

Geospatial eXploitation Products™

Powered by the GXP Xplorer® Platform



GXP Xplorer® • GXP WebView® • GXP OpsView®  
GXP InMotion™ • GXP MOVINT solutions

**BAE SYSTEMS**



## Software solutions powered by the GXP Xplorer Platform

Providing the foundation for development of the most advanced geospatial intelligence, the GXP Xplorer Platform delivers an unrivaled capacity for discovery, exploitation, and dissemination of mission-critical geospatial data.

From key military, safety, and security operations, to a wide variety of commercial development and research initiatives, GXP® provides a comprehensive suite of solutions enabling timely and effective decision-making.



### Reduce costly data search efforts

Statistics show that analysts spend up to 50 percent of their time locating imagery and data across disparate systems, networks, and geographic locations.

GXP solutions streamline process workflows, increase productivity, and enable a more effective final product, saving both time and money for your organization!



**50%** of total project time is spent searching for data

### Extensible and adaptable

The GXP Xplorer Platform provides application developers and system integrators with a configurable solution that can be expanded upon and easily integrated into enterprise deliverables.

Meeting the needs of today's mobile, collaborative, cloud-based work force, the GXP Xplorer Platform enables development of custom solutions for customers with unique workflows and requirements.

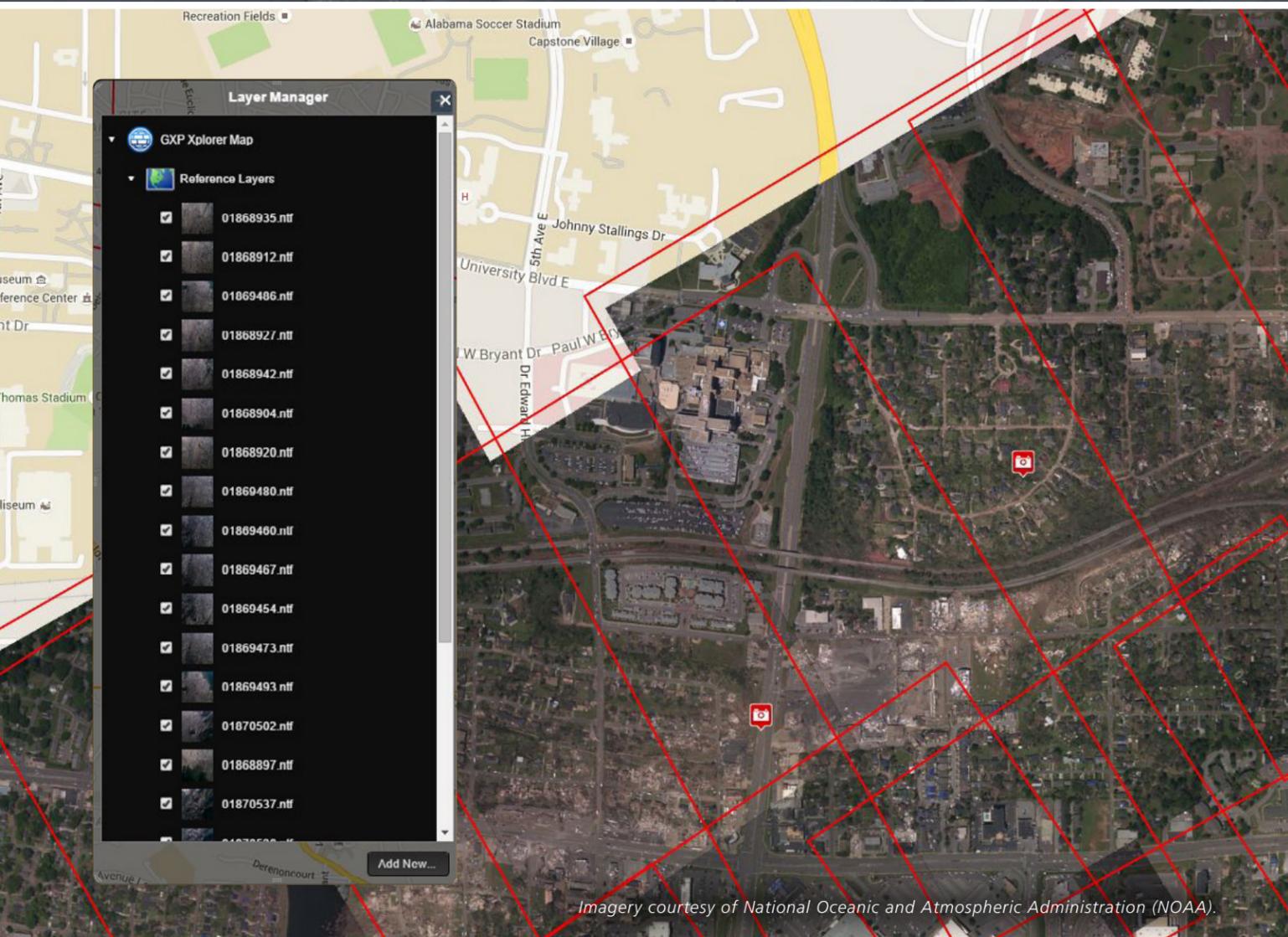
# GXP Xplorer

## Centralized data access

A revolutionary data management application that makes it easy to rapidly locate, retrieve, and share geospatial data files – paving the way for advanced geospatial exploitation.



- Catalog in place
- Federated data discovery
- Visualized search results
- Extensive customizable data model
- Browser-based interface
- Mobile applications



Imagery courtesy of National Oceanic and Atmospheric Administration (NOAA).

### Data management

Minimizing the time spent searching for critical data, GXP Xplorer provides a convenient way to manage and access all of your geospatial content including:

- » Imagery
- » Terrain and LiDAR
- » Features
- » Maps and charts
- » Raster-derived products
- » Vector-derived products
- » Shapefiles
- » Videos
- » Documents, reports, and presentations
- » Slides
- » Spreadsheets
- » Custom types
- » Microsoft® Office products and GeoPDF®

### Shared online catalog

Utilizing dynamic discovery techniques, GXP Xplorer crawls your enterprise network searching for relevant files in existing data systems, on shared network drives, and in an analyst's local shoebox. It identifies files without moving them, creates an online catalog for rapid retrieval, and even alerts users to new content.

