



Endurion

Pathfinder: Real Time Crime Center (RTCC)

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The Future of Mission Advantage

Real-Time Crime Centers are often built around separate systems that display live video, calls for service, alerts, vehicle detections, records, and sensor information. Each system performs its individual function well, yet the analyst is still responsible for manually connecting the data, identifying relationships, monitoring changes, and turning fragmented observations into an operational decision. This creates technical gaps between data visibility and actionable intelligence.

Pathfinder fills the gap by providing a unified operational intelligence layer for the RTCC. Pathfinder ingests approved data from public safety systems, geospatial sources, open-source reporting, mobility data, field devices, and RF sensors; normalizes that information; resolves entities and locations; identifies relationships and patterns; and delivers the results through a common operating picture, geofences, alerts, network views, routes, timelines, and analyst-ready products.

The platform expands the RTCC mission across the full operational lifecycle. Before an incident or planned event, Pathfinder establishes the intelligence baseline, maps vulnerabilities, monitors watch areas, and supports route and infrastructure analysis. During investigations, it correlates incoming events, identifies changes and anomalies, supports officer and asset safety, and enables governed dissemination. Afterward, it reconstructs the event, preserves source lineage, identifies trend analysis, and produces repeatable after-action products.

Interoperable Technology

Problem	RTCCs are challenged to transform fragmented data from separate systems into timely, actionable intelligence.
Solution	Pathfinder unifies multi-source data with geospatial, behavioral, network, RF, and automated alerting capabilities in one operational environment.
Outcome	Agencies gain faster threat detection, stronger investigative insights, improved coordination, and proactive situational awareness.

Pathfinders value: Pathfinder closes the gap between collecting information and understanding what it means. It gives RTCC analysts one environment to connect sources, reveal relationships, monitor behavior and movement, identify emerging risks, and communicate findings to the people working on the investigation.



Unified Intelligence
Integrates operational data into one platform



Advanced Analysis
Reveal connections of disparate data



Proactive Response
Delivers alerts and SMS before escalation



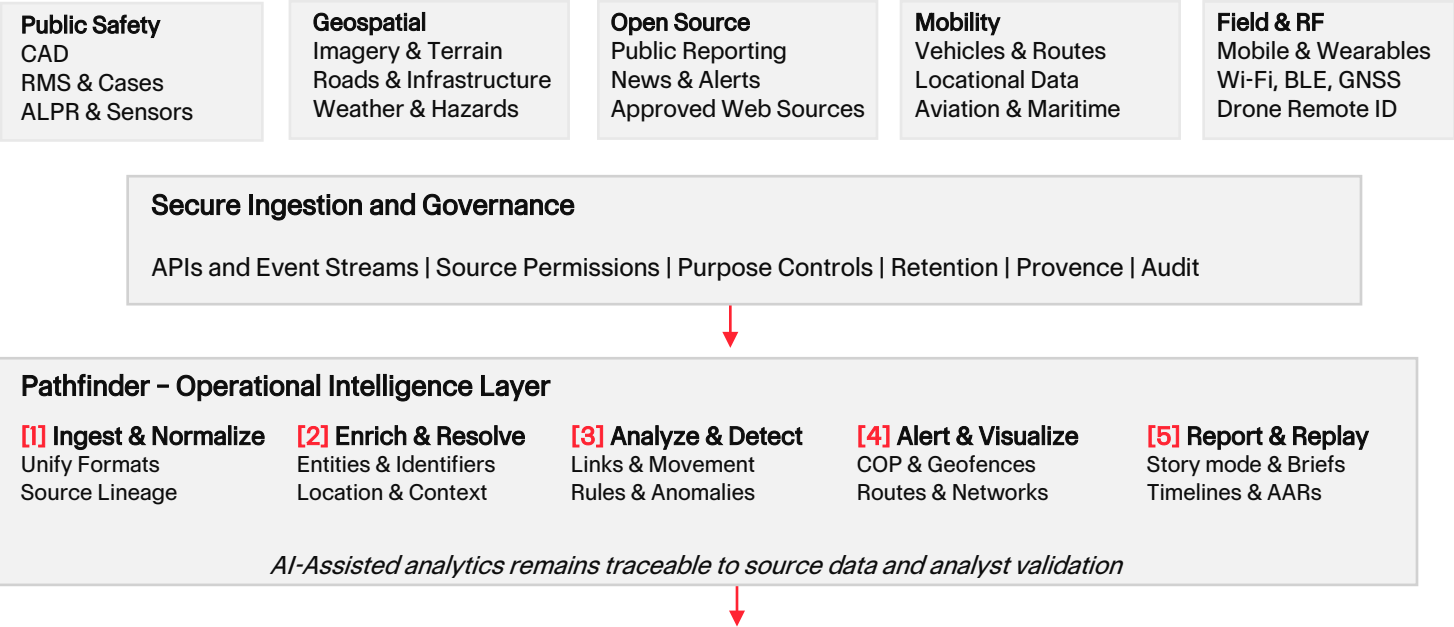
Pathfinder Overview

Pathfinder is designed as a data-agnostic, modular intelligence platform. Its role is to sit above approved source systems, preserve their authoritative records, and add the fusion and analytical capabilities required to support RTCC decision-making.

