frequency, power settings, encryption, and channel presets

MRU FEATURES

• Houses up to four portable radios in individual shielded enclosures
• Can be configured and tuned remotely with the most commonly used web browsers via the web-based interface; no special software is required

Lockheed Martin’s Radio Control Unit (RCU) provides access and control of embedded radios through an IP Network. The RCU does this in conjunction with or independent of our NIU and MRU products, making all radios connected to the RCU remotely controllable from any client device, such as a PC, laptop, PDA, SIP phone, cellular smart phones, iPhones, and iPads. The custom console GUI applications are easily reconfigurable, and can even be sent over email for changes/additions in the field.

The RCU can be configured and tuned remotely with the most commonly used web browsers via the web-based interface. No special software is required.

RCU FEATURES

• Rugged solid aluminum housing with Mil-Spec cannon plug connectors
• Operates on 12V DC and can be easily operated on solar, batteries, or mounted in a vehicle
• Configurable and tunable remotely with most commonly used web browsers
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