

# Edgybees® georegistration in the GXP® Ecosystem

Providing a single and reliable source of truth for geospatial positioning across video, imagery, and reference maps



While geospatial data is critical to enhanced situational awareness and decision-making, it is often compromised by distorted location data. Addressing this challenge, BAE Systems' Geospatial eXploitation Products™ (GXP®) integrates AI-powered Edgybees georegistration software to improve the accuracy of satellite imagery (with Edgybees SKY) and aerial video (with Edgybees MX) in real time. Seamlessly integrated into the GXP Ecosystem, this advanced technology enables automated integration of georegistered data into exploitation and analysis workflows, as well as existing data pipelines.



Raw satellite imagery

## Rapid georegistration

Rapidly register satellite imagery or aerial video improving the accuracy of the geopositioning metadata to enhance speed-to-decision workflows in the GXP Ecosystem. Edgybees Sky and MX ensure accurate and rapid processing for both satellite and FMV sources.



Ground Truth (reference)

## Accuracy and precision

Ensure satellite imagery accuracy within 2 pixels of actual positioning and FMV precision down to 1 meter accuracy. Edgybees georegistered data, combined with GXP's precise mensuration capabilities, delivers the mission-critical precision needed for timely and effective decision-making.



Accurately georegistered with Edgybees Sky

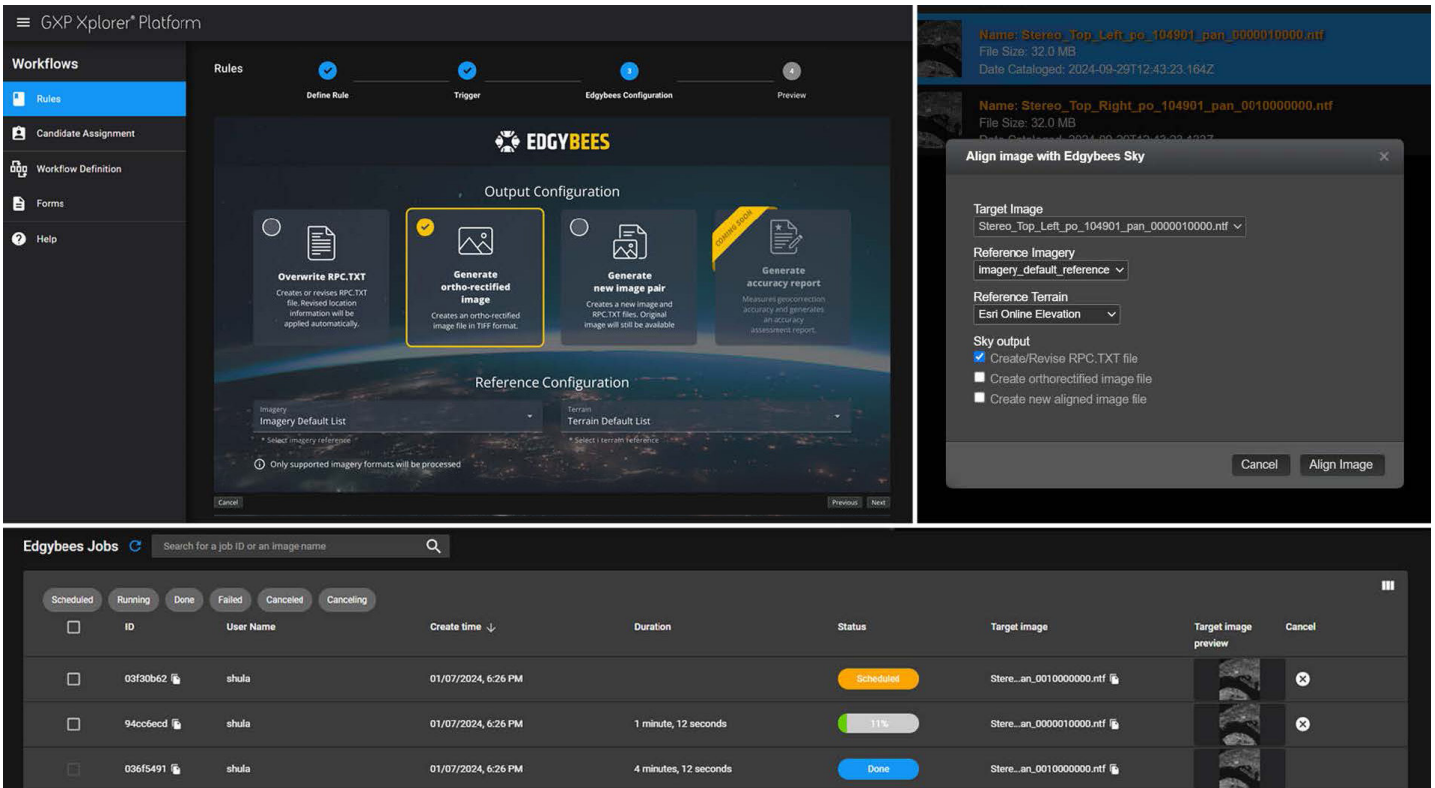
## Automated workflows

Either on-demand or as an automated data ingest workflow, Edgybees' image georegistration service can be initiated from GXP Explorer® on defined data sets, while GXP InMotion™ supports the updated UDP stream from Edgybees with KLV metadata, leveraging the near real-time processing of FMV data.

## Sensor and mode agnostic

Near real-time georegistration supports a variety of government and commercial satellite imagery, as well as both Electro-Optical (EO) and Infra-Red (IR) day/night payloads for FMV.

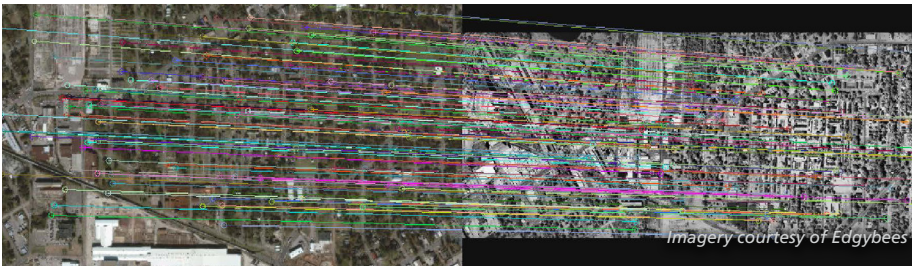




Visualization of the Edgybees Sky jobs management board within the GXP Xplorer Platform.



Maxar WorldView-3 satellite imagery correction from an 11m offset (left) to a 2m offset (right) using Edgybees Sky technology for improved accuracy.



Edgybees Sky automatically detects and aligns thousands of unique features between satellite frames and reference images using AI and machine learning, ensuring accurate image alignment.

## Integrating Edgybees technology into the GXP Ecosystem delivers:

- » **Superior image accuracy:** Achieve sub-pixel georectification, ensuring precise image alignment for critical analysis.
- » **Rapid image processing:** Process high-resolution images in minutes, boosting operational efficiency without compromising quality.
- » **Universal format support:** Seamlessly integrate common image formats for flexibility across various workflows.
- » **Advanced object detection:** Leverage our GXP Xplorer plugin for cutting-edge object detection and algorithms, enhancing analysis capabilities.
- » **Scalability and efficiency:** Optimize performance across diverse use cases, improving decision-making speed and accuracy.

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