

## Application Report IPR100 VoIP Interface

# ACCESS THE RADIO NETWORK VIA THE INTERNET

### Customer Profile

- Fire Service with geographically dispersed volunteer operators.

### Application

- To allow multiple operators to access a repeater network from their home using the Internet.

### Business Benefits

- Improved effectiveness of a volunteer organisation.
- Flexibility in accessing the radio network from any site.
- Cost savings by eliminating additional radios.

### Products Used

- IPR100.

### → Customer Overview

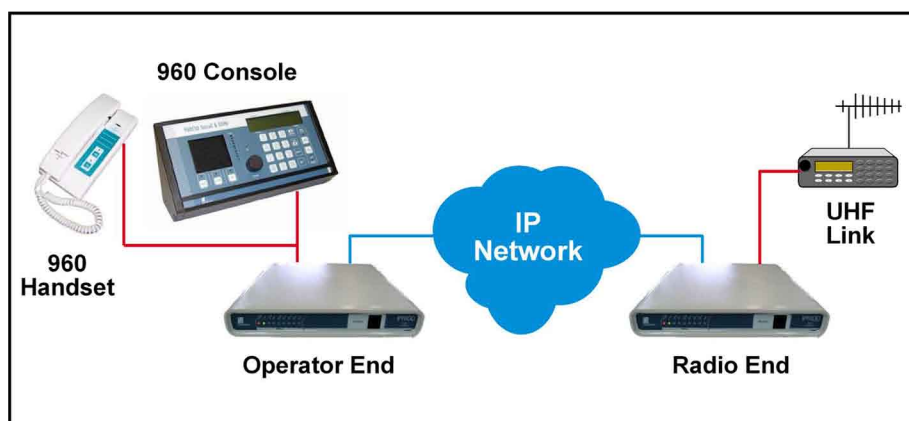
The customer is a rural Fire Authority which operates through a local radio network. Because the fire coordinators are part-time volunteers, the organisation does not operate a dedicated communications centre. It is difficult therefore to organise staff and to coordinate operations when required. It is not feasible to issue a mobile or base radio to each person.

### → The Challenge

To allow senior and key members of the organisation to access the radio network from their homes or from work using a low speed Internet connection, without compromising the security of the radio network.

### → Solution

Selected members of the Fire Authority were issued with an IPR100 and a 960 Handset for their home or office. The IPR100 connects to a volunteers private ADSL modem and the Internet. The 960 Handset provides the radio console facility and connects to the IPR100. At the repeater site, mating IPR100 units were installed and connected via an audio bridge. To prevent unauthorised access to the radio network, each IPR100 was configured to use AES 128-bit encryption. Also, by choosing the 13kbps vocoder, the authority can be confident that operations can be carried out even on the most basic of ADSL services.



### → Conclusion

The organisation has improved the way it manages operations by allowing key people to access remotely the communications network via the Internet. The IPR100 makes this possible by using Voice over IP and, by using the built-in encryption function, the organisation can be confident that the security of their network is not compromised. This has enabled the organisation to run a distributed operations scheme without the cost and coverage problems of additional radios or the limitations of cellular phones.

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