

Signal Storm for Search & Rescue

Find Them Faster.

The environment you actually work in: remote terrain with no cell service, callouts at 2 a.m., volunteers arriving from three counties, a family waiting for news, a survival window measured in hours, and a coverage map that only exists on paper.

Signal Storm is the field coordination layer built to the **Watchman Doctrine** — designed for teams that operate where the network doesn't.

The Coordination Gap in a SAR Callout

- Callout comes from the sheriff; team leaders text volunteers
- Volunteers arrive at the trailhead over three hours; whoever's there first goes out
- Segments are assigned by radio, tracked on a laminated map
- UAV team operates on a different frequency and reports finds by phone
- Coverage gaps only become visible after the operation ends
- After-action reconstruction takes weeks — if it happens at all

The gap between “who is available” and “who is tasked to the right segment right now” is where subjects are found on day four instead of day one.

The Watchman Doctrine, Applied to SAR

See First	Last-known point + terrain + weather + probability-of-detection modeling in a single operational picture.
	Skills-based callouts (K-9, swiftwater, technical rope, medical) — targeted, acknowledged, and tracked.
	Segment assignment by team skill and proximity. Turn-by-turn to the trailhead, not just a pin. Coverage gaps visible in real time.
	Team location and vitals on the OCC's map. UAV detection feeds new tasks into the queue automatically.

What Signal Storm Delivers to a SAR Team

- **Skills-based callout** — target the K-9 unit, the swiftwater team, the rope crew — automatically
- **Real-time coverage map** — see gaps as they develop, not in the debrief
- **Terrain-aware routing** — trailheads, drainages, ridge access — not straight-line pins
- **Off-grid mesh** — Guardian radios and LoRa keep the picture alive above tree line
- **UAV integration** — detections auto-generate tasks routed to the nearest team
- **Multi-agency shared picture** — sheriff, park, mutual-aid teams see the same map
- **After-action in one query** — reconstruct the full timeline in minutes

Who at a SAR Org Buys This

Primary: SAR Coordinator / Team Leader **Champion:** Ops Officer or Comms Lead (the person who's tired of the radio patchwork) **Sponsor:** County Sheriff or Emergency Manager (often the funding source) **Approvers:** County commissioners for volunteer-org grants; board for 501(c)(3) SAR teams

Typical deployment size: **\$25K–\$100K/year** depending on team size, hardware needs, and integration with the sheriff's CAD.

Funding Pathways

- **County/sheriff operating budget** — SAR is often a sheriff's line item
 - **FEMA AFG** — communications and interoperability equipment eligible
 - **SHSP / UASI** — regional interop and preparedness
 - **DOI / NPS partnership funds** — for teams that respond in federal lands
 - **State SAR grants** — most states have SAR funds; check state EMA
 - **Foundation grants** — REI, Patagonia, and outdoor-industry foundations fund SAR teams
 - **Insurance / municipal risk pools** — some carriers credit documented SAR capabilities
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Proof of the Doctrine

Signal Storm's SAR deployment integrates: - **Person Mobility modeling** — terrain-aware search area prediction narrows the probability zone - **Coverage-gap analysis** in real time — the OCC sees what hasn't been searched, live - **UAV-to-task pipeline** — aerial detection auto-generates tasks in seconds - **Cross-agency operational picture** — sheriff, park, SAR, mutual-aid all see the same map

Every capability maps to a Watchman Doctrine tenet. If it doesn't map, it isn't in the platform.

The Next Step

We don't demo — we run a **live operational trial**. Bring your team, your terrain, your worst callout scenario. In one training exercise we'll show you what a doctrine-aligned coordination layer looks like in your environment.

Request an operational trial: signalstorm.io

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