

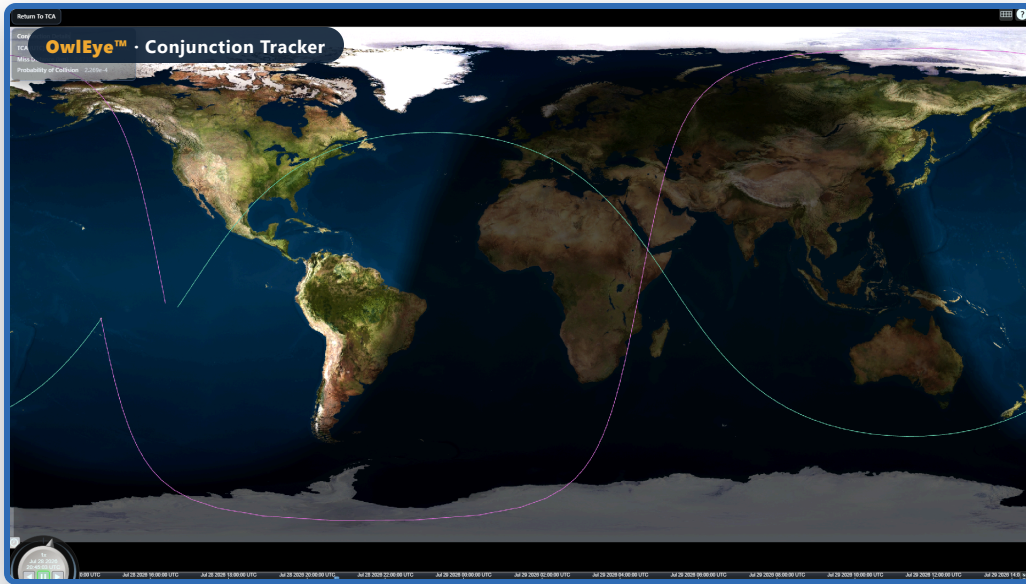


CONJUNCTION ASSESSMENT

for Operators of
Space Satellites

Know your collision risk — before you maneuver.

OwlEye™ is a real-time, SaaS conjunction-assessment platform that turns the constant stream of official screening data into a clear, ranked picture of collision risk — from a single spacecraft to a full constellation. **NASA CARA-aligned** and built by Omitron on 40+ years of mission-operations heritage. Run it standalone, or as **Iron OwlEye™** within the Iron Citadel™ suite.



NASA CARA-aligned

Analysis follows established conjunction-assessment risk guidelines your team already trusts.

Automatic CDM ingestion

Conjunction Data Messages from the USSF Space Defense Squadron flow in automatically.

Refined probability of collision

Pc recomputed from your current state & covariance — current, never stale.

Fleet-wide, one view

Rank and screen risk across the entire fleet, highest-interest events first.

Standalone or in the suite

Full capability on its own — or as Iron OwlEye™ inside Iron Citadel™.

SEE THE RISK. ACT WITH CONFIDENCE.

OwlEye™ doesn't just flag conjunctions — it makes the risk decision clear. It ingests official screening data, recomputes probability of collision with your own orbit knowledge, cross-checks it independently, and rolls the whole fleet into risk-focused 2D/3D dashboards — so operators move from alert to a defensible maneuver decision in minutes, with the confidence behind every number in plain view.

WHAT SETS OWLEYE™ APART

An independent second opinion

Recomputes Pc from your own state & covariance — not just the number that arrived in the CDM.

Confidence you can audit

Exposes tracking-observation coverage and orbit-determination quality — how believable is each metric?

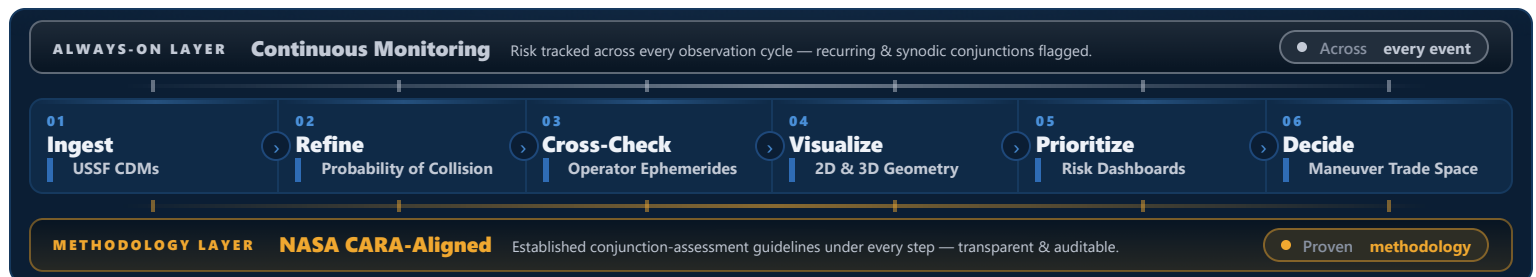
Beyond Pc alone

Relative-speed-vs-miss-distance and Pc-vs-time-to-TCA context shows how concerning an event really is.

Standalone-first, suite-ready

Complete on its own, with no dependencies — and also the collision-avoidance module of Iron Citadel™.

ONE PLATFORM FOR THE FULL CONJUNCTION-ASSESSMENT WORKFLOW



Omitron, Inc.

