Intergraph’s GeoMedia® Motion Video Analysis Professional (GMVAP) is among the application components of Intergraph’s high-impact Geospatial Intelligence Exploitation Solution (GIES). You can use the applications independently or together, depending on your unique requirements. Underlying GMVAP is Intergraph’s widely used GeoMedia platform that enables you to integrate data from disparate sources into a single environment for viewing, analysis, and presentation.

With this application, agencies have a high-productivity environment for analysis of full motion video taken from unmanned aerial vehicles (UAV). The military, coalition forces, and agencies that operate in theater can use it to exploit and analyze the video for near real-time decision-making. The software provides initial review capability for incoming video, such as placing clipmarks and extracting single-frame images.

Our GIES Solution
Intergraph’s comprehensive GIES provides a seamless, Multi-INT exploitation environment for fusion and analysis of all types of geospatial intelligence at central command: raster maps, vector data, satellite imagery, human intelligence, and signal intelligence. Its GMVAP capabilities are well-suited for agencies that conduct advanced analysis on all sources of intelligence data by enabling analysts to fuse motion video and other forms of intelligence into a single operating picture. It provides additional capabilities to enhance, manipulate, chip/clip, and annotate both image and video data.

Features and Benefits of GMVAP
- Fully exploit video and imagery data in one seamless, geo-fused environment
- Leverage Intergraph’s advanced video enhancement and stabilization capabilities
- Discover a new geospatial context in which to review incoming video data from files or live streams
- Geographically track the movement of your aircraft, the camera angle, and other relevant geospatial information, in a single homogeneous environment
- Geo-fuse your video over vector data, raster maps, or other still imagery and watch it play across your map in context with other geospatial data
- Capture relevant snapshots of imagery and video for additional analysis
- Query your video data by attribute, annotation, or geospatial location
- Auto-enhance your motion video for superior analytical results
- Visualize and archive all geographic data relevant to your video
- Watch your video simultaneously in a video window and a map window
- Control your motion video with familiar DVR-like controls
- Mark your video for further analysis and historical query capabilities
- Extract image mosaics from your video data segments
- Annotate your item or event of interest with a searchable geospatial definition

Features and Benefits of GIES
- Enhance, manipulate, chip/clip, and annotate both image and video elements for a complete analysis product
- Employ image mensuration to aid in the identification of vehicle types to determine the dimension of objects
- Use virtual image mosaics with vector data as your automatic guide to quickly and accurately access or search vast landscapes of imagery
- Create a buffer zone around your area of interest for automatic segmentation and mosaic image generation
- Analyze LiDAR data to aid in the strategic and tactical assessment of your area of interest
• Analyze signals intelligence with hot-spot, spatial distribution, and spatial clustering analysis techniques
• Determine equipment and personnel positioning with sophisticated line-of-sight and viewshed capabilities

APPLICATION COMPONENTS
• GeoMedia Motion Video Analyst Professional
• TerraShare Client
• TerraShare Server
• TerraShare Automatic Data Ingest
• 2d3 Sensing Catalina (optional)
• Image Scout bundle or GeoMedia Professional
• GeoMedia Image Professional
• GeoMedia Grid

Geospatial vector representations are stored with each full motion video and available for query. You can use the centerline feature to specify what segments of the video to play, as shown here.

Graphic displays of full motion video and its associated tracking graphics are geo-fused with other forms of geospatial information to provide an instant view of the common operating picture.

ABOUT INTERGRAPH
Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph’s industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company’s software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities. Intergraph SG&I provides geospatially powered solutions, including ERDAS technologies, to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is a wholly owned subsidiary of Intergraph Corporation responsible for the SG&I U.S. federal business.

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