Geospatial eXploitation Products™

GXP WebView®

GXP®

Geospatial solutions
to ensure a safer world.

BAE SYSTEMS

GXP WebView®

Powered by the GXP Platform™

An efficient Electronic Light Table (ELT) allowing you to view, measure, annotate, and disseminate geospatial data directly from a Web browser. Integrated with the GXP Xplorer® Search capability, GXP WebView enables users to visualize imagery, exploit it, and publish the resulting finished product.

GXP® pixel streaming powers the GXP WebView capability to load full resolution images from GXP Xplorer into a standard Web browser without plug-ins. In addition, real-time alerts based on established search criteria in GXP Xplorer enable efficient collaboration as users are continually made aware of newly updated data sets. Accuracy in imagery exploitation comes from server-based processing based on photogrammetric principles.

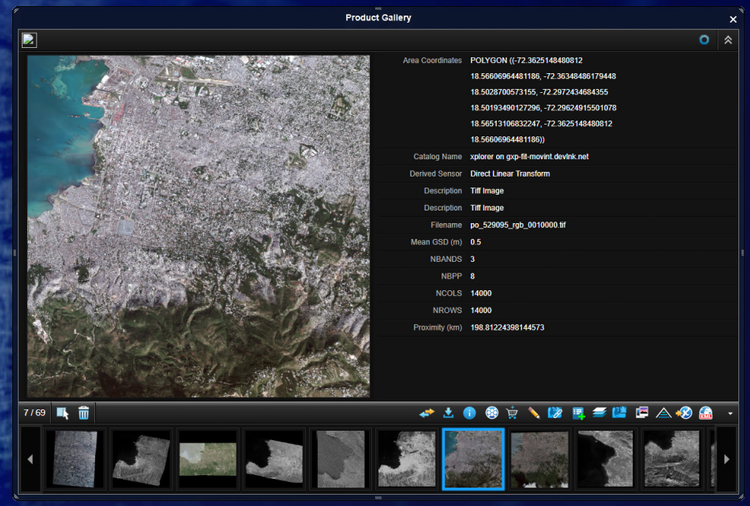
Built for both the all-source and image analyst, GXP WebView supports simple, accurate data visualization and analysis, enabling the development of effective and actionable geospatial reports.

Exploitation capabilities

- Detailed annotation (text, points, lines, and polygons)
- Distance, direction, heights and coordinates including elevation and accuracy
- 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, Open Geospatial Consortium (OGC®) Services, and images
- View single images, multiple panels, linked panels, and animated panels for time sequential viewing
- Seamless integration with GXP Xplorer
- Product development including templates and automatic text labels from available metadata
- Publishing to PowerPoint®, PNG, JPEG, and KMZ for Google Earth™ mapping service

In addition, the new GXP WebView with Targeting application streamlines the mensuration process allowing targeteers to efficiently complete their tasks with confidence in the results. Using the Common Geopositioning Services (CGS) 2.3.7.1 for the derivation of coordinates and estimates of error, GXP WebView supports the following CGS workflows:

- Single image point measurements
- Multi-Image Geopositioning (MIG) – triangulation of two to four images
- Image registration with up to three control images
- Image resection with up to three control images



Imagery courtesy of DigitalGlobe®.

GXP Xplorer

The Product Gallery within GXP Xplorer enables users to launch an image directly into GXP WebView, which opens in a separate tab in the same Web browser and immediately streams the image into the GXP WebView session.

SOCET GXP®

With GXP WebView streaming services, imagery can also be launched directly into SOCET GXP for advanced imagery analysis and exploitation. Imagery streamed into both GXP Webview and SOCET GXP clients inherit the rigor and accuracy associated industry wide with GXP software products. These advanced capabilities include:

- Automatic feature extraction
- Image orthorectification
- Multi-sensor triangulation
- Automated terrain extraction
- Terrain analysis and editing
- Annotation and feature creation including direct connections to geodatabases
- 3-D modeling
- Multispectral and hyperspectral analysis
- Synthetic Aperture Radar (SAR) processing
- LiDAR visualization and exploitation
- Precise mensuration
- Precision targeting
- Tracking analytics
- Video exploitation

Rapid visualization through world-class pixel streaming

GXP pixel streaming powers the GXP WebView capability to load full resolution images from GXP Xplorer and quickly turns any image, regardless of format or location, into a standards-based stream viewable in a Web browser without plug-ins.

Satellite images can easily approach file distribution limits and downloading from a remote location could take hours or fail completely because of network interruptions. In addition, the file formats may require special software for pixel interaction. GXP WebView, utilizing the power of the GXP Platform, streams data natively eliminating the need for full-product download or special software for pixel interaction.

- Delivers pixels from any image file format to GXP WebView on-the-fly without reformatting to a new file
- Eliminates waiting for very large images to download
- Federation is more versatile by allowing direct access to products
- SOCET GXP and other applications integrate the GXP pixel streaming functionality
- Turn reference imagery into streamed background map services
- View image as if it were locally on your system
- Automatically displays the optimal image presentation
- Dynamically adjust imagery brightness, contrast, and sharpness in the Web browser as desired
- Adjust view through tools including Pan, Zoom, and Rotate (including Rotate to North, Objects Up, and Shadows Down orientation)

Imagery courtesy of DigitalGlobe.

Mensuration and Annotation

GXP WebView's unique Draw panel offers a set of illustrative annotation and measurement tools.

The Draw panel uses rigorous sensor model measurements to make calculations in ground space, while the Layer Manager allows users to easily toggle, manage, and position additional geospatial content layers including OGC Services, Esri ArcGIS® Services, Google Maps™ mapping service, and others.

