

GXP Xplorer® Platform v2.5.8

Release enhancements

Presented by GXP® Product development

Infrastructure

- New licenses are required when upgrading from GXP Xplorer® Platform v2.5 or earlier.
- Upgrade is supported from GXP Xplorer v2.5.4+.
- Federation is supported for GXP Xplorer v2.5.4+.
- Synchronization is supported for GXP Xplorer v2.5.4+ (see Release Notes for additional information).
- Data Reformatting Services (DRS) v5.6.08.R5 which contains Mensuration Services Program (MSP) v2.1.2.
- Core Software Development Kit (SDK) MSP is v3.0.0.
- Support for migrating from enterprise deployments of GXP Xplorer Platform v2.5.0 to v2.5.8.
- Data models from GXP Xplorer Platform v2.5.4+ can be imported, all data model objects will be represented.

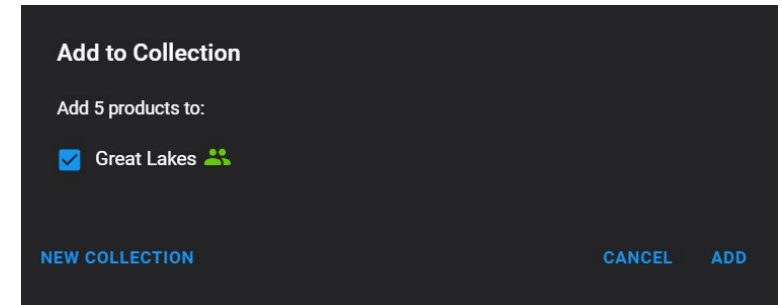
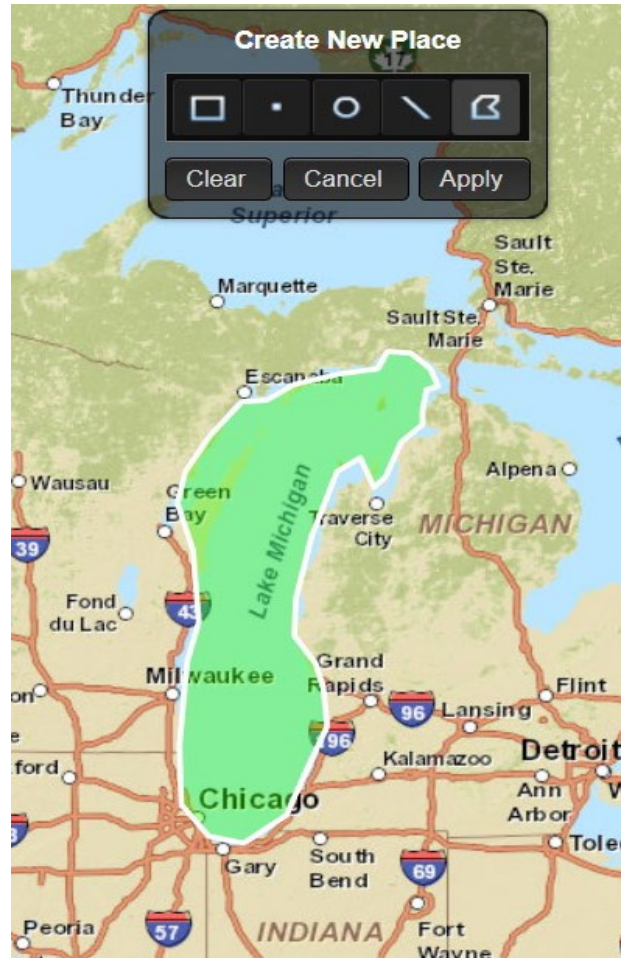
GXP Xplorer v2.5.8 updates



Places

Users can create Places directly on the GXP Xplorer Map page.

