GXP Xplorer® Platform v2.4.7 Release Details

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GXP®
Geospatial eXploitation Products™

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Infrastructure

- Upgrades are supported from GXP Xplorer® v2.3.6.2+.
- Federation is supported from GXP Xplorer v2.3.6.2+.
- MSP has been upgraded to v1.6.4.
- DRS version is 5.6.04.R3.
- GXP Xplorer now has the ability to catalog Amazon Glacier® storage.

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GXP Xplorer v2.4.7 updates

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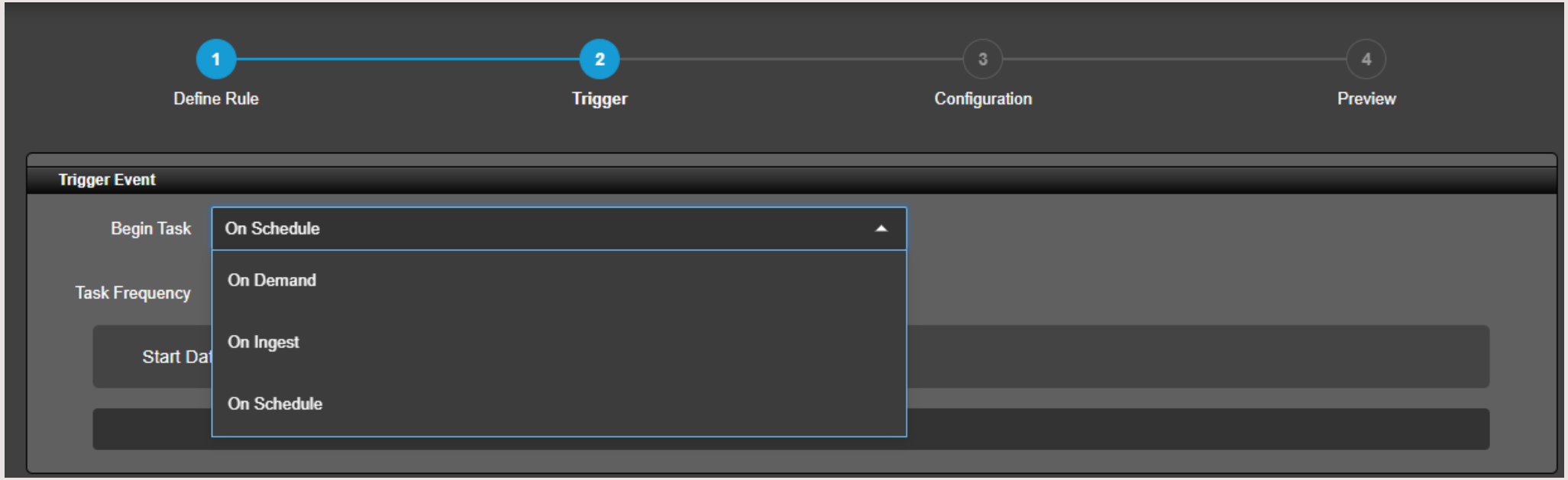
Data Model updates

- Data Models has been broken out into a separate page under Administration Settings.
- Users can now directly edit the default Data Model without being forced to create a clone.
- A Revert option has been added to reset the Data Model to default values.
- A Data Model Admin Role has been added that will allow editing of Data Models so users don’t need full Admin roles just to modify the Data Model.

Workflow updates

- When setting up a Workflow rule, options have been added for On Demand and On Schedule (One Time Only).
  - This allows for Workflows to work against data that has already been cataloged as opposed to only On Ingest.



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Cataloging of STANAG 4676 updates

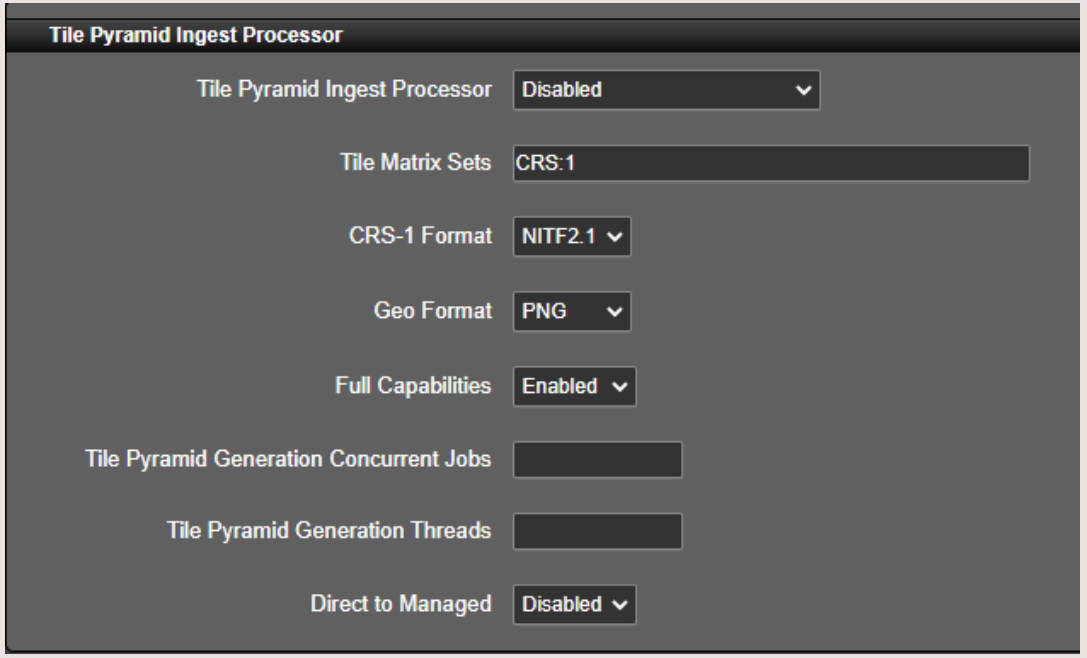
- Cataloging of STANAG 4676 (track) data is disabled by default as this can be a very time-consuming process.
  - To re-enable, the user must modify the following files in the <data dir>\config\karaf\etc\ directory
    - com.baesystems.gxp.services.ingest.cfg
  - Change **ingest.typedeterminator.stanag4676 = false** to **ingest.typedeterminator.stanag4676 = true**
    - com.baesystems.gxp.services.ingest.common.cfg
  - Change **ingest.common.association.stanag4676.enabled = false** to **ingest.common.association.stanag4676.enabled = true**
    - This is documented in the release notes.

