

SNC[®]

DeepLink[™]



Breakthrough Compression for Undersea Channels

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SNC's DeepLink is mission-tailored, AI-driven compression software that increases effective throughput on any communications link. Physical-layer agnostic, DeepLink was purpose-built to solve the hardest problem in military data transport: assured delivery of operationally relevant content over extremely low-bandwidth, highly contested, one-way channels such as VLF communications. The system pairs AI-powered compression with high-efficiency error correction to deliver a compounding bandwidth advantage: 5-50x from compression alone, further multiplied by error protection that achieves equivalent or superior delivery assurance at significantly less overhead. Every bit presented to the recipient is guaranteed identical to the original, zero possibility of silent corruption or data hallucination. DeepLink operates transparently within existing communications architectures, enabling delivery of content previously impossible over constrained links: imagery, acoustic, meteorological products, briefing materials, and intelligence reports.



Breakthrough Compression for Undersea Channels

DeepLink delivers operationally relevant content to communications-denied platforms without requiring them to break posture for higher-bandwidth links, increasing what operators can communicate without changing how existing systems transmit.

KEY FEATURES

Compounding Bandwidth Advantage. AI compression and high-efficiency error protection work together as multipliers, not additions. A 20x compression gain combined with 3x reduction in error correction overhead yields 50x effective throughput improvement over conventional approaches on the same channel.

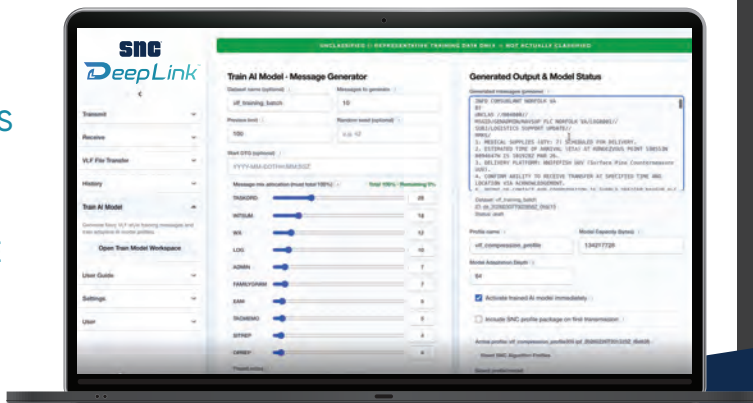
Guaranteed Fidelity. Every reconstruction is fully deterministic and lossless. Unlike lossy or AI-generative approaches, the system cannot produce plausible but incorrect output. If a file cannot be perfectly reconstructed, the system reports failure rather than delivering corrupted data.

Zero-Footprint Deployment. DeepLink requires no special hardware, no modifications to antennas or radio processors, and no GPUs or high-performance computing resources. Designed for the most constrained platforms, it runs on low-power and legacy systems with minimal computational overhead. The same software delivers identical benefits across any communications channel: VLF, UHF SATCOM, HF, fiber optics, free-space optical links, or any future waveform.

Transparent to Existing Infrastructure. Operates above the physical layer and below the application layer. Existing COMSEC, message handling systems, and operator workflows remain unchanged. No new protocols, no retraining, no certification impacts to adjacent systems. The system is invisible to end users, who see content appear progressively as data arrives rather than waiting for complete transmission.

5x–50x
COMPRESSION GAINS

18 Min → 30 Sec
TRANSMISSION TIME



OPERATIONAL IMPACT



Faster Delivery Speed

In a representative scenario, content that required 18 minutes over a 50 bps channel delivers in under 30 seconds on the same link when compression and error protection gains combine.



Posture Preserved

Platforms maintain emissions discipline and survivability posture while exchanging content previously reserved for higher-bandwidth windows.



Accelerated Decision Cycle

Commanders receive frequent, detailed updates without scheduling dedicated connectivity windows, compressing the time from collection to action.



Single-Pass Delivery

Integrated error protection reduces retransmission needs, delivering complete content on the first attempt even under active jamming or heavy interference.

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