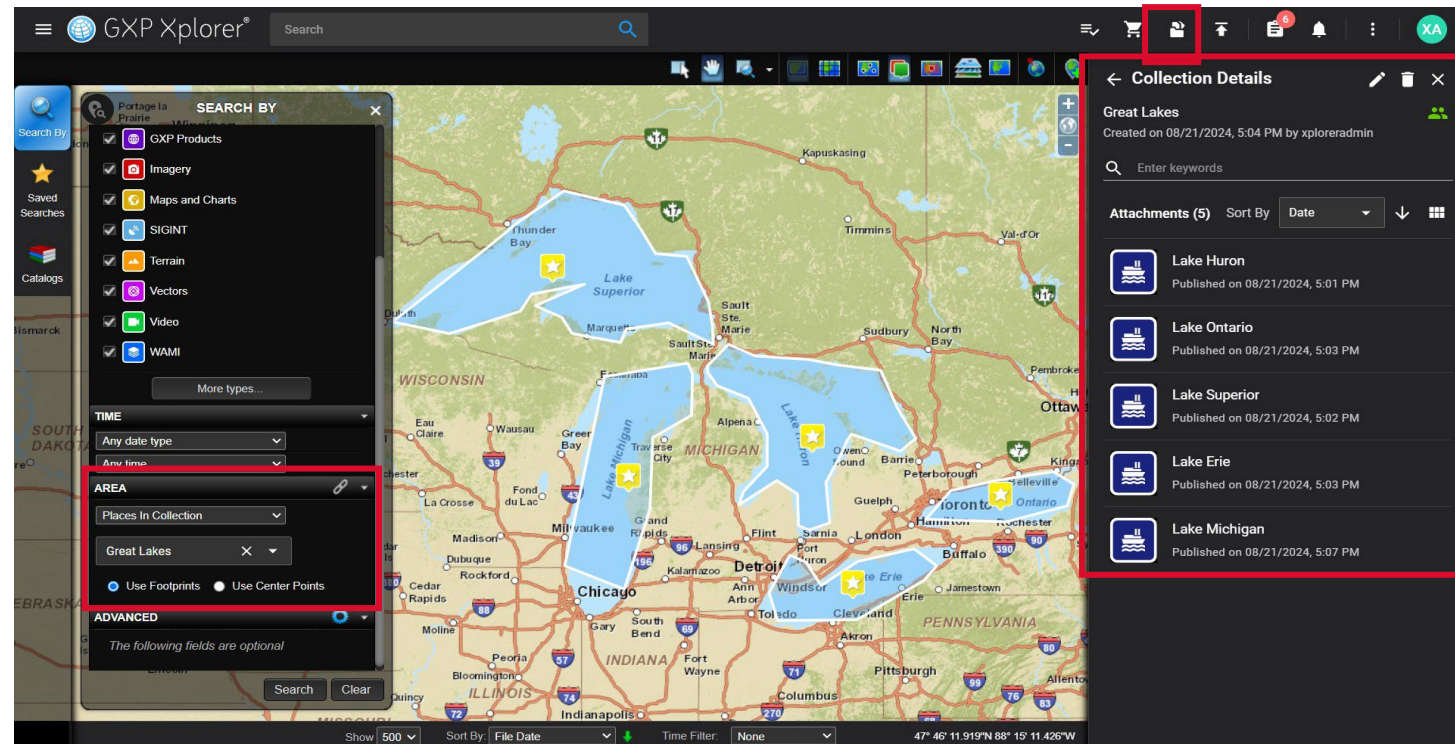
- Places can be boxes, points, circles, lines, or polygons.
- Places are available to other users of GXP Xplorer.
- Metadata for each place can be defined.



After searching for Places in the GXP Xplorer interface, they can be added to a Collection.

Collections

Collections can be used to define Area for searches using either the footprint of the Places or the Center Point with an adjustable radius.



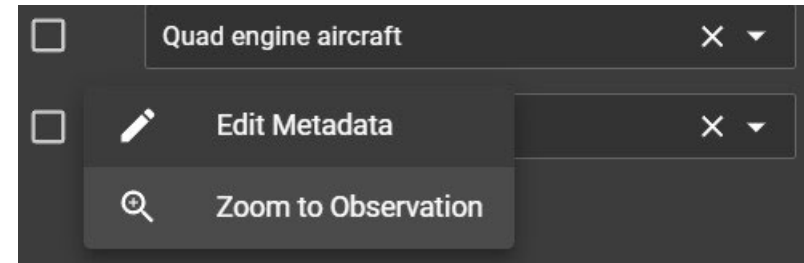
After searching for Places in the GXP Xplorer interface, they can be added to a Collection.

GXP WebView® v2.5.8 updates



Structured Observation Management (SOM) updates

- Observations table is now dynamic.
 - A single click allows users to enter data into the table.
 - Default columns can be set by administrators.
 - A pop-up window allows for advanced metadata editing.
- Directly zoom to individual Observations.



2 Observations You have pending changes to publish

Object	Type	Location	Activity	Comments	Source
Quad engine aircraft	Oil Tanker	San Diego Airport	Fueling	Unmarked	10JAN01185216-P1BS_R1C1-052565412010_01_P
Commercial tanker	Oil Tanker	San Diego Harbor	Anchored	Derelict	10JAN01185216-P1BS_R1C1-052565412010_01_P

Other significant enhancements

- Users are now able to manipulate bands, sharpen images, and use mensuration tools on imagery that is streamed using the Tile Pyramid Ingest Processor.

GXP InMotion™ v2.5.8 updates



GMTI Restreaming from 4607 files

- Controls for restreaming GMTI (4607) from GXP InMotion™ server similar to restreaming video files.
- The GMTI restreamer can pick a network interface card (NIC) just like the FMV restreamer does.
- Users can see active running restreams and cancel them.
- TCP protocol restream will not be supported for the first iteration.

