



# JPS Interoperability Solutions

## NXU-2A

# Executive Outline

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## NXU-2A / RoIP Network Extension Unit

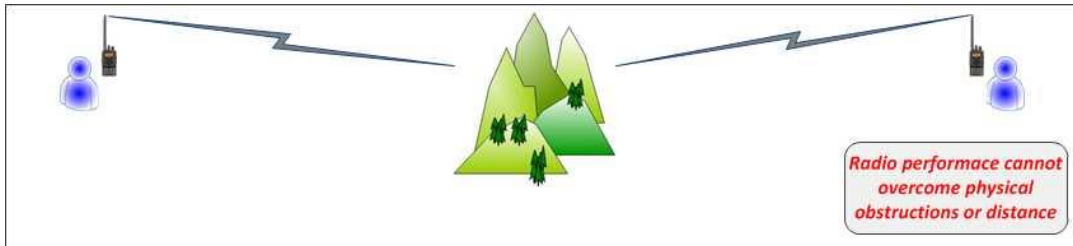


### Benefits

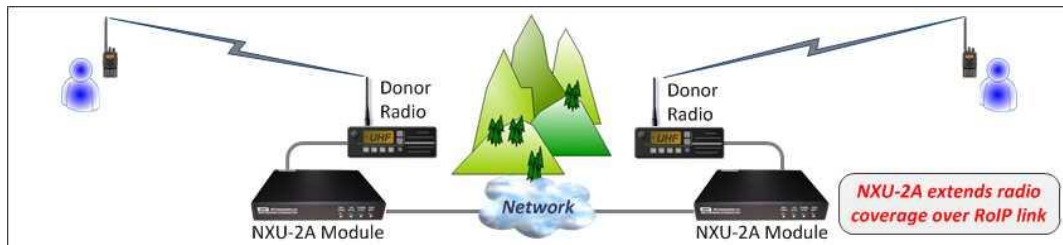
- Do you need to join two radio channels or talk groups together as one:
  - The NXU-2A is your answer, it multiplexes voice audio and data (COR/PTT) over a standard Ethernet network, at a low cost to you
- Do you want to end the need for pilot tones and in-band signaling:
  - The NXU-2A does this easily by using COR and PTT between the two radio channels/talkgroups
- Do you need to setup or check the status of your radio link:
  - The NXU-2A Web Browser-based configuration does the job
- Do you need to have a remote link for one radio connected to your ACU-2000/5000/T or M:
  - The NXU-2A does this by connecting directly to the IP port of our interoperability products or PC NXU RoIP technology
- Suffering from typical interoperability issues between radios such as Ping Ponging, and missing syllables:
  - Sophisticated DSP algorithms in the JPS interoperability products will solve this problem with adjustable transmit and receive audio delay, VMR COR type, multicast mode, and QoS
- Bridging System Interface (BSI) compliant protocols for gateway interoperability
- Do you need higher quality audio than a standard vocoder offers in most products:
  - JPS products have five built-in VOCODERS to balance audio quality vs bandwidth – our lowest vocoder consumes as little as 13 kbps in each direction with good audio quality
- Missing radio interface cables for your interoperability system:
  - The JPS library of over 300 radio-specific interface cables and templates covering most radio makes & models is your answer
- JPS WAIS System capable (WAIS - Wide Area Interoperability System)
- Proper for Public Safety, DOD, education, commercial, international, and Private Sector

## Overview

- Network Extension Unit
- Extends radio coverage over networks by implementing RoIP



- Leverages RoIP and networks to overcome physical obstacles or distances beyond typical radio systems



- Simple RoIP solution that links radios communications across a room, or between continents
- NXU-2A pairs can form a simple system that creates a transparent communications link between the two
- Radio-centric interface can support 4- or 2-wire, balanced or unbalanced full-duplex radio systems
- NXU-2A can link to any ACU over RoIP network protocol

## Advantages

- Digital Signal Processing, multiple RoIP vocoders
- Low cost
- Using existing network infrastructure ends the need for leased lines and microwave sites

## Past Performance

- 11,000 + deployments