GXP Xplorer® Platform v2.6.1 Release Enhancements

Presented by GXP Product Development

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General information

- New licenses are required when upgrading from GXP Xplorer® Platform v2.5 or earlier.

- Upgrade is supported from GXP Xplorer v2.5.5+.

- Federation is supported for GXP Xplorer v2.5.5+.

- Synchronization is supported for GXP Xplorer v2.5.5+ (see Release Notes for additional information).

- Data models from GXP Xplorer Platform v2.5.4+ can be imported, all data model objects will be represented.

- Support for Windows® Server 2022, 2019, 2016.
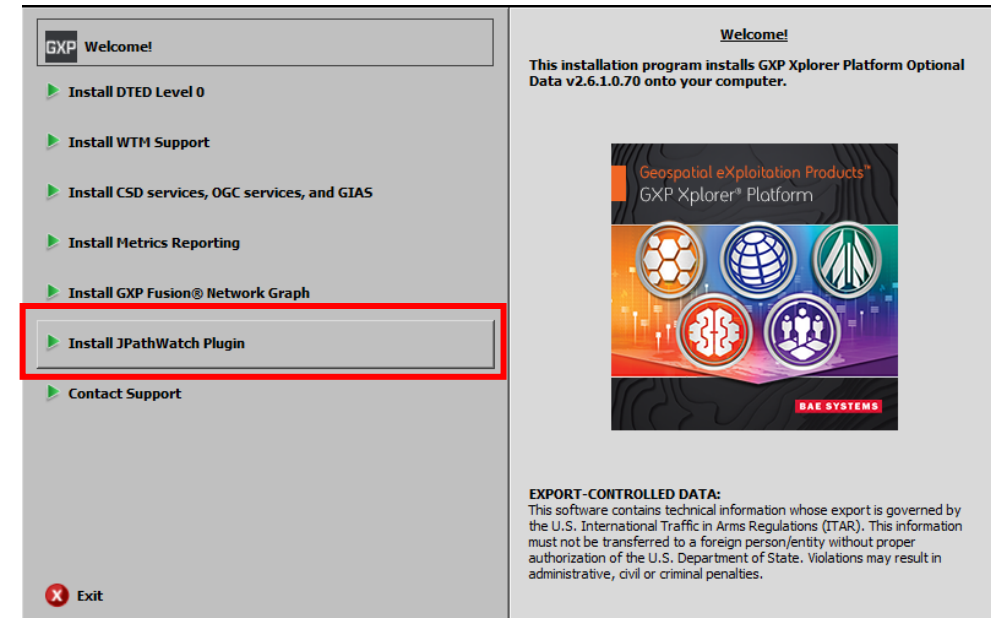
- Support for Windows 11, 10.

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GXP Xplorer v2.6.1 updates

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jpathwatch

The jpathwatch plugin improves on the existing file crawling capabilities in the GXP Xplorer Platform.

- jpathwatch is available via the Optional Media.

- Highly recommended that all GXP Xplorer Platform users install jpathwatch from the Optional Media.

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Other enhancements

- Improved support for Allied Engineering Documentation Publication-19 (AEDP-19).

- Addressed multiple CVEs related to Apache Solr^{TM}.

- GXP Xplorer Cart is now sorted alphabetically making it easier to find related data.

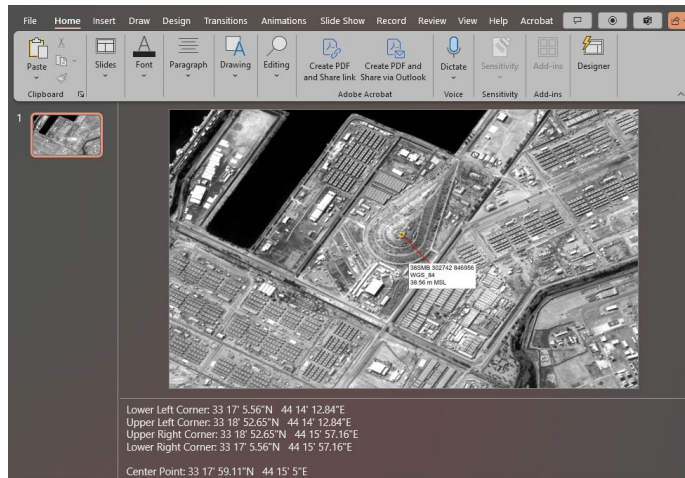- Added support for cataloguing 3DTiles datasets.
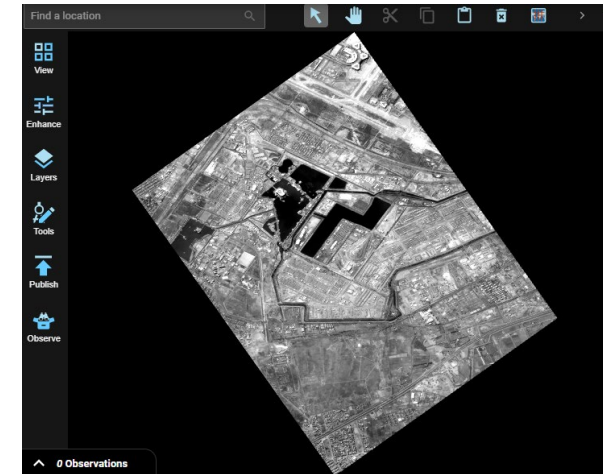
- AWS SDKv2 support.