The screenshot displays the GXP InMotion™ interface for managing restreams. The main window is titled 'Manage Restreams' and has tabs for 'FMV' and 'GMTI'. A modal window titled 'Create GMTI Restream Channel' is open, showing the following configuration options:

- Input Settings:**
 - Source Type: FILE (dropdown)
 - * Selected Restream Capture: exportable_sim_gmti_luxembourg_11172020.4607 (text input)
 - Select GMTI Capture (button)
- Output Settings:**
 - * Output URL: udp://224.1.1.1:9001 (text input)
 - * Network Interface: system default (dropdown)
 - * Name: test_restream (text input)
 - Description: (empty text area)

The interface also includes a search bar at the top, a workspace dropdown, and an actions menu on the right side of the modal.

GMTI Restream - looping support

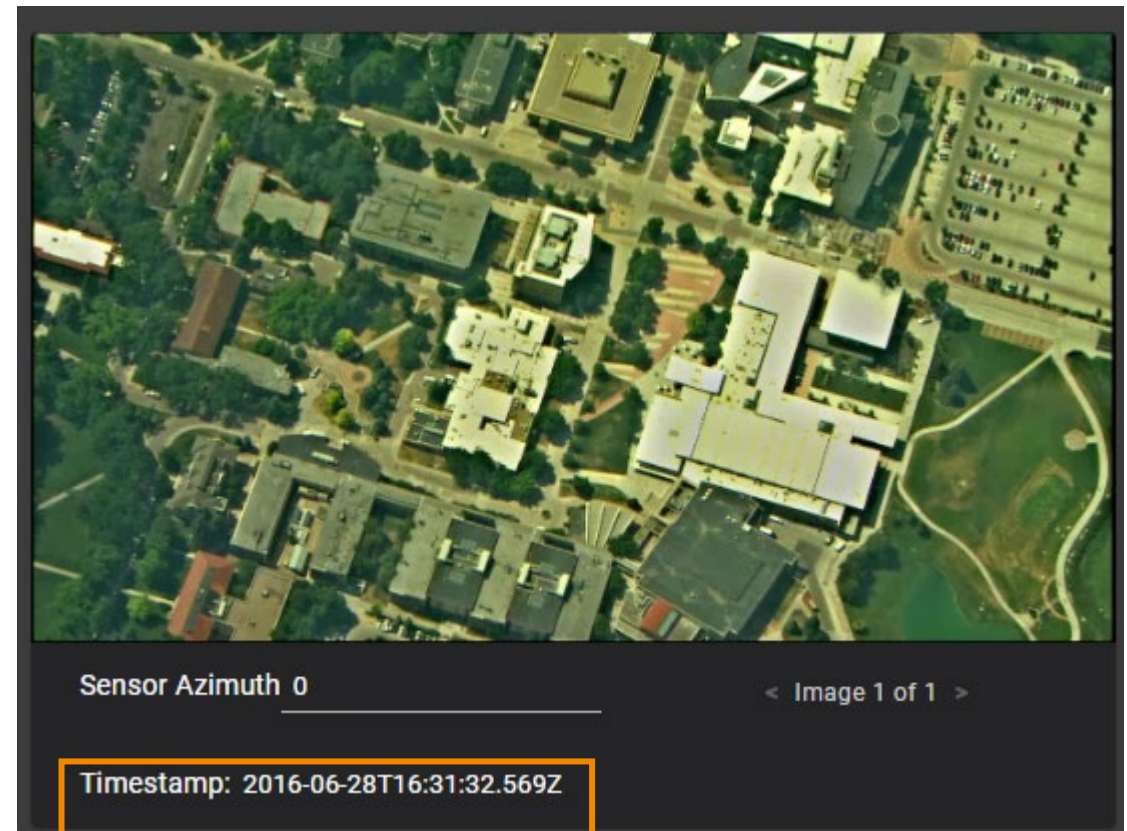
- Added the ability to configure a GMTI restream to loop continuously with or without timestamp reauthoring for analysis, testing, and training purposes.
- Looping support is designed to enable training facilities to emulate a live GMTI data feed for conducting real-time ISR training scenarios.

The screenshot displays the GXP InMotion interface. The main panel is titled 'Manage Restreams' and is currently set to 'GMTI'. At the top, there are status indicators for 'Starting' (0), 'Idle' (0), 'Streaming' (0), 'Stopped' (1), and 'Failed' (0). Below this is a table with columns for 'Name', 'Start/Stop', 'Status', and 'Source'. A single entry 'test_restream' is shown with a green play button icon, a red stop icon, and the status 'Stopped', with the source 'udp://224.1.1.1:9001'. To the right, the 'Output Settings' sidebar is open, showing 'Options' with three checkboxes: 'Start the channel after it is created', 'Is Realtime', and 'Enable Continuous Looping'. The 'Enable Continuous Looping' checkbox is highlighted with an orange border.