New Pixel Streaming option

- GXP Xplorer can now stream pixels to SOCET GXP® using an OGC® Web Map Tile Services (WMTS) protocol with detailed metadata as opposed to the GXP™ Tile Streamer.
  - Benefits include:
    - SOCET GXP can continue to exploit scenes where communication is interrupted or restarted on the backend.
    - Allows for site caching of imagery tiles for multiple users.
    - Allows for pre-generated tile content with tile pyramid functionality.
      - Allows for streaming to be performed without a running pixel service as tiles are created at ingest as opposed to on user demand.
    - Decreased bandwidth requirements with JPEG 2000 Numerically Lossless compression for WMTS.
  - This can be set in Administration Settings … GXP Xplorer Application Settings … Discovery Agent … Detailed Metadata Processor.
    - This setting only applies to SOCET GXP v4.5.0.1 or later.
    - GXP WebView® will still exclusively use the GXP Tile Streamer.

New Pixel Streaming option …2

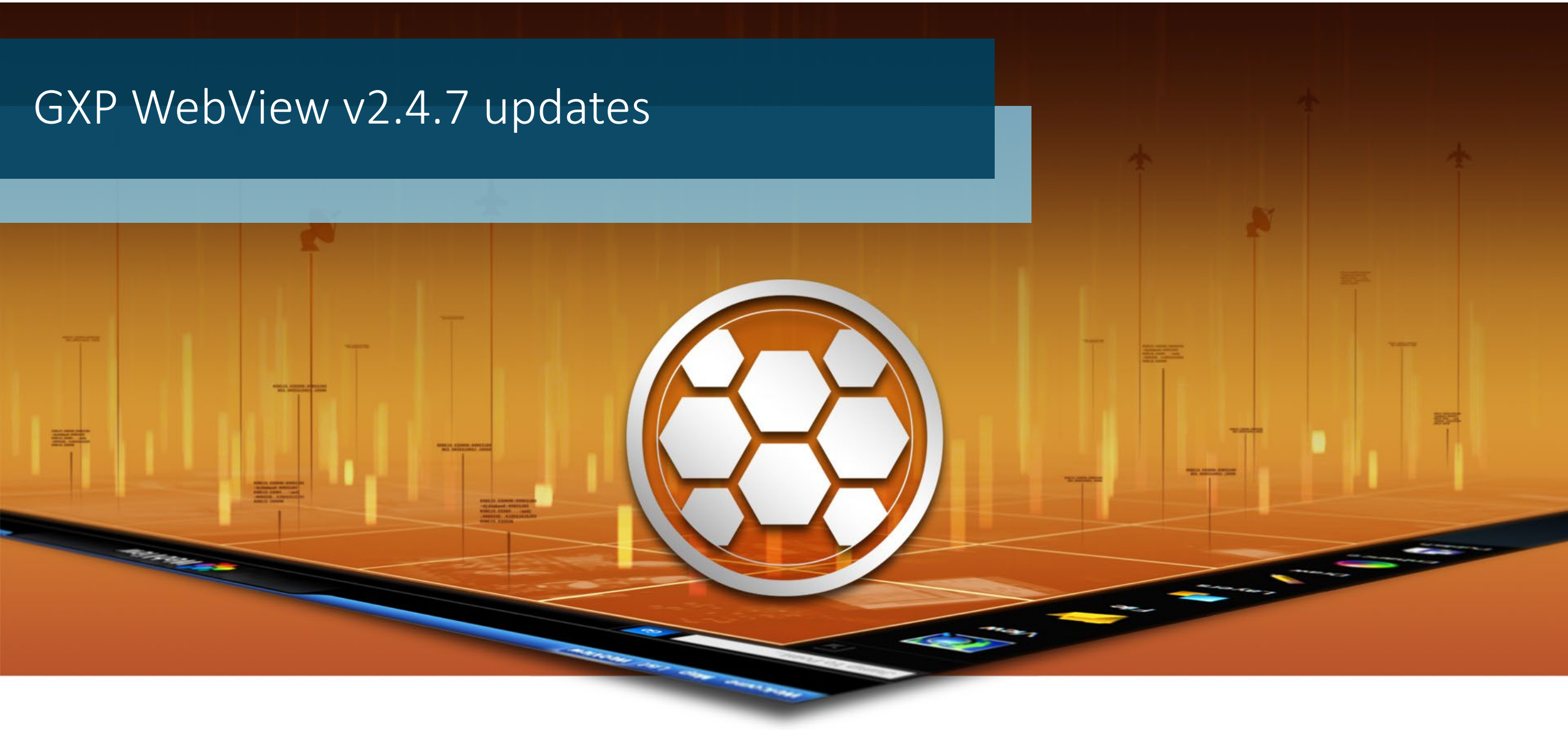
- A new set of options has been added to the Administration Settings to allow for pre-generating tiles to be used for the new WMTS protocol.
  - If this data is generated, no active pixel streaming needs to occur at demand time.
  - Administration Settings … GXP Xplorer Application Settings … Discovery Agent … Tile Pyramid Ingest Processor
  - Requires On File Discovery RSet mode.
  - Open in SOCET GXP requires CRS-1 (image space) coordinate system.



Other significant enhancements

- Support has been added for a Boolean data type for attributes in the Data Model.
  - These can be used to search through GXP Xplorer.
- Orthomosaic generation will now succeed with a very large number of input images.
- Better thumbnail creation for some complex Synthetic Aperture Radar (SAR) data types.
- WebGL browser support is now a hard requirement for running GXP WebView.
- The My Workflows and My Tasks page have been renamed to Workflows and Tasks respectively.
- A new option was added to Administration Settings … GXP Xplorer Application Settings … Discovery Agent … RSet, Overview, and Thumbnail … Task Schedule
  - Directly on File Discovery is meant to ensure that the same ingest node that discovers a file is also responsible for generating browse.
    - This is only relevant in the distributed ingest case and is most useful in enterprise deployments so data doesn't have to get staged multiple times.

