The c-Bridge™

System Examples

The c-Bridge™

c-Bridge. *Connect to Repeaters via IP Network Connections*

c-Bridge™

15 Repeaters
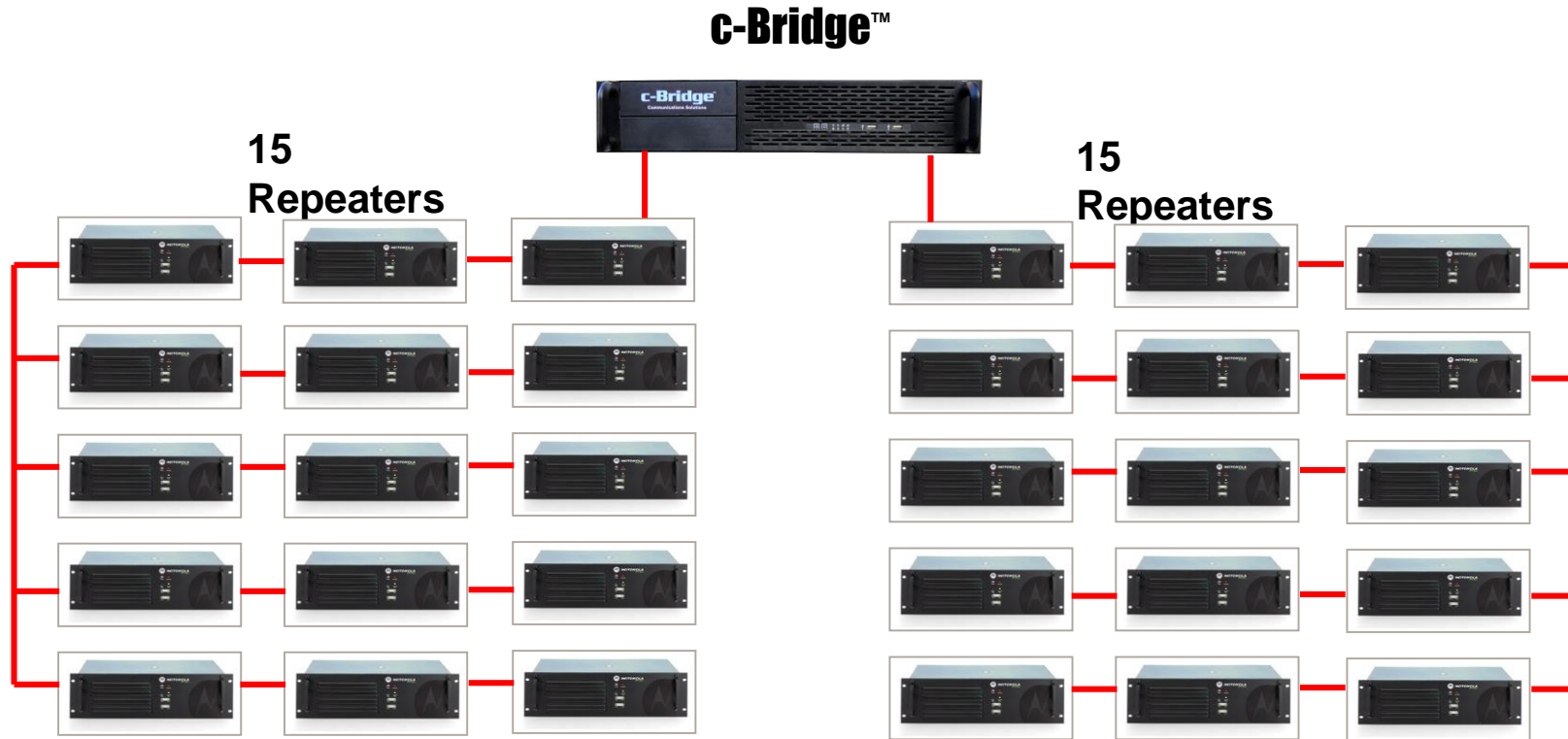
15 Repeaters

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic and all **MOTOTRBO**™ data types.
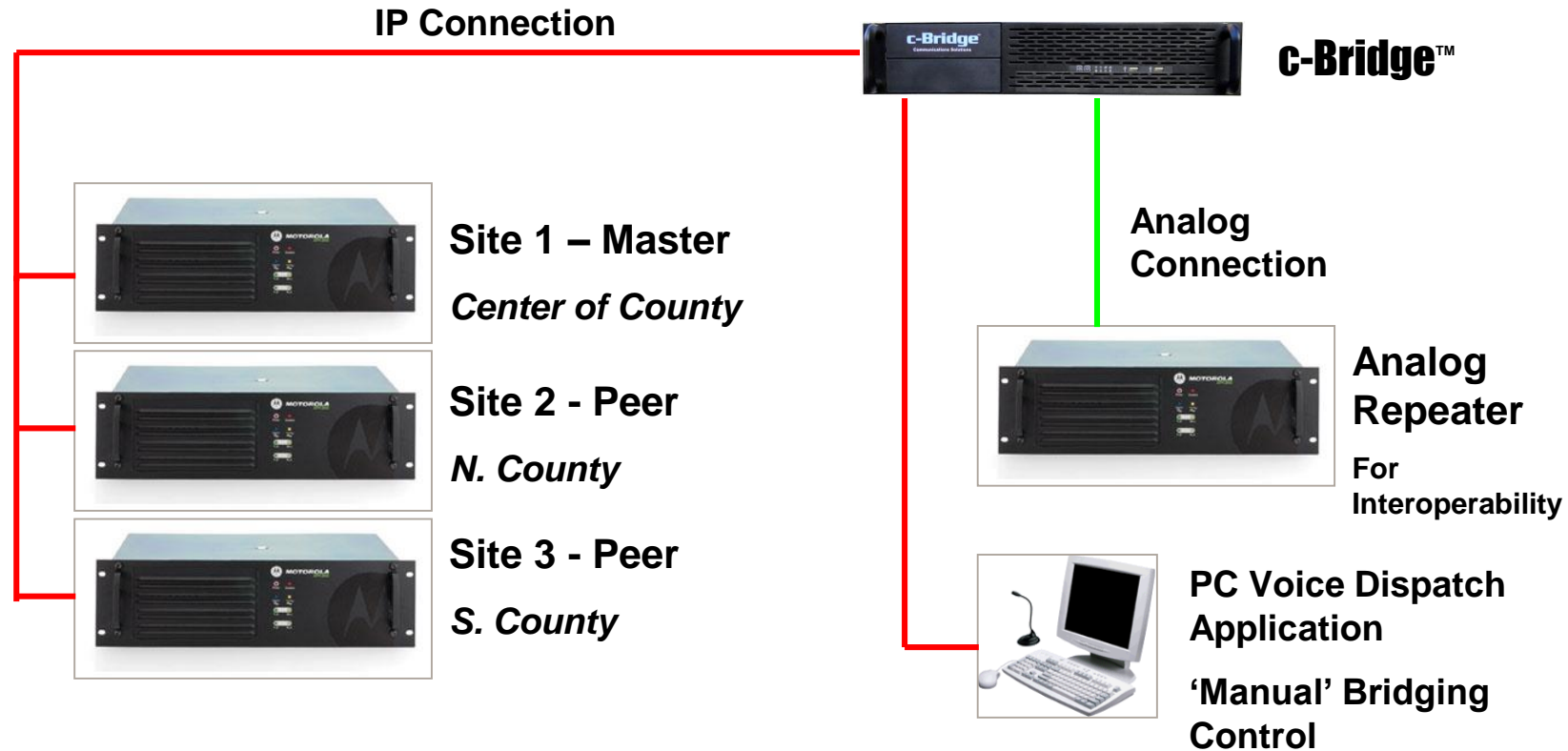
The c-Bridge™

System Example – *IP Site Connect*
Analog Interoperability and Digital Voice Dispatch

c-Bridge. *Connects to Digital Repeaters via IP Network Connections*

c-Bridge. *Connects to PC via IP Network Connection*

c-Bridge. *Connects to Analog Repeater via Analog Interface on* **c-Bridge**.

IP Connection

c-Bridge™

Site 1 – Master

Center of County

Site 2 - Peer

N. County

Site 3 - Peer

S. County

Analog Connection

Analog Repeater

For Interoperability

PC Voice Dispatch Application

'Manual' Bridging Control

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic *ONLY* when configured for Interoperability with non-**MOTOTRBO**™ systems. NO data capabilities exist when bridging to non-**MOTOTRBO**™ radio systems or consoles

