

AirLink® XR90 for Private Networks – Mining Applications Maximizing safety, increasing efficiency and raising productivity

Meet James



James is the technology manager for a large mining corporation. The corporation is continually looking for ways to improve mining safety, increase efficiency and raise productivity.

THE CHALLENGE

LEVERAGE PRIVATE NETWORKING AND 5G CONNECTIVITY THAT WILL ENABLE THE NEXT LEVEL OF SMART MINING

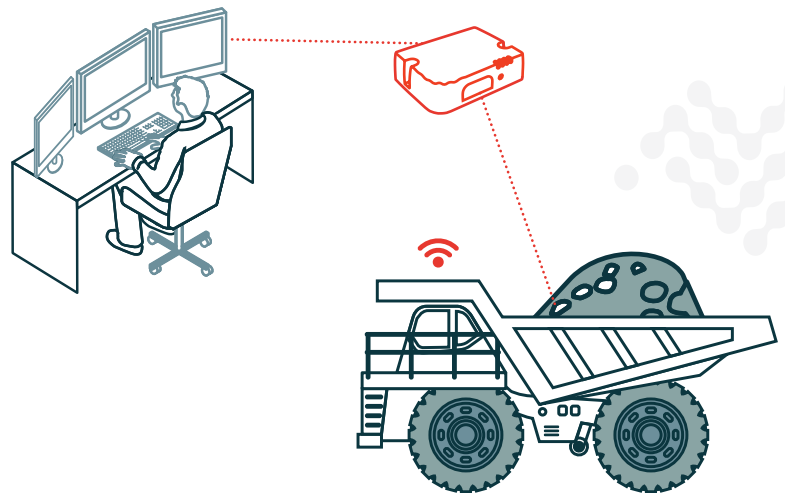
James is currently integrating new technologies to increase mine safety and productivity. This includes leveraging autonomous mining vehicles for hauling and dumping which will decrease both costs and accidents. These autonomous vehicles will require 5G, low latency connectivity within a private network. These networks need to have multiple channels for control and communications. James will use the 5G network for real-time condition monitoring of equipment to reduce costs and is investigating the use of remote drilling which will further increase productivity and safety.



THE SOLUTION

USE SIERRA WIRELESS AIRLINK XR90 CELLULAR ROUTERS ON THEIR MINING VEHICLES AND AUTOMATION EQUIPMENT

The AirLink XR90 is a ruggedized dust and waterproofed design purpose built for challenging environments. With dual 5G radios and always-on connectivity, the AirLink XR90 can deliver supercharged performance including unmatched connectivity speeds and low latency. With AirLink Cognitive Wireless, the mining operations can route critical traffic over the best network channel available. And the AirLink XR90's internal hardening delivers ultimate security to protect against malicious attacks which could bring down the mine.



THE RESULTS

INCREASED SAFETY, OPERATIONAL EFFICIENCY AND PRODUCTIVITY

With the AirLink XR90's and a secure robust 5G private network in place, the mining corporation can leverage autonomous mining vehicles and automated drilling to increase safety and efficiency. They can also continuously monitor equipment and mine conditions in real time further lowering costs and increasing safety.