

Application Report IPR400 VoIP

Customer Profile

- Australian mine site

Application

- To create a fully integrated voice & data communications solution for the underground mine.

Business Benefits

- Improved safety.
- Cost savings by utilising existing IP infrastructure
- Easier to manage one fully integrated system
- Provides interoperability

Products Used

- IPR400's

LARGE UNDERGROUND MINE GOES VoIP

→ Customer Overview

A large Australian mining company.

→ The Challenge

This large mining company wanted to transform their underground mine to Voice over IP (VoIP) communications in order to create a fully integrated voice & data solution incorporating radio, CCTV & mine data.

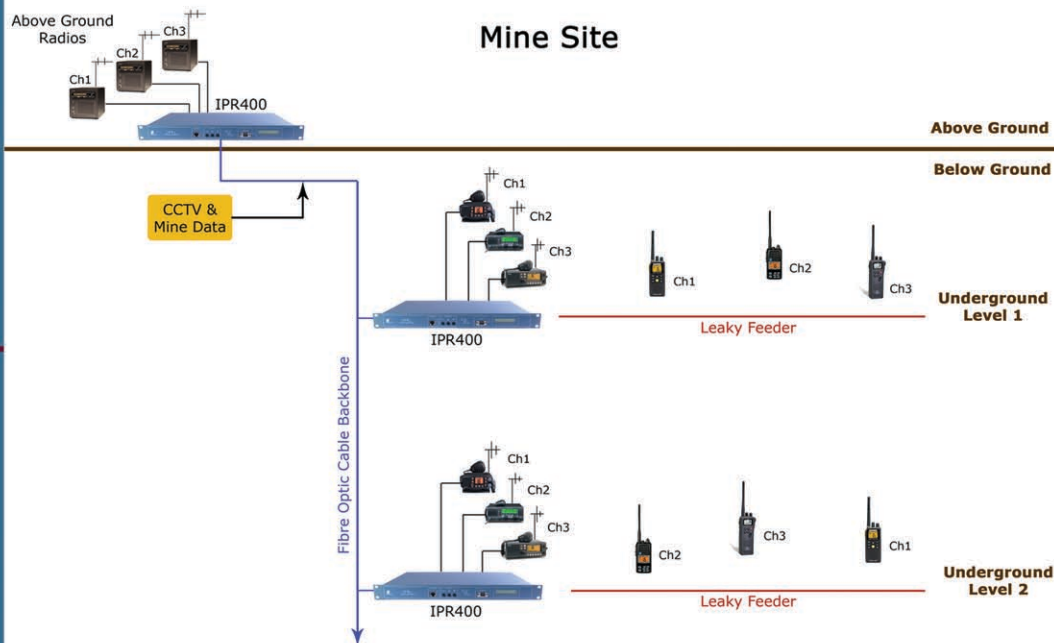
→ Solution

The site installed a fibre optic backbone throughout the mine. By connecting several IPR400's throughout the site the mine can effectively combine its radio communications (utilising existing leaky feeder) with mine data & CCTV to create a fully integrated voice & data communications solution.

“By connecting IPR400's throughout the site the mine can effectively combine its radio communications with mine data & CCTV”

The Omnitronics IPR400's provide interoperability for the mine's three radio channels from both the analog and IP sides. Because linking in this network occurs on all radio ports and across IP, Omnitronics incorporated an additional linking feature to eliminate potential timing differences in the repeated IP signal.

The diagram below demonstrates what a typical section of the mine communications system looks like.



→ Conclusion

By using the power of Voice over IP technology, the company was able to create a fully integrated voice & data communications solution. This resulted in a more effective and reliable system and by utilising existing IP infrastructure the solution proved highly cost effective.

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