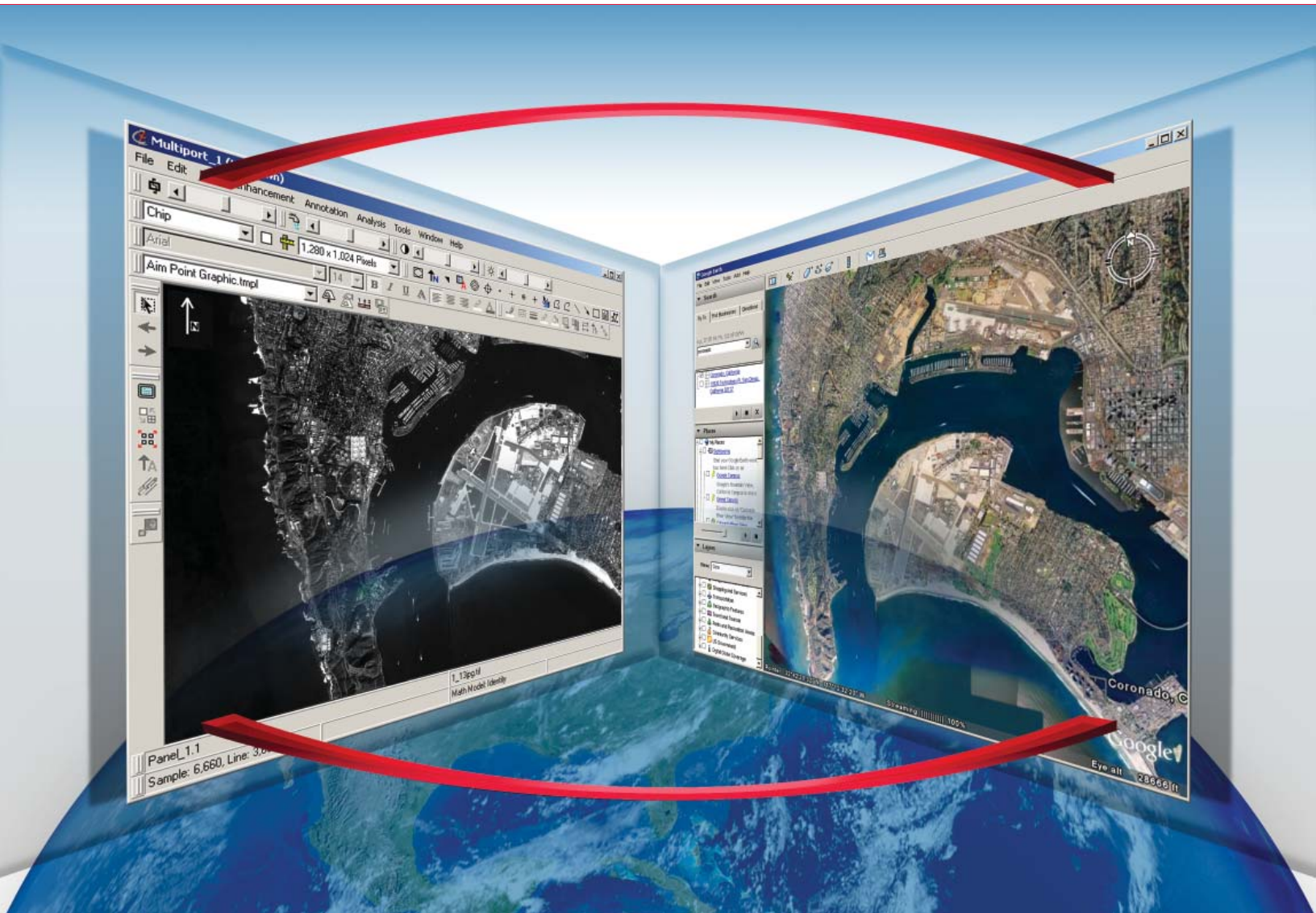
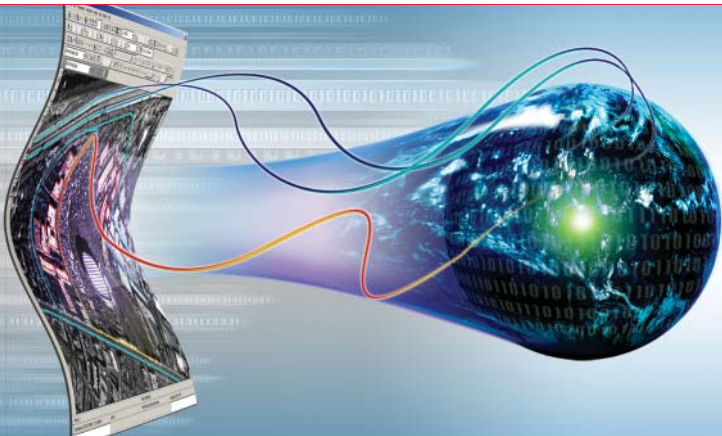


# SOCET GXP® v2.3.1

## Release enhancements



# SOCET GXP v2.3.1 features all of the functionality required to satisfy typical image analysis production workflows.



*This release adds seamless integration and synchronized viewing with Google Earth™, and introduces a direct, bidirectional link to the ESRI® geodatabase or SOCET SET® feature database for dynamic viewing and editing of feature data.*

## Google Earth interface

- Convenient, popular tool for 3D color visualization and discovery
- Google Earth view synchronizes with SOCET GXP location and updates dynamically
- Overlay image chip from SOCET GXP on Google Earth display
- Export SOCET GXP graphics and image footprints to Google Earth

