



# BAE SYSTEMS Geospatial eXploitation Products

## BAE SYSTEMS

BAE Systems is a global defense and aerospace company, delivering a full range of products and services for air, land, and naval forces, as well as advanced electronics, information technology solutions, and customer support services.

## BAE SYSTEMS GXP

### Creating Geospatial Intelligence™

BAE Systems' Geospatial eXploitation Products (GXP) is a global provider of commercial off-the-shelf (COTS) and government off-the-shelf (GOTS) software for image and geospatial analysis, mapping, and photogrammetry. From critical mission planning and disaster relief operations to topographic mapping, land use management, and transportation planning, GXP develops powerful software tools used to deliver highly accurate geospatial and intelligence data. GXP software improves operations and long-term planning to ensure that decision makers have the information they need when every minute counts. GXP offers its customers top quality technical support and training to optimize their return on investment.

Based in San Diego, California, with regional sales offices covering the Americas; Europe, Middle East, and Africa; and Asia, Australia, and Pacific Rim regions, 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.

## Building applications

In addition, GXP applications are suitable for use as third-party development platforms, enabling customers and systems integrators to create complex COTS/GOTS solutions for specific programs and missions.

## Software Capabilities

- Image analysis/ELT
- Change detection
- Targeting
- Application development
- Digital photogrammetric workstations
- Map production
- Population and update of GIS databases
- Processing of oblique imagery
- Mapping and intelligence from video

## Customers

- Defense forces
- Intelligence agencies
- Homeland security
- Systems integrators
- National and local mapping agencies
- Private photogrammetry, mapping, and surveying service companies
- Highway departments
- Universities, colleges, and research institutes
- Airports and airport consultants

# Geospatial eXploitation Products

## PRODUCTS

## DESCRIPTION

### **SOCET GXP®**

The future of image and geospatial analysis in one easy-to-use package

SOCET GXP, BAE Systems' innovative software, addresses the production needs of image and geospatial analysts, mapping professionals and targeteers, all in one easy-to-use package with a single user interface. The software simplifies workflows and helps users create high-quality products quickly and efficiently, enabling decision makers to evaluate and share intelligence data more effectively. Users can analyze, store, update, and share information over secure networks for accurate, timely analysis. By providing all of this functionality in one intuitive product, BAE Systems empowers organizations to consolidate resources and increase productivity.

<b>CAPABILITIES</b>	<b>Google Earth™ connection</b> Seamless integration with dynamic viewing and editing	<ul style="list-style-type: none"> <li>– Convenient, popular tool for 3D color visualization and discovery</li> <li>– Google Earth view synchronizes with SOCET GXP location and updates dynamically</li> <li>– Overlay image chip from SOCET GXP on Google Earth display</li> <li>– Export SOCET GXP graphics and image footprints to Google Earth</li> </ul>
	<b>CGS</b> Common Geopositioning Services for precision targeting	<ul style="list-style-type: none"> <li>– Use SOCET GXP as the CGS Integrated Viewer to form a complete targeting workstation</li> <li>– DoD-wide standard for precision targeting, with single- and multi-image geopositioning</li> <li>– Reliable and accurate 3D coordinates and statistically valid error estimates</li> <li>– Provides predicted accuracy at start of geopositioning process</li> </ul>
<b>MODULES</b>	<b>SEE</b> Spatially Enabled Exploitation	<ul style="list-style-type: none"> <li>– Direct connection to ESRI® geodatabase or SOCET SET® feature database</li> <li>– Extract vector data from imagery and save it for future analysis</li> <li>– Ensure graphic consistency over time and precise alignment with imagery</li> <li>– Eliminate time-consuming searches for hard copy or archived reports</li> </ul>

### **SOCET SET®**

Geospatial analysis, photogrammetry, and mapping package

SOCET SET is the established, market-leading software for geospatial analysis and photogrammetry, with powerful functionality for triangulation, DEM extraction, orthorectification, and feature collection. The software is renowned for its unequalled flexibility, depth, performance, and ability to ingest data from numerous government and commercial sources. In keeping with BAE Systems' vision that image and geospatial analysis are merging into a single market requiring a single product, SOCET SET's photogrammetric strength is being transferred to SOCET GXP and enhanced by SOCET GXP's fresh architecture and productive user interface.

<b>MODULES</b>	<b>NGATE</b> Next-Generation Automatic Terrain Extraction	<ul style="list-style-type: none"> <li>– Automated DTM generation can reduce editing time by more than 30%</li> <li>– Radical new algorithms based on a combination of area matching and edge matching</li> <li>– Building edges are preserved and water bodies are flattened</li> <li>– Streets and featureless areas are precisely modeled</li> </ul>
	<b>SOCET for ArcGIS®</b> SOCET SET stereo viewport in ArcGIS environment	<ul style="list-style-type: none"> <li>– Adds stereo digitizing to ArcGIS; 3D information is captured directly in the ESRI environment</li> <li>– Create highly accurate 3D-enabled GIS databases for viewing and editing</li> <li>– Feature collection and editing in ArcMap® using ESRI and/or SOCET SET 3D tools</li> <li>– Use stereoscopic imagery to ensure precise 3D measurement</li> </ul>
	<b>ClearFlite®</b> Vertical obstruction identification for airfields	<ul style="list-style-type: none"> <li>– Award-winning digital mapping tool with automated processes that save time and money</li> <li>– Documents features and obstructions that could cause safety problems for aircraft</li> <li>– Records vertical obstructions; provides 3D stereo views of terrain, features and obstructions</li> <li>– Identifies zones and obstruction surfaces for different governing agencies: FAA, NGA, ICAO</li> </ul>

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