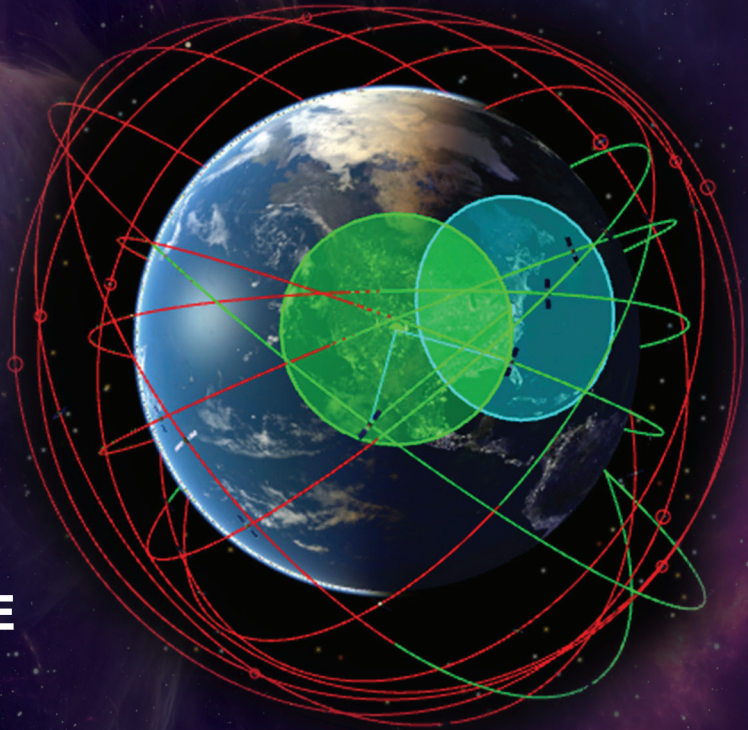




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OPTIMIZED MISSION PLANNING POWERED BY MISSION-ACCURATE FLIGHT DYNAMICS

This partnership between Auria and a.i. solutions connects two industry-leading tools with decades of operational experience across hundreds of missions, providing a scalable and reliable scheduling solution.

Astro Scheduler's optimization and deconfliction works seamlessly with FreeFlyer's automation-ready astrodynamics engine, creating a repeatable planning-to-operations pipeline. Automate daily or event-driven planning runs, rapidly re-plan when constraints change based on new priorities, asset availability, or outages, and move from schedule to validated outcomes without manual handoffs.

RAPID, OPTIMAL SCHEDULES

- ▶ Fast schedule optimization and deconfliction for complex problems.
- ▶ Comprehensive API and automation options (service mode, batch workflows).
- ▶ Flexible task and resource modeling including blackout periods and capacity tracking.
- ▶ Web-based UI for collaboration and schedule review.

PRECISE ASTRODYNAMICS MODELING

- ▶ Calculate accurate space and ground-based asset geometry with dependable software designed for continuous, stable operation.
- ▶ Native deployment on Windows and Linux.
- ▶ Adaptable to any mission requirements using FreeFlyer's powerful built-in scripting language.
- ▶ Solve fast, re-plan often, and scale effortlessly with parallel execution to handle complex analyses.
- ▶ Cost-Effective Value - achieve superior operational capabilities and maximize your software budget.

ASTRO SCHEDULER AND FREEFLYER COMBINES TWO TOOLS WITH DECADES OF HERITAGE AND RIGOR FOR THE MOST POWERFUL, ACCURATE, AND RELIABLE SCHEDULING SOLUTION.

