

FLEET MANAGEMENT AND TRACKING





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CTrack's Fleet Management and Tracking packages have been designed for a variety of fleet sizes offering differing levels of functionality and protection. Utilising GPS satellite positioning and GSM cellular communication, *CTrack* offers advanced telematic information and fleet management services. *CTrack* products address the challenges associated with optimising the reliability and efficiency of the modern fleet, and are based on more than 25 years of global fleet management expertise.

Today's *CTrack* Fleet Management products use our new iS series hardware platform and are all remotely upgradeable.

CTrack Fleet Management systems provide real-time information - easily accessed through mobile, tablet and desktop devices to measure and realise a multitude of business benefits that regularly include:

- Operational control and management features that deliver cost savings, create efficiencies and contribute to increases in customer service.
- Safety and security devices for legislative compliance and the protection of employees and assets.

- Productivity measures that will contribute towards profitability.
- Driver behaviour monitoring that promotes effective driving styles to reduce fuel consumption and overall vehicle maintenance and service costs.
- Green reporting on environmental factors such as carbon emissions and fuel reduction.

CTrack systems are built with intelligent sensors including a highly sensitive 50-channel GPS and a powerful accelerometer to provide valuable driving intelligence, including harsh acceleration, harsh braking, harsh cornering, over-speeding, harsh bumps and excessive idling. Vehicle and fleet information is then accessed through *CTrack's* software applications *CTrack* Mobi, *CTrack* Online and *CTrack* MaXx.

In addition to our comprehensive range of *CTrack* Fleet Management systems profiled in this brochure we have developed a number of industry specific solutions. These tend to be more specialised solutions e.g. in high value asset transport applications and programmable logic controllers for monitoring health and safety of equipment and personnel across these industries.



PRODUCTS

insure[®]

Crack Insure is the insurance-approved, usually with reduced premiums, essential vehicle tracking and monitoring system developed for the private and commercial sector. *Crack Insure* includes alerts in the event of battery or system tampering, border approach notification and international recovery.

secure[®]

Crack Secure is a proactive vehicle tracking system for small business owners who seek complete visibility and control over their vehicles. *Crack Secure* features an automatically updated business/private logbook, trip replay, area alerts and an optional remote panic button.

Used in conjunction with *Crack's* management software solutions, information such as vehicle locations and details on map, business/private trip reporting and replays give business owners visibility and control.

lite[®]

Crack Lite is an entry level vehicle tracking and fleet management system specifically for small and medium sized businesses - providing driver behaviour information and full status reports such as over speeding, harsh braking and excessive idling. The system has a comprehensive range of security and tamper alerts and notifications including strong area and zone management functionalities.

assist[®]

Crack Assist is the vehicle tracking and management system used for light commercial, sales, FML, car rental and security vehicles. A specific feature is the driver ID, which enables *Crack Assist* to provide individual driver activity and behaviour. An optional in-cab driver behaviour indicator (DBI) provides real-time driver interaction to proactively improve safer and more efficient driving.

Crack Assist enables better operational efficiencies and a reduction in vehicle life cycle costs by utilising additional inputs and outputs for 3rd party applications.

solo[®]

Crack Solo is a full featured, scalable, remotely upgradeable mobile solution developed for the tracking and management of professional hauliers, logistics and supply chain management, mobile workforce management, mining, public transport and emergency services.

In addition to recording vehicle status, location and trip information, *Crack Solo*, also proactively assists the driver to remain within the set parameters for safe and economical vehicle use. This is achieved by an audible pre-warning and continuous violation alarm. These exceptions are also reported to *Crack* software users and recorded for further analysis in the *Crack* management software.

Crack Solo features several digital inputs and outputs, which may be used to monitor and control peripheral auxiliaries such as PTO, driver and or passenger door opening, seat belt engagements, sirens and actuators. Peripheral 3rd party devices such as barcode scanners, satellite navigation units, fuel level indicators, temperature loggers, onboard weighing systems and fare collection solutions can be integrated to add further value to this fleet management system.

When integrated to a driver terminal device a comprehensive task management system is enabled, which includes two way communication, navigation and driver identification. Task or job instructions such as job number, description, job location, job to be completed and action required are received from the *Crack* software.

A wide range of reports, including Tacho Analysis, Daily Usage, Graphic Usage, Movement, Fleet Emission, Driver Licence, Vehicle Maintenance, Fuel Summary and GYR Driver Rating are generated using the server based *Crack MaXx* software.

wireless[®]

Crack Wireless is a GSM and GPS battery-powered tracking system that requires no installation effort and reports activity for extended periods of time without the need for an external power source.

This re-deployable tracking system is available in rechargeable and non-rechargeable versions that are quick to deploy – making it ideal for tracking mobile resources such as vehicles, containers, palletised loads and other valuable cargo.