[1] Ingest and Normalize	Connect APIs, live event streams, files, sensors, and analyst observations; standardize time, location, identifiers, and metadata so results can be compared without erasing source differences.
[2] Enrich and Resolve	Add geospatial context, known-device matches, jurisdiction, infrastructure, weather, organization, and entity relationships; preserve alternate identities and confidence where a connection is uncertain.
[3] Analyze and Detect	Apply spatial, temporal, network, movement, rule-based, anomaly, and AI-assisted analysis to identify relevant relationships, changes, and operational indicators.
[4] Alert and Visualize	Display findings in the common operating picture, geospatial views, geofences, link charts, route replay, dashboards, and targeted alerts aligned to user roles and mission needs.
[5] Report and Learn	Convert validated analysis into briefings, Story Mode narratives, scheduled products, PDFs, presentations, timelines, and after-action reviews that remain traceable to source data.

Operating Model

Pathfinder connects data, stores relationships, and visualizes in real time to deliver decision-ready advantage





RTCC Analysts
COP, Alerts,
OSINT

Command Staff
Briefings &
Decisions

Investigators
Links, Routes,
Timelines

Partner Agencies
Governed Sharing

Field Teams
Warnings & Updates

Law Enforcement Use Cases

Violent Crime & Organized Theft

- Pathfinder can correlate incident locations, dates, vehicles, devices, associates, accounts, addresses, and common routes across cases. Link and temporal analysis can reveal recurring nodes, event sequences, and jurisdictional connections that are difficult to identify when each incident is reviewed independently.

Missing Persons & Search and Rescue

- The RTCC can combine the last known location, vehicle information, lawful mobility data, camera coverage, terrain, weather, hospitals, transit, crossings, public reporting, and co-traveler relationships. Pathfinder supports search-area prioritization, route analysis, proximity assessment, and continuing updates as new observations arrive.

Major Events & Multi-Agency Coordination

- Pathfinder provides an event-specific workspace for routes, infrastructure, staging areas, watch zones, relevant entities, public reporting, sensor coverage, scheduled monitoring, and partner products. The same workspace maintains continuity from planning through live operations and after-action review.

Proof of Concept

[1] Before an Event

- **Establishing the Operating Area:** Define boundaries, critical sites, infrastructure, access points, routes, hospitals, staging areas, and jurisdictional lines.
- **Build the Baseline:** Fuse historical incidents, relevant entities, approved open-source reporting, environmental conditions, and sensor coverage.
- **Create Watch Conditions:** Configure geofences, thresholds, scheduled checks, alert routing, and analyst review responsibilities.
- **Publish the Planning Product:** Use maps, routes, link views, timelines, and Story Mode to provide a shared intelligence picture.

[2] During an Event

- **Live Operational Updates:** Receive approved calls, alerts, detections, observations, field data, and partner information.
- **Correlate and Contextualize:** Connect the incident to relevant people, devices, vehicles, locations, prior events, routes, infrastructure, and external conditions.
- **Detect Change:** Evaluate geofences, movement, networks, RF observations, and anomaly rules against the established baseline.
- **Maintain the Operating Picture:** Update geofences, routes, watch conditions, and ask questions as the incident evolves.



[3] After an Event

- **Preserve Authoritative Records:** Maintain official calls, reports, evidence, and resource records in their designated systems.
- **Reconstruct the Event:** Assemble a source-linked timeline, route replay, alerts, decisions, observations, and external context.
- **Identify Follow-Up Intelligence:** Capture unresolved entities, networks, locations, partner leads, and monitoring requirements.
- **Automate the After-Action Report:** Export a reviewable narrative and metrics for investigation, training, policy, oversight, and future planning.

Interoperable Technology for Proactive Public Safety

RTCC white spaces exist between systems, time, observation and decision. These gaps occur when data remains isolated, live incidents lack historical context, entities and movement cannot be correlated across sources, wireless and device activity is missing from the operating picture, or events cannot be fully reconstructed afterward.

Pathfinder closes these gaps through a unified operational intelligence platform that fuses disparate data sources, preserves provenance, resolves entities, reveals networks, analyzes movement and behavior, integrates RF observations, enables proactive monitoring, and transforms validated findings into operational products. The result is an RTCC equipped to prepare for events, maintain and communicate situational awareness during response, support cross-jurisdictional investigations, and turn operational experience into institutional knowledge.

The Future of Mission Advantage.

