



OLOL Tracker

Smart Live GPS, Fleet & Field Team Management Solution — Executive Enterprise Guide



1. Executive Summary & Core Value Proposition

OLOL Tracker is a modern, secure, and AI-supported Real-time Live GPS Tracking & Field Workforce Management System. It is specially engineered for businesses, field sales teams, recovery teams, delivery fleets, service technicians, and organizational teams to enable real-time monitoring, route optimization, and operational security.

100% Transparency (Sub-3s GPS)

Sub-3 second real-time GPS tracking telemetry for live position, speed, and status visibility 24x7.

⚡ Enhanced Productivity (Shift Compliance)

Automated work-shift, break compliance, and silent FCM remote ping infrastructure.

💰 Cost & Fuel Optimization (Road-Snapped)

Road-snapped route playback, stoppage history, and elimination of unauthorized detours.

🔒 Zero Data Loss (Offline Local DB)

Local SQLite cache with zero data loss and automated server sync on network restoration.

🌐 PWA Web App Portal (<https://www.ololtracker.com>) — Full Control from PC & Browser!

OLOL Tracker is engineered on advanced ****Progressive Web App (PWA)**** technology. Admins, managers, and members can access full platform functionality directly from any desktop, laptop, PC, Mac, iPhone, or iPad web browser by navigating to <https://www.ololtracker.com> without needing to install the Android app.

- **Complete Parity & Control:** Excluding initial account registration (which is handled via the Android app), the web app provides identical features—live GPS maps, group and member management, member approvals/rejections, geofence radius controls, over-speed alert monitoring, interactive route playback, and PDF/Excel report exporting.
- **Multi-Device Efficiency:** Monitor your entire field team simultaneously on large desktop monitors.

Keep your field teams connected, secure, and on course with **LOLO Tracker**.

- Precision GPS:** Real-time tracking for individuals & groups.
- Smart Geofencing:** Get automated alerts.
- Enterprise Security:** Data protection & permissions.

ADMIN REGISTRATION GUIDE

- 1. SELECT ROLE**
Select Admin to unlock organization controls
- 2. ORGANIZATION PROFILE**
Enter business name and setup workspace
- 3. EMAIL & OTP VERIFICATION**
Enter code sent to your email to verify domain
- 4. SECURE CREDENTIALS**
Set an encrypted password meeting corporate criteria

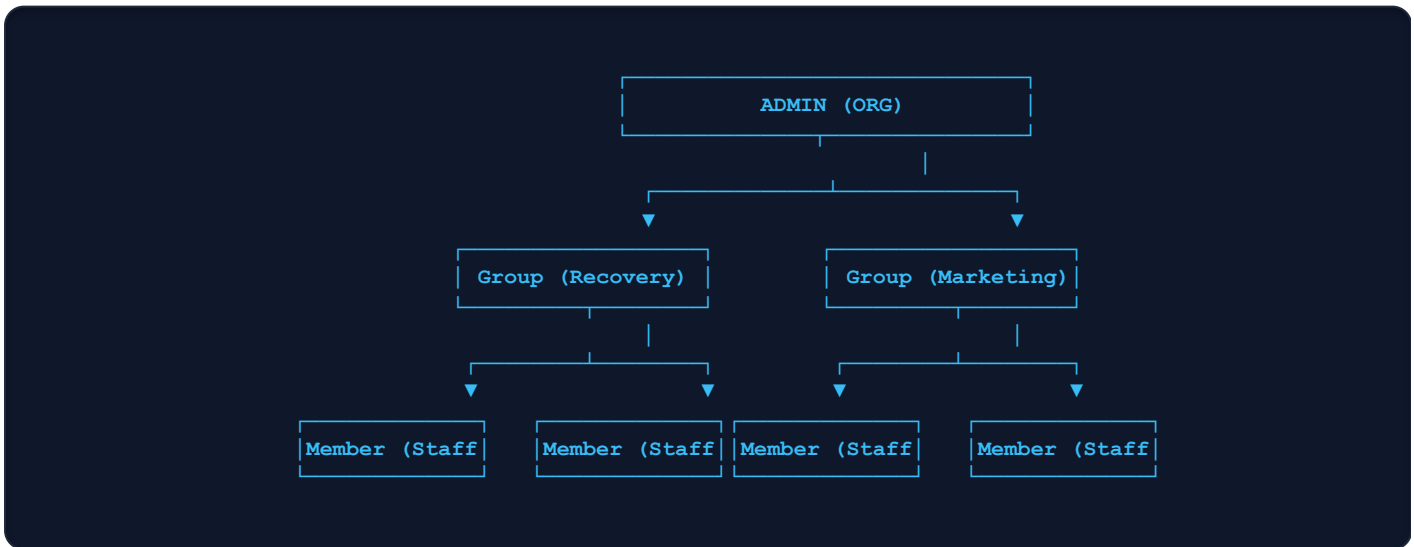
MEMBER REGISTRATION GUIDE

- 1. SELECT MEMBER**
Choose Member access to connect device
- 2. ENTER GROUP ID**
Input unique Group ID or invite code
- 3. VERIFICATION**
Confirm identity using the short-code OTP
- 4. JOIN WORKSPACE**
Grant location permissions to appear on team roster

SECURE LOGIN SCREEN

2. User Roles & Account Hierarchy

The application incorporates a robust Role-Based Access Control (RBAC) system to ensure strict data security and organizational hierarchy:



ADMIN (ORG) **Organization Admin:** Primary controller of the entire organization, departments/groups, member approvals, subscription validity (Validity Days), work shifts, and security policies.