GXP WebView v2.4.7 updates



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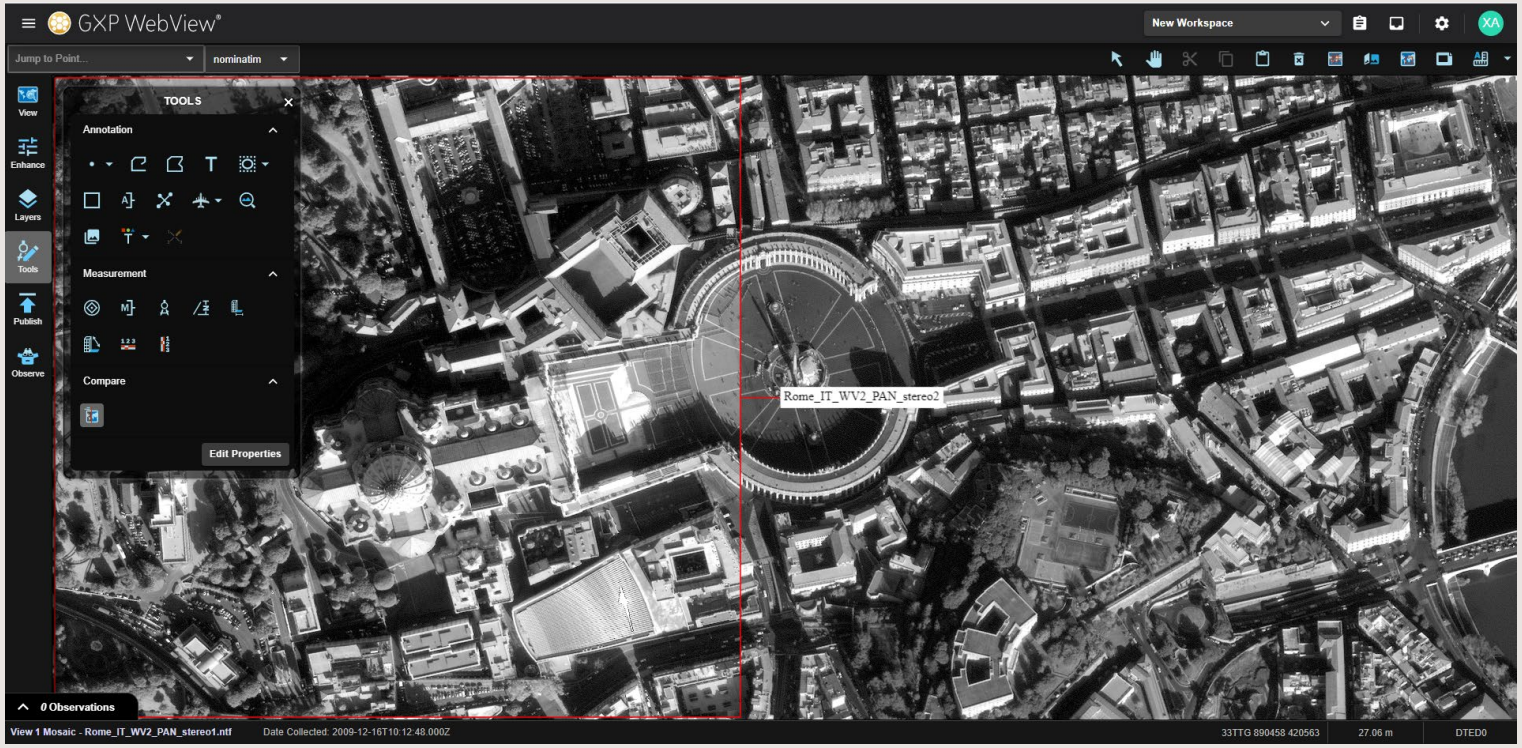
Swiper Tool

- A Swiper tool has been added to GXP WebView to allow for comparison between two or more images.
  - Only available in mosaic mode with two or more overlapping images.
  - The divider line can be customized and autolabels can be added to the Swiper tool.
  - Scrolling the middle mouse wheel will cycle through the images.



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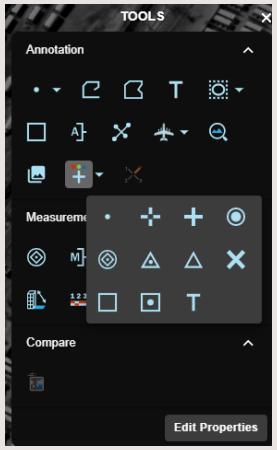
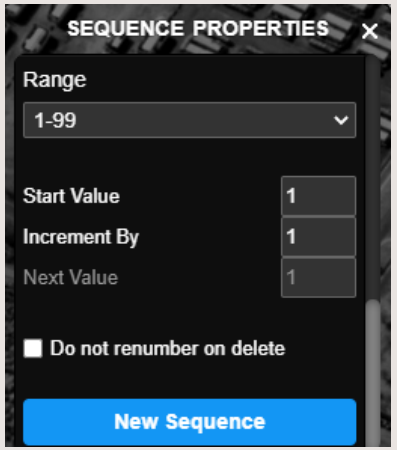
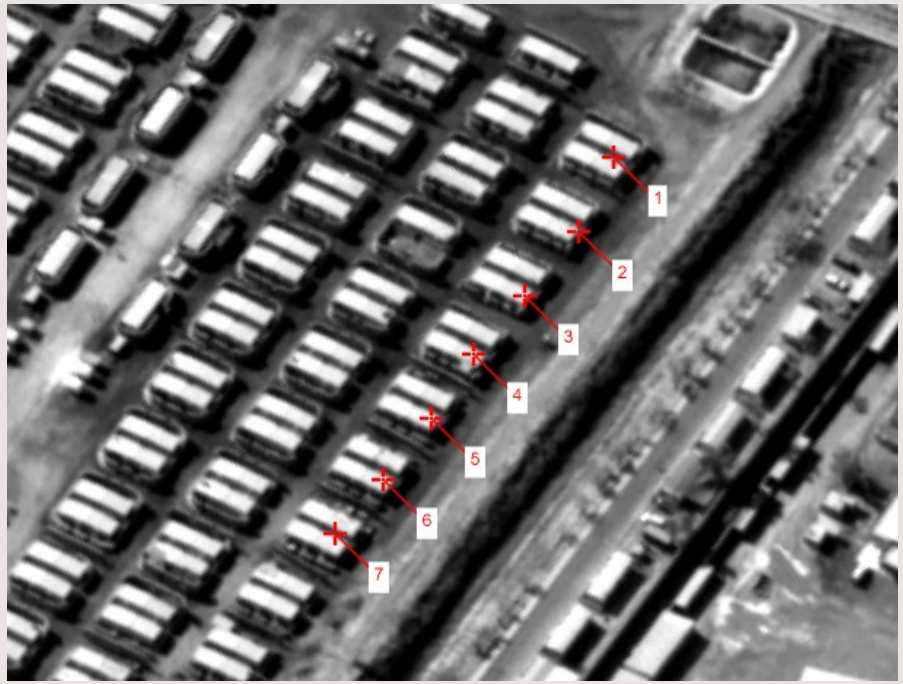
Sequence Graphics

- Sequence graphics can now be created in GXP WebView.
  - Allows for easy incremental counting of objects on an image.
  - Point style, size, and color can be customized.
  - Connecting line color, size, and style can be customized.
  - The associated text box can also be fully customized.
  - Several alpha-numeric ranges are available that can be incremented by custom steps.
  - A Distance Renumber tool is available to reorder a sequence based on proximity to a user defined point.