Name	Start/Stop	Status	Source
test_restream		Stopped	udp://224.1.1.1:9001

Powerslice Conversion to Presentation Time Stamps

- In order to generate more precise thumbnail images for the best frames identified by the PowerSlice service, PowerSlice will now use the 'Presentation Time Stamp' as it will improve the user experience because many videos do not have constant frame rate.



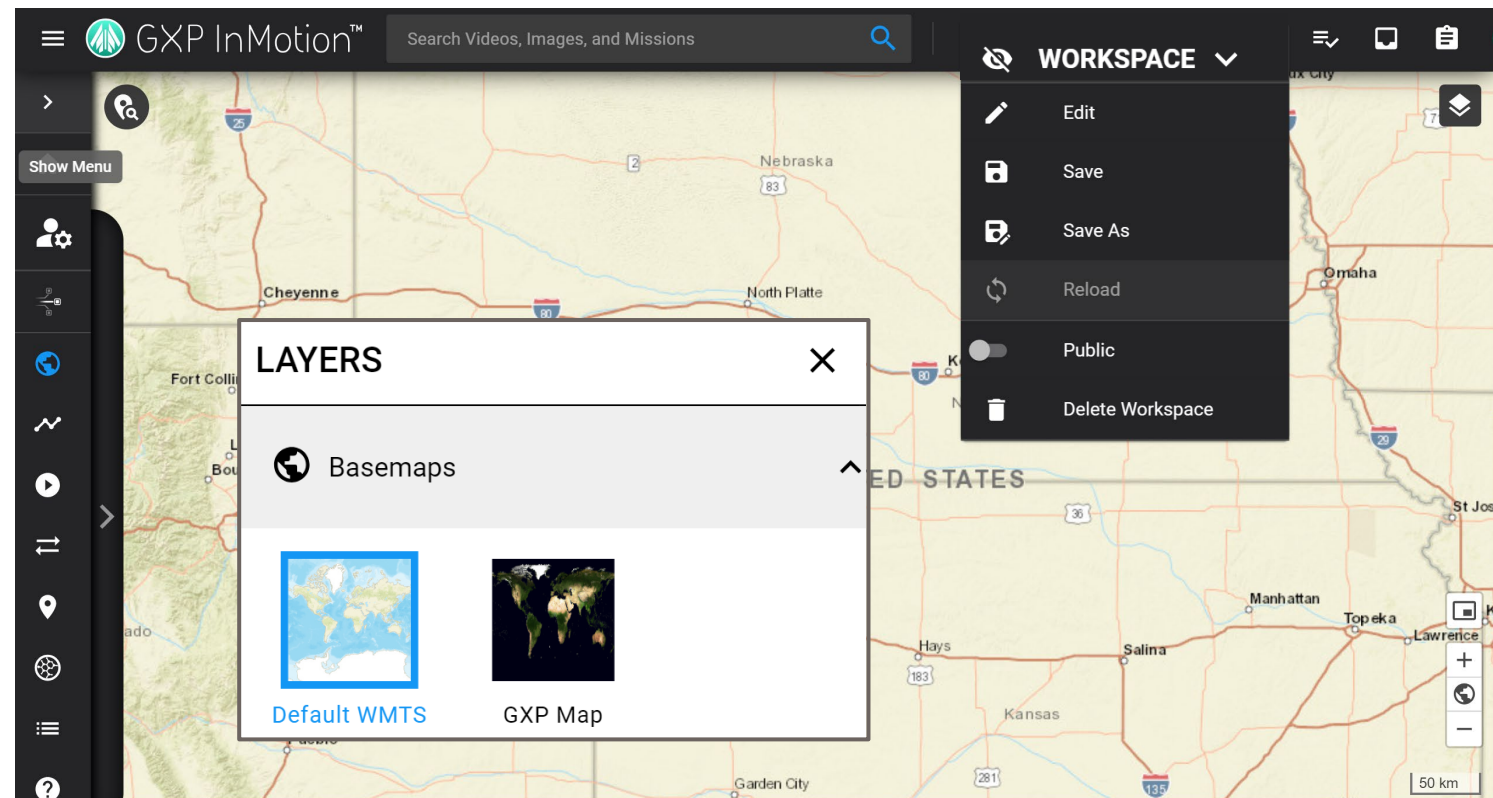
Imagery of MX-15 videos over Ft. Collins, CO; Courtesy of L-3 Communications, EO/IR Inc.

GXP InMotion capture page usability and server performance enhancements

- The following improvements were made to the Capture Management pages:
 - Reordering columns is now supported to provide better usability when controlling feeds.
 - Users do not need to see all the data presented in the capture table; thus, some default columns have been hidden.
 - Increased page response time.
- Several performance enhancements were addressed in the GXP InMotion Server Capture service to elevate access time to historic video.
 - Attempts to load, search, or playback historic videos may take considerable time to load the data due to the excessive content in longer capture record fields.
 - After upgrading to v2.5.8, the existing capture records can load and playback the captured videos more performantly.