Rayfield
COMMUNICATIONS

The c-Bridge™

c-Bridge. *Connects to Digital Repeaters via IP Network Connections*

c-Bridge. *Connects to PC via IP Network Connection*

c-Bridge. *Connects to Analog Repeater via Analog Interface on **c-Bridge**.*

IP Connection

c-Bridge™

Site 1 – Master

Main School Site

Analog Connection to Radio Accessory Port

Site 2 - Peer

2nd School Site

P25 Control Station

For Interoperability

Site 3 - Peer

3rd School Site

PC Voice Dispatch Application

'Manual' Bridging Control

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic ***ONLY*** when configured for Interoperability with non-**MOTOTRBO**™ systems. NO data capabilities exist when bridging to non-**MOTOTRBO**™ radio systems or consoles
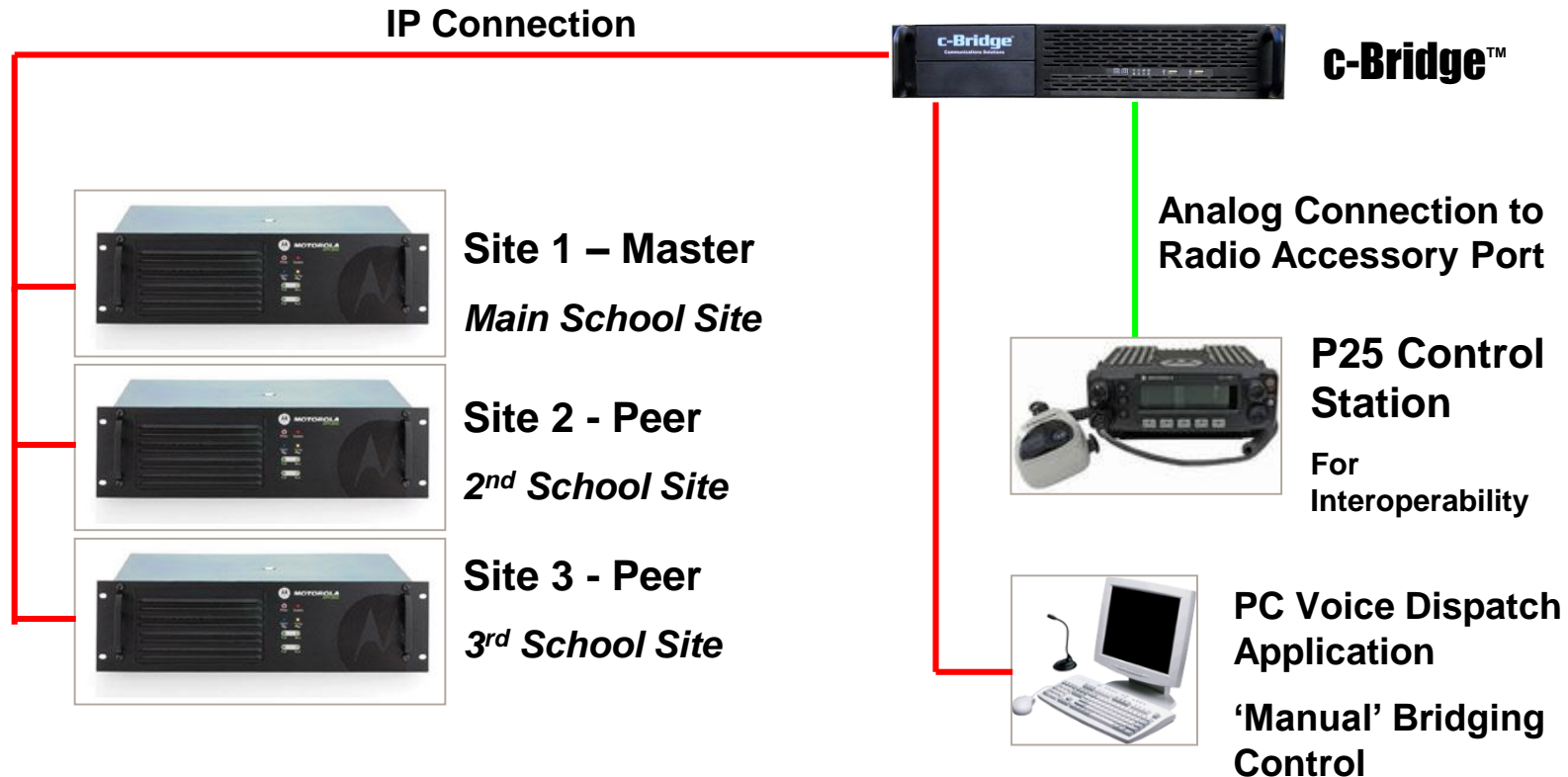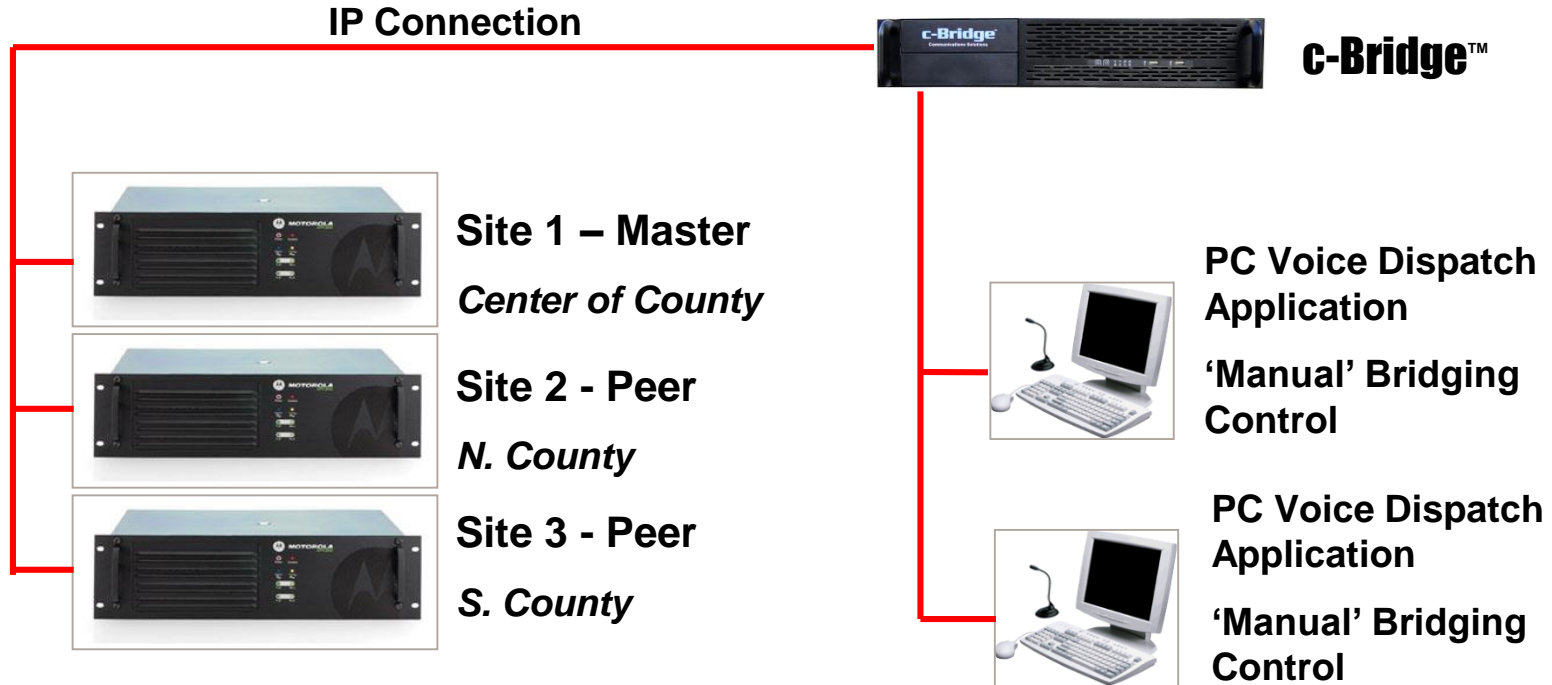
The c-Bridge™