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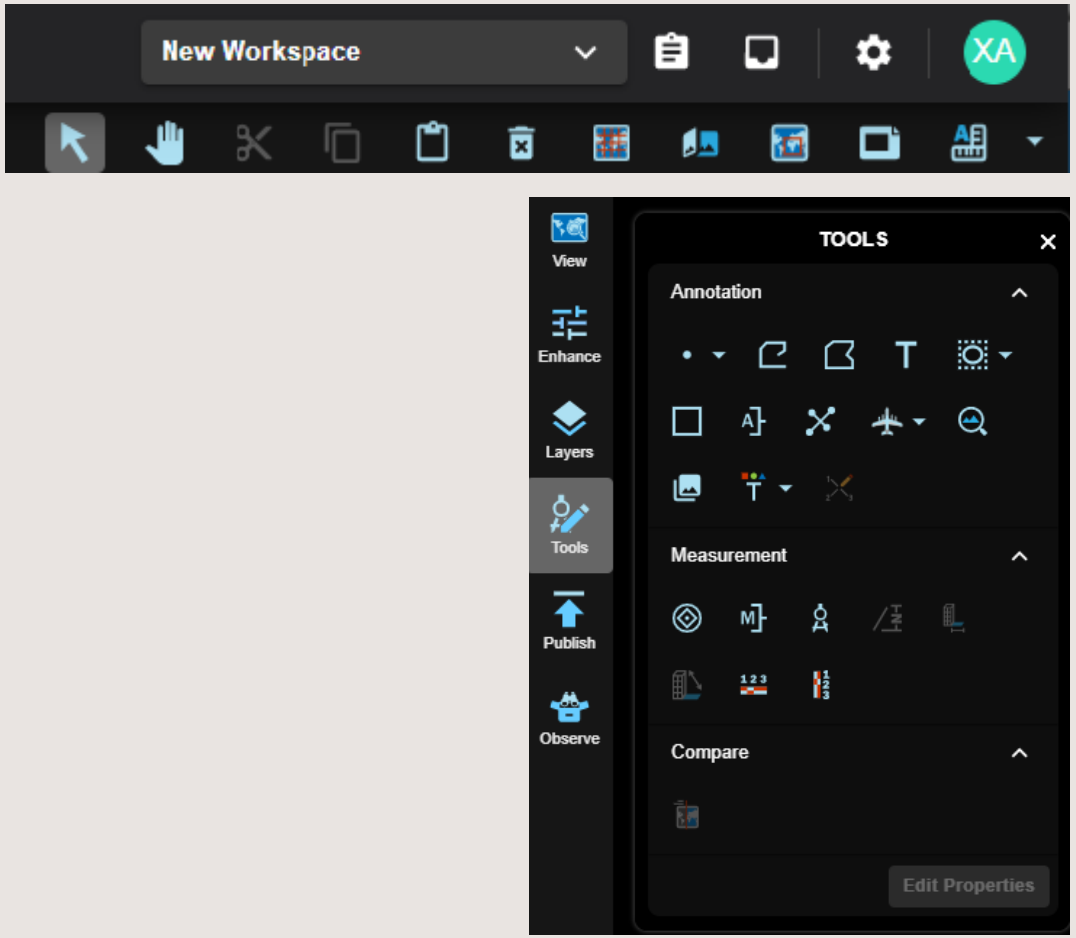
Other significant enhancements

- The icons in GXP WebView have been updated to a more modern look and feel
- The Draw menu drawer has been renamed to Tools



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GXP Fusion v2.4.7 updates

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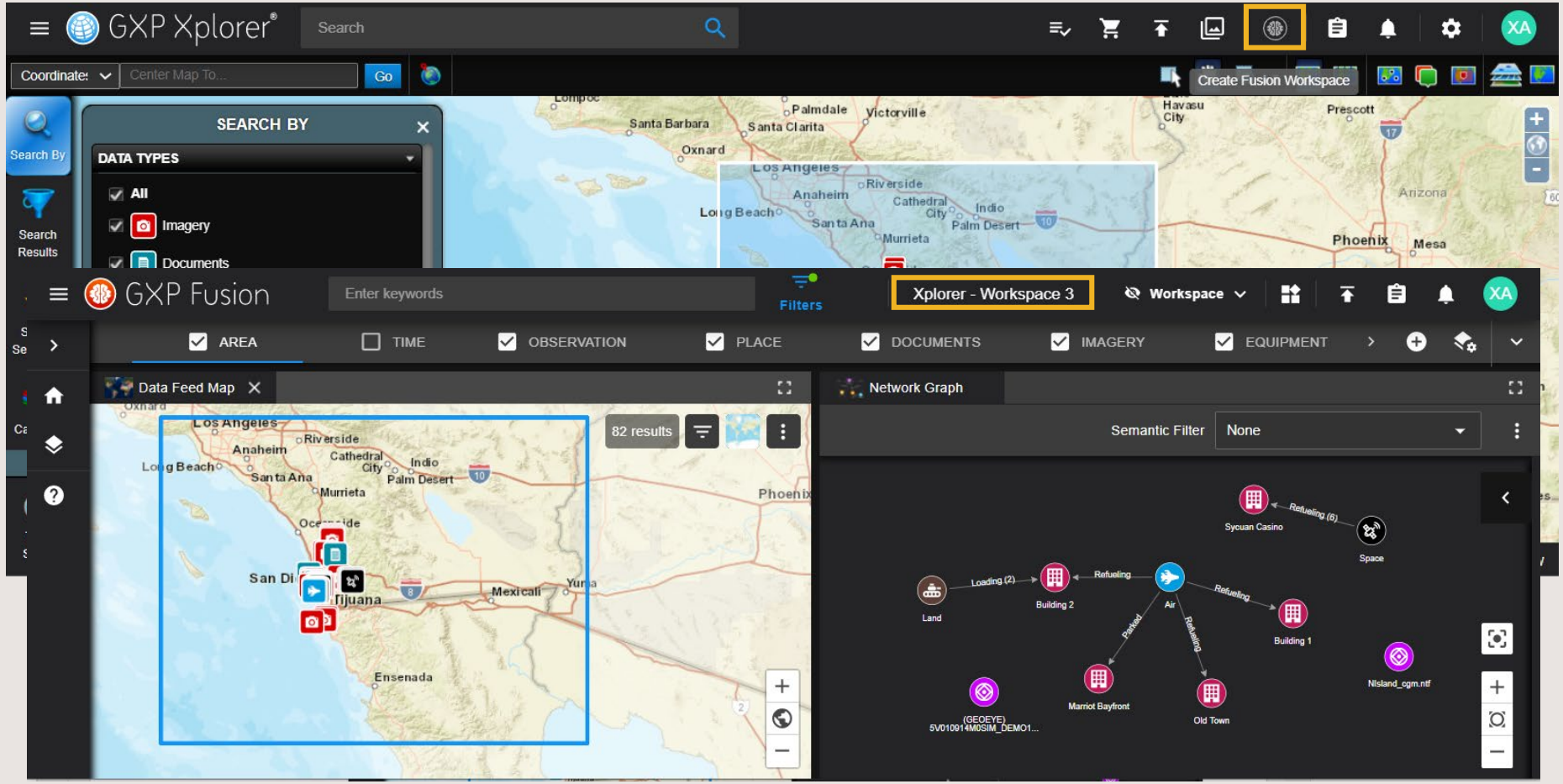
Create Workspace from GXP Xplorer Map or List Page

