

Activity Reporting Tool (ART)

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

Imagery © 2022 Maxar Technologies.



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.

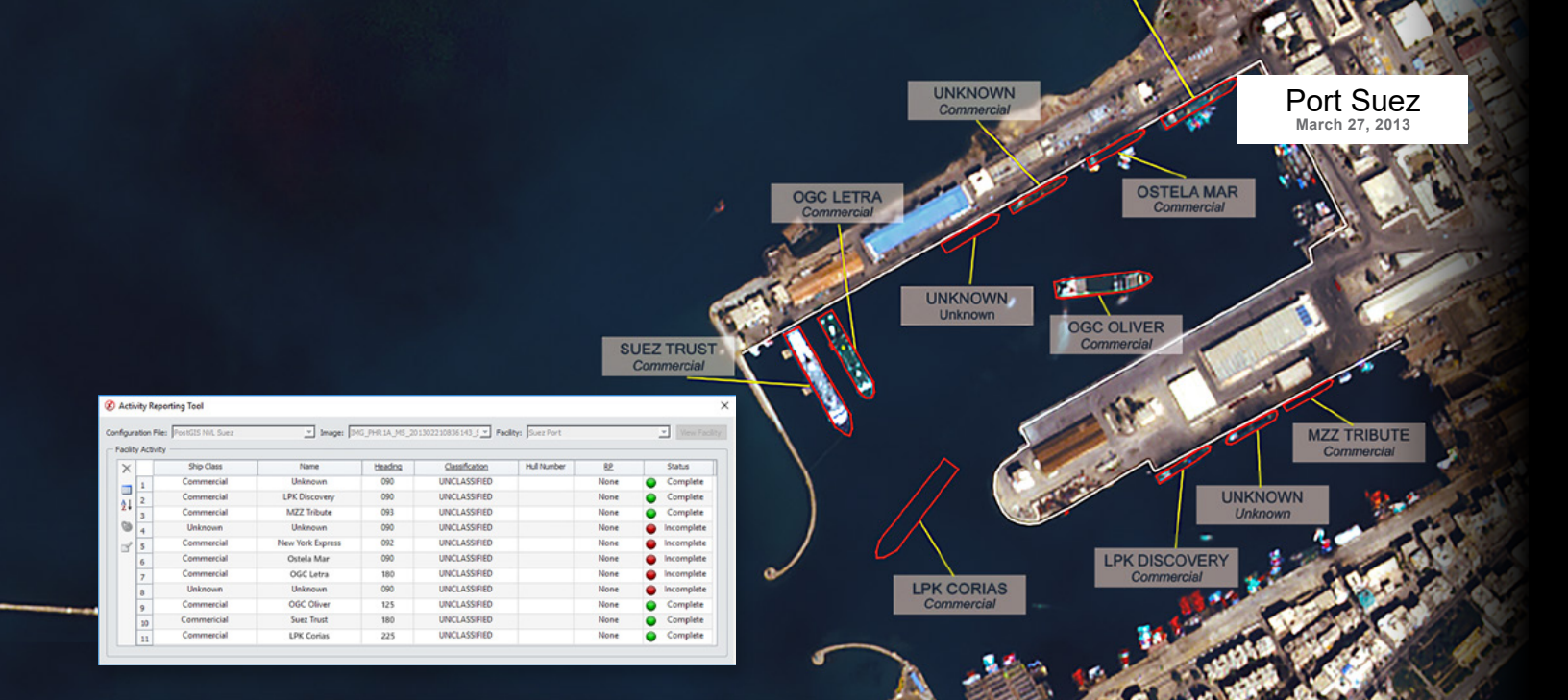
Available in both SOCET GXP® and GXP WebView®, ART enables users to:

- » 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.