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GXP WebView® v2.6.1 updates

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Improved hotkey support

- GXP WebView® users now have access to additional hotkeys.
  - Alt + W performs the Fit to Canvas (whole scene) zoom function.
  - Alt + M drops a Marker at the current cursor location.
  - Alt + P snaps the current view to PowerPoint®.


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GXP InMotion™ v2.6.1 updates

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Near real-time display of 4607/4676 data for live browser-based exploitation

- Global accessibility.
  - Web-based delivery allows users access to MTI data from anywhere. This enables remote teams, mobile units, and command centers to access the same live data, improving coordination.

- Faster decision-making.
  - Real-time streaming enables immediate visibility of moving targets.
  - Web interfaces can support alerts, analytics, and visual overlays.
  - Reduces the time from detection to decision, which is critical in time-sensitive operations like missile defense or border security.
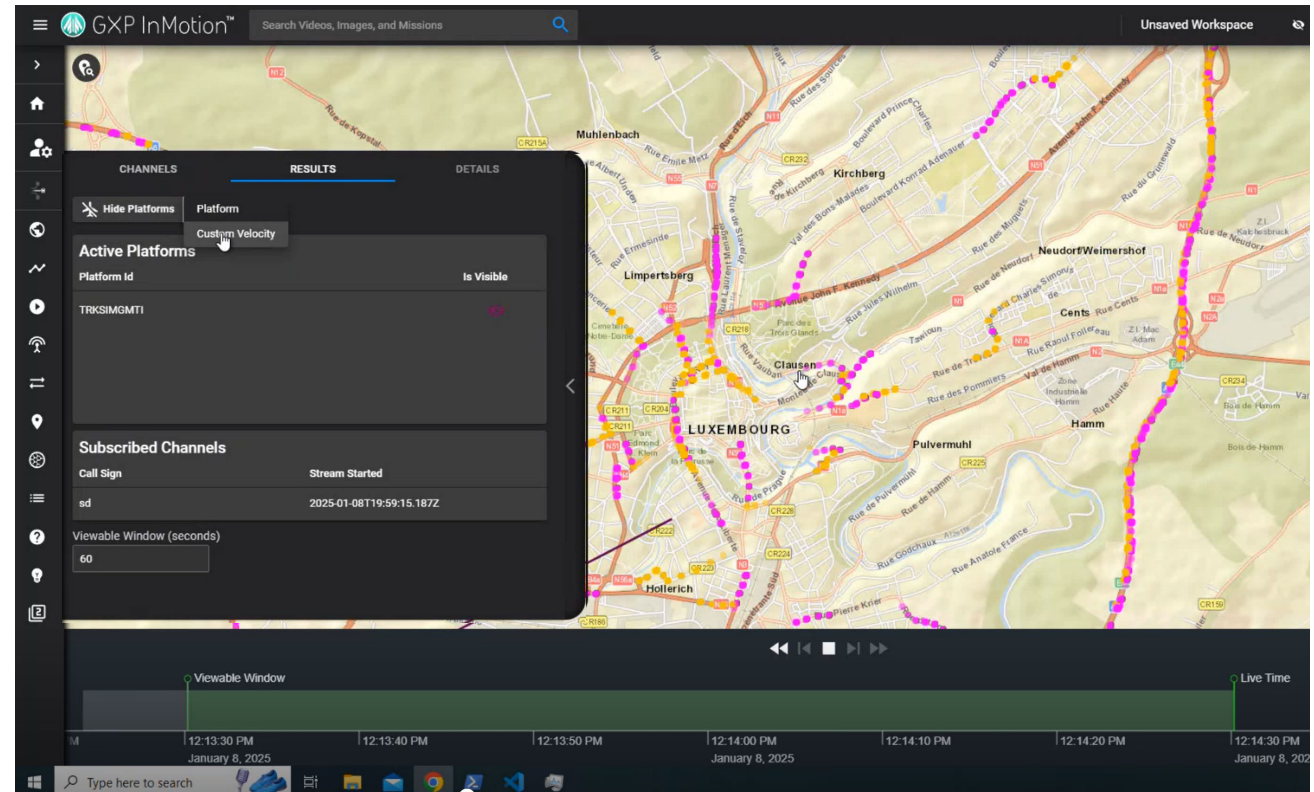
ESRI® ArcGIS Server (AGS) layers

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# New timeline for the GXP InMotion Web MOVINT page

- Starting with the release of the GXP Xplorer Platform 2.6.1, the MOVINT section of GXP InMotion Web page now has an embedded timeline.

- The timeline is a major advancement over the original animation player and provides greater control, visualization, and features for users, especially with real time MTI (Moving Target Indicator) feeds.