- Transfers GXP Xplorer search settings to GXP Fusion.
- Opens a Default Workspace in GXP Fusion with layers and filters that correspond the GXP Xplorer setting.



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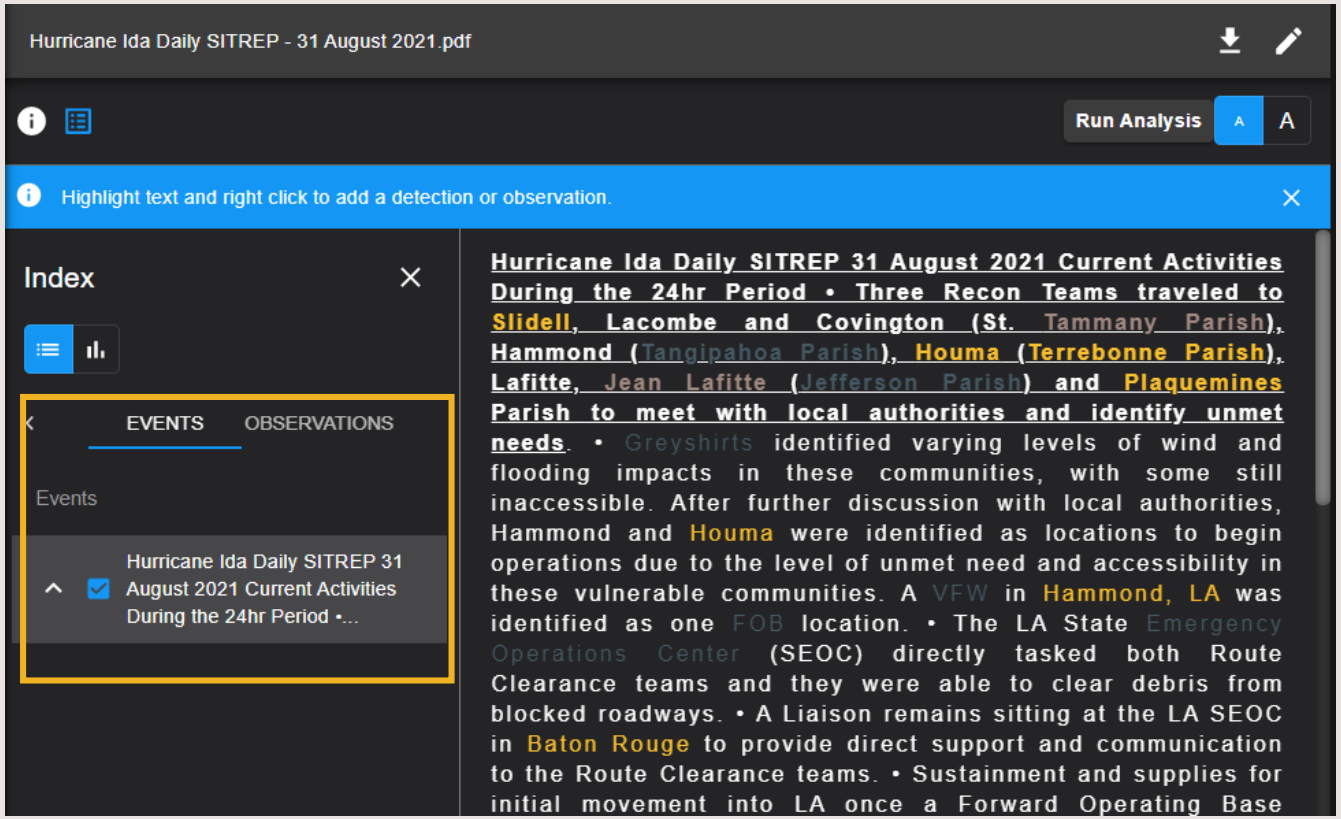
Event Extraction from Text

- Events is a new type of data added to the GXP Xplorer Platform.
- Events represent an action that occurred in space and time involving one or more entities (people/places/things).
- The Text Analysis widget supports both manual and automatic event detection (automatic requires Rosette Natural Language Processing).



