VIDTERRA COMPASS

by NTS

Accelerated Data Distribution
EDGE. ENTERPRISE. EVERYWHERE.

Compass makes ISR data distribution simple by using intelligent software to replace complex network routing.

Each Compass instance automatically discovers, processes, and distributes ISR data in real time.

With flexible deployment options and Navigator mesh networking, users create a data distribution ecosystem by linking together remote instances to monitor and control fused sensor data.

COMPASS WORKFLOW

DISCOVER PROCESS DELIVER

FEATURES

VIDEO PROCESSING
Achieves real-time video compression and software-defined routing to ensure the lowest latency video streaming and web playback.

AUTOMATED DISTRIBUTION
Creates an automated data distribution network across all globally distributed deployments.

SENSOR FUSION
Enables seamless TAK server federation, transforms ISR data streams into CoT and automates video delivery to TAK client devices.

SECURE TRANSPORT
Ensures end-to-end data security for Compass nodes via native Virtual Private Network (VPN) integration.

SOURCE SIMULATION
Enables efficient troubleshooting, modeling and simulation to validate system readiness and ensure operational success.

INGESTS TACTICAL VIDEO & DATA SOURCES

Manned
Surveillance
IP Cameras
Single Use
UAS
Mobile
PAI
TTL
UGV
sUAS
USV
Body-Worn

VIDEO
H.264
H.265
AV1
MPEG-2
MJPEG

SENSOR DATA
COT
EO/IR
KLV (MISB)
RFD
KML
AIS
ADSB
PLI

ACCELERATES VIDEO & DATA PROCESSING WORKFLOWS

INGEST ANYTHING
FUSE EVERYTHING
DELIVER ANYWHERE

COMPASS

UNIVERSAL DATA CONDUIT

AUTOMATES DISTRIBUTION TO VIDEO & DATA CONSUMERS

TRANSPORT
SATCOM
Cellular
Wi-Fi
Radio

VPNs
Cloudflare
Wireguard
Open VPN
Zero Tier

PROTOCOLS
SRT
RTSP
HTTP(S)
RIST

C2
Intel
Fires
Maneuver
APIs
Force Protection
TAK
Web Users
AI/ML
Cross Domain

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VIDTERRA COMPASS

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EDGE ► CLOUD ► ENTERPRISE ► EVERY OPERATOR

From the edge to the enterprise, Compass automates video workflows making it easy to send video from live video sources across tactical, mobile, and enterprise networks. Using intelligent software, Compass makes video distribution simple, automates video workflows, and replaces complex network routing. It is built for tactical environments: easy to use in the field, compatible with commercial and military networks, and integrates with any sensor for seamless delivery to video consumers.

KEY BENEFITS

ZERO CONFIG DISTRIBUTION

Automate. Don't Integrate.

Compass auto-discovers ISR video from every connected source and routes it to authorized consumers without manual network configuration or specialized support personnel. Less setup. More mission.

BANDWIDTH EFFICIENCY

More Video. Less Bandwidth.

Real-time transcoding compresses high-bitrate FMV from 10+ Mbps to under 1 Mbps — maintaining full situational awareness over SATCOM, cellular, or radio links that would otherwise drop the feed.

NATIVE TAK INTEGRATION

Video Where Operators Already Are.

Automated CoT generation and TAK server federation deliver live video directly to ATAK, WinTAK, and iTAK users. No additional configuration. One click to pull the feed.

DEPLOY ANYWHERE

Edge to Enterprise. One Platform.

Cloud, VM, hardware appliance, Windows workstation, or Android device — Compass runs on any platform. Dynamic licensing means capabilities follow the mission, not the hardware.

BUILT-IN SECURE TRANSPORT

Encrypted. One Toggle.

Native VPN integration — WireGuard, OpenVPN, Cloudflare Tunnel, and ZeroTier — secures every link with no command-line setup required. End-to-end encryption across public networks, out of the box.

ENTERPRISE C2

One Dashboard. Every Node.

From a single pane of glass, commanders see every node, every feed, and every network metric across the enterprise. Assign capabilities, reclaim licenses, and respond to shifting ISR demand in real time.

DEPLOYMENT OPTIONS



CLOUD | VM | APPLIANCE | BODY-WORN | WINDOWS | ANDROID

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