Mapping a remote mine's real network — without agents or a site visit.

A titanium mineral sands producer in southern Africa deployed Rebasoft, delivered with a South African partner, to replace spreadsheet-based network knowledge with a discovered, verified view of its corporate and process control networks.

44 of 92
documented switches could not be reached

637
edge interfaces mapped

92
connections to unmonitored devices

36%
of switch ports actually in use

THE CHALLENGE

- Network knowledge sat with individuals, not systems, which slowed fault-finding and recovery.
- Inventory lived in spreadsheets and had never been checked against the live network.
- A remote operation: everything had to be done over VPN, with no Rebasoft engineers on site.

OUR APPROACH

- A single agentless Rebasoft virtual appliance, deployed over VPN.
- Seeded from the client's own corporate and SCADA address ranges and device lists.
- SNMP switch discovery, neighbour mapping and sFlow traffic, then 119 Wi-Fi access points onboarded.
- Sites organised by mine area for reporting.

WHAT DISCOVERY REVEALED

Inventory that didn't match reality
44 of 92 listed switches were unreachable, with 7 further discrepancies against the live network.

An unknown network edge
92 connections to devices nobody monitored: potential paths around the main firewall.

Idle capacity
Only 36% of switch ports were in use, leaving hardware that could be redeployed rather than replaced.

Hidden performance faults
105 interfaces with errors, plus half-duplex links, quietly slowing applications.

An inconsistent Wi-Fi estate
119 access points across 9 models and 5 firmware levels, with around 23 dropping more than 1% of packets.

Unknown and unsupported endpoints
Many unclassified devices, unsupported Windows versions and gaps in anti-malware coverage.

The outcome: the mine's first authoritative picture of its network, measured against its own documentation, with a prioritised list of fixes.

WHY IT MATTERS FOR MINING

Remote-ready
One VM over VPN. No agents and no site visit needed.

IT and OT in one view
Corporate and process control networks discovered from a single platform.

An inventory you can trust
The foundation for CMDB, OT security and change control.