Smartphone-Based GPS Tracking

Field Force Management | Digital Duty Attendance | Location Intelligence



Turn a smartphone into a GPS tracking solution.

Duty check-in and check-out with location and time records.

Shift-based tracking, client visit geofencing, route playback and mileage logs.

Designed for field sales executives, technicians, last-mile delivery riders and temporary or contract workers.

No dedicated vehicle tracker required.

Device & connectivity requirements

Operating systems	Android 10+; iOS 15+.
Hardware sensors	Built-in GNSS/GPS (A-GPS/GLONASS), accelerometer/gyroscope, functional cellular and Wi-Fi antennas.
Memory & storage	Minimum 3 GB RAM; at least 200 MB free storage for offline location caching.
Network	Active 4G/5G mobile data or reliable Wi-Fi; periodic sync on 3G; 4G+ recommended for live tracking.
Offline buffering	Cache GPS coordinates locally during network loss; automatically upload when connectivity returns.
Estimated data usage	15-50 MB/month per user at a 30-60 second update interval.

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Technical specifications & software

Tracking performance

Location accuracy	Typically 5-20 m outdoors with clear sky; 50-300+ m indoors or in dense urban areas using Wi-Fi/cell positioning.
Update frequency	Configurable 15 seconds to 5 minutes; adaptive tracking reduces updates when stationary.
Estimated battery impact	8-15% additional daily drain during an active 8-10 hour shift with optimized motion-triggered tracking.

Mandatory phone settings & permissions

Location	Allow all the time (Android) / Always (iOS); enable Precise Location.
Power management	Exempt app from Android battery optimization where supported; iOS background operation remains subject to OS restrictions.
Background connectivity	Enable background app refresh where applicable and mobile data; avoid data-saver restrictions.

Core software & privacy features

Duty-based tracking	Start/stop shift or duty status toggle; tracking intended only during working hours.
Tamper & status alerts	Dashboard flags for GPS disabled, mobile data disabled, mock locations or mid-shift logout, when detectable. Offline alerts may be delayed.
Functional modules	Geofencing and client visit check-in/out, route playback, distance/mileage logs for reimbursement, proof of delivery (photo/signature capture).
Security & privacy	TLS encryption in transit, role-based access control and explicit consent prompts designed to align with applicable privacy laws, including India’s DPDP Act.

Operational limitations

Unlike hardwired trackers, the app cannot read engine or fuel data. Tracking depends on a charged, powered-on phone and may stop if the app is force-closed or airplane mode is enabled. Performance estimates vary by handset, environment, settings and network.

For more information or Sales related queries, please contact W2track Team & visit us at www.w2track.com

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