- New controls for 'tail length' and 'playback speed' were also added to the Timeline bar.
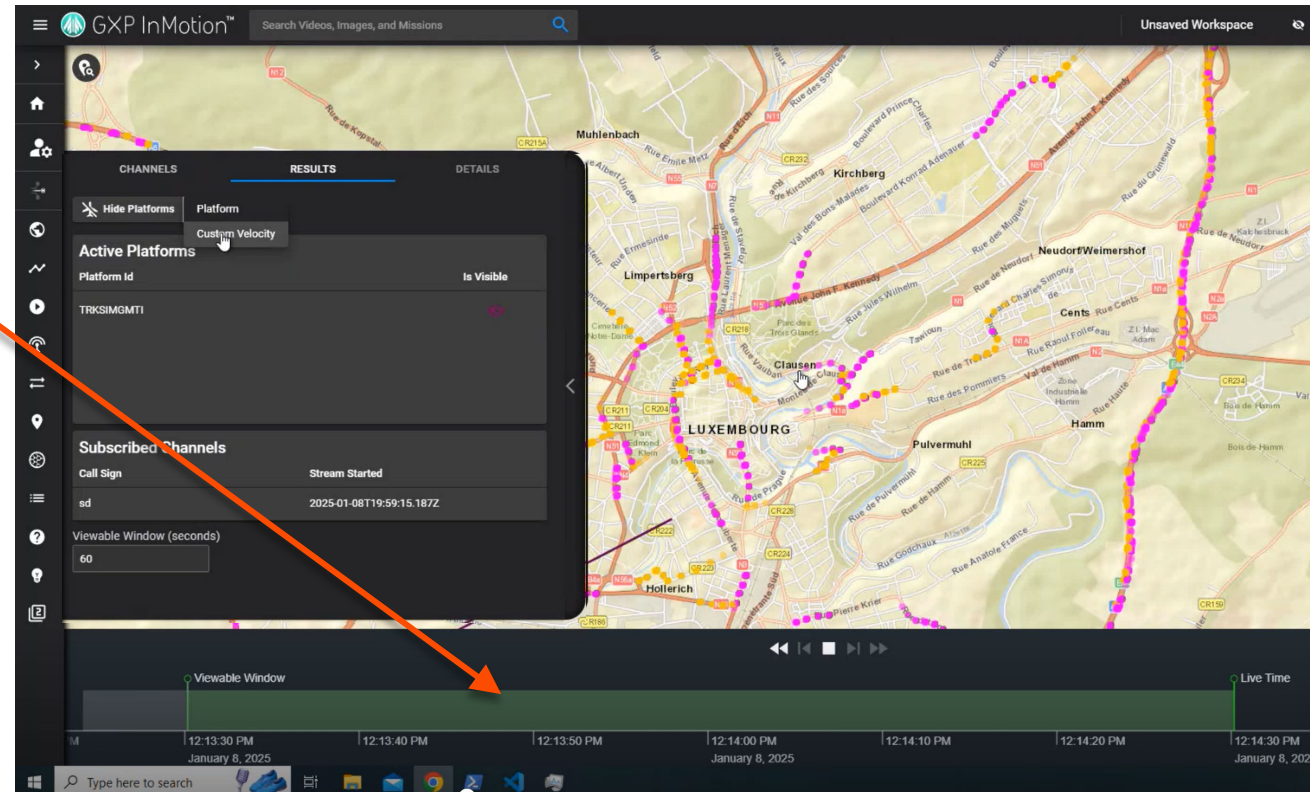
ESRI® ArcGIS Server (AGS) layers