System Example – *IP Site Connect*
PC Voice Dispatch

c-Bridge. Connects to Digital Repeaters via IP Network Connections

c-Bridge. Connects to PC via IP Network Connection

IP Connection

c-Bridge™

Site 1 – Master
Center of County

Site 2 - Peer
N. County

Site 3 - Peer
S. County

PC Voice Dispatch Application

'Manual' Bridging Control

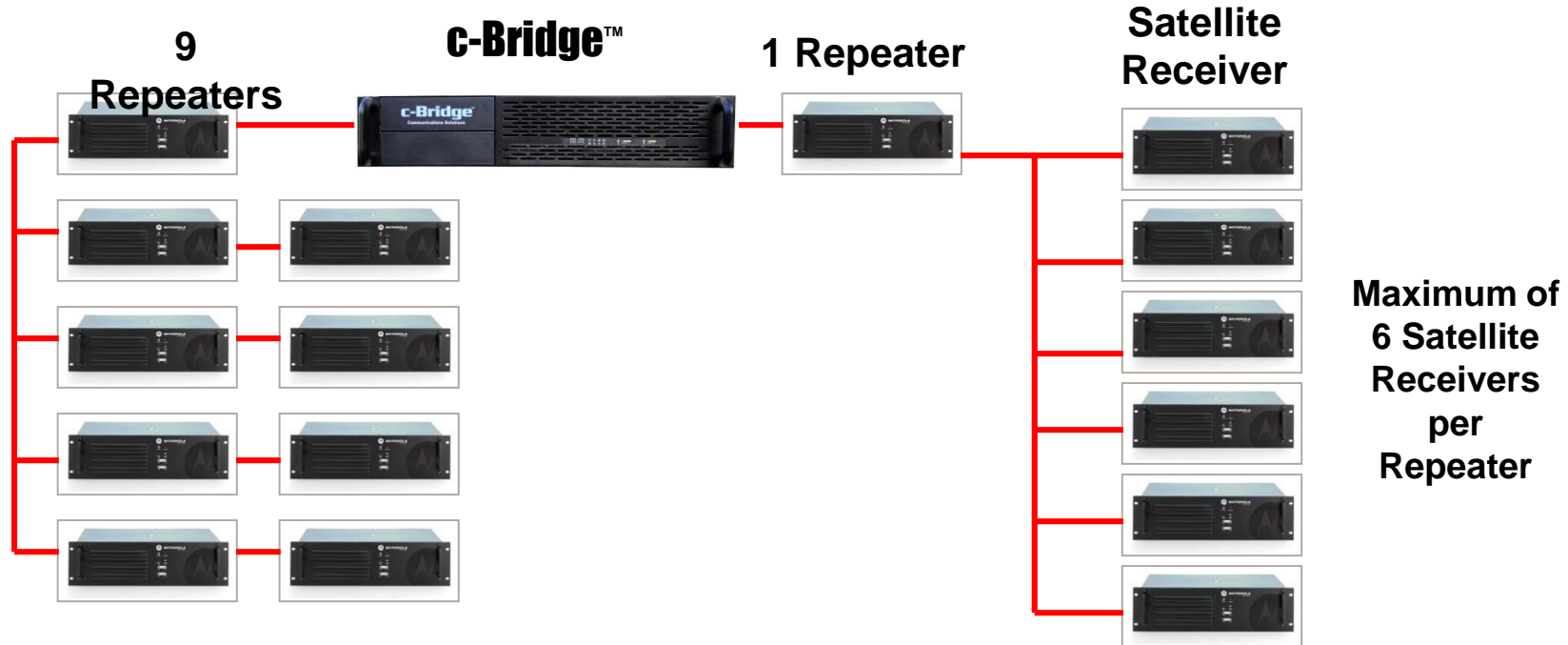**PC Voice Dispatch Application**

'Manual' Bridging Control

The **c-Bridge**™ can be used as an "IP Gateway", allowing for IP-based Remote Voice Dispatch, where control stations or tone-control systems are not needed

Rayfield
COMMUNICATIONS

The c-Bridge™

9 Repeaters   **c-Bridge™**   **1 Repeater**   **Satellite Receiver**

Maximum of 6 Satellite Receivers per Repeater

A **c-Bridge**™ can be used to expand this limit to 6 Satellite Receivers per Repeater
We could even have up to 50 Repeaters Configured in this way, with up to 6 Satellite Receivers per Repeater

