



Modular's MasterLink Enterprise Wireless Network Solution Selected by Vale's Carajás Mine

Tucson, Arizona, November 5, 2015

Modular Mining Systems, Inc., the global leader in the delivery of real-time mine management solutions, announced today that its MasterLink® Enterprise Wireless Network solution will be implemented at the Carajás open-pit iron ore mine. Located in the Amazon region of northern Brazil and run by Vale, S. A., Carajás is the largest iron ore mine in operation and producer of the highest grade iron ore, worldwide.

Modular's relationship with Vale began in 1993, when Carajás became Modular's first fleet management system (FMS) customer in Brazil. "We've continued to expand our partnership with Vale to encompass a total of 14 sites," said Davi Freire, General Manager, Modular Brazil. "Earlier this year, we celebrated the signing of Vale's Pico mine as our 250th customer."

Carajás first installed the MasterLink 2 (ML2) network in 2004 and later upgraded to MasterLink 11 (ML11) in 2007. The mine's usage of bandwidth-intensive applications, need to support multiple virtual local area networks (VLANs), and increased coverage requirements, drove the mine to upgrade its wireless platform.

MasterLink Enterprise represents the latest evolution in Modular's long-standing history of wireless networking solutions. Modular's extensive industry-specific wireless expertise pairs with Cisco's best-in-class architecture to provide our customers with an enterprise-class network that ensures maximum capacity, coverage, and performance.

Carajás also utilizes Modular's DISPATCH® Fleet Management system, MineCare® Maintenance Management solution, and ProVision® Machine Guidance system. The MasterLink Enterprise solution is expected to be commissioned later this year.

About Vale and Carajás Mine

Vale S.A is one of the largest mining companies around the world, leader in iron and nickel ore production. The company also operates with production of iron pellets, nickel, copper, coal, fertilizers, manganese and ferroalloys. For more information, visit: www.vale.com.

About Modular

Founded in 1979, Modular Mining Systems, Inc. is the market-leading provider of powerful information management solutions that meet the needs of both surface and underground mining operations, worldwide. Modular is committed to delivering state-of-the-art mine management technologies in the areas of production, machine guidance, equipment health, and operator safety. Modular employs more than 600 employees in 10 offices around the world, with systems deployed at more than 250 client sites, including 18 of the 20 largest mines in the world. For more information, visit: www.modularmining.com.

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