FLEET MANAGEMENT AND TRACKING SOLUTIONS
Always Visible
This brochure gives an overview of all Ctrack Fleet Management and Tracking solutions, and also provides more information on the real-time visibility software that works with Ctrack products to offer complete fleet solutions.

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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 real-time visibility 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.
Ctrack Secure is a proactive vehicle tracking system for small business owners who seek complete visibility and control over their vehicles. Ctrack Secure features an automatically updated business/private logbook, trip replay, area alerts and an optional remote panic button. Used in conjunction with Ctrack’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.

Ctrack 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, Ctrack 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 Ctrack software users and recorded for further analysis in the Ctrack management software.

Ctrack 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 Ctrack 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 Ctrack MaXx software.

Ctrack 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.
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PRODUCT 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**
  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 Alarm**
  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 Ctrack MoXx.
- **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.
- **Tocho (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**

- **Ctrack Mobi ™**
  A mobile application that provides instant access to our vehicle tracking technology from a smartphone or tablet.
- **Ctrack Online™**
  Zero footprint web application for internet tracking.
- **Ctrack MoXx™**
  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.

*See the Real-time Visibility Software section for more information.

FLEET MANAGEMENT PERIPHERALS

**Driver Terminal Devices**

- **cCom**
  Ctrack 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™**
  Ctrack 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 Ctrack Management Software and the device via the Driver Terminal device.
- **Driver Behaviour Indicator (DBI)**
  Ctrack 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.
Ctrack Online is a zero footprint internet based vehicle tracking and reporting application, with no software installation requirements, which gives businesses a real-time visibility and control tool to manage their fleet operations. Measureable business benefits ranging from reducing fleet running costs, boosting resource productivity to raising the level of customer service will be derived from using this application.

Furthermore, the software requires no downloads. Ctrack Online is suitable for fleets of all sizes, providing immediate operational benefits and financial returns. Information on vehicles, drivers, points of interest, geo-zones, general businesses, addresses and tasks are all available within Ctrack Online.

Using mapping such as Google, Nokia, Tele Atlas and Digital Globe, Ctrack Online enables a variety of viewing options to monitor multiple and individual vehicles in normal, terrain and satellite views (with labels) as well as access to live traffic flow information and journey directions.

No-go, preferred and waypoint geo-zones may be created to trigger email and SMS alerts regarding unauthorised vehicle movements into or out of predefined areas.

Making use of Ctrack Online, dispatch and schedule tasks may be effectively allocated to drivers by identifying the nearest vehicles to a job and selecting the appropriate employee based on required skill set. And via quick route calculations, distance and expected travel time can be displayed. Trip replays analysed with comparison overlaying map feature that monitors vehicle journeys on the map to identify job allocation issues and areas of improvement to increase jobs per week and maintain customer service.
Many leading companies are already choosing Ctrack MaXx to boost fleet performance and gain valuable business insight. Ctrack MaXx is a powerful management tool that combines advanced vehicle tracking with one of the most sophisticated business analysis packages currently available in the marketplace.

Not only does the system enable companies to better manage their fleet operations through improved visibility and control, but it also unlocks valuable knowledge to support:

- Business Transformation
- Change Management
- Innovation and Idea Management
- Trend Analysis
- Business Group and Cost Centre Analysis
- Automated Reporting Procedures

One of the key features of the Ctrack MaXx software is that all Ctrack systems report to one software platform allowing the management of all systems in one application. And because Ctrack MaXx adheres to all the latest industry technologies such as 64-bit computer processors, Windows Vista, Windows 7 and Microsoft SQL 2008 - system compatibility is seldom an issue.

Using Ctrack MaXx, companies can gain valuable insight into the needs and challenges of their business by understanding all aspects of fleet, driver and vehicle activity. This in-depth analysis can identify areas of improvement that can save time and money, as well as boost business and operational performance.

**BENEFITS**

**Fleet and Workflow Management**

- Identify nearest vehicles to a job based on status, skill set or available time and dispatch appropriate employee using a Ctrack cCom in-vehicle console.
- Integrate Ctrack MaXx with existing planning and scheduling tool to automate job allocation processes.
- Implement passive and proactive area management with the creation of geo-zones and points of interest to personalise the tracking tool and receive status alerts regarding key vehicle movements.

**Advanced Vehicle Tracking**

- Achieve added visibility and control by knowing the exact location and status of employees and vehicles in real time.
- Gain real advantage by driving down fleet running costs, boosting resource productivity and improving customer service.
- Enhance fleet performance by reducing fuel consumption, validating overtime claims, eliminating unauthorised vehicle use, achieving more per day, supporting environmental compliance, and increasing security.

**Business Analysis**

- Generate, schedule and issue many different management reports, with a range of flexible delivery options and easy to understand graph and table formats.
- Effectively analyse operational data, so critical business intelligence can be quickly shared across an organisation.
- Access a top level overview of key performance areas using an intelligent dashboard application that drills down to whatever level of detail is required to easily identify areas of under performance.
- Replay journeys for analysis of specific vehicle movements including route, ‘green band’ driving, RPM and speed in grid and map format.

**Business Centre and Cost Centre Support Configurability**

- Use Business Groups and Costs Centres to partition employees, vehicles and system users to mirror the hierarchical and operational structure of the organisation.