The c-Bridge™

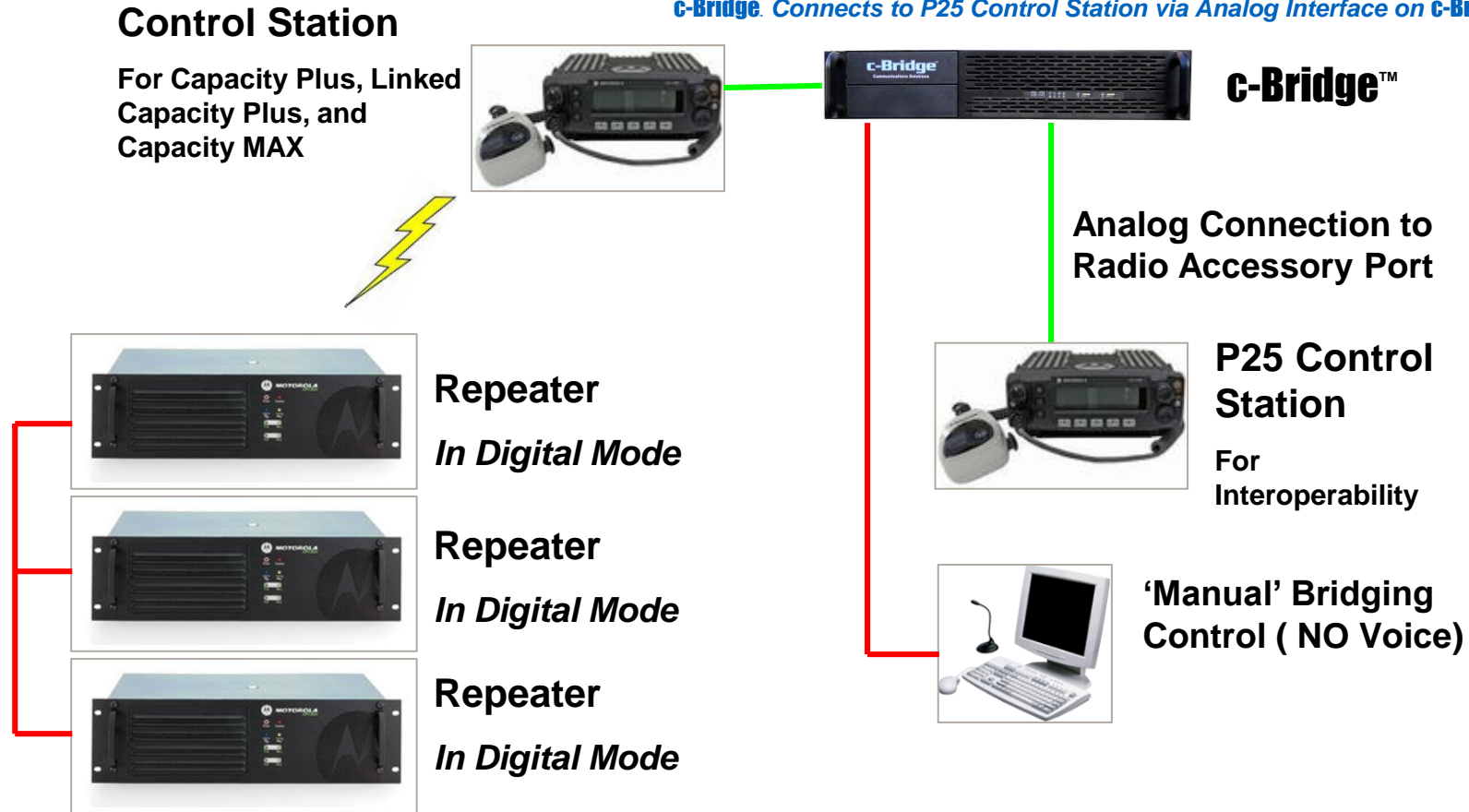*c-Bridge. Connects to Digital Repeaters via Control Station Radio*

c-Bridge. Connects to PC via IP Network Connections

c-Bridge. Connects to P25 Control Station via Analog Interface on c-Bridge.

Control Station

For Capacity Plus, Linked Capacity Plus, and Capacity MAX

c-Bridge™

Analog Connection to Radio Accessory Port

Repeater

In Digital Mode

Repeater

In Digital Mode

Repeater

In Digital Mode

P25 Control Station

For Interoperability

'Manual' Bridging Control (NO Voice)

