

Application Note DX-64 Digital Radio Management System

DX-64 enables Flexibility and Expandability at Large Mine Site

Customer Profile

- Large Mine Site Operator

Application

- Providing a flexible, expandable and robust mine site dispatch system

Business Benefits

- Highly Reliable and Robust for a tough environment
- Simple to install
- Flexibility of adding operators above and below ground
- Easily Expandable to meet future needs of a growing mine site
- Cost effective

Products Used

- DX-64 Digital Radio Management System
- IPR400 VoIP Interface
- 960CC Consoles

Omnitronics Western Australia
Phone +61 8 9445 2633

Omnitronics International
Phone +61 7 3369 5733

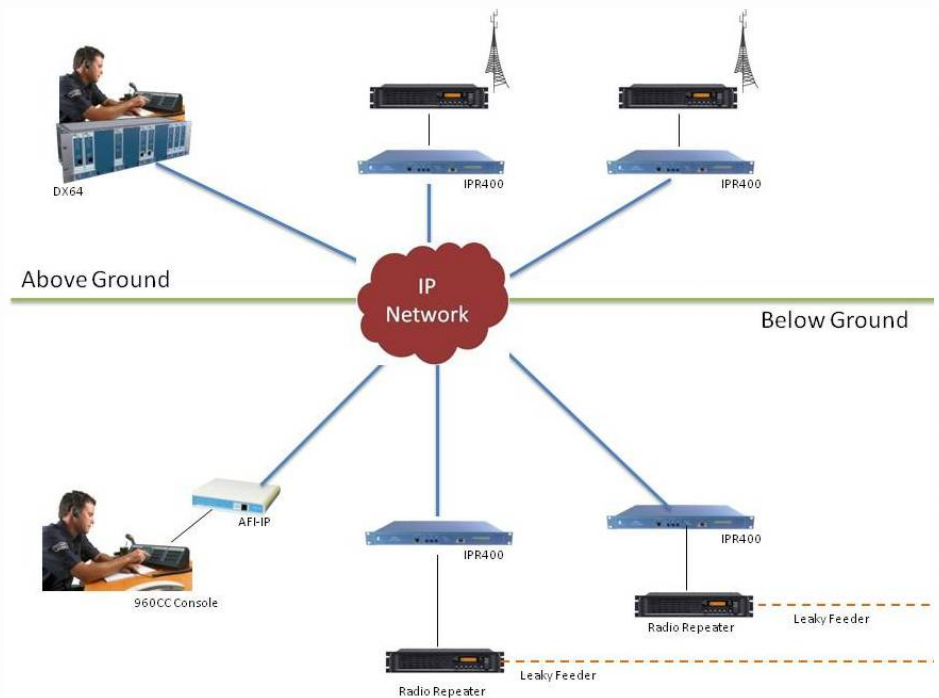
Omnitronics USA
Phone +1 904 425 0336

Email sales@omnitronicsworld.com
Web www.omnitronicsworld.com



➤ Overview

One of the largest underground mining operations in the world recently commissioned the DX-64 digital radio management system. As the radio network needed to extend both above and below ground, the system needed to be robust, reliable and flexible. In addition, the rapidly growing operation required a system that could easily expand as it did. The DX-64 was able to fulfill these needs.



➤ The Challenge

The first challenge was that the mine extends over a large area and dispatch consoles were required in a number of locations, including underground. Therefore the system needed to be robust for underground operations and it also needed to be connected in the most cost effective manner. In addition, the radio network needed to be easily expandable as the mine site grows.

➤ Solution

The various repeater locations, including underground, were all connected using an IP network. By using an IPR400 to interface between the IP network and the radio repeaters, the digital signal was easily converted for use by existing analog radios. Using IP means that the system can be easily expanded wherever an IP connection is available.

Furthermore, dispatch locations were required both above and below ground. Therefore PC consoles were not viable; instead the 960CC consoles were used due to its proven robustness and reliability. The DX-64 digital radio system manages all of these connections.

➤ Conclusion

The flexibility of the DX-64 has enabled IP connections and the use of non-PC consoles to provide a robust and expandable solution.