## SEE: vector-supported image analysis

- Connect to a database, create features, or query existing features
- Extract information from imagery and save it for future analysis
- Rely on accurate vectors to detect changes over time
- Eliminate searches for historical textual data to determine changes
- Streamline exploitation process

## Direct connection to ESRI geodatabase or SOCET SET feature database

- Connect to ESRI personal and multi-user geodatabases or SOCET SET feature databases
- View and edit feature data dynamically

## Sensor models

- SOCET SET sensor models are compatible with SOCET GXP v2.3.1 via SOCET SET .sup files

## Database schema creation

- Create database schemas in real-time for new feature databases using the new schema editor
- Automatically read the schema from an existing database
- Import ArcGIS® and ArcCatalog® database schemas

## Attribution of multiple features

- Quickly retrieve, sort, and view data across Multiport panels
- Feature Attributes window displays rows and columns for each feature/attribute in a user-friendly table format

## Database queries

- View all databases loaded into the Workspace Manager dynamically
- Define queries for retrieving vector data from a loaded database
- Refine queries to select vector data based on attribute values
- Load query results into Workspace Manager as a display layer
- Layers labeled based on query name; store/retrieve queries

## MIL STD 2525 graphics

- Draw and annotate standard 2525 icons
- Display ingested USMTF messages graphically
- Output graphics in USMTF message format

## New interfaces to external GOTS software

- AGITK, NIDP

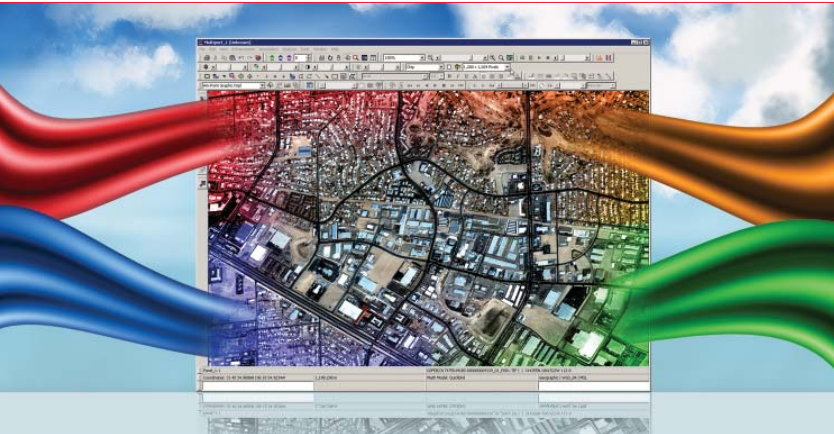
## SOCET GXP v2.3.1

New in SOCET GXP v2.3.1 is Spatially Enabled Exploitation (SEE), designed to enhance image exploitation by creating attributed ground space graphics in a connected enterprise geodatabase environment. SEE allows the analyst to answer critical questions using spatial, attribute, and temporal queries. In addition, smart vector attribution supports external ESRI multi-user/personal databases, shapefiles, and SOCET SET feature databases.

AutoSOCET adds an autonomous geospatial analysis workflow: automated triangulation, terrain data generation, orthorectification, and mosaicking.

Other notable features include:

- Graphical situational display (GSD) capabilities and import, editing, and export for Graphrep/IRR MIL STD 2525 symbols
- NITF image ingest and NITF format file save with SPIA tags; image display and ground space annotations; image products can be ingested by the NGA Image Product Library (IPL)
- Auto-populated templates, Ruler, CGS interface and stereo mensuration, and image chipping
- Multispectral imagery (MSI) container creation in combination with custom per band or per image LUT application offers additional flexibility for image analysis
- New terrain visualization tools for thorough image analysis



*SOCET GXP's fundamental photogrammetric architecture is complete, and we are well on the way to full integration, moving the remainder of SOCET SET's functionality into SOCET GXP, which has the same rigorous sensor models as SOCET SET, for highly accurate georeferencing.*

### Image band selection across multiple image sources

- Create new images by selecting bands from different image sources
- Create MSI containers through the Workspace Manager
- Load NITF MSI imagery in an MSI Container automatically
- MSI Containers are displayed in the Workspace Manager and can be dragged or saved like other image nodes

### Graphics capabilities

- Import and export shapefile features to include all feature attributes
- Support for 2-point line graphics and polylines
- New dashed line features with alternating colors; polygon unions, including insert, delete, and reshape vertex operations
- Embed shapefiles in NITF 2.1 file (DES)
- Load ESRI shapefiles from NITF 2.1 format files
- Define alphanumeric prefix and count ranges
- Auto distance renumber based on center point
- Read, display, and save any tactical graphics, meteorological, and oceanographic symbols
- Create tactical symbology icons such as color-coded graphics to depict troop type and activity
- Graphic representation for tactical icons

### Metadata Editor window

- Improve access to metadata information
- Enhance product generation workflows

### AutoSOCET

- Improved triangulation with Adaptive Tie Point Matcher (ATM)
- Preserve SOCET SET triangulation report, ATF, and GPF files
- Set default save directory auto DTED preferences globally
- Clip images using bounding box mosaic
- Controlled Image Base® (CIB) registration

### 3D flythrough tools

- Increased performance for product visualization

### Vector Product Format (VPF) import

- Display digital nautical chart (DNC)/vector map (VMAP) data
- View chart attributes and legend information

### Video Screener

- View AVI and MPEG files
- Exploit individual video frames

### Improved cursor behaviors

- Zoom in and out using mouse wheel
- Adjust elevation by holding SHIFT and rotating mouse wheel

### System requirements

- Microsoft® Windows® 2000, XP
- Sun Microsystems® Solaris™ 8, 9, 10

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