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic *ONLY* when configured for Interoperability with non-**MOTOTRBO**™ systems. NO data capabilities exist when bridging to non-**MOTOTRBO**™ radio systems or consoles
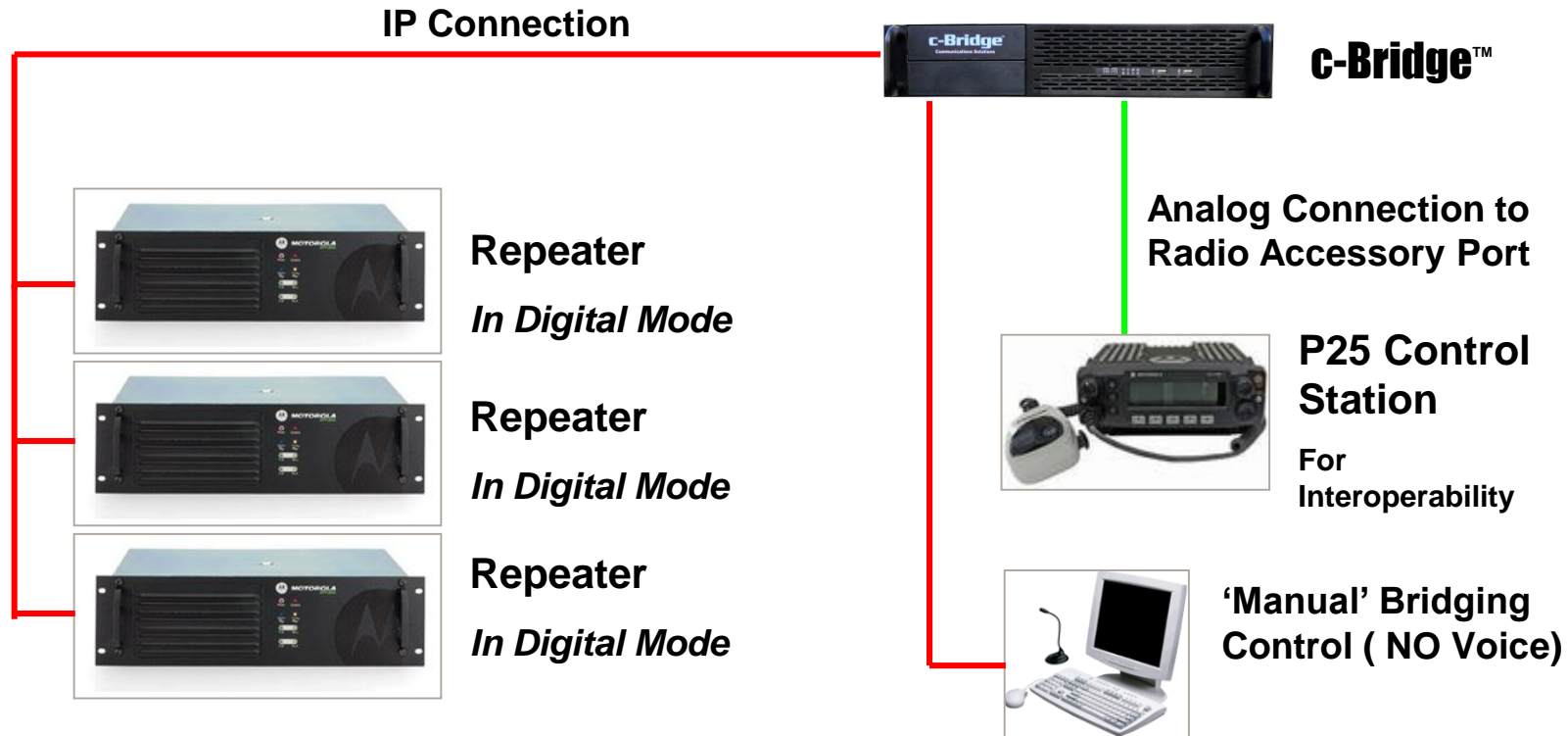
The c-Bridge™

c-Bridge *Connects to Digital Repeaters via IP Network Connections*

c-Bridge *Connects to PC via IP Network Connections*

c-Bridge *Connects to P25 Control Station via Analog Interface on* **c-Bridge**

IP Connection

c-Bridge™

Repeater

In Digital Mode

Repeater

In Digital Mode

Repeater

In Digital Mode

Analog Connection to Radio Accessory Port

P25 Control Station

For Interoperability

'Manual' Bridging Control (NO Voice)