ASTRO SCHEDULER & FREEFLYER: MISSION SPOTLIGHTS

SENSOR-TO-SHOOTER

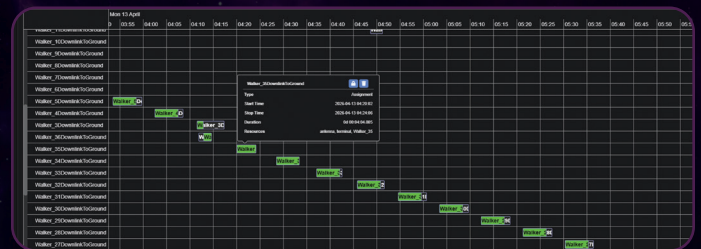
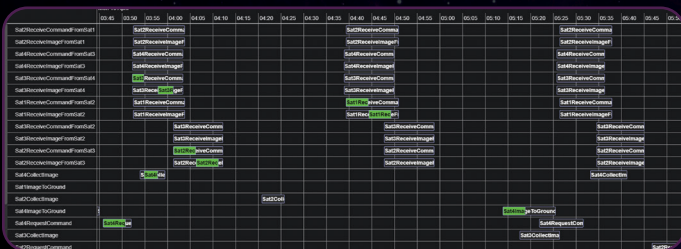
Astro Scheduler with FreeFlyer can model complex, constraint-heavy schedules that are driven by dynamic mission geometry.

FreeFlyer models the full orbit between a small LEO constellation of sensing assets and a shooter asset on the ground, generating time-tagged communication and collection opportunities. Those sensing opportunities in Astro Scheduler can rapidly deconflict tasks and minimize the time to provide the shooter with the best possible image of the target.

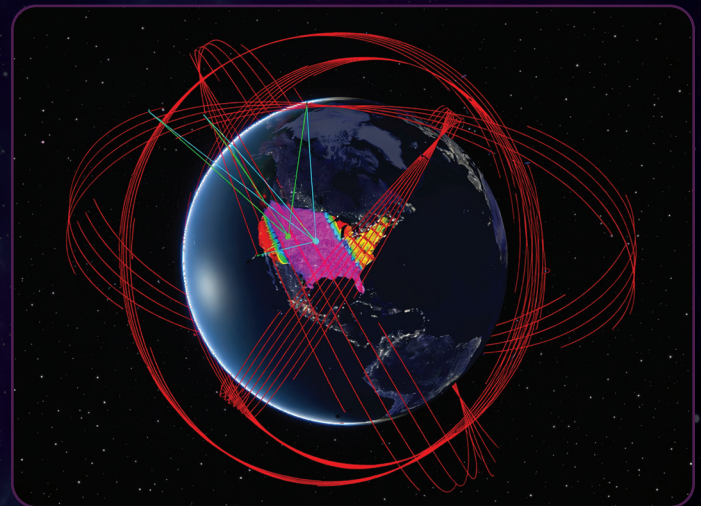
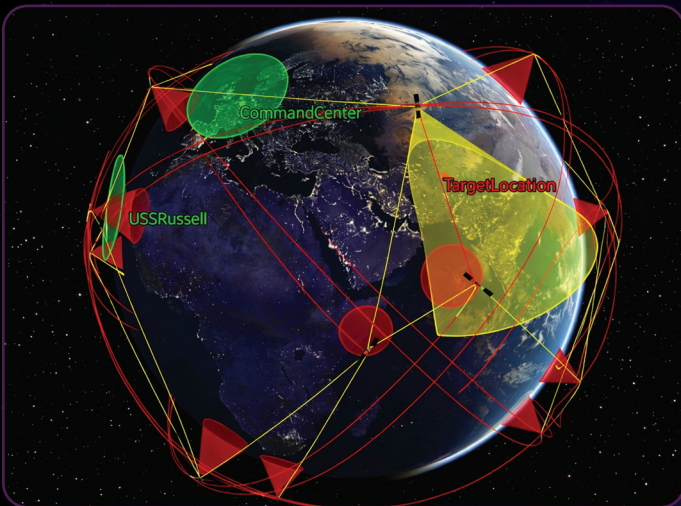
CONSTELLATION COMMUNICATIONS

Astro Scheduler with FreeFlyer provides scalability and throughput for large planning runs that remain repeatable and automation friendly.

FreeFlyer generates and propagates an LEO constellation, using its high-fidelity models to calculate access windows to multiple ground stations. Astro Scheduler ingests those opportunities and creates the optimal schedule. This automated capability runs at scale, with visualizations and reports for immediate execution or high-level operator review.



Optimized schedule creation by Astro Scheduler



3D visualization of space assets and communication paths by FreeFlyer



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