### Centralized exploitation

Enabling rapid access to critical data, GXP Xplorer ensures that you are maximizing the value of all of your geospatial resources. Relevant data and imagery can be visualized, downloaded, processed, or opened directly into other applications for additional analysis and exploitation.

Combined with GXP WebView and GXP InMotion, GXP Xplorer provides an effective platform for not only accessing mission-critical content, but for exploiting both still imagery and video feeds, and creating intelligent analysis and reporting to ensure optimum strategy moving forward.

37° 08' 00.510" N  
90° 29' 47.952" E  
WGS 84

# GXP WebView

On-the-go data manipulation

An efficient Electronic Light Table (ELT) allowing you to view, measure, annotate, and disseminate geospatial products from imagery streamed directly into a Web browser.

35° 39' 36.112" N  
91° 07' 26.202" E  
WGS 84



- Rapid pixel streaming
- Efficient data analysis
- Photogrammetric-based rigor and accuracy
- Actionable geospatial reporting
- Seamless integration with GXP Xplorer



Imagery courtesy of NOAA.

## Search, stream, and publish

Integrated with the GXP Xplorer search capability, GXP WebView provides the functionality to analyze and exploit imagery for detailed reporting and publication of finished GEOINT products.

GXP Pixel Streaming powers the GXP WebView capability to load full resolution images from GXP Xplorer into a standard Web browser without plug-ins. Accuracy in imagery exploitation comes from server-based processing based on photogrammetric principles.

## Accurate and effective analysis

GXP WebView provides a variety of imagery and Open Geospatial Consortium (OGC®) Web Map Service (WMS) exploitation capabilities including:

- » Detailed annotation (text, points, lines, and polygons)
- » Distance, direction, and coordinates including elevation
- » Object height measurement
- » Shadow measurement to determine object heights
- » Save/restore GXP WebView workspaces
- » Geographic, Universal Transverse Mercator (UTM) and Military Grid Reference System (MGRS) coordinates including circular errors and linear errors when available
- » Manage geospatial layers including graphics, OGC Services, and images
- » Publishing to PowerPoint®, PNG, and KMZ for Google Earth™ mapping service

Built for both the all-source and image analyst, GXP WebView supports simple, accurate data visualization and analysis, enabling the development of effective and actionable geospatial reports.