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MTI metadata display

- Adding metadata to the map provides value adds contextual information to raw MTI data, which can include:
  - Latitude/longitude.
  - Radial velocity.
  - Uncertainty (slant/cross range, height).
- Helps users understand what, when, and where the data was collected, improving situational awareness to enable real-time decisions with better judgment.
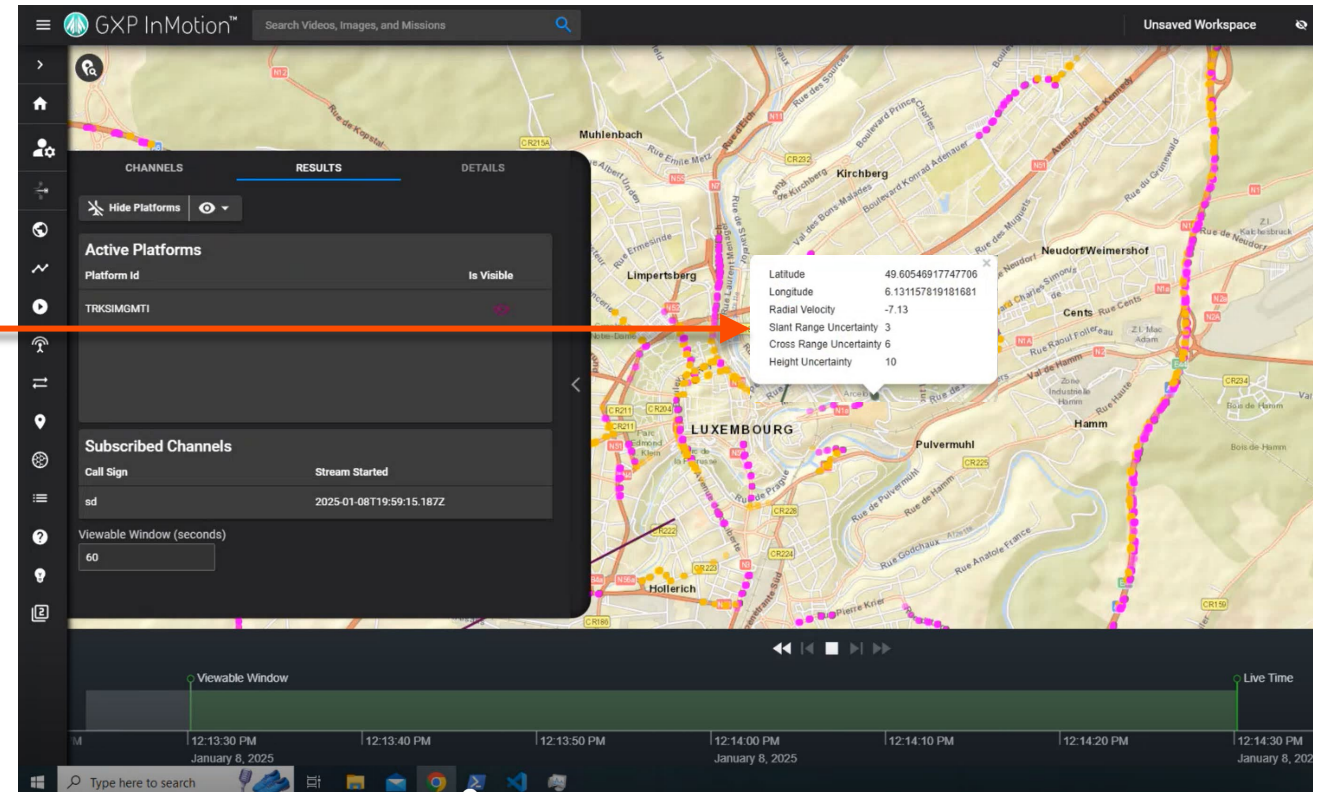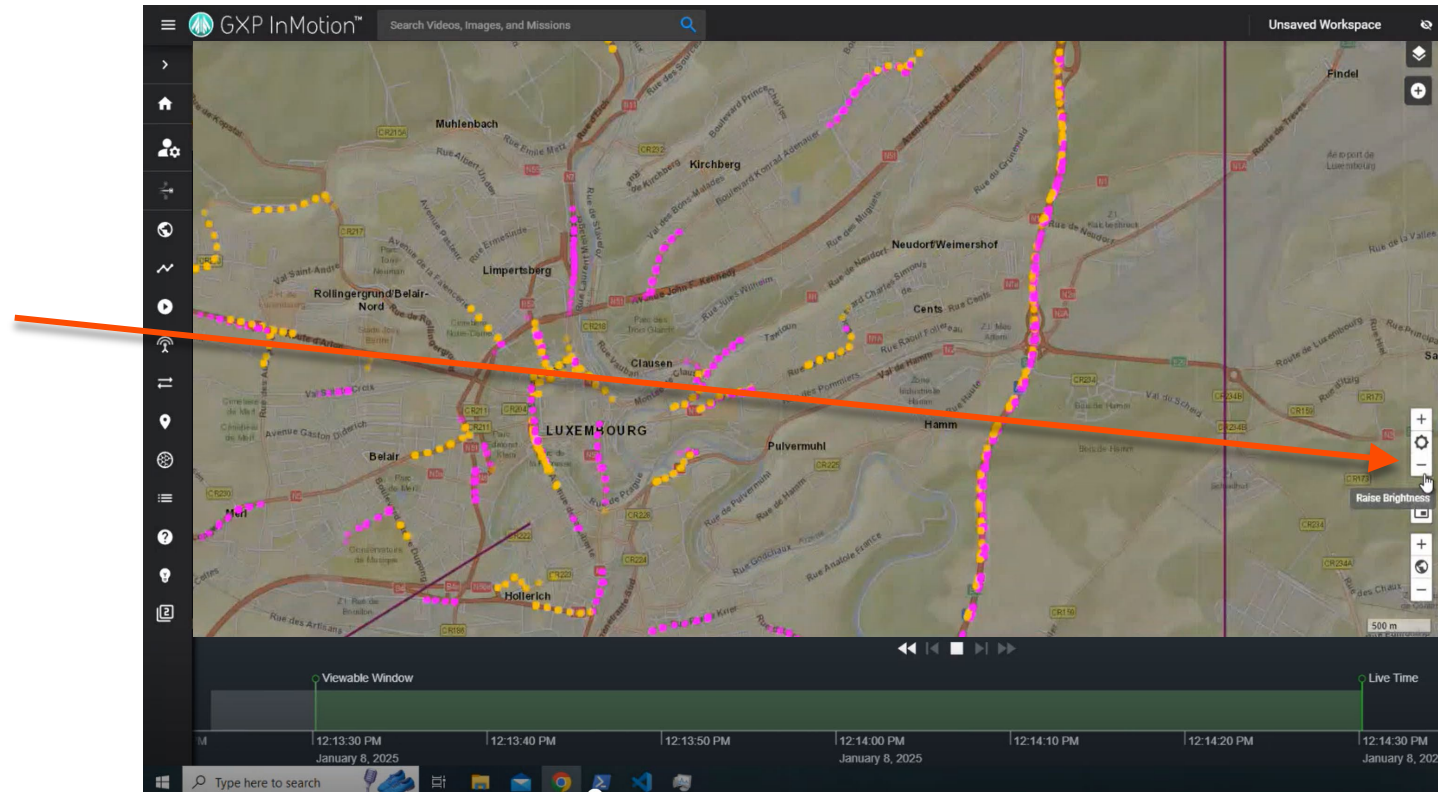

ESRI® ArcGIS Server (AGS) layers

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Adjust map brightness

- Users are now able to change the brightness of the map background.

- The value this provides end users is that many Compressed Arc Digitized Raster Graphic (CADRG) map backgrounds available to end users may be very dark or too light in color, unlike commercially available streaming map backgrounds.

- This tool enables the user to adjust the map brightness to compensate for the poor streaming map products.

ESRI® ArcGIS Server (AGS) layers

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# Adjust MTI detection layer dot size

- Users are now able to change the size and the color of the 4607 detections displayed on the map.

- The value this provides end users, like map brightness, is that the various CADRG map backgrounds available to most users are not as pristine as commercially available streaming map backgrounds.