Save user's map selection as part of their workspace

- Previously, users could not set the map setting and have it persisted in the workspace.
- An update was made so that users can save their chosen map in GXP InMotion, and on reload the map is restored.



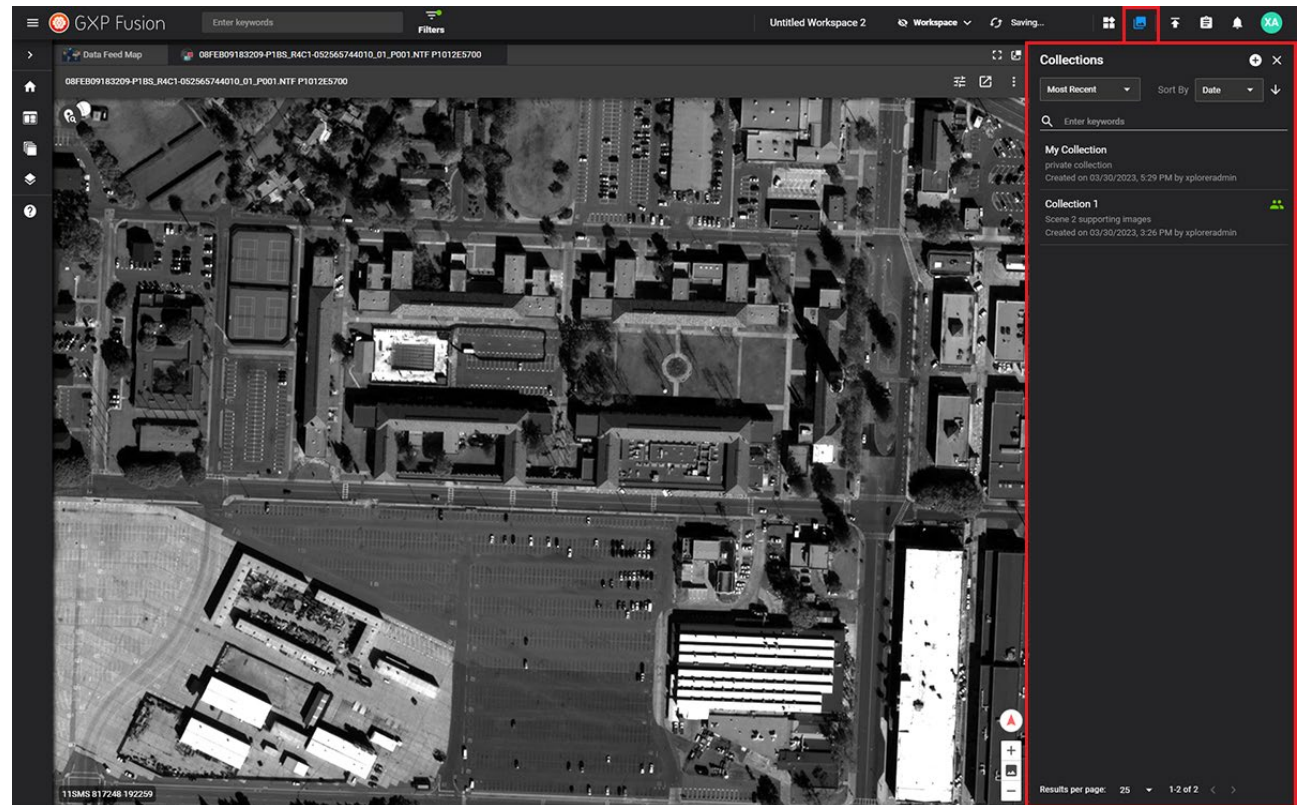
ESRI® ArcGIS Server (AGS) layers

GXP Fusion® v2.5.8 updates



Places added to Collections – Collections added to area filters