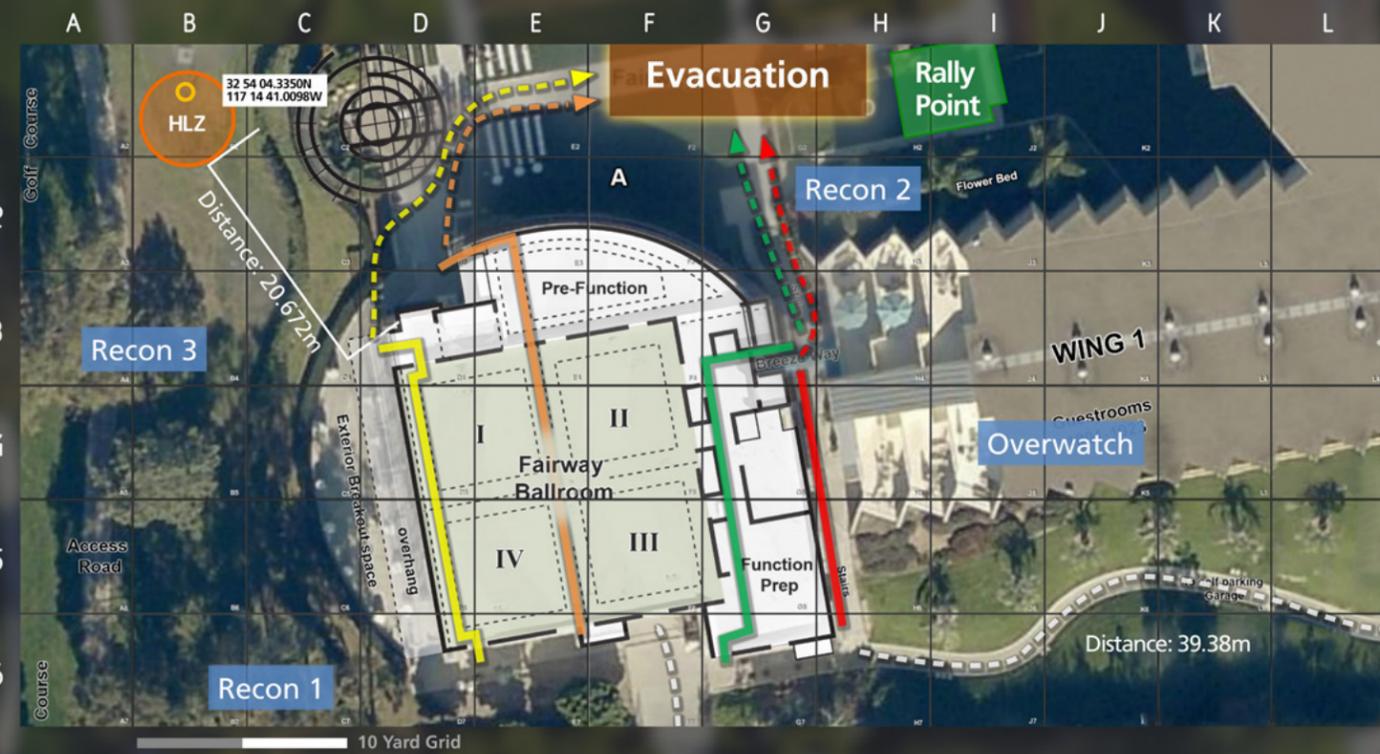
# GXP OpsView

## Common Operating Picture

Ensuring safety and security through a Common Operating Picture (COP) for operational planning and incident response.



Imagery courtesy of Esri World Imagery.



Imagery courtesy of EagleView Technologies & Pictometry Intelligent Images.

### Advanced planning and situational awareness

Whether for security operations, crisis response, or advance planning for an emergency situation, GXP OpsView provides situational awareness through strategic planning tools, simplified communications, and a COP.

