

# Activity Reporting Tool (ART)

Track, record, and report distinct objects and activities of interest identified in mission imagery

Imagery courtesy of DigitalGlobe®

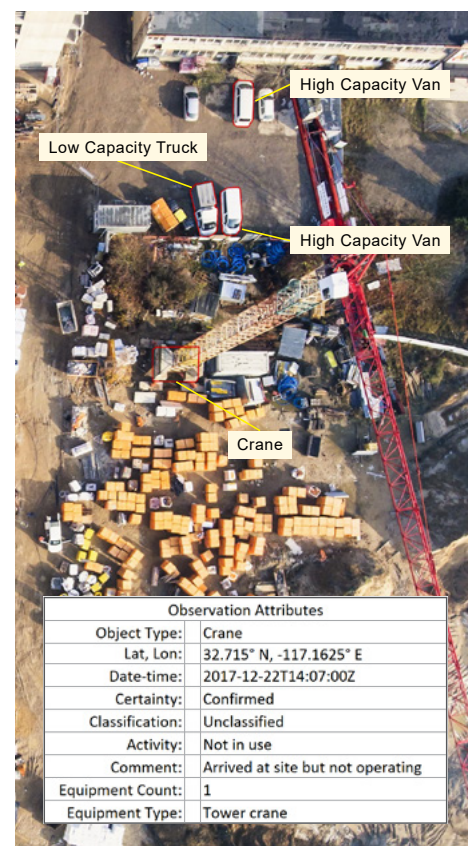
Effective object and activity analysis can inform a wide variety of mission objectives, from pre-emptive threat protection to post-event forensic analysis. Enhancing intelligence collected from geospatial imagery, the Activity Reporting Tool (ART) from BAE Systems' Geospatial eXploitation Products™ (GXP®) group delivers detailed activity-based information, registered over a period of time, into the hands of key decision makers in criminal investigations, facility and event security operations, and national defense.

Available in both SOCET GXP® and GXP WebView®, ART enables users to:

- » Create, view, and analyze observations about physical objects (including facilities, equipment, and people)
- » Overlay object locations graphically on images and browse recorded observations
- » Understand changes in object activity and object relationships over space and time

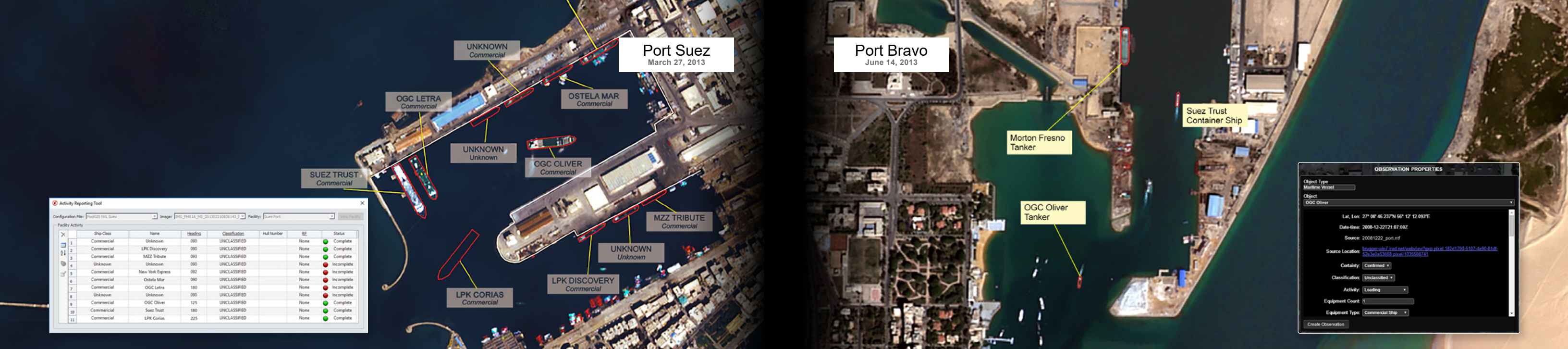
Critical information collected and reviewed through ART can then be further processed by machine analytics to facilitate object change detection, identification of patterns in activity, and enhanced situational awareness.

ART enables clear identification and analysis of objects and activities including facilities, equipment, and people.



