

CASE STUDY



FORTESCUE METALS GROUP WIRELESS NETWORK

Technology enabled solutions

The future of the resources sector is in fully integrated, operational and automated system-enabling technologies.

Fortescue Metals Group (FMG) and Caterpillar awarded Visionstream the design, configuration, deployment and installation contract for the Autonomous Haulage System (AHS) wireless mesh project located at Fortescue Metals Group's Solomon Mine in the Hamersley Ranges north of Tom Price, Western Australia.

Highlights

The network included the following characteristics:

- Highly available Core Network to be used for backhaul infrastructure of the mine;
- Highly available 802.11 'Wi-Fi' wireless mesh network infrastructure;
- Network management and monitoring systems; and
- Following the provisioning of the network, Visionstream provides the ongoing operations and maintenance.

Customer Profile Fortescue MG

Time Scale

12 months, ongoing

Location(s)

Pilbara WA

Industry

Resources Rail & Mining

Solution

Communications Backbone & Connectivity

Approximate Value

Undisclosed



The wireless mesh network ensures that the Autonomous Haulage System delivers a safe and efficient optimisation of the fleet of mining equipment.

Delivering impressive productivity gains

The wireless mesh network ensures that the Autonomous Haulage System delivers a safe and efficient optimisation of the fleet of mining equipment, with Visionstream overseeing the ongoing operations and maintenance of the wireless mesh network.

Visionstream have provisioned an onsite communications network including backbone microwave, power, access microwave, towers, IP networking, wireless and trailers, to support the Caterpillar Minestar System. A wireless mesh network covers the mine to enable software to run the most comprehensively integrated mine operations and mobile equipment management system available in the market and features.

Fortescue Metals Group recently reported a 20% productivity gain in operations due to the Autonomous Haulage System, compared with regular fleet.



Visionstream delivers large scale telecommunications and ICT solutions across Australia and New Zealand.

- We develop smart, tailored solutions that enhance the quality of critical telecommunications assets.*
- We partner with our customers along the value chain, from network planning through to customer connections and maintenance.*
- 13,000+ personnel across our Australian Communications, nbn and New Zealand businesses.*

Contact us

For more information on how Visionstream can partner with you to improve the efficiency and effectiveness of your network, please visit www.visionstream.com.au