Enabling mission command to effectively coordinate field operators in real-time throughout an operation, event, or crisis situation, GXP OpsView provides:

- » Visual representation of an operation or emergency action plan via Collaborative Response Graphics® (CRG®)
- » Real-time location sharing layered on top of the CRG
- » Field data uploads including photo files
- » Enhanced coordination and collaboration tools
- » Rapid tasking and deployment of field personnel

### Manage multiple operations and assets

From an efficient dashboard view enabling strategic management of multiple operations, to a focused incident view supporting asset deployment and real-time communications, GXP OpsView brings an unrivaled degree of command and control to operational planning and tactical response.

# GXP InMotion

## Geospatial video analysis

A streamlined user experience with a powerful set of tools designed for every level of the video analysts' needs – from simple viewing and screen capture to full video editing.



- Geospatially-based video processing
- Video capture and re-stream
- Segmentation and merge
- Seamless integration with GXP Xplorer



32°42'56.0"N 117°09'30.6"W  
0.0mph

32°42'52.3"N 117°09'31.1"W  
0.0mph

32°42'52.2"N 117°09'34.2"W  
33.2mph

Imagery of MX-15 videos; Courtesy of L-3 Communications, EOIR Inc.

### Live video exploitation

As one of the core applications that comprise the GXP Xplorer Platform, the GXP InMotion Video Suite lets you manage video exploitation in an enterprise environment, allowing organizations to efficiently scale based on the number of video missions and analysts required. GXP InMotion provides:

- » Live video re-streaming
- » Forensic video file streaming
- » DVR capabilities
- » Channel source setup and configuration
- » Desktop-enabled collaboration

### Rapid video delivery

With the GXP InMotion Video Server, video recorded from any airborne platform or other feed is streamed to the server with only a millisecond delay. These feeds can then be multicast to facilitate collaborative analysis, exploitation, and review among disparate mission workgroups.



Data courtesy of Leidos.

# GXP MOVINT solutions

## Advanced track analytics

Automated processing of video and motion imagery while delivering real-time intelligence on movement of people, vehicles, and other items of interest.



- Full Motion Video (FMV)
- Wide Area Motion Imagery (WAMI)
- Ground Motion Target Indicators (GMTI)
- Electronic Warfare (EW)
- Automated Identification System (AIS)

### Track, store, and discover

The Tracking Analytics Software Suite (TASS) enables interpretation of critical movement and activity data from a variety of sources. From simple maneuvers, such as turns and acceleration, to object recognition, time-stamping, and georeferencing, TASS delivers unmatched intelligence insight into targeted activities.