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic *ONLY* when configured for Interoperability with non-**MOTOTRBO**™ systems. NO data capabilities exist when bridging to non-**MOTOTRBO**™ radio systems or consoles
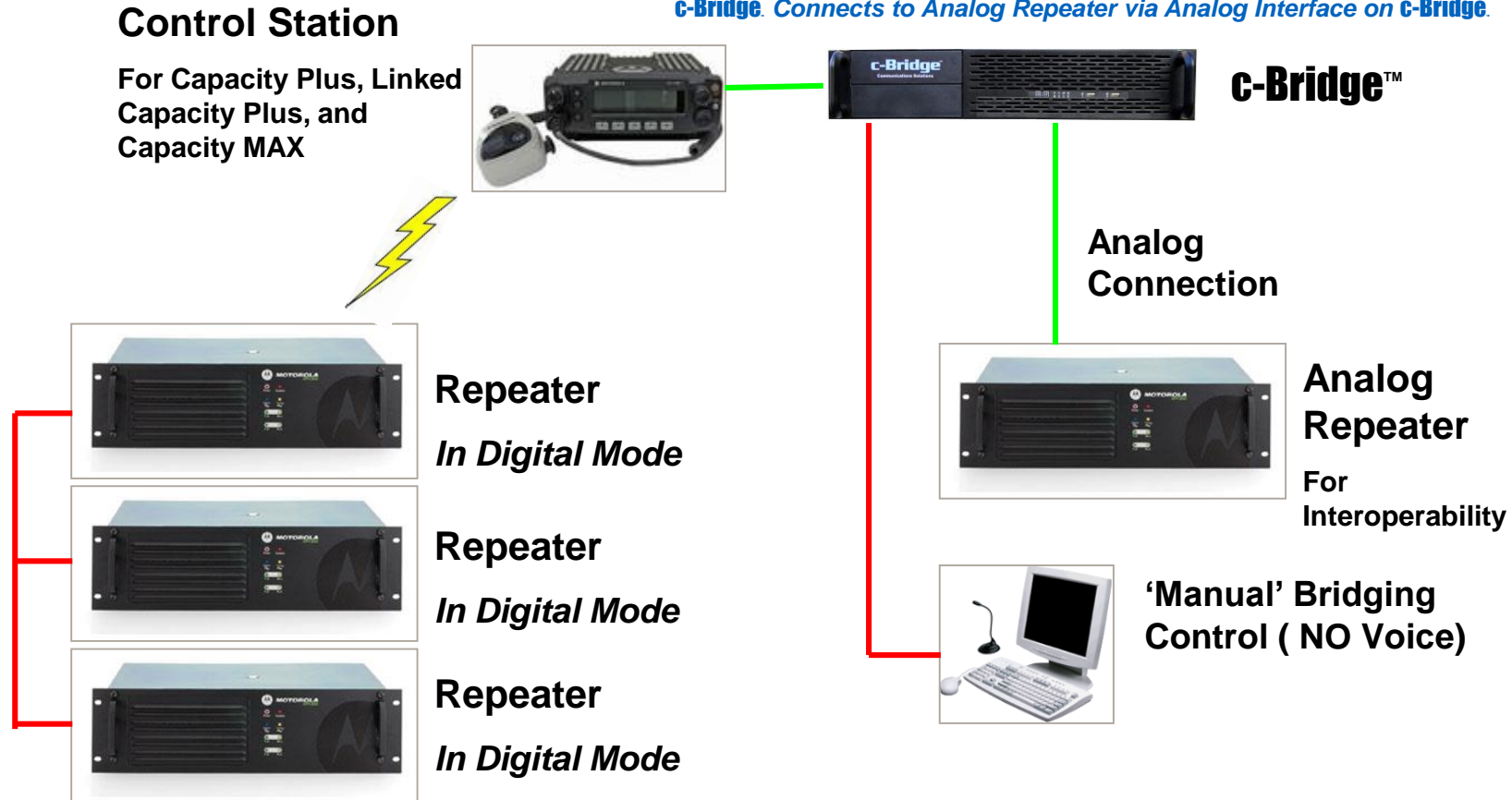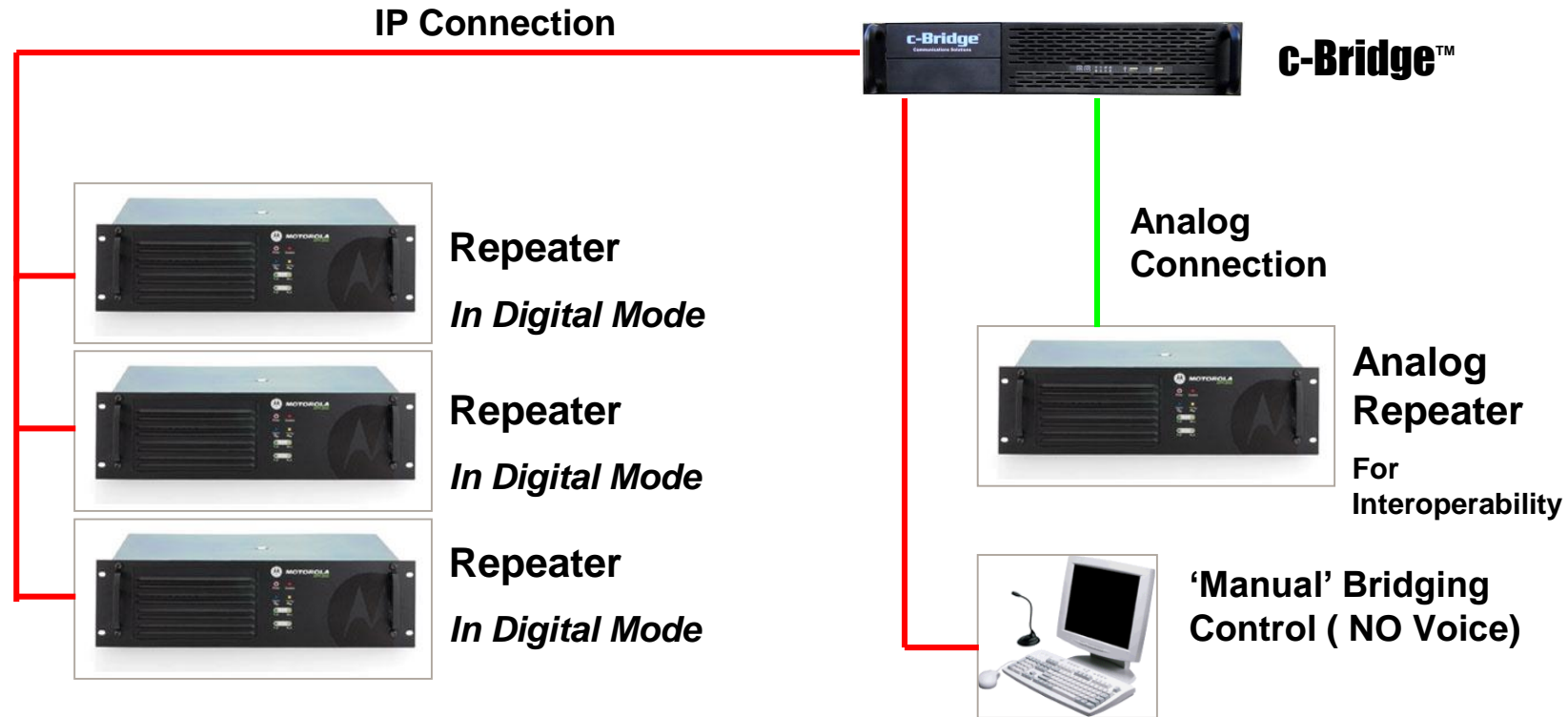
The c-Bridge™

c-Bridge. Connects to Digital Repeaters via Control Station Radio

c-Bridge. Connects to PC via IP Network Connections

c-Bridge. Connects to Analog Repeater via Analog Interface on c-Bridge.