Group (Recovery / Marketing) **Department Groups:** Functional workgroups created according to operational needs (e.g., Recovery Group, Marketing Group, Sales Group, Service Group).

Member (Staff) **Field Personnel / Staff:** Field agents or drivers who join their assigned group to stream real-time location data and follow personal work-shift schedules.

3. Onboarding, Registration & Password Recovery

- **Admin Registration:** Select 'Admin' role, input Organization Name, Name, Mobile, Email, and Password via the Android app to establish a new organization account.
- **Member Registration:** Select 'Member' role, enter the **Group ID Code** (e.g., GRP-829104) provided by the Admin, along with personal details.
- **Email OTP Verification:** Verifies a 6-digit cryptographic OTP sent to the user's registered email address.
- **Admin Approval Workflow:** Member accounts remain in Pending state until explicitly approved by the Admin.
- **Forgot Password:** Request a password reset via email OTP verification. Upon verification, a temporary password is sent to the registered email.

4. Live GPS Tracking & Route History Replay

- **Smooth Marker Animation:** Member map icons move fluidly without jitter or lag on Google Maps.
- **Live Diagnostics (Battery & Network Telemetry):** Displays current speed (km/h), motion status (Moving / Idle / Stopped), battery percentage & charging state, and network type with signal strength (4G/5G/Wi-Fi).
- **Route Replay (Road-Snapped Route History):** Select any past date to review historical movement routes rendered as an interactive Polyline Path with complete stoppage details.

5. Automated Attendance & Time Schedule Logic

To protect employee privacy and maintain work-life balance, OLOL Tracker incorporates an intelligent time-sensitive tracking engine:

- **Work Shift Hours:** Tracking operates strictly during configured shift hours (e.g., 09:00 AM to 06:00 PM). Overnight night shifts are fully supported.
- **Break Restrictions:** Tracking pauses automatically during Lunch Break (13:00 - 14:00) and Tea Break (16:00 - 16:15).
- **Weekend Off Days:** Tracking automatically pauses on configured off days (e.g., Sunday).
- **Special Holidays:** Tracking pauses on specific dates configured as official company holidays (YYYY-MM-DD).
- **Admin Exemption:** Admins and Super Admins are exempt from shift restrictions ("Admin Always Allowed").

6. Geofence Protection & Speed Limit Alerts

- **Geofence Radius:** Admins can set a center point on the map and define a radius in meters (e.g., 500m). Dispatches automatic ENTERED and EXITED alerts.
- **Over-Speed Alert:** Configurable maximum speed threshold (e.g., 80 km/h). Triggers instant Admin alerts with 1-minute anti-spam cooldown protection.

7. Reports, Data Exports & Offline Sync

- **PDF & Excel (.xls) Reports:** Generate and export Attendance (In/Out Time), Location History Logs, Speed Violations, and Geofence Movement logs in one click.
- **Offline SQLite Auto-Sync:** If cellular or Wi-Fi connectivity drops, location data is cached safely in the device's local SQLite database and automatically syncs when connectivity restores.

8. Enterprise Security Shield Architecture

Security Component	Technical Protection Mechanism
Anti-Root Protection	Detects rooted devices (/system/bin/su, Superuser.apk) and blocks execution to prevent data leakage.
Anti-Debugger & ADB Shield	Terminates app execution if ADB debugging tools are attached.
Anti-Frida / Anti-Xposed	Scans process memory maps (/proc/self/maps) to detect and block dynamic hooking frameworks.
Play Integrity API	Verifies Google Play binary authenticity and device environment integrity.
HMAC-SHA256 Signing	Every network API payload is signed with HMAC-SHA256 signatures (X-App-Signature, Nonce, Timestamp).
AES-256 Storage	Sensitive tokens and user sessions are stored using AES-256 EncryptedSharedPreferences.

9. Recommended Device Settings & Setup

1. **Internet Connection:** Active Mobile Data (Cellular) or Wi-Fi connection required.
2. **GPS Location:** Device Location/GPS switch must remain ON.
3. **Background Location Permission:** Set location permission to **"Allow all the time"**.
4. **Battery Saver Exemption:** Configure battery optimization to **"Unrestricted"**.
5. **Auto-Start Permission:** Enable "Auto-start" permission on OEMs such as Xiaomi, Vivo, Oppo, and Realme.

10. Frequently Asked Questions (Client FAQ)

Q1: Can I manage my team from a laptop or desktop without installing the app?

Answer: Yes! Simply open <https://www.ololtracker.com> in any browser to access the full PWA web application to track and manage your fleet.

Q2: Will location data be lost if there is no internet coverage?

Answer: No! Zero data loss with local SQLite caching that automatically syncs when internet restores.

Q3: Can an Admin deactivate an employee account instantly?

Answer: Yes. Admins can toggle any member's status to Deactivated. Deactivation immediately suspends the member's session and stops location tracking.

Q4: Is employee location tracked after work hours or during breaks?

Answer: No. To respect employee privacy, location tracking automatically pauses outside configured shift hours and during break periods.

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Official Web App: <https://www.ololtracker.com> | Support: care@ololtracker.com | Empowering Teams, Securing Families