



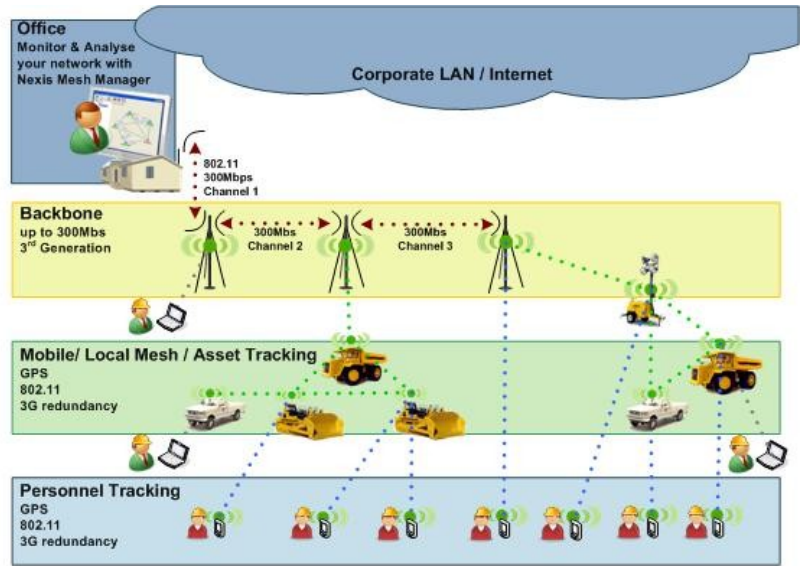
## INTELLIGENT INDUSTRIAL WIRELESS NETWORK

### Nexis

Nexis, designed for the industrial environment, such as mining, is a **3rd generation**, powerful and secure mobile wireless platform with mesh capabilities. Based on **open standard technology**, the Nexis platform will integrate seamlessly with existing infrastructure and where no infrastructure exists also provides the high-speed backbone link.

Unlike other wireless solutions in the market today, the Nexis intelligent networking platform, has been **developed with a focus on the mobile application** perspective rather than from a campus / metropolitan application. This is particularly important for markets such as the mining, construction, and transport industries where real-time mobile data transfer is crucial to the day to day operation and corporate reporting functions.

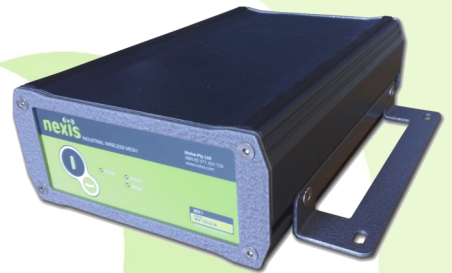
The Nexis range extend beyond the wireless mobility need to provide for **fixed wireless infrastructure** requirements. Nexis can easily fill a gap for the fixed environment. With the advanced design requirements for the complex mobile environment, fixed backhaul applications become far simpler.



### MX2

The MX2, is a **3rd generation dual-radio wireless platform** providing the following features:

- Support for one or two WLAN radios operating in the 802.11 and other licensed frequency bands (400mW-700mW), all at 54Mbps.
- Integrated amplifier and GPS (low or high precision) options
- Each radio can be configured independently to operate as a WiFi client, WiFi Access Point, Backhaul repeater or WiFi AP + Mesh Router.
- Combinations of these modes can provide unique functionality including:
  - Dual-channel mesh for channel diversity
  - Mesh + WiFi client allows a vehicle to operate as part of a legacy WiFi network (eg. Modular Mining MasterLink, Cisco AP or other WiFi-capable mesh solution), while meshing with other vehicles for local connectivity (eliminating unnecessary data going across the backbone) or to enable vehicles that cannot directly access the backbone to remain connected via other vehicles by utilising the mesh features.
  - AP/Mesh + Backhaul, eliminating the need to use multiple products
- Integrated, mesh-aware VoIP registrar to ensure VoIP calls can be made directly between vehicles even in the absence of any connectivity to the backbone and/or central (corporate) VoIP servers. This allows operators to communicate with each other using the peer-to-peer capabilities of the mesh, with no reliance backbone connectivity.
- Support for Personnel Tracking / Proximity Detection solution



### APPLICATIONS

**MACHINE GUIDANCE.** Increase Productivity with the ability to download design files into the onboard PC of a dozer/excavator to provide precise operator guidance. The same telemetry system can be used to provide real time information back to the main office for productivity measurements.

**POSITION MONITORING.** Use GPS technology to continuously determine the position of machines for safely working dozers around hazardous obstacles.

**PROXIMITY & COLLISION DETECTION.** Improve the safety of operators and prevent damage to capital intensive assets by

issuing operators with early warnings of hazards.

**REMOTE NETWORK ACCESS.** Nexis™ provides a high bandwidth wireless connection to transfer operation data back to the mine office.

**MOBILE HOTSPOTS.** Foremen, surveyors, mine managers have the ability to log into the network via Laptops and PDAs while out in the field. Nexis™ gives coverage in difficult to reach areas such as at the pit base or up against high pit walls.