PRODUCT COMPARISON

• Standard ○ Optional + Configurable

GENERAL	insure [®]	secure [®]	lite [®]	assist [®]	solo [®]	wireless [®]
Stolen Vehicle Support	-	-	-	-	-	○
Vehicle Location (Polling)	-	-	-	-	-	+
Full Track and Trace	-	-	-	-	-	-
RoadTrack™	-	-	-	-	-	-
Daily Health Check	-	-	-	-	-	-
Over the Air (OTA) Diagnostics	-	-	-	-	-	-
SAFETY AND SECURITY						
Panic Alarm	-	○	-	-	-	-
E-Panic Alarm	-	-	-	-	-	-
System Tamper Alarms	-	-	-	-	-	-
Remote Immobiliser	-	○	○	○	○	-
Tamper Immobiliser	-	○	○	○	○	-
Power Alarms	-	-	-	-	-	-
Unauthorised Movement	-	-	-	-	-	○
WatchMode™	-	-	-	-	-	-
Crash and Rollover Detection	-	-	-	-	-	-
Crash and Incident Reporting	-	-	-	-	-	-
BorderGuard™	-	-	-	-	-	+
DRIVER BEHAVIOUR						
ABC'S	-	-	-	-	-	+
Driver Behaviour Indicator (DBI)	-	-	○	○	○	-
Tacho (RPM and Green Band)	-	-	-	-	-	-
OPERATIONAL CONTROL AND PRODUCTIVITY						
Trip Start Detection	-	-	-	-	-	-
Area Management	-	-	-	-	-	+
Route Monitoring	-	-	-	-	-	+
Management Reports	-	-	-	-	-	-
Business/Private (remote optional)	-	-	-	-	-	-
Driver ID Key	-	-	-	-	-	-
DIRECT INPUTS, OUTPUTS AND SENSORS						
Accelerometer (3 axis)	-	-	-	-	-	-
CANBUS (J1939)	-	-	-	-	-	-
Generic RS232 (3rd Party)	-	-	-	-	-	-
Input Voltage (8v-32v)	-	-	-	-	-	-
Generic Input	-	-	-	-	-	-
Generic Output	-	-	-	-	-	-
SOFTWARE SOLUTIONS						
Ctrack Mobi	-	-	-	-	-	-
Ctrack Online	-	-	-	-	-	-
Ctrack MaXx	-	○	○	○	○	○
Ctrack FleetConnect	-	○	○	○	○	○

FEATURES DEFINED

General

- **Stolen Vehicle Support**
Assistance provided in searching for a stolen or missing vehicle.
- **Vehicle Location (Polling)**
Access vehicle location via SMS from an authorised mobile phone.
- **Full Track and Trace**
The system records position at predefined intervals, allowing you to view a trail of vehicle movement.
- **RoadTrack™**
Records positional data every time the vehicle changes direction e.g. cornering.
- **Daily Health Check**
Automatically ensures that the system is fully operational, every day - complete with daily movement summary.
- **Over the Air (OTA) Diagnostics**
Remote system diagnostics and firmware upgrades.

Safety and Security

- **Panic Alarm**
An SOS emergency alarm that can be activated via remote or wired button.
- **E-Panic Alarm**
An SOS emergency alarm that can be activated via mobile phone.
- **System Tamper Alarms**
Alerts you when GSM jamming, box tampering or GPS interference is detected.
- **Remote Immobiliser**
Allows you to remotely shut down a vehicle, when needed.
- **Tamper Immobiliser**
Automatically shuts down a vehicle when specific tampering is detected. (User defined).
- **Power Alarms**
Alerts you when power is disconnected, or when either the internal or vehicle battery level is low.
- **Unauthorised Movement**
Notifies you when a vehicle moves while the ignition is switched off – such as when it's being towed.
- **WatchMode™**
Self activated feature that monitors and alerts via SMS of any vehicle movement.
- **Crash and Rollover Detection**
Specific safety sensors will alert in the case of vehicle crashes and rollovers.
- **Crash and Incident Reporting**
Downloadable crash and incident data from *Crack MaXx*.
- **BorderGuard™**
Alerts when vehicle approaches a country's border.

Driver Behaviour

- **ABC'S**
Allows you to monitor acceleration, braking, cornering, over-speeding as well as harsh bumps and excessive idling.
- **Driver Behaviour Indicator (DBI)**
This in-cab device gives real-time driver behaviour feedback, encouraging drivers to improve their driving style on the go.
- **Tacho (RPM and Green Band)**
Provides valuable tachograph data, including: RPM, green band driving, speed, idling and more.
- **On the Road™**
The complete onboard system that saves time and money through navigation, optimal routing and better driver behaviour.

Operational Control and Productivity

- **Trip Start Detection**
Records vehicle movement or ignition-on input to determine when a trip starts.
- **Area Management**
Allows you to configure preferred areas, no-go areas and waypoints for geo-fencing.
- **Route Monitoring**
Static and timed route management.
- **Reports**
Backend and web based reporting on multiple fleet aspects.
- **Business/Private**
Records business/private trips with optional remote switch (privacy mode available).
- **Driver Identification**
Dallas ID key or cCom pin (cCom device required) to allow individual driver recognition which enables monitoring of driver performance and productivity.

Software Solutions

- **Crack Mobi**
A mobile application that provides instant access to our vehicle tracking technology from a smartphone or tablet.
- **Crack Online**
Zero footprint web application for internet tracking.
- **Crack MaXx**
Server based software solution ideal for large to enterprise sized fleets.
- **FleetConnect Software Suite**
An intelligent Fleet Management solution with which fleet owners can manage fuel usage, licence renewals and traffic offences as well as toll fees, vehicle service schedules and any other aspect to their fleet.



FLEET MANAGEMENT PERIPHERALS

Driver Terminal Devices

- **cCom**
Crack cCom is an in-cab display for navigation and displays warning messages should a driver exceed speed, RPM or idling time parameters.
- **On the Road**
Crack On the Road is a complete onboard navigation and logistics system that helps fleet operators save time and money through advanced navigation, optimal routing, constant communication with drivers and better driving behaviour.
- **Text Communication**
Free or predefined text messages may be sent back and forth between the *Crack* Management Software and the driver via the Driver Terminal device.
- **Driver Behaviour Indicator (DBI)**
Crack DBI is an in-vehicle device that promotes better driving behaviour through a series of green, amber and red warning lights that instantly alert drivers of any infringements. This brings about fuel savings, lower CO₂ emissions and lower vehicle maintenance costs.



Intelligent Solutions



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