

Tracking Analytics Software Suite (TASS)

Automated processing of Motion GEOINT sources that delivers real-time intelligence on movement of people, vehicles, and other items of interest

TASS represents a revolutionary toolset for automatic track generation that, when combined with other solutions in the GXP® Ecosystem including Motion GEOINT, GXP InMotion™ Server, the Movement Intelligence (MOVINT) Database, Spatial Network Activity Analytics for Relating Entities (SNAARE), and Hydra, creates the industry's most advanced system for the management and analysis of movement data.

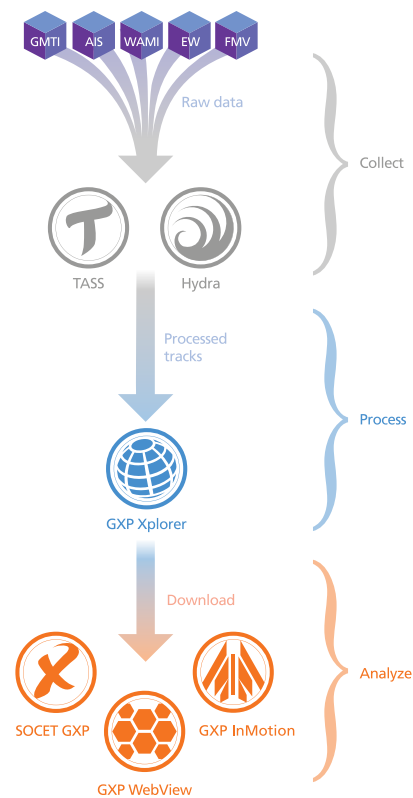
Object tracking

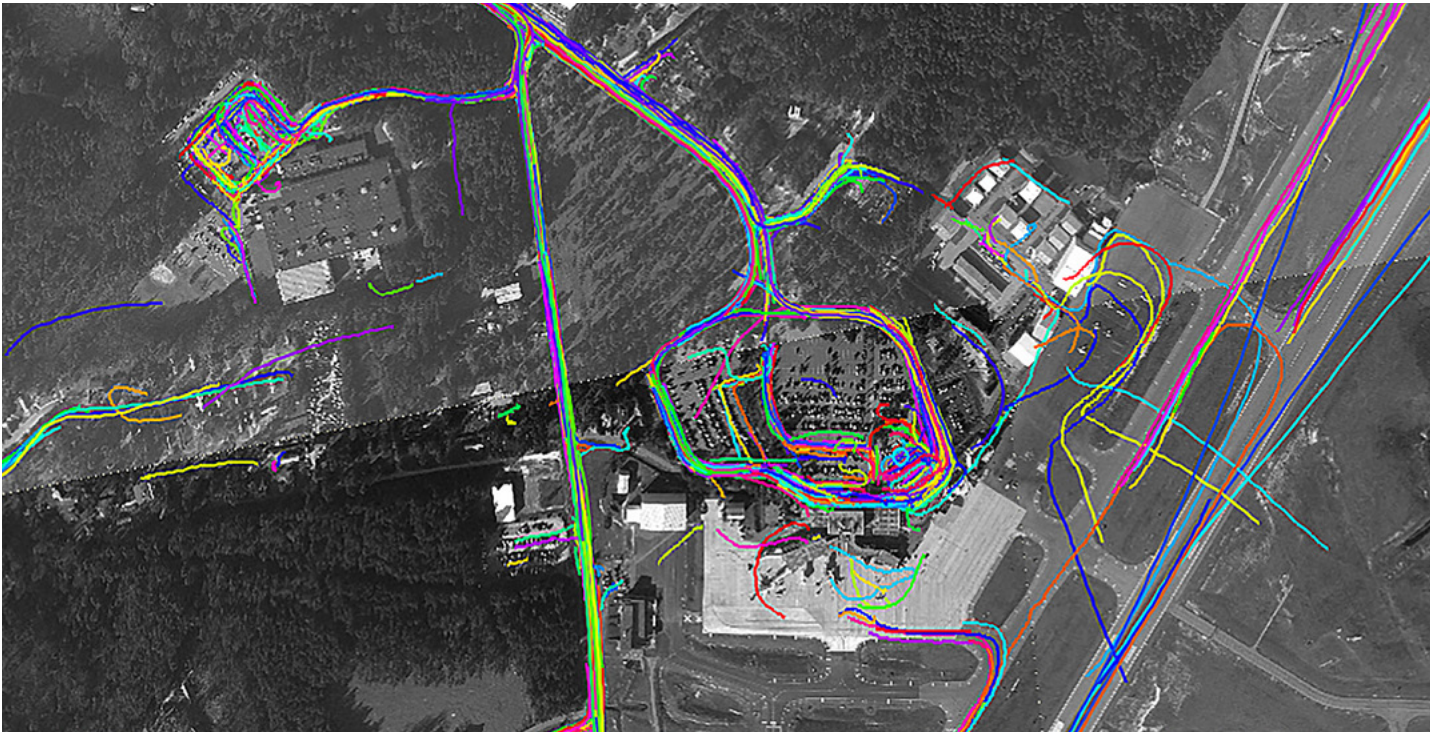
TASS enables interpretation of MOVINT from a variety of sources:

