

# CASE STUDIES

## BHP Billiton Mining Operations

*High-Performance Network for Integrated Remote Operated Mining Centers (IROC) Real-Time Communications*



BHP Billiton is among the world's largest producers of major commodities, including aluminum, coal, copper, iron ore, manganese, nickel, silver and uranium, and has substantial interests in oil and gas. An unrivaled portfolio of high-quality growth opportunities requires ITC Global to meet the increasing resource demand of emerging economies at every stage.



The client required a high-availability connectivity platform to extend communications to support integrated remotely operated mining operations in Africa and Australia.

### Requirements

- Extend communications to key mining operations in Africa and Australia
- Support real-time systems automation
- Integrate with BHP Billiton's network operations center

### Solution

- Custom-designed SCPC solution with dedicated links
- Data rates in excess of 20Mbps in each direction
- Carrier-in-Carrier technology for maximum throughput
- Large 4.8M C-band antenna system
- Guaranteed "True CIR" solution

### Outcome

- ITC Global worked with the client team to develop a customized solution fulfilling the need for near 100% uptime, implementing a first-of-its-kind IROC.
- Advanced technology provides improved operational efficiency for iron ore mining operations worldwide
- ITC Global & BHP Billiton won the Western Australian Information Technology and Telecommunication Award (WAITTA) for innovation in telecommunications technology in delivering outstanding performance in the network



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