

## Application Note IPR100

### Customer Profile

- Major Hospital and Emergency Department

### Application

- Reliability and Flexibility of Radio Network increased using IP

### Business Benefits

- Improved coverage including to Air Ambulance
- Increased Reliability
- Used Existing Infrastructure
- Staff Efficiency Improved
- Flexible for immediate operational changes
- Simple to install and use
- Expandable to meet future needs

### Products Used

- IPR100
- Handsets

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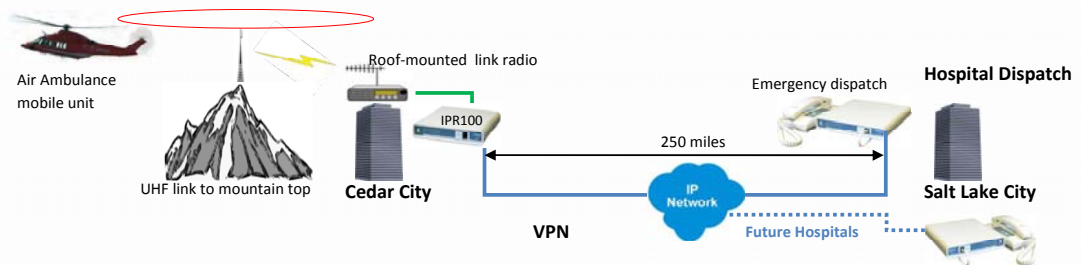


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# HOSPITAL IMPROVES RADIO COMMUNICATIONS RELIABILITY AND FLEXIBILITY USING IP

## ➤ Overview

Precision Electronics is responsible for supporting a number of key hospitals in the state of Utah with radio communications. Reliable communication between air ambulance teams and the emergency ward is a critical part of the life saving infrastructure. The medical group was looking for a dependable solution with flexibility. Staff required an easy method of monitoring and communicating with the helicopter. Each hospital had its own IP network which was connected to other hospitals via a Virtual Private Network (VPN).



## ➤ The Challenge

The installation had to be performed without disrupting normal emergency operations and if possible the position of the handset should be moveable, depending on the emergency requirements. The solution also had to cater for future options such as inter-hospital monitoring of radio traffic, voice recording and possible providing interoperability between other public safety organizations.

## ➤ Solution

Using Radio over IP provides many benefits including lower costs, increased reliability and increased interoperability. The IPR100 adaptor located close to the roof radio converts audio to the IP medium. Using the existing IP infrastructure, the voice packets are distributed to the hospital dispatch center several hundred miles away. A standard Ethernet connection to the 2<sup>nd</sup> IPR100 adaptor and handset allows staff to monitor and speak to the helicopter directly. Subject to the IP configuration, future connections in the building could provide additional convenient monitoring points. By using Omnitronics unique conference mode, several handset monitoring points could be added to the solution without IT conflicts.

## ➤ Conclusion

The installation of the radio upgrade was simple and straightforward, with minimal disruption to existing infrastructure and staff. Capital cost was within budget and, more importantly, didn't compromise communications reliability. Through farsightedness, Precision Electronics provided the medical group with a solution that would grow with the changing needs of hospital staff. Further hospital upgrades are planned in the near future.