Web: www.omitron.com/owleye · Email: OwlEye@Omitron.us
Phone: 301-474-1700 · Scan or email to schedule a live demo



One platform. The complete conjunction-assessment workflow.

From automatic data ingest to a defensible maneuver decision — fleet-wide, in real time, with the confidence behind every number in view.

Conjunction Dashboard

MONITOR THE FLEET

Fleet-wide conjunction monitoring with a Summary Table that distills large data sets to high-interest events — filter with inequalities, plain-text search, and regex.

Conjunction Tracker

SEE THE GEOMETRY

Interactive 2D & 3D visualization of conjunction geometry and orbit patterns: select objects, zoom / pan / rotate, switch views, and control propagation speed.

Refined Pc Analytics

SHARPEN THE RISK

Recomputes probability of collision from current state and covariance information, so the risk you act on reflects the latest orbital knowledge — NASA CARA-aligned.

Independent Cross-Check

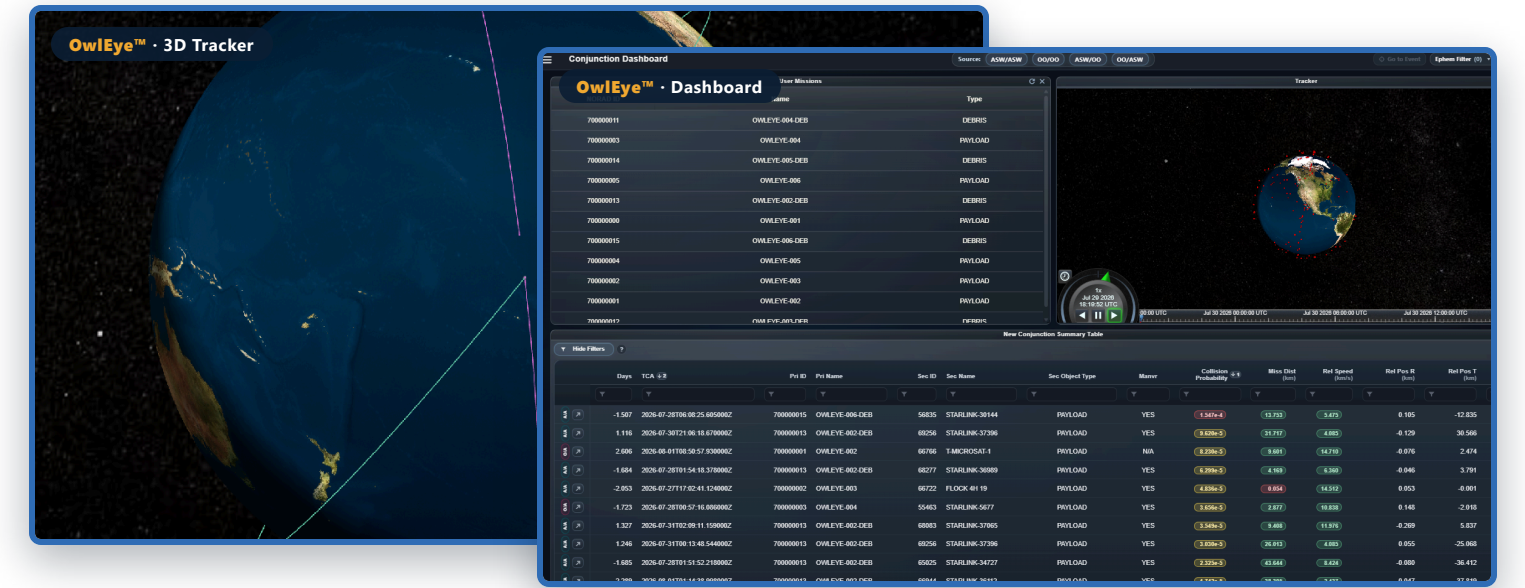
TRUST, BUT VERIFY

Compares conjunction predictions between your operator ephemerides and ASW systems — surfacing disagreements before they drive a maneuver decision.

Data-Confidence Insight

HOW BELIEVABLE?

Object-based accuracy plots measure the tracking-observation coverage, observation spans, and orbit-determination goodness-of-fit behind the risk metrics.



BUILT ON PROVEN METHODOLOGY

NASA CARA-aligned

USSF CDM ingestion

Operator ephemeris cross-check

Real-time SaaS

2D / 3D visualization

Fleet-scale screening

Observation-history transparency



STANDALONE — OR PART OF THE SUITE

OwlEye™ is also Iron OwlEye™ within Iron Citadel™

Run OwlEye™ on its own as a dedicated conjunction-assessment SaaS — no other tools required, no special setup. Or adopt it as the collision-avoidance module of Iron Citadel™, Omitron's integrated mission-operations suite, sharing one operator interface and data backbone with flight dynamics, planning, TT&C, and fleet operations. Integrations roll out in stages; OwlEye's standalone capability never depends on them.

BUILT FOR THE TEAMS THAT PROTECT THE MISSION

Commercial & NewSpace

Constellation operators who need to screen collision risk across a growing fleet — without standing up a flight-dynamics team.

Government & Defense

Programs that require an independent, auditable second opinion on conjunction risk and maneuver decisions.

Civil, Research & University

Teams who need professional-grade conjunction assessment and SSA without the operational overhead.



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