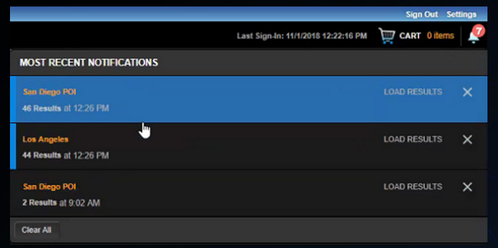
- Draw points, lines, and polygons
- Insert icons in many shapes and sizes (e.g., tanks, planes, markers)
- Enter textual annotations
- Provide textual automatic labels from metadata including imagery metadata, as well as system and user information
- Measure geographic coordinates using sensor model geometry and best available terrain (not approximations)
- Underlying terrain used if available for geospatially correct measurements
- Measure distances, direction, and point locations using rigorous sensor models
- Measure object heights based on ground to object height, or from cast shadow based on shadow tip to object top, or shadow tip to object bottom
- Change graphic attributes including color, line style, line weight, text fonts, and more
- Superimpose shapefiles discovered in GXP Xplorer and published as a Web Map Service (WMS) layer

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

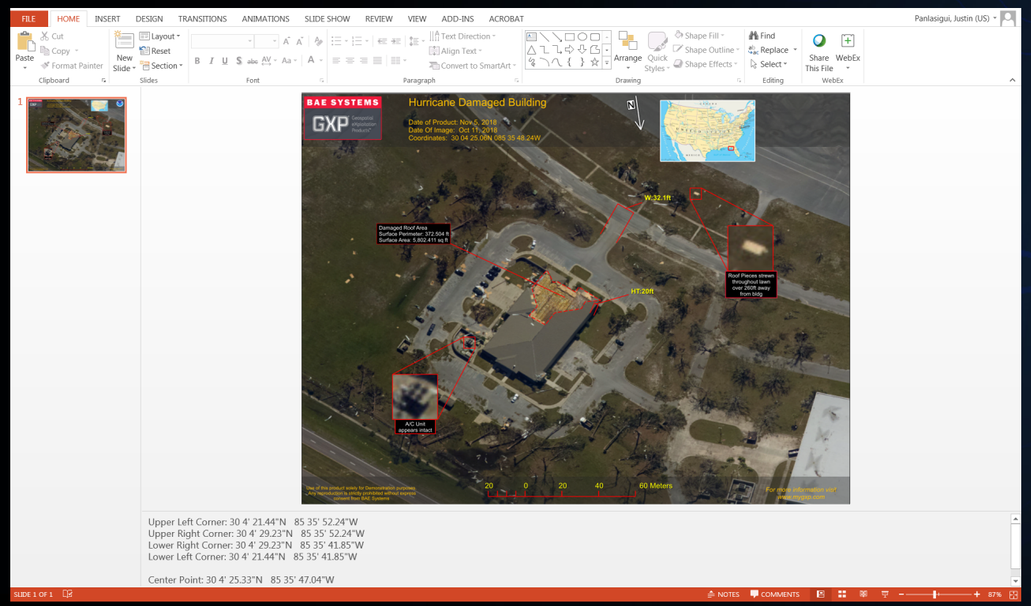
Simplified product creation, collaboration, and publishing

Once image exploitation is completed with required location and zoom, measurements and annotation, and additional content layers, GXP WebView generates a What You See Is What You Get (WYSIWYG) product to be published for further review.

- Build the final brief in the Web browser using product templates supported with automatic text labeling
- Customize aspect ratio to PowerPoint dimensions
- Collaborate by sharing published products back to GXP Xplorer, which supports direct cataloging and subsequent discovery
- Publish the annotated image product into PowerPoint, PNG, and KMZ for Google Earth mapping service
- Deliver via email and FTP
- Deliver notifications using RSS or alerts through GXP Xplorer
- Catalog the products in GXP Xplorer for subsequent use and availability
- Save GXP WebView Workspaces as private or public to provide updates at a later time, or for collaboration within a workgroup for QA or RFI and continued analysis



To enhance collaboration among workgroups, GXP Xplorer provides user notification services for published products based on customized search criteria.



Imagery courtesy of NOAA.

Worldwide support and training

GXP offers flexible training modules and support options for your organization, whether you require training for an entire project team or simply need supplemental one-on-one instruction.

Our worldwide training centers deliver complimentary customer training with curriculum tailored specifically to your learning requirements. Onsite training, which is available at the time of initial software installation to introduce you to the functionality of GXP WebView, can be supplemented at a later date with refresher courses or advanced workflows.

BAE Systems, Inc.

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Geospatial eXploitation Products (GXP)

Enabling development of the most advanced geospatial intelligence, BAE Systems' Geospatial eXploitation Products (GXP) software solutions deliver an unrivaled capacity for discovery, exploitation, and dissemination of mission-critical geospatial data. From key military, security, and incident response operations, to a variety of commercial development and research initiatives, GXP provides a comprehensive suite of solutions enabling timely and effective decision-making.

Customers include

- Defense forces
- Intelligence agencies
- Homeland security
- Universities, colleges, research organizations
- Systems integrators
- State, local, and regional governments
- Emergency management and first responders
- Private photogrammetry, mapping, surveying companies
- Transportation departments
- National and local mapping agencies
- Natural resources management consultants
- Image scientists

More information on BAE Systems and GXP products:

Americas
Toll free: 800 316 9643
gxpsales@baesystems.com

Asia
Telephone +603 2191 3000
gxpsales.asia@baesystems.com

Australia and New Zealand
Telephone +61 2 6160 4000
gxpsales.apac@baesystems.com

Europe, Middle East, and Africa
Telephone +44 1223 370 022
gxpsales.emea@baesystems.com

For additional contact information and worldwide distributors, please visit our website:

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