**GXP** Geospatial solutions to ensure **a safer world.**





Images courtesy of ©Airbus DS 2013.

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## ART in SOCET GXP

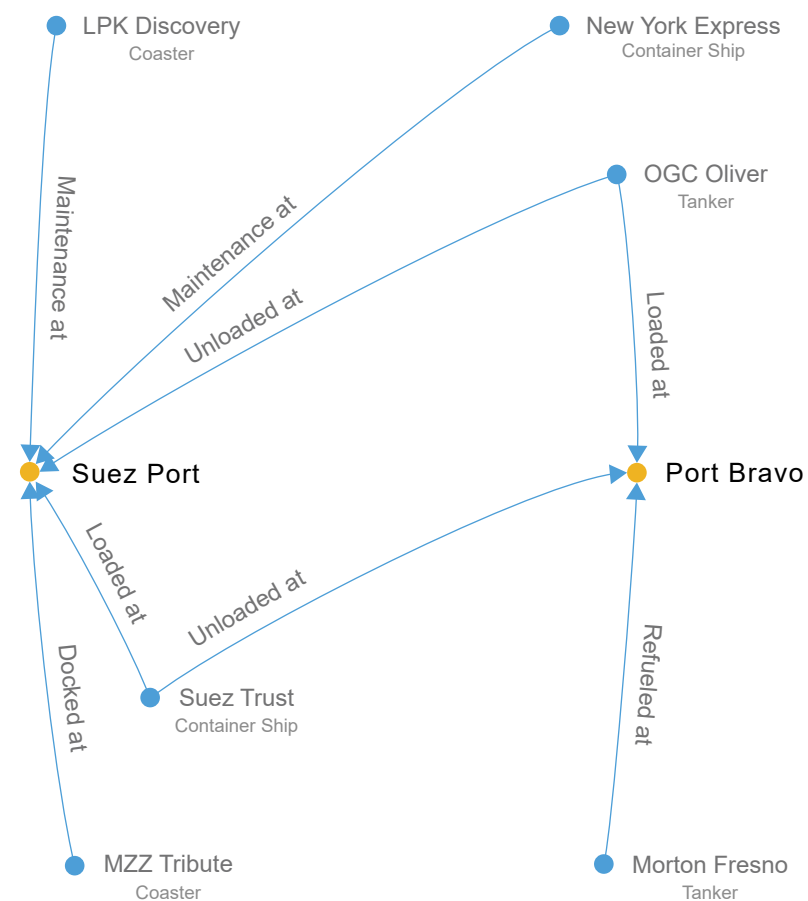
Expanding upon traditional geospatial exploitation, ART in SOCET GXP integrates structured observation management with the advanced capabilities of GXP's leading geospatial analysis desktop solution.

Through an intuitive workflow, activities and changes in an area of interest can be recorded and monitored over time as imagery of the area is periodically refreshed. This process is configurable for a customized user experience by leveraging the workflows and nomenclature most familiar to an organization.

ART in SOCET GXP enables consistent workflows and reliable recording of observations in an area or facility of interest including:

- » General description of scene
- » Weather conditions
- » Obscured areas
- » Activities of the objects
- » Objects added and/or removed since previous image

The information is stored in a shared ART database for product generation and additional processing by machine analytics.



## ART in GXP WebView

ART in GXP WebView delivers browser-based viewing and analysis of objects and activities recorded over time (either in GXP WebView, SOCET GXP, or other activity reporting applications) by multiple analysts. Leveraging a shared ART database either on-premise or in the cloud, users collaborate to view object locations and activity records while filtering by object type, time, and location.

Using analytical visualizations such as time animation and network graphs, users can study patterns and relationships of objects for deeper analysis. Such analysis can drive the collection of more targeted and relevant observations.

Additional observations can be created in real time by analysts collaborating together from disparate locations around the world, supporting continuous enrichment of knowledge pertaining to activities of interest.

Activities identified in both ART in SOCET GXP (top left image) and ART in GXP WebView (top right image) can be combined in a network graph within GXP WebView to illustrate relationships between objects requiring deeper analysis.

## About BAE Systems

BAE Systems is a global defense, aerospace, and security company with over 83,000 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.

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