Control Station

For Capacity Plus, Linked Capacity Plus, and Capacity MAX

c-Bridge™

Analog Connection

Repeater

In Digital Mode

Repeater

In Digital Mode

Repeater

In Digital Mode

Analog Repeater

For Interoperability

'Manual' Bridging Control (NO Voice)

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic ***ONLY*** when configured for Interoperability with non-**MOTOTRBO**™ systems. NO data capabilities exist when bridging to non-**MOTOTRBO**™ radio systems or consoles

Rayfield
COMMUNICATIONS

The c-Bridge™

c-Bridge. *Connects to Digital Repeaters via IP Network Connections*

c-Bridge. *Connects to PC via IP Network Connections*

c-Bridge. *Connects to Analog Repeater via Analog Interface on* **c-Bridge**.

IP Connection

c-Bridge™

Repeater

In Digital Mode

Repeater

In Digital Mode

Repeater

In Digital Mode

Analog Connection

Analog Repeater

For Interoperability

'Manual' Bridging Control (NO Voice)

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic **ONLY** when configured for Interoperability with non-**MOTOTRBO**™ systems. NO data capabilities exist when bridging to non-**MOTOTRBO**™ radio systems or consoles
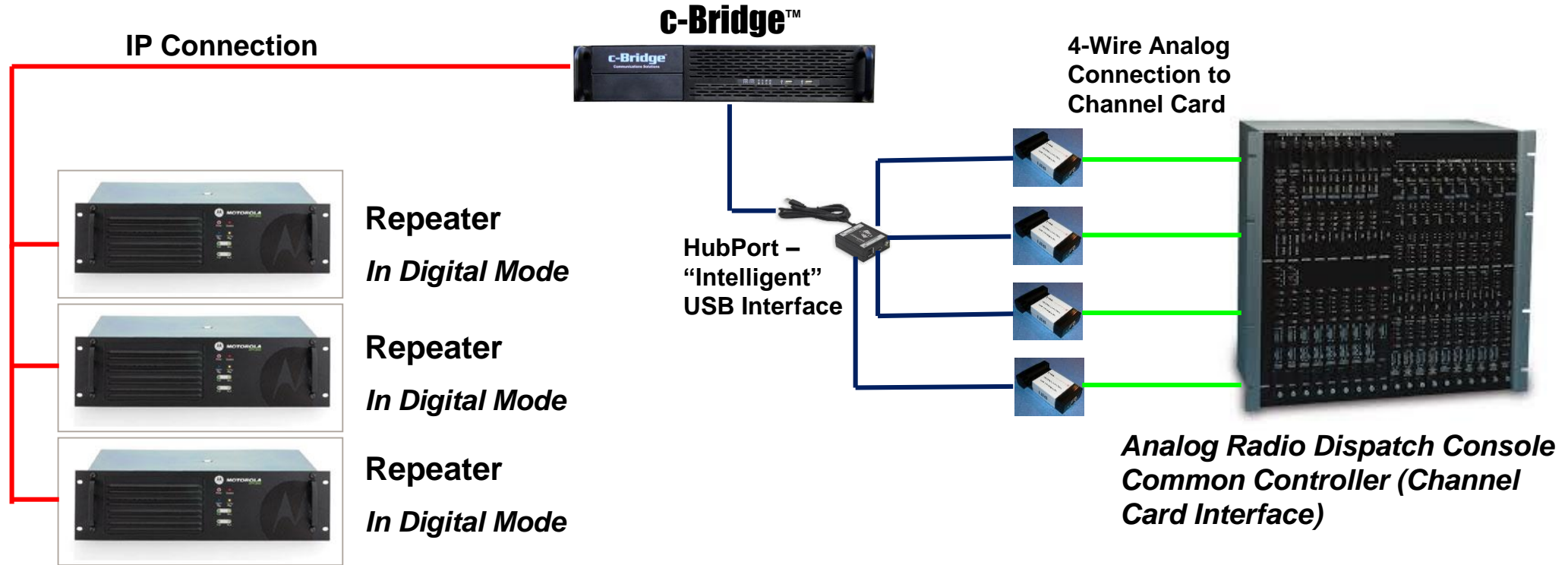
The c-Bridge™

c-Bridge™

IP Connection

4-Wire Analog Connection to Channel Card

Repeater

In Digital Mode

HubPort – "Intelligent" USB Interface

Repeater

In Digital Mode

Repeater

In Digital Mode

Analog Radio Dispatch Console Common Controller (Channel Card Interface)

NOTE - The **c-Bridge**™ Servers and Gateways pass Voice traffic ***ONLY*** when configured for Interoperability with analog radio dispatch consoles, such as the Zetron 400-series system.