

Product Requirements Document (PRD) — Survale MVP

Project: Survale – Real-Time Operational Coordination for Law Enforcement

Platform: iOS (iPhone + iPad)

Version: MVP v1.0

Prepared by: GPT-5 (Technical Spec)

Stakeholder: [Founder]

Mission & Overview:

Survale is a real-time coordination platform for law enforcement teams conducting field operations such as surveillance, apprehension, and intelligence gathering. The goal is to improve officer safety, situational awareness, and unit coordination through a secure, map-based application that allows small teams (8–10 officers) to track one another, share media, and document operations.

MVP Goals:

1. Live map view of all team members (<5m accuracy, 3–5s latency)
2. Case Agent creation and control of operations
3. In-app MMS chat with 7-day retention
4. Server-stored logs for replay/export
5. Privacy and data purge enforcement

Core Features:

- Apple Maps integration with vehicle icons
- Real-time updates and GPS tracking
- Operation creation, staging areas, and targets
- In-app MMS chat and media sharing
- After-action replay and PDF export
- 1km proximity alerts for other operations
- 7-day auto-purge and audit trail

Technical Stack (MVP):

Frontend: Swift + SwiftUI

Backend: Supabase (self-hosted, PostgreSQL + Realtime)

Custom Service: Node.js (PDF export, auto-end logic, proximity alerts)

Push: APNs or OneSignal

Hosting: Docker Compose on VM (TLS via Let's Encrypt)

Success Criteria:

- Location accuracy $\leq 5m$
- Smooth map updates ($\leq 5s$ latency)
- Operation export functional
- Stable for up to 10 concurrent users

Next Steps:

1. Finalize Architecture + Schema
2. Implement SwiftUI frontend
3. Deploy Supabase + Node backend
4. Conduct field pilot with 8–10 officers