- » Full Motion Video (FMV), STANAG 4609
- » Wide Area Motion Imagery (WAMI) (including MIE4NITF)
- » Ground Moving Target Indicator (GMTI), STANAG 4607
- » Existing STANAG 4676 Track data
- » Electronic Warfare (EW)
- » Automated Identification System (AIS)
- » Global Positioning System (GPS)

Automatically generated tracks include information regarding turns, stops, and acceleration, as well as object recognition, time-stamping, and georeferencing designed to deliver unmatched intelligence insight into targeted activities.

TASS can store both automatically generated tracks and user generated track data (STANAG 4676, CSV, and MISB 0903.4) directly into the MOVINT Database for retention and exploitation. Users can then interpret motion events and apply advanced analytics for network analysis and track correlation using Hydra and SNAARE plugins. Track data can be exported in industry standard formats including MISB 0903.4 and STANAG 4676.





Tracking visualization. CorvusEye imagery courtesy of Harris.

Storage, discovery, and streaming

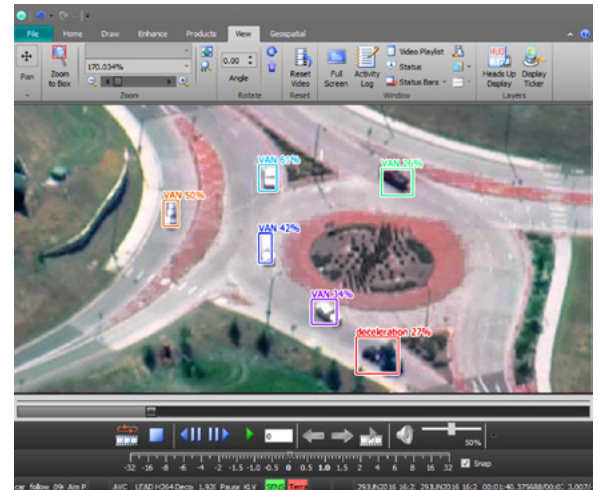
Tracks stored in the MOVINT Database can be easily queried and discovered through the GXP product ecosystem using GXP Xplorer® software. These tracks can then be streamed to our GXP InMotion Web® and SOCET GXP® applications for more advanced exploitation including the ability to overlay tracks on the raw source imagery (FMV and WAMI).

Advanced track analytics

The GXP Ecosystem also includes a set of advanced analytic solutions, including SNAARE, track stitching, and Hydra, to assist users in identifying correlating data between modalities and patterns in track data.

The GXP InMotion SNAARE plug-in provides the ability to query tracks within the MOVINT Database based on a discrete area of interest and discover additional tracks with overlapping initiation and termination points, assisting the user with pattern analysis across multiple data sets and sensor modalities.

Allowing analysts to ingest data formats collected through multiple sensing modalities, the Hydra plug-in provides an opportunity for multi-sensor analytic correlation and higher fidelity target positions. Targets are tracked more consistently, more accurately, and for greater periods by combining observations from multiple sensors into a single view that illustrates the association of multiple tracks.



TASS tracks in GXP InMotion™ software. Imagery courtesy of L-3 Communications.

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