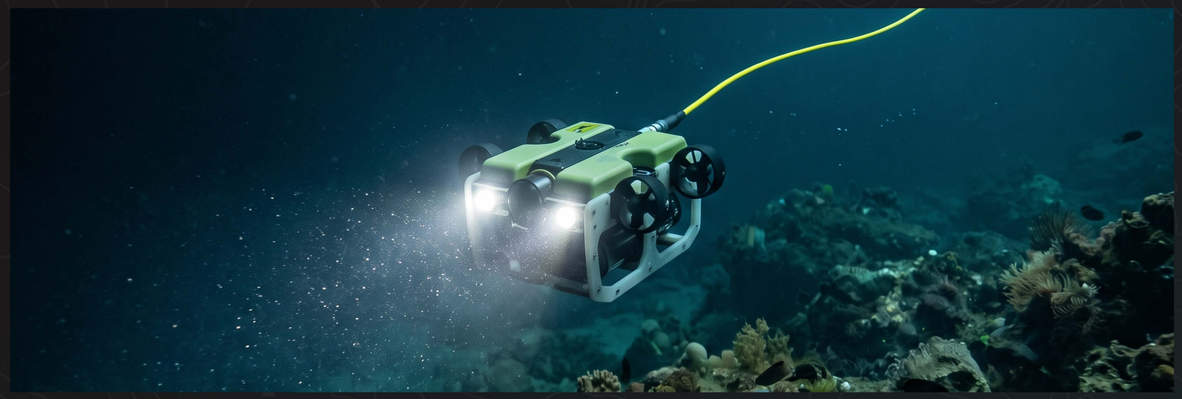
NODESTREAM

MISSION-CRITICAL COMMUNICATIONS FOR CONTESTED NETWORKS

Secure, low-bandwidth transmission and aggregation of live video, audio, telemetry and control data for remote and autonomous operations.



PROBLEM

- Mission data must travel over bandwidth-constrained, high-latency networks.
- Packet loss, congestion, jamming and blackspots can interrupt operational visibility and control.
- Disparate platforms, sensors and data sources can leave critical information spread across separate systems.

SOLUTION

- Optimises video, audio, telemetry and control data for constrained IP networks.
- Automatically recovers and resumes transmission when a viable connection returns.
- Aggregates feeds from multiple assets and sensors into one synchronised operational view.
- Provides end-to-end encryption with on-premises and air-gap capable deployment.

OPERATIONAL VALUE

- Supports decision-quality situational awareness across dispersed operations.
- Preserves access to ISR feeds and remote assets as network conditions deteriorate.
- Enables remote monitoring, remote control and specialist collaboration.
- Reduces bandwidth demand across existing communications infrastructure.

DIFFERENTIATORS

- Interface, network and asset agnostic.
- Operates across satellite, cellular, radio, mesh and other IP-based networks.
- Integrates with existing C2, ISR and mission systems.
- Designed, developed and delivered in Perth, Western Australia.

PROVEN CAPABILITY

- TRL9 | 700,000 - 1,000,000 operational hours | Up to 90% bandwidth reduction | Engineered for sustained packet loss of up to 40%
- Currently actively deployed on defence operations globally

RELEVANT DEFENCE APPLICATIONS

Naval platforms | Maritime task groups | Uncrewed surface vessels | Distributed ISR | Remote expert support

Sovereign. Secure. Resilient.

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NODESTREAM MISSIONS

ONE CENTRAL PLATFORM