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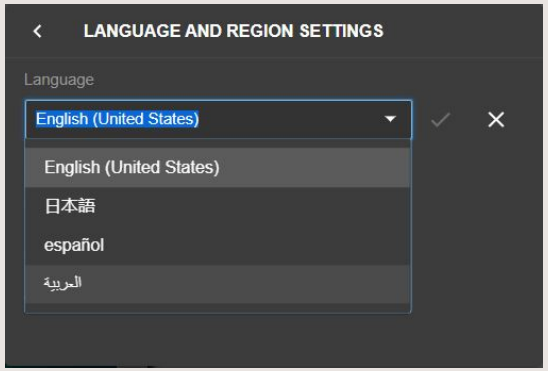
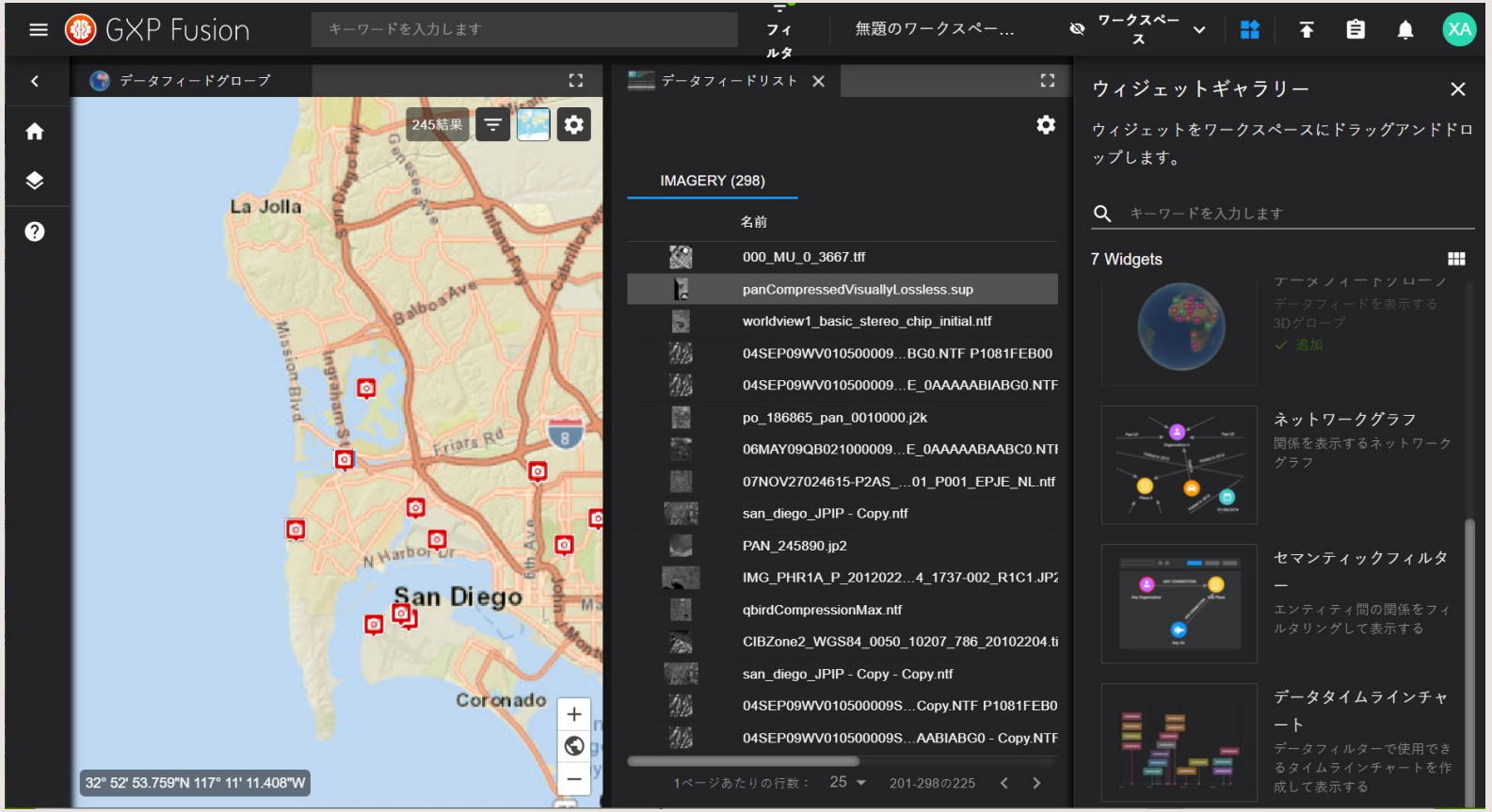
User Interface Internationalization

- Provides a set of editable locale files for easy translations to any language.
- Support right-to-left and left-to-right writing systems.
- Supports Language and Region Settings.





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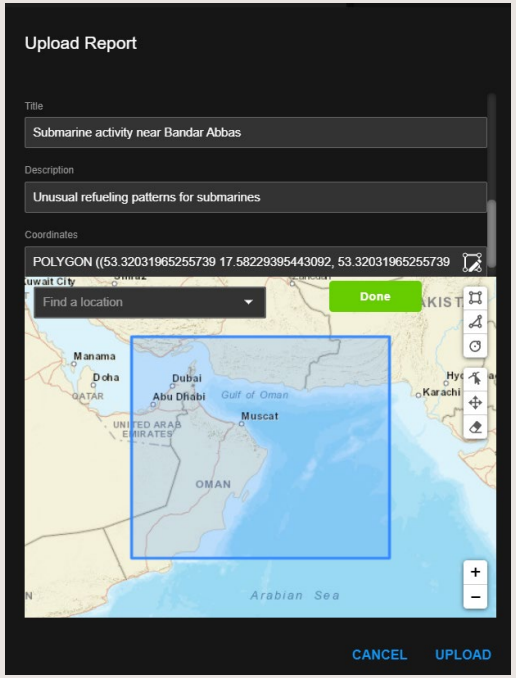
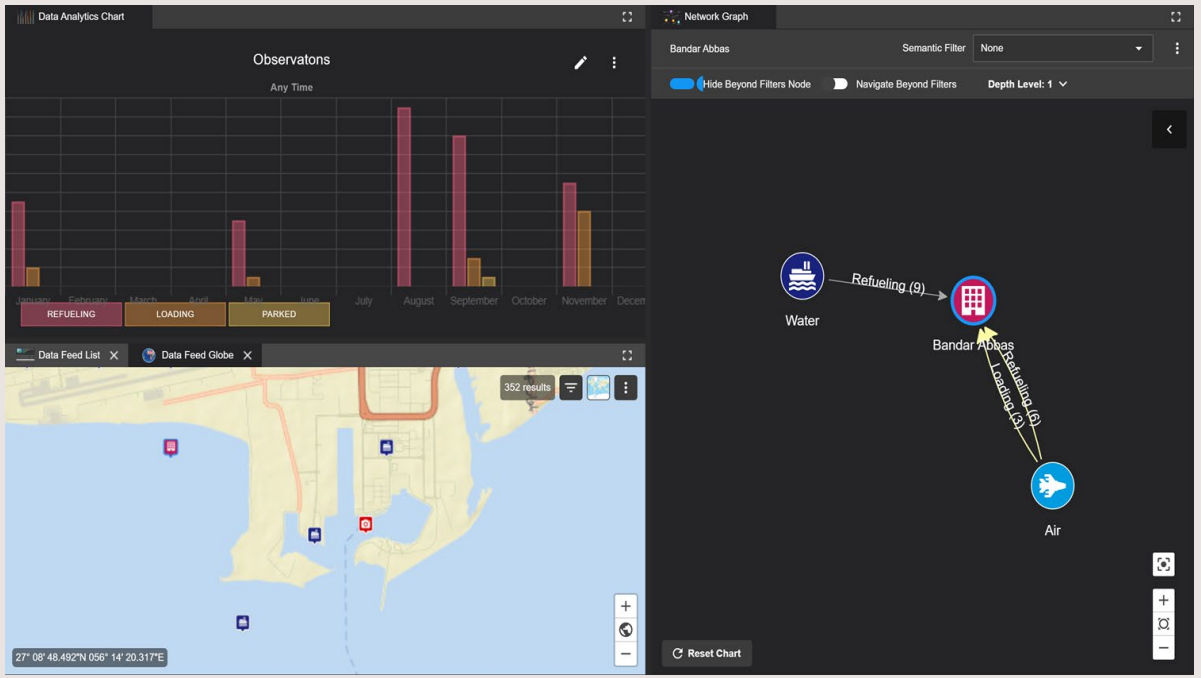
Upload Report to GXP Xplorer Catalog