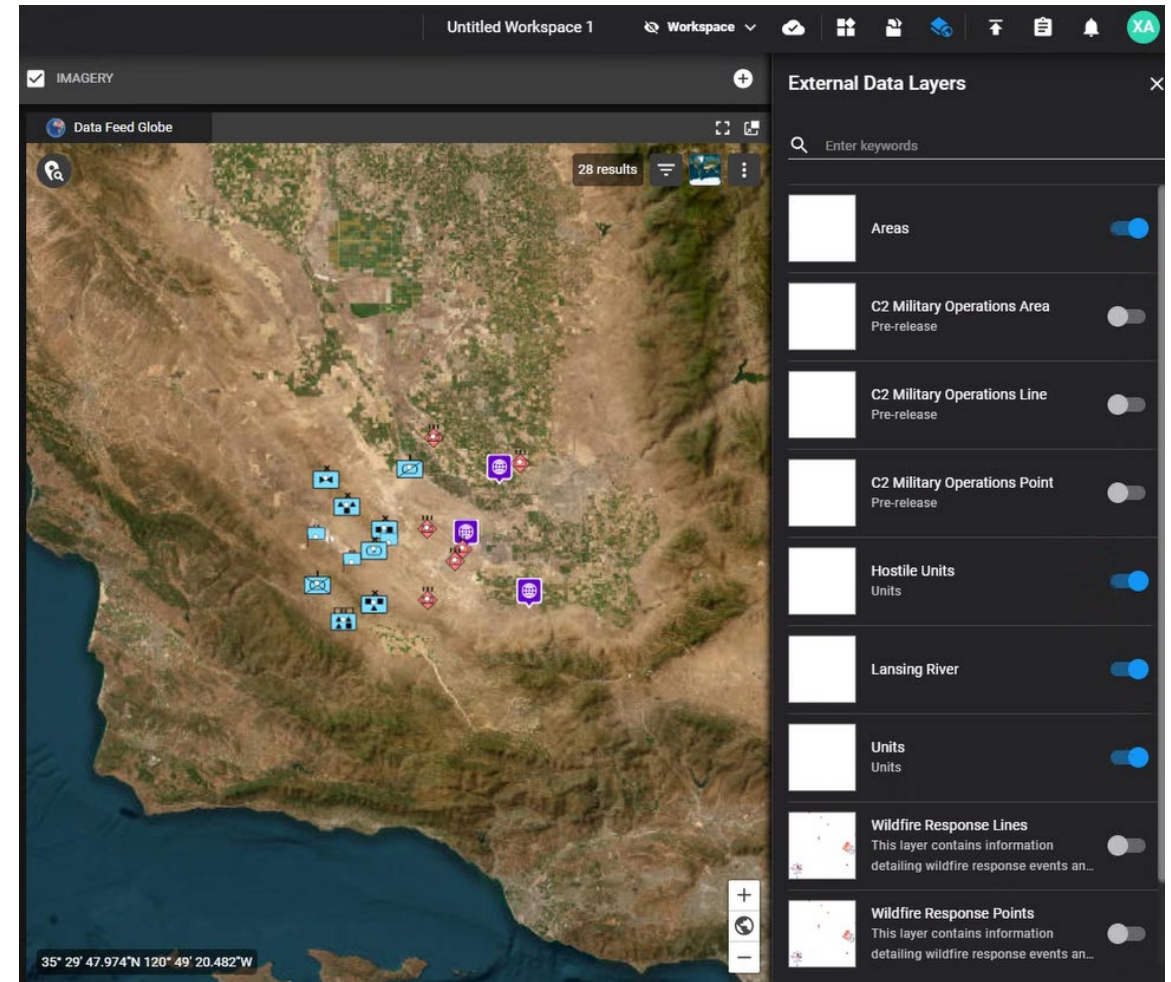
- Users can now add a Place (entity) to the Collections drawer.
- A collection can be selected as a global area filter.
- Allows quick geospatial filtering within GXP Fusion® based on places associated with a collection.



© 2024 Maxar Technologies

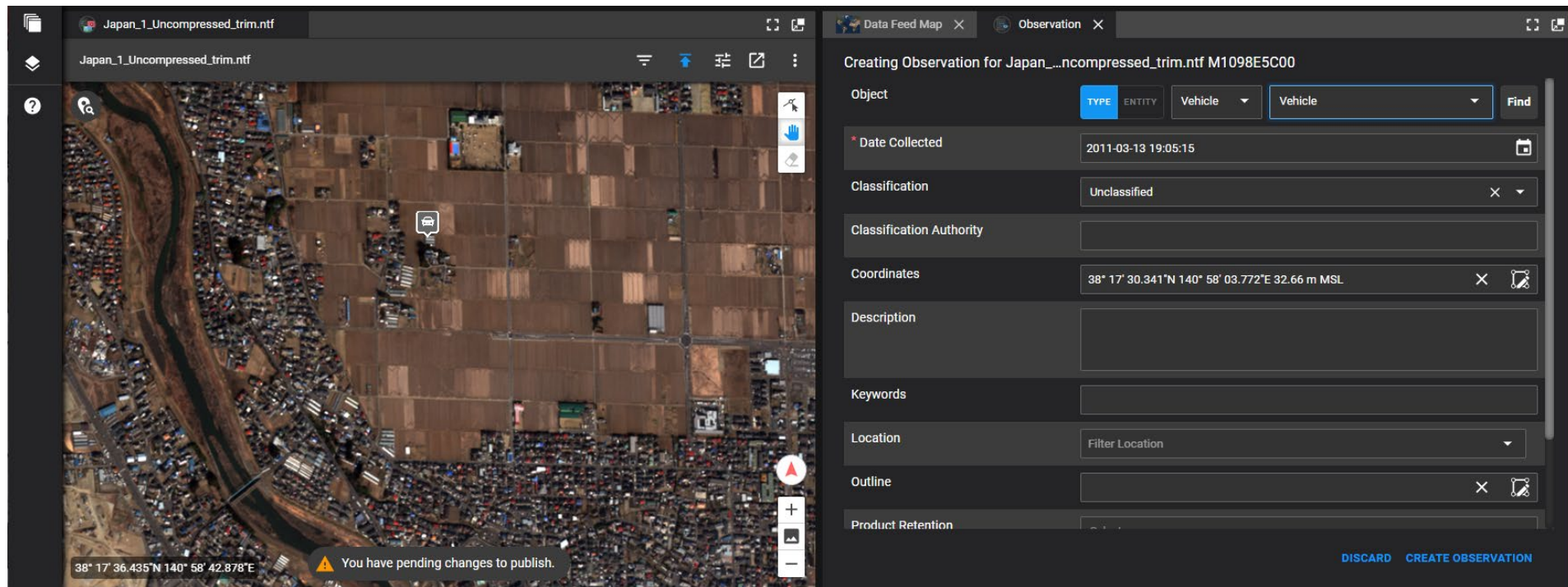
External Esri® data layers added to GXP Fusion

