



Automated Incident Detection:

GoAID — Detect Incidents the Moment They Happen



GoAID is the automated incident detection engine of the GoATMS platform, continuously watching external feeds, on-network sensors, and AI camera vision to surface traffic incidents the instant they occur. It removes duplicates and groups related reports into a single detection — so operators see one actionable incident instead of a flood of raw notifications.

Every detection is built by a correlation engine that recognizes when separate alerts describe the same event, matching new reports to nearby active detections within a set distance and time window. As corroborating reports arrive, GoAID raises a confidence score, and each detection moves through a clear lifecycle — Active, Confirmed, Cleared, or False Positive — carrying road name, direction, jurisdiction, and severity.

GoAID does not run on a fixed timeline. Alert activity is the clock: a detection stays open as long as its source keeps reporting, and clears automatically once every associated alert expires. Configurable rules then bridge detections into the GoATMS events system, creating events with the right response mode for system, operator, or hybrid handling.

Built for traffic operations centers, GoAID manages alert sources, detections, alert history, event rules, and retention settings. It tracks per-source statistics, captures video evidence for camera-backed alerts, computes incident hotspots and performance metrics, and pushes detections to the live map — a faster, evidence-rich path from first report to coordinated response.

Automated Incident Detection Feature Highlights:

- Alert Correlation
- Automated Detection
- Event Automation

DETECTION SOURCES

EXTERNAL FEEDS	<i>Waze, WZDx work zones, NWS zone alerts</i>
AI CAMERA VISION	<i>CCTV hazard analysis: wrong-way, stalled, debris</i>
ON-NETWORK	<i>Baseline anomaly & queue formation detection</i>

CORRELATION & CONFIDENCE

ALERT MATCHING	<i>Spatial + time-window grouping, 500 m / 30 min</i>
CONFIDENCE SCORE	<i>0-10, boosted by corroborating reports</i>

DETECTION LIFECYCLE

STATUSES	<i>Active, Confirmed, Cleared, False Positive</i>
AUTO-CLEARING	<i>Clears when all associated alerts expire</i>

EVENT AUTOMATION

EVENT RULES	<i>Priority rules create events with response mode</i>
--------------------	--

** Correlation thresholds, polling rates, and retention durations are configurable; default values are shown.
 * External alert feeds connect through third-party feed access provisioned for the agency.*