- Creates PowerPoint®, JPG, or PNG snapshots of GXP Fusion workspace.
- Provides analysis reporting form and ability to geotag.
- Uploads to GXP Xplorer catalog for sharing and collaboration.





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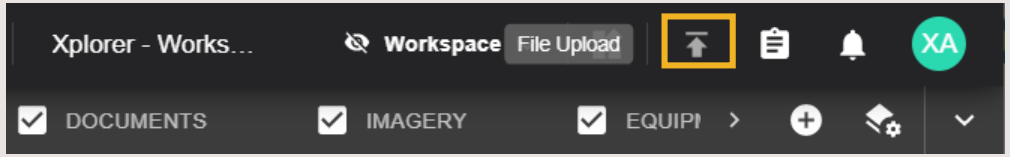
Other significant enhancements

- An Upload button has been added to GXP Fusion.
  - Upload files to the GXP Xplorer catalog from GXP Fusion.
- Observations made against federated imagery can now be viewed in the Network Graph in GXP Fusion.



GXP InMotion™ v2.4.7 updates

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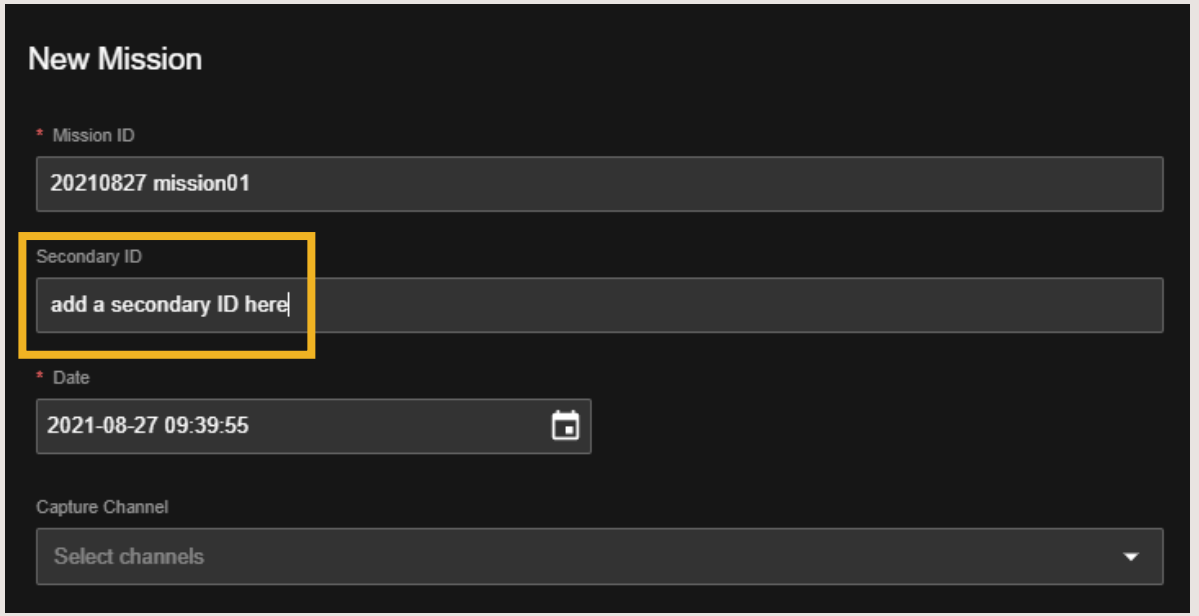
Secondary ID Field

- A Secondary ID field was added to the New Mission User Interface.
- The addition of the Secondary ID allows for customers that add additional information during a Live Mission, not to interrupt the recording of the associated Capture.