- External Esri® layers are now available in GXP Fusion.
- Selecting the external data layers button on the GXP Fusion Ribbon slides out a dialog to turn on and off external ESRI layers on the Map and Globe.
- Esri symbology is displayed.



SOM workflow improvements

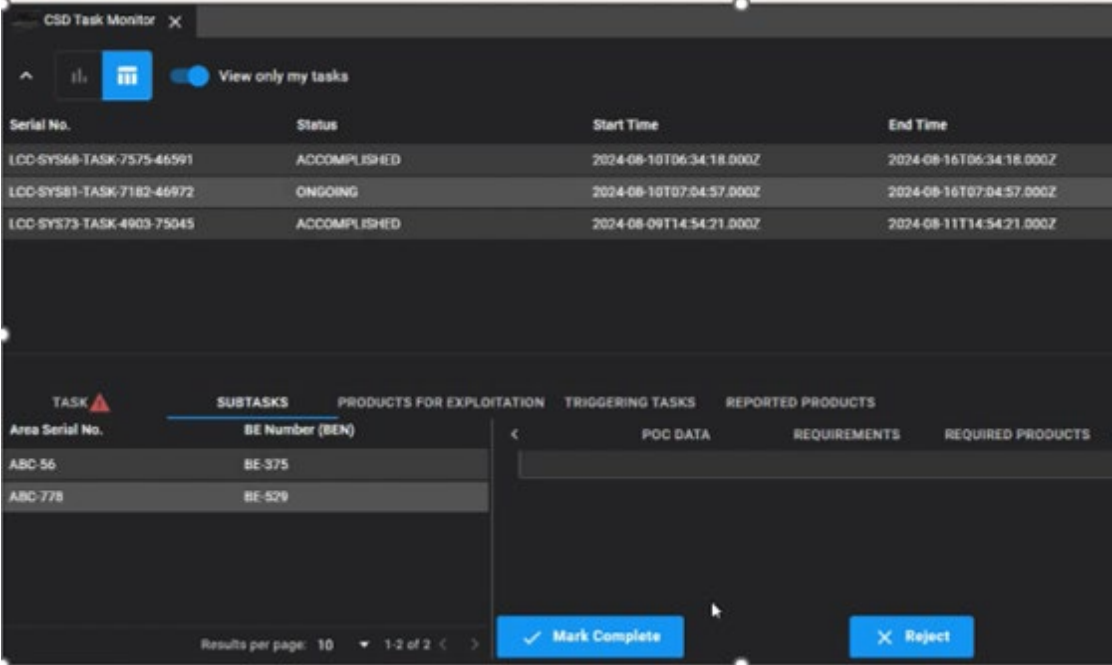
- Publish observation button moved to image ribbon to match GXP WebView.
- Load observations from image moved to more options.
- Removed un-used fields from the observation panel when creating observations.



© 2024 Maxar Technologies

Coalition Shared Database (CSD) / AEDP-19 visualization

- When CSD is configured in GXP Xplorer Platform:
 - AEDP-19 ISR Tasks can be:
 - Visualized.
 - Accepted.
 - Rejected.
 - Products can be produced and published to the task.



