

DMR Solution for Australian Operator

Hytera Multi-site DMR Tier II Network Deployed in Victoria, Australia

User
MCS Digital, Australia

Market segment
Operator

Project time
2015

Products
DMR Tier II Network
RD98XS Repeater
MD78X Mobile Radio
PD70X Portable Radio



Background >>

For over three decades, MCS Digital has specialized in design, delivery and support of mission critical radio communications equipment and systems in Australia. They have provided services for clients of a wide range of industry sectors, including essential services, transport, oil and gas, petroleum, mining, public safety, emergency services, security and public events.

Customer Demands >>

- Large-area coverage
- High efficiency of frequency and spectrum
- Stable system and power supply
- Reliable, easy-to-deploy network

What's more, a technology platform which allows network upgrade or expansion in future is required.





Solution

MCS Digital supplied a Hytera six-site DMR Tier II network as a turnkey solution for their end-users. Licensed spectrum IP links were adopted to build the network backbone. MCS Digital chose Hytera RD98XS super repeater to help their end users upgrade their system in the future. MCS also bought MD78X mobile terminals and PD70X portables. The radios were programmed to roam automatically within the site to receive the strongest signal, making sure the users don't have to change channels when their vehicles travel from one end of the network to the other.

MCS Digital also designed and built up a solar array. The company engineered a backup battery solution for each site, making sure the customers' network is always available.

MCS Digital monitors and diagnoses errors of the network remotely with Hytera RDAC application from their Melbourne office.

Benefits

With the installation of DMR Tier II Network, Multi-sites network end users don't have to change channels through the operator. The Hytera solution brings to MSC Digital's communication network with below features:

- Building backbone through licensed spectrum IP links,
- Radios were programmed to roam automatically within the sites to receive the strongest signal,
- One site was powered by solar,
- Monitoring and diagnosing errors of the network remotely with Hytera RDAC application.

The new radio network has reduced the reliance on mobile phone, where at some locations the mobile phone service was marginal.

The new radio network has increased the worker safety through always being connected and a trial of Man-down and Lone-Worker on a few of the remote users' radios.

Voice from Customer

"The Hytera documentation was easy to follow, and Hytera's equipment was easy to configure and install. Solution provided by Hytera has proven its reliability in the 6 months it has been in operational. The customers are impressed by how clear the audio is."

— Steve Allen, Systems Engineer, MCS Digital



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