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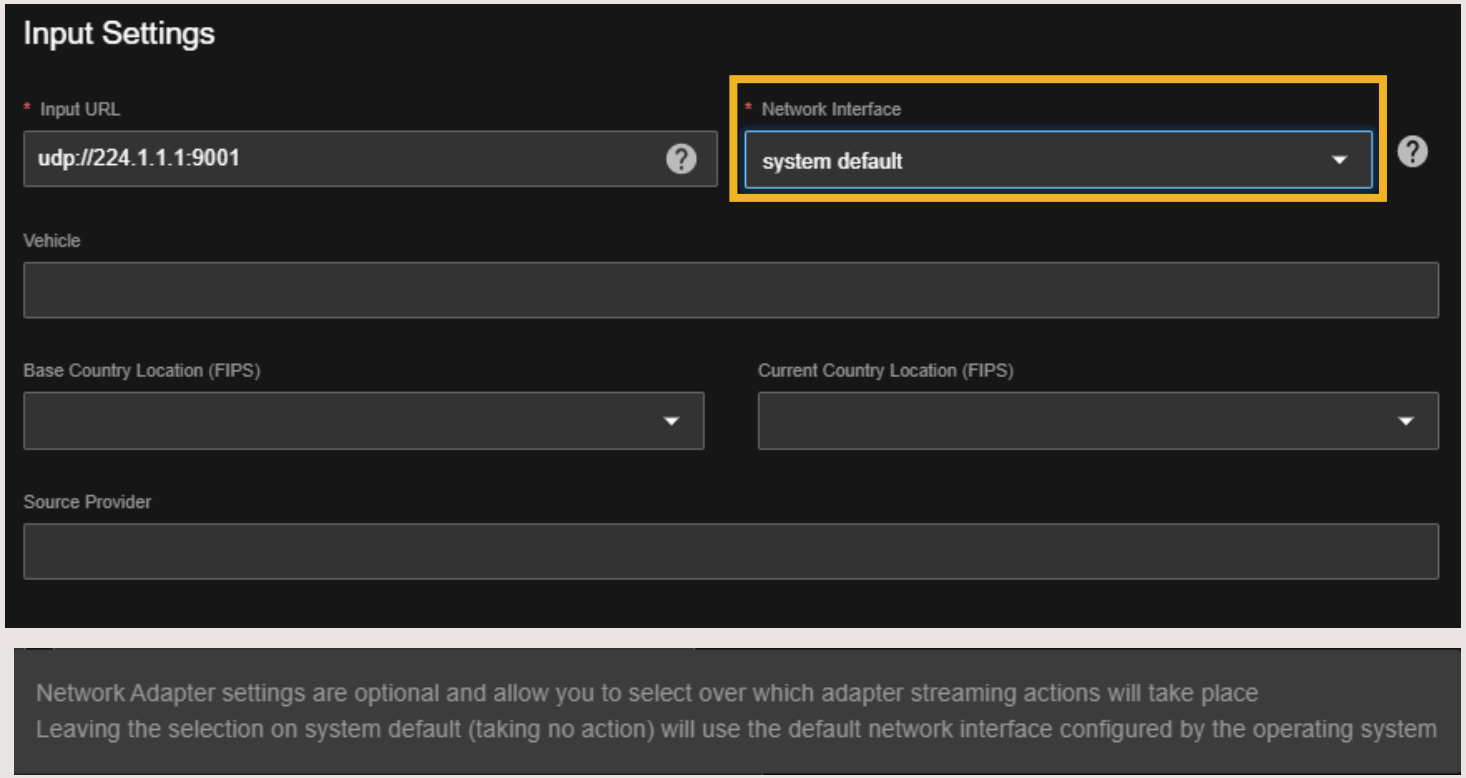
Network Interface Card Picker for Channels

- A Network Interface Card (NIC) enables connectivity with other network devices.
- A NIC Picker was implemented for GXP InMotion server allowing system administrators additional options when working within virtualized networks.



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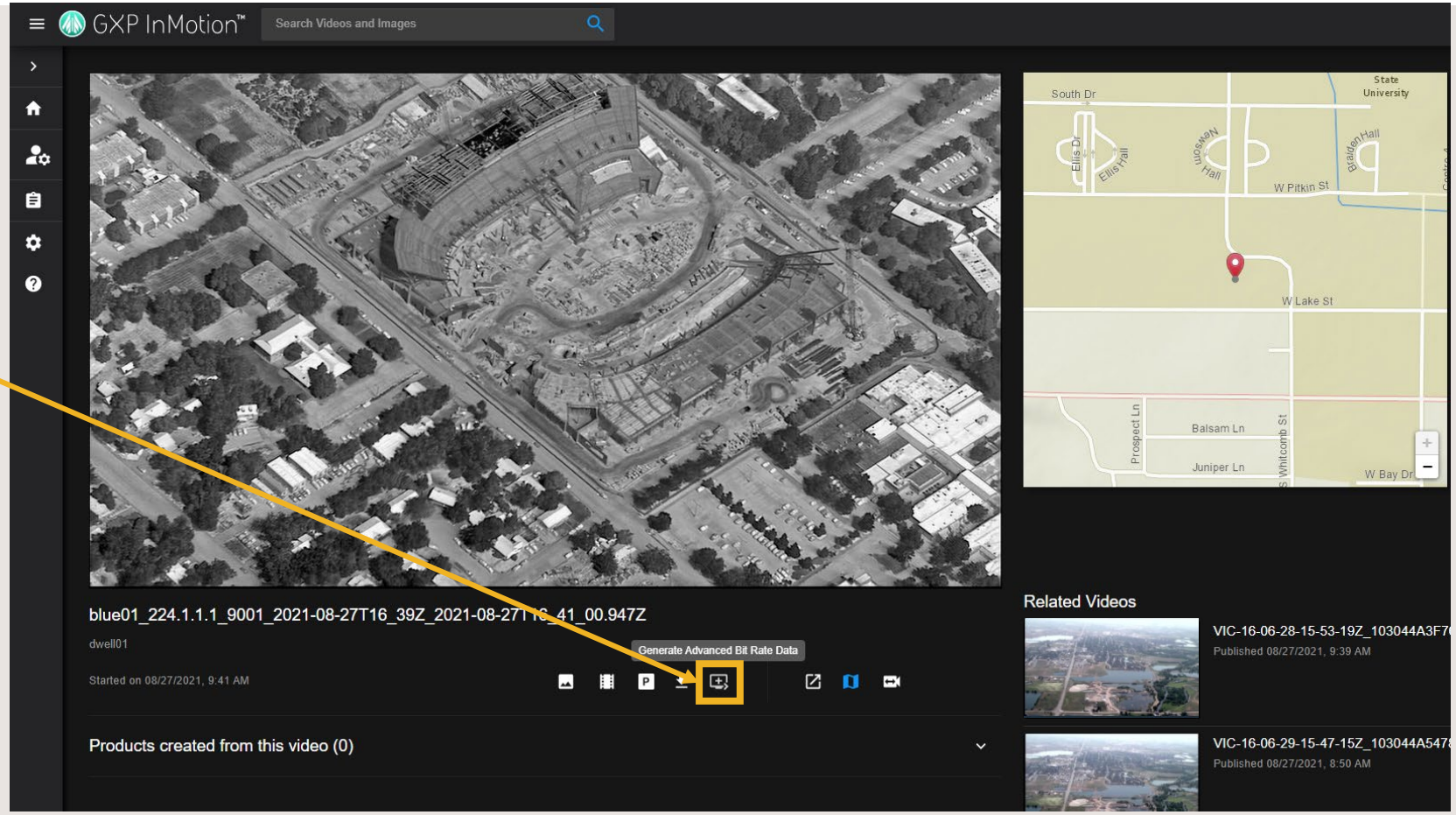
Generate HLS On Demand

- By default, GXP InMotion server will generate HTTP Live Streaming (HLS) data when capturing video.
- For cataloged archives to be web browser playable, videos may need manually generate HLS.



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Thank you

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