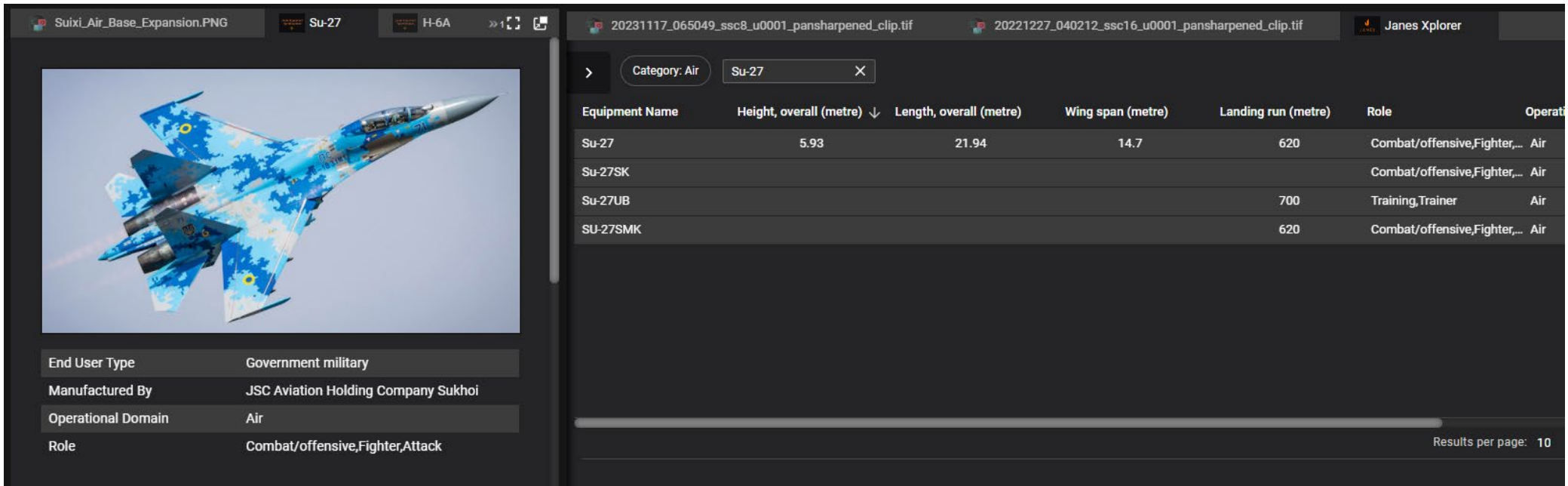
The screenshot displays the 'CSD Task Monitor' interface. At the top, there is a toggle for 'View only my tasks'. Below this is a table with columns for 'Serial No.', 'Status', 'Start Time', and 'End Time'. The table contains three rows of task data. Below the table, there are several tabs: 'TASK', 'SUBTASKS', 'PRODUCTS FOR EXPLOITATION', 'TRIGGERING TASKS', and 'REPORTED PRODUCTS'. The 'SUBTASKS' tab is currently selected, showing a table with columns for 'Area Serial No.' and 'BE Number (BEN)'. At the bottom of the interface, there are buttons for 'Mark Complete' and 'Reject', along with a 'Results per page: 10' indicator.

Serial No.	Status	Start Time	End Time
LCC-SYS68-TASK-7575-46591	ACCOMPLISHED	2024-08-10T06:34:18.000Z	2024-08-16T06:34:18.000Z
LCC-SYS81-TASK-7182-46972	ONGOING	2024-08-10T07:04:57.000Z	2024-08-16T07:04:57.000Z
LCC-SYS73-TASK-4903-75045	ACCOMPLISHED	2024-08-09T14:54:21.000Z	2024-08-11T14:54:21.000Z

Area Serial No.	BE Number (BEN)
ABC-56	BE-375
ABC-778	BE-529

JANES offline database visualization

- Reference data imported and used to populate data model for equipment, organizations and installations.
- Display metadata and a baseball card about any item in Janes.
- Greatly improves ability to conduct analysis on specific organizational units and perform ID of equipment.



The screenshot displays the JAMES Xplorer interface. On the left, a 3D model of a Su-27 fighter jet is shown. Below the model, a metadata table provides details about the aircraft:

End User Type	Government military
Manufactured By	JSC Aviation Holding Company Sukhoi
Operational Domain	Air
Role	Combat/offensive,Fighter,Attack

On the right, a search results table is displayed for the category 'Air' with the filter 'Su-27'. The table lists various Su-27 variants with their physical characteristics and roles:

Equipment Name	Height, overall (metre) ↓	Length, overall (metre)	Wing span (metre)	Landing run (metre)	Role	Operat
Su-27	5.93	21.94	14.7	620	Combat/offensive,Fighter,...	Air
Su-27SK					Combat/offensive,Fighter,...	Air
Su-27UB				700	Training,Trainer	Air
SU-27SMK				620	Combat/offensive,Fighter,...	Air

At the bottom right of the results table, it indicates 'Results per page: 10'.

Thank you