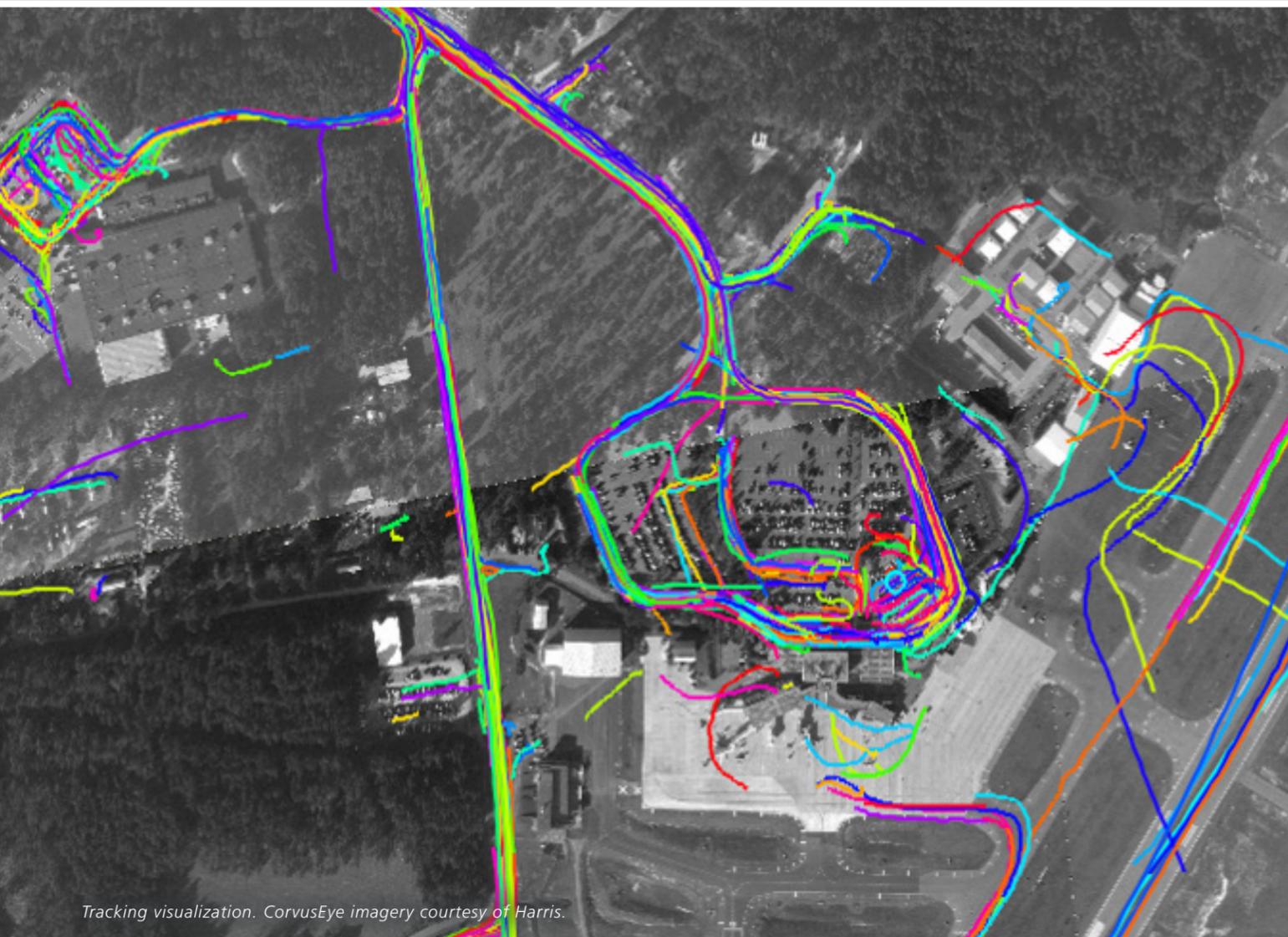
All track data inputs for discovery and exploitation within GXP Xplorer, GXP WebView MOVINT, and SOCET GXP® are stored within the MOVINT Database. All relevant metadata, including image chips when available, is stored to enhance intelligence value and analytics.

### Advanced track analytics

In addition to track generation, search, and discovery, GXP has developed a set of advanced analytics, including Spatial Network Activity Analytics for Relating Entities (SNAARE) and Hydra, to assist users with identifying correlating data between modalities and patterns in track data.

The SNAARE analytic plug-in for GXP WebView MOVINT 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.

The Hydra plug-in allows analysts to ingest data formats collected through multiple sensing modalities to be correlated; providing 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-fused track.



Tracking visualization. CorvusEye imagery courtesy of Harris.

# GXP offices and distributor locations



## About BAE Systems

BAE Systems is a global defense, aerospace, and security company with more than 85,000 employees worldwide. The Company delivers a full range of products and services for air, land, and naval forces, as well as advanced electronics, security, information technology solutions, and support services.

BAE Systems is a global provider of software for image analysis, geospatial production, mapping, 3-D visualization, video analysis, and photogrammetry. For more than 40 years, BAE Systems has been a trusted supplier of imagery, geospatial products, and services to the defense and intelligence communities, and commercial markets. BAE Systems has experience and depth in managing, implementing, and developing products with a wide variety of other industry-standard applications that support geospatial and related tradecrafts, and experience developing GIS tools. This experience requires knowledge of the scientific underpinning of the technologies, methods, and techniques in use to solve geospatial production challenges.

## Geospatial eXploitation Products™ (GXP)

GXP develops powerful software tools used to deliver highly accurate geospatial and intelligence data. Based in San Diego, CA, GXP provides direct worldwide sales and support. In some areas, this is done in conjunction with a select team of distributors to facilitate greater coverage and to provide effective customer service. GXP offers its customers top-quality technical support and training to optimize their return on investment.

## More information on BAE Systems and GXP products:

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