

RAJANT KINETIC MESH® NETWORKS IN MINING

Maximize Uptime in Extreme Conditions

In an industry where even short periods of operational downtime can cause millions of dollars in losses, mining operators must be empowered to continuously monitor, manage and control their large fleets of high-value equipment, vehicles and personnel—wherever they travel across large areas of rugged mining terrain.

BAYCOM's Rajant Kinetic Mesh® provides a mobile mining network that enables operators to meet the continuous production and safety mandates called for in the mining industry with unwavering network availability. The unique Kinetic Mesh architecture allows mines to easily introduce, relocate, or remove network infrastructure – without causing any network downtime – to deliver highly adaptable coverage and the continuous connectivity.

WHY RAJANT?

Reduce Costs with Improved Operational Efficiency

Minimize Unplanned Downtime – Unplanned downtime of one shovel can impact production volumes by 25-35%.¹ Rajant's networks empowers mining operators to remotely monitor and proactively manage maintenance of their high-value equipment fleet.



Move to a Condition-Based Maintenance Model – 30% of time-based preventative maintenance effort is wasted, and 30% is actually harmful.² Running equipment health monitoring applications can give you real-time status of shovels, pumps, loader trucks, and more – so that service efforts correlate to condition.

Prevent Safety Issues and Violations – A Kinetic Mesh network can support a plethora of mining sensors installed on mobile mining machinery, which the Mine Safety and Health Administration (MSHA) has stated can increase personnel safety.



LET US SHOW YOU THE OPPORTUNITIES THAT
RAJANT KINETIC MESH® CAN BRING TO YOUR NETWORK

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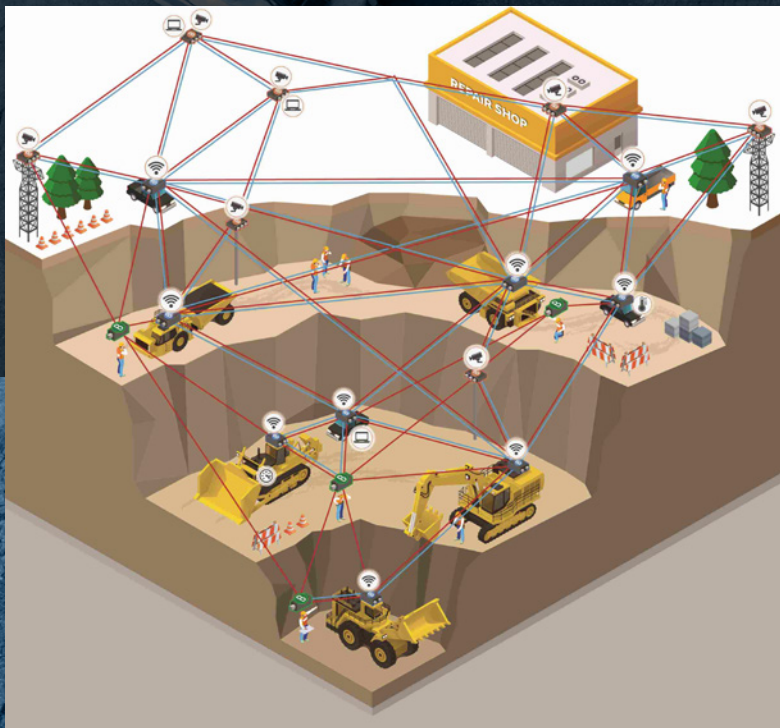
Increase Revenues with Greater Productivity




Increase Equipment Effectiveness – The global average overall equipment effectiveness (OEE) performance of underground mines is 27%, and 39% for open-pit mining.³ Mitigate the variability inherent in mining operations while unlocking new levels of productivity using sensor data from equipment—with the computing power and connectivity needed to interpret and act on that data.



Automate Operations for Added Productivity Gains – Automated haulage can reduce total cost of ownership by 15 to 40%.³ Automation applications supported by Rajant's Kinetic Mesh network have the potential to improve operating discipline and efficiency while minimizing personnel safety risks.

Increase Production Yields Quickly – By analyzing real-time data with analytical engines, plants can often improve their processed mineral yields by 3 to 10% within months.³ Run applications that perform advanced analytics to identify new ways to optimize everything from scheduling to machine movements, processing, and more—all driving greater production output.



-  — Breadcrumb
-  — Wi-Fi Hot Spot
-  — Radio Transceivers

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