ART in SOCET GXP

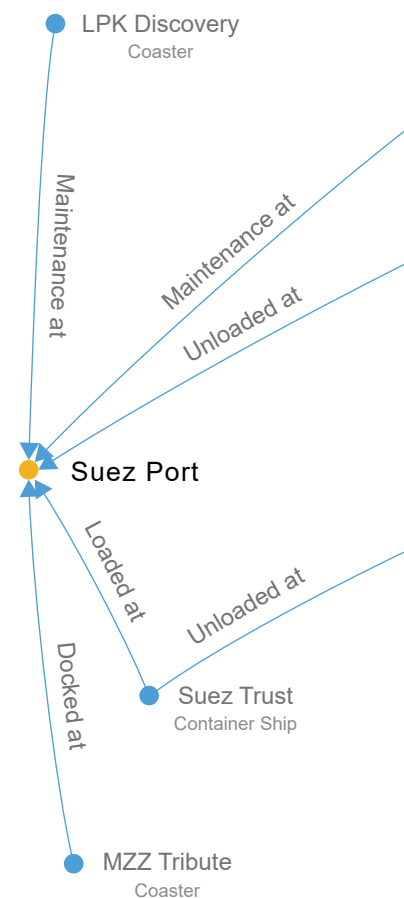
Expanding upon traditional geospatial exploitation, ART in SOCET GXP integrates Structured Observation Management (SOM) with the advanced capabilities of GXP software's leading geospatial analysis desktop solution.

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.





Imagery courtesy of ©Airbus DS 2013.

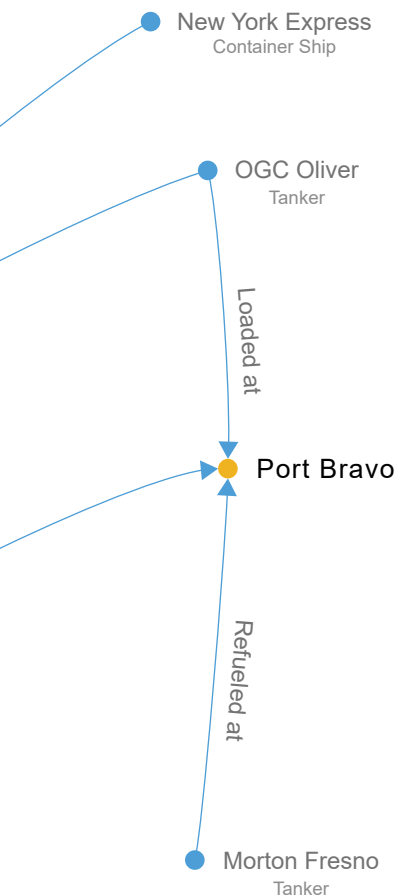


ART in GXP WebView

ART in GXP WebView delivers browser-based viewing and analysis of objects and activities recorded over time (either in GXP WebView, SO CET 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 SO CET 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.

BAE Systems, Inc.

BAE Systems, Inc. is the U.S. subsidiary of BAE Systems plc, an international defense, aerospace and security company which delivers a full range of products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions and customer support services.

BAE Systems, Inc. provides support and service solutions for current and future defense, intelligence, and civilian systems; designs, develops and manufactures a wide range of electronic systems and subsystems for both military and commercial applications; produces specialized security and protection products; and designs, develops, produces, and provides service support of armored combat vehicles, artillery systems, and munitions.

GXP software solutions

Supporting development of the most advanced geospatial intelligence, BAE Systems GXP software enables rapid 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 to inform effective decision making and ensure a safer world.

GXP software solutions support image, video, and all-source analysts at defense and intelligence agencies, as well as commercial organizations, around the world including:

- » Defense forces, intelligence agencies, and homeland security (including all major branches of the military)
- » Private security and first responder personnel
- » Photogrammetry, mapping, and surveying agencies
- » Systems integrators
- » State, local, and regional governments
- » Transportation departments
- » Natural resource management consultants
- » Universities and research organizations

More information on BAE Systems and GXP products:

Americas

Toll free: 800 316 9643
gxpsales@baesystems.com

Asia

Telephone +603 2730 9475
gxpsales.asia@baesystems.com

Australia and New Zealand

Telephone +61 2 6160 4000
gxpsales.apac@baesystems.com

Europe, Middle East, and Africa

gxpsales.emea@baesystems.com

For more information, visit www.baesystems.com/gxp

www.baesystems.com/gxp

© 2022 BAE Systems. All Rights Reserved. Geospatial eXploitation Products, GXP, GXP WebView, and SOCET GXP are registered trademarks of BAE Systems. This document gives only a general description of the product(s) or service(s) offered by BAE Systems. From time to time, changes may be made in the products or conditions of supply. Approved for public release as of 02/05/2018; revised 09/26/2022. This document consists of general information that is not defined as controlled technical data under ITAR Part 120.10 or EAR Part 772. 20180116-02.