- These tools enable the user to adjust parameters to enhance the visual display of MTI with poor streaming map products.
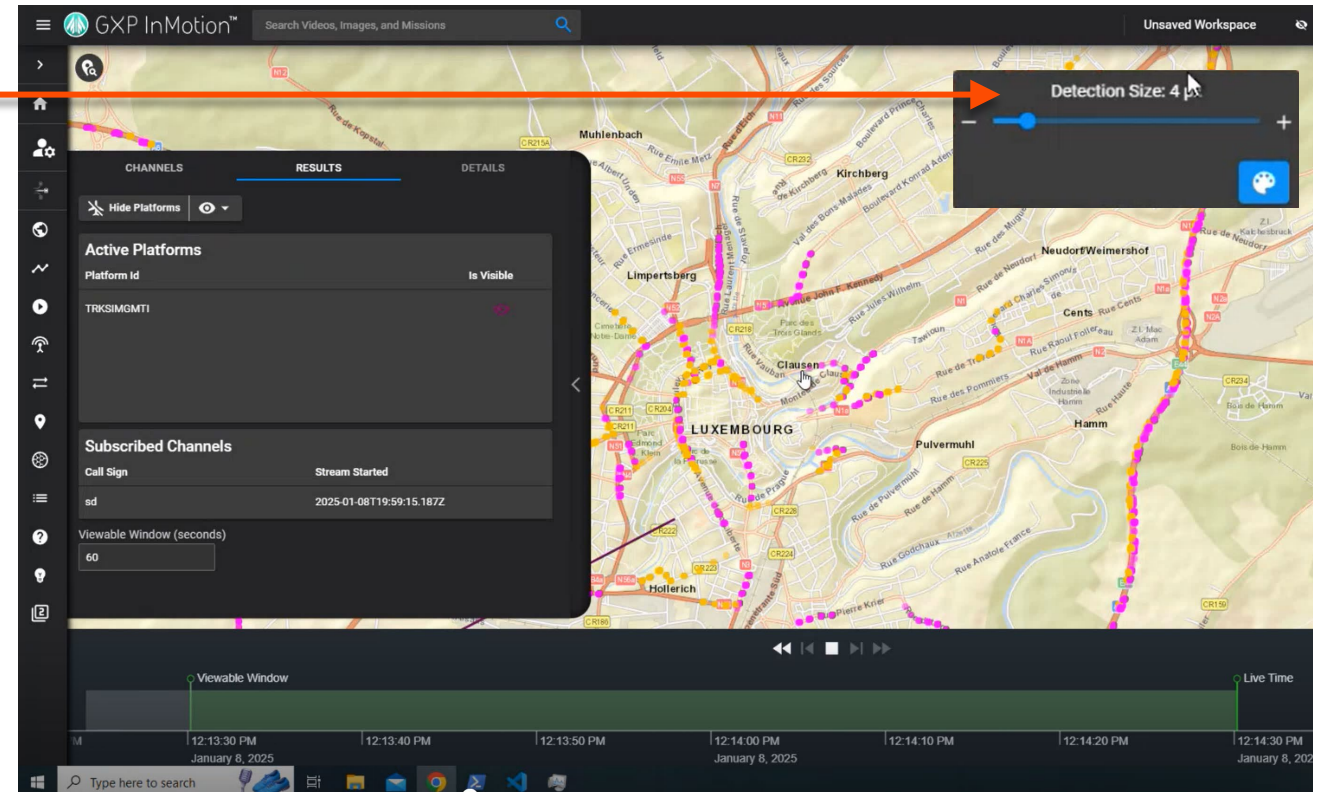
ESRI® ArcGIS Server (AGS) layers

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MTI detection color customization

- Users are now able to apply a customized color scheme to the 4607 detections displayed on the map.

- For example, different colors to signify inbound or outbound radar detections. If other metadata is available, additional customization is possible.

- The value this provides end users is that radar metadata is rich with parameters, these parameters allow for colorization that provides better situational awareness based on the activity of the detections.
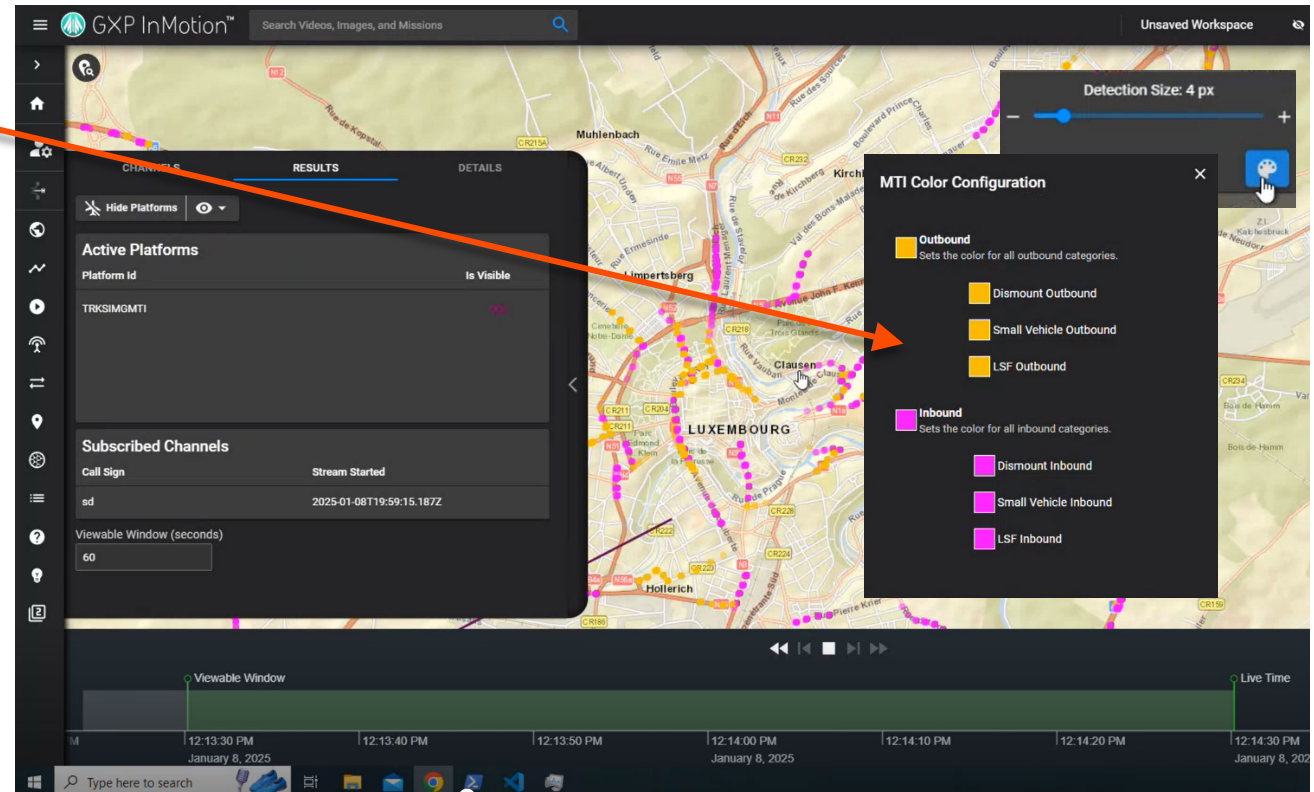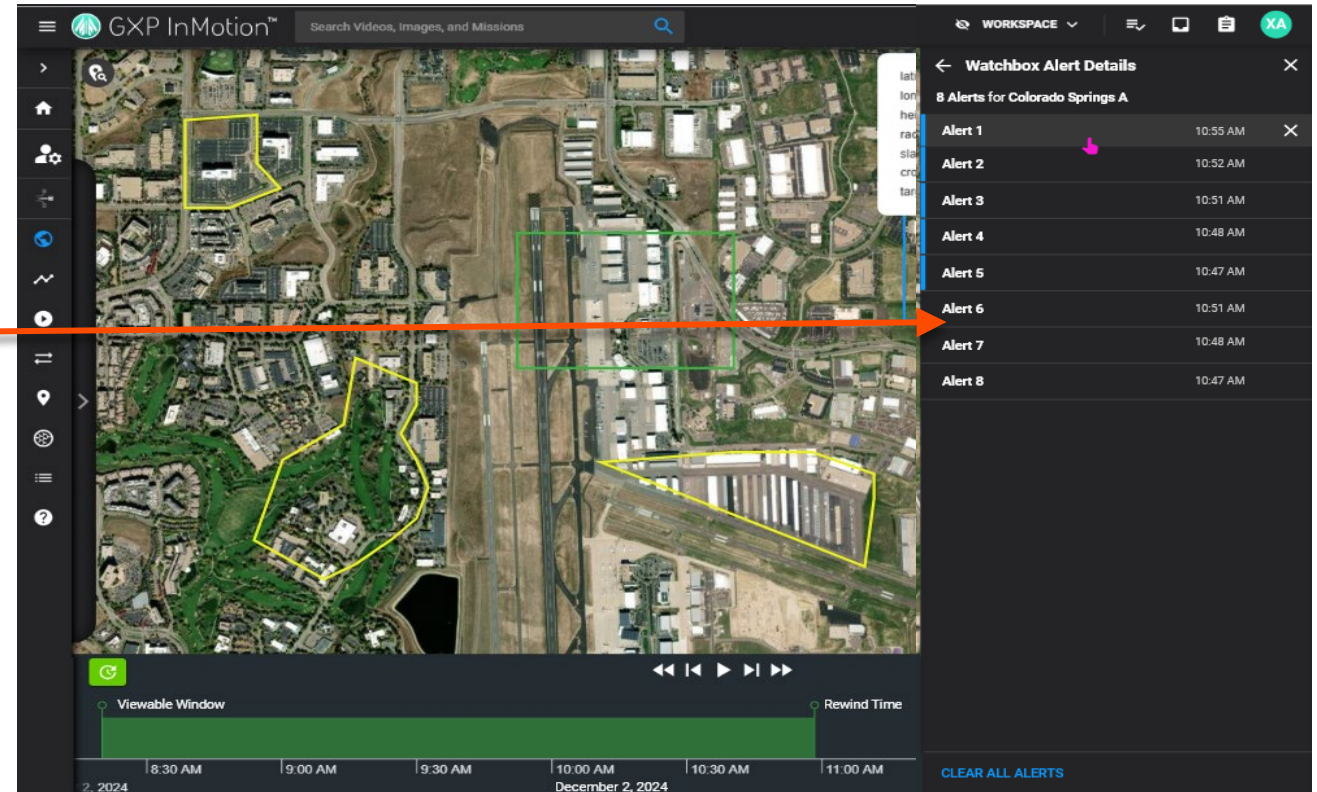

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MTI Watchboxes

- Users can set up a watch box in GXP InMotion Web. These Watchboxes can be defined as either a polygon or a point with a radius.
- An alert has a visible indication in GXP InMotion Web.
- When an alert is received a user is able to quickly jump to the map location of the alert as well as rewind the feed to the alert occurring so they can review and playback the data that caused the alert.
- A preference is in place to determine how long alerts should be retained and accessible for users.

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Watchboxes for real-time MTI

- Users can now set up a Watchbox in GXP InMotion Web using Objectives. These Watchboxes can be defined as either a polygon or a point with a radius.
- A new switch called 'Enable Watchbox' is added under the Spatial Coverage field.
- When the switch is enabled, additional parameters display for types to select for the Watchbox.
- Watchboxes can be enabled for detections or tracks.
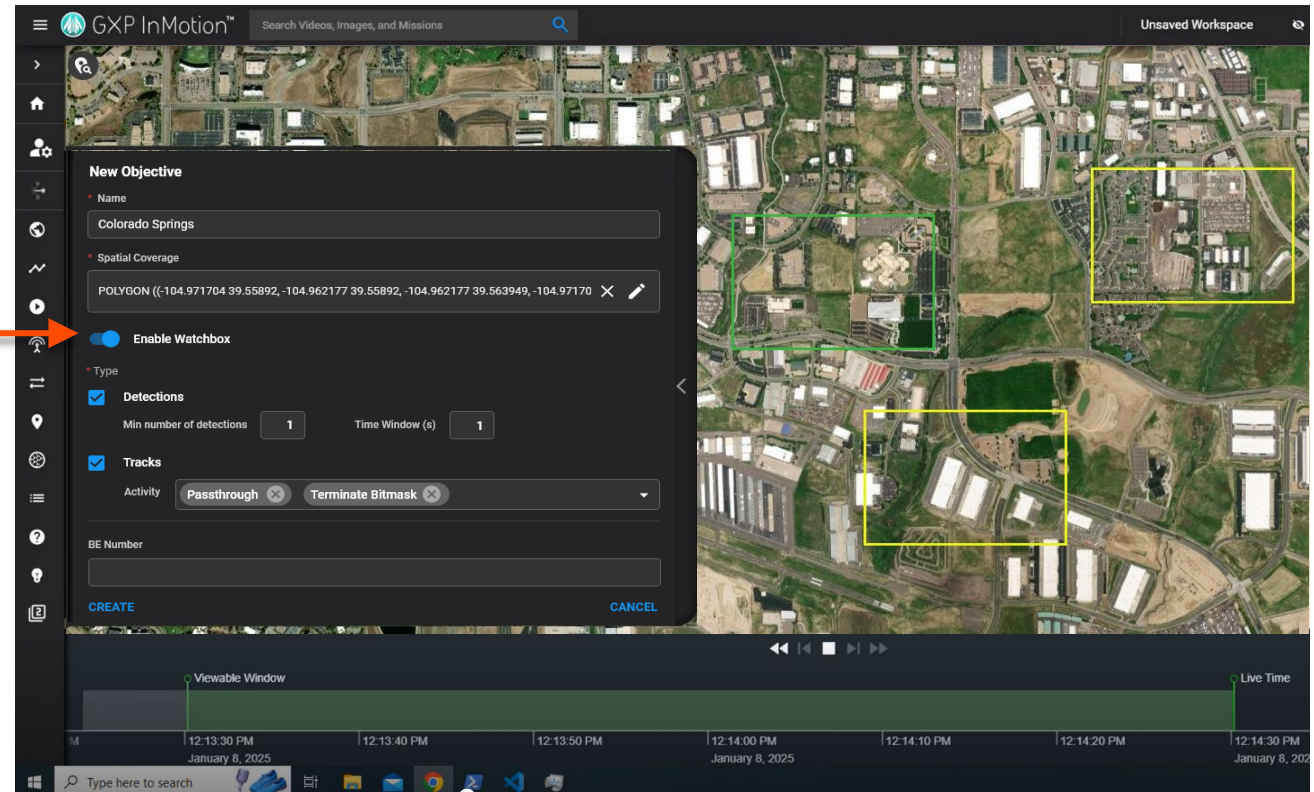
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Alerts in the Watchbox Drawer

- As alerts for an Objective are received, the outline changes color and displays a bell icon.

- Clicking the Watchbox button opens a drawer which will display all the Watchboxes listed alphabetically.

- An alert can be made up of multiple detections but will only display the time stamp of the last track or detection that triggered it.

- The blue bar indicates that there are new alerts for the Objective that have not been acknowledged.

ESRI® ArcGIS Server (AGS) layers

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General information

- MTI Event trigger (track ingress/egress/transit) alert service implemented for when MTI based tracks are entering, leaving, or transiting a watched area, or when detections occur within the defined area.
- API endpoints added in TASS 2.2.0 for new alert services behind MTI Watchboxes in GXP Xplorer Platform's MOVINT UI version 2.6.1.0. The Alert publishing service listens to the message broker alert topic and is configured to send alerts outside of the GXP InMotion K8s architecture.
- Fixed:
  - Unable to Stop FMV Capture discovered in GXP Xplorer Platform v2.5.8.
  - Track details panel not loading track video.
  - Job Page doesn't tell you any info in Job Details.
  - Search for Live Capture Records fail in CaptureProcessManager.cleanup.
  - Improved MTI restream with temporal gaps in source data.
  - Modified GXP Xplorer catalog's metadata associated with video captures to improve stability of long running video captures.

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GXP Fusion® v2.6.1 updates

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Notifications

Queries are used to create the requirements for a Notification.

- Queries can be created defining:
  - Observation type.
  - Geographical location.
  - Date the observation occurred.

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Notifications... 2

Once the queries for the notification have been defined, a Notification requirement can be specified:

- What users will receive the notification.
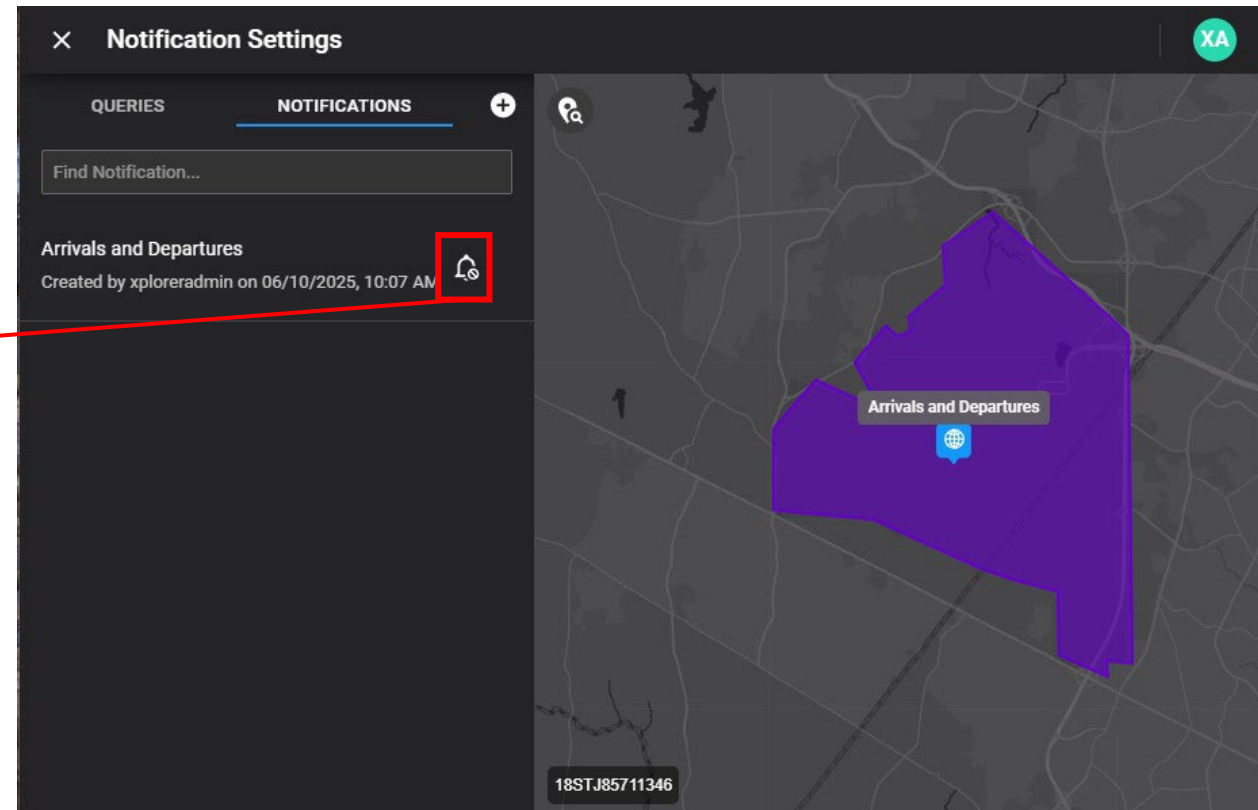- What combination of queries defines the notification.
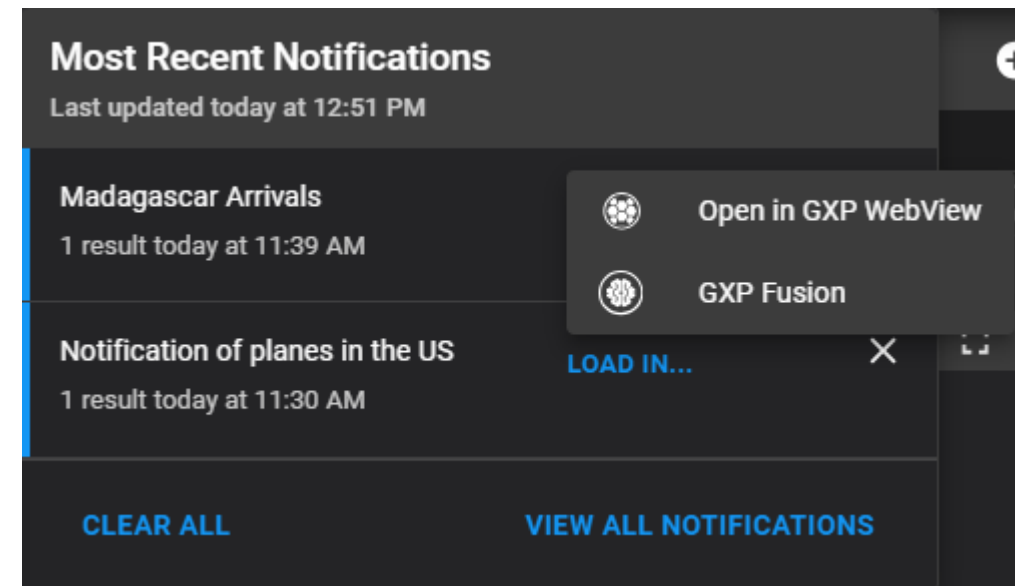
Notifications… 3

From the Notification Settings page the full set of Notifications can be viewed, to include:

- Geospatial coverage of the Notification.
- Enable or disable a Notification.
- Find a Notification using text-based searches.

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Notifications… 4

Once a user receives a Notification, the results can be loaded directly into GXP Fusion and GXP WebView.

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Thank you

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