



## Application Note 619DSRI

# GOLD MINE USES 619DSRI FOR ABOVE GROUND TO BELOW GROUND COMMUNICATIONS

### Customer Profile

- Gold Mine in Ontario, Canada

### Application

- Dynamic switching between connection paths in the event of an outage between above and below ground.

### Business Benefits

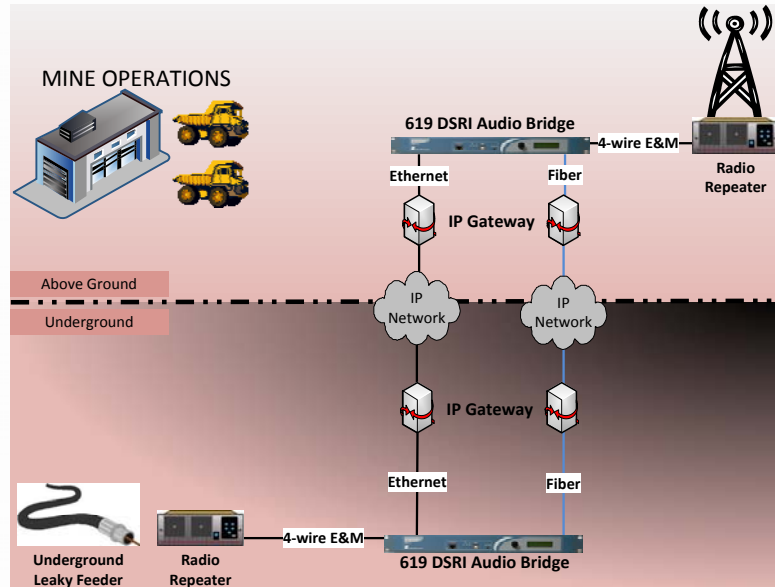
- Increased Reliability of the Radio Network
- Improved OH&S
- Reduction in Risk
- Easy to Use
- Flexible
- Easily Expandable

### Products Used

- 619DSRI

### ➤ Overview

To improve safety, reliability and efficiency, Mussel White gold mine recently upgraded their radio communications between above and below ground to using an Ethernet connection. As part of this upgrade they wanted the ability to expand the site and to have a backup system for emergency situations to reduce the high risks associated with underground mining. The 619DSRI provides this ability.



### ➤ The Challenge

Communicating below ground adds an additional level of challenge for radio systems. Perhaps the most significant challenge is that of ensuring if there is an outage, a backup system kicks in immediately. At Mussel White, they have laid both Ethernet and Fiber Optic cables connecting the above ground repeater site to a below ground site. They now needed a device to automatically switch between the connections in the event that one failed.

### ➤ Solution

The 619DSRI Audio Bridge has the ability to automatically steer voice calls along different paths as a result of digital inputs. A 619DSRI was installed both above and below ground to dynamically switch between the Ethernet and Fiber Optic cables if one fails.

### ➤ Conclusion

By installing the 619DSRI Audio Bridges, Mussel White mine is now able to confidently switch between primary and secondary communications paths. The system also caters to system expansions without upgrading their equipment as the 619DSRI has 8 ports and 8 programmable configurations. Furthermore, the 619DSRI can cross-band radios regardless of manufacturer or frequency band, providing ultimate flexibility.

Thanks to Spectrum Telecom Group Ltd who took the time to create a solution that meets both current and future needs.

**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](mailto:sales@omnitronicsworld.com)  
Web [www.omnitronicsworld.com](http://www.omnitronicsworld.com)

