

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
FUZE 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



Fires



APIs



TAK



AI/ML



Intel



Maneuver



Force Protection



Web Users



Cross Domain

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