

Beyond Emergencies

The Vehicle as a Node (VaaN)

Enterprise Grade Pop-Up Networking
Capability for Councils, Agencies, and
Critical Operations



What is Vehicle as a Node?

For organisations, local councils, and emergency services with distributed workforces, field connectivity often relies on unmanaged hotspots.

These create "connectivity islands" that sit outside corporate security and governance frameworks.

Vehicle as a Node (VaaN), delivered by Hexicor in partnership with Telstra, transforms a standard fleet vehicle into a secure, managed extension of your network, a mobile branch office.

It leverages Telstra's mobile network alongside satellite and mesh technologies to provide high performance connectivity wherever the vehicle, crew, or command post is stationed.

From Ad-Hoc to Enterprise Grade

Modern entities must maintain strict cybersecurity and data governance standards, even in temporary or remote environments. VaaN eliminates "Shadow IT" risks by bringing the office network directly to the field through a fundamental shift in mobile capability.

The Power of the Hexicor and Telstra Partnership

By anchoring VaaN to Telstra's critical communications infrastructure, councils and agencies gain more than just coverage; they gain resilience and priority.

During major community events, infrastructure failures, or large-scale emergencies, consumer networks often become congested. VaaN traffic is prioritised on Telstra's network, ensuring that critical coordination and public safety operations remains functional.

This partnership allows organisations to leverage Australia's largest mobile footprint, ensuring that mobile sites are a seamless part of the long-term ICT strategy.



Vehicle as a Node (VaaN) and beyond

Communications

- Mesh Routers
- Access Points with multi path backhaul 4-5G/ Satellite – e.g Cisco
- Satellite Communication Starlink/ Iridium
- Mobile Antenna Systems including multiplexing
- Two way radio – UHF CB and commercial networks

Telematics

- Support for driver Interfaces – Fit for duty declarations/ messaging / notifications
- Managing Driver behaviour
- Engine interfaces – J1939/CAN allowing Maintenance
- Environmental sensors
- RFID

Driver Safety

- Man Down Pendants communicating across Mesh networks, local to vehicle
- Phone App based solutions
- Vehicle impacts as a result of harsh impact and roll over

Power Management

- Vehicle and asset power management to support infrastructure
- Understanding existing vehicle systems
- System design to allow customers to reach requirements and ensure limited vehicle impact
- Dual battery systems, DC to DC chargers and Lithium invehicle setups. Timer/ voltage sensing relays to manage vehicle impact
- Solar MMPT charging systems to help sustain vehicles power integrity



Installations

- In-house company employed team
- 50+ years experience
- Custom mounting hardware designed inhouse
- Onsite installation services offered in remote regional areas
- Total installation services allowing single point of engagement and touch
- Project Installation management for large fleets including job ticket capture with photos

Operational Applications

VaaN acts as a force multiplier for organisations managing high-impact events, community recovery, or large-scale field operations.

Events and Public Operations

Festivals and pop-up depots require robust connectivity for ticketing and coordination. A VaaN-equipped ute provides a secure Wi-Fi bubble for 20+ staff tablets in parklands with zero infrastructure. Similarly, public safety agencies can backhaul live HD security feeds to command centres without permanent cabling.

Emergency Response and Recovery Hubs

When networks fail during floods or fires, VaaN vehicles establish immediate coordination hubs. Mobile teams can access sensitive databases and process relief claims via satellite in real-time. Utility providers also deploy VaaN to remote sites, ensuring repair crews maintain a reliable link to dispatch.

Field Coordination and Infrastructure Projects

Crews on road corridors or remote assets no longer need to drive to a depot to sync data. Supervisors can access GIS maps and asset management software from the driver's seat, syncing site photos and compliance data instantly. In industrial settings, VaaN supports a private LTE mesh for sensors and autonomous equipment via secure backhaul.

Strategic benefits for Operational Leadership

The primary advantage for ICT governance is a consistent security posture. Every device connecting to a VaaN node, laptop, sensor, or tablet, is subject to the same MFA, encryption, and filtering policies as the head office.

VaaN treats communications as critical infrastructure, reducing downtime and travel. With integrated power and redundant backhaul, connectivity persists even if local terrestrial networks fail, allowing first responders to make faster, data-driven decisions.

A Trusted Infrastructure Extension

VaaN reframes connectivity as a strategic asset, allowing organisations and emergency services to operate more securely regardless of location.

To integrate VaaN into your fleet and SD-WAN strategy, contact your Telstra Account Executive or Hexicor Partner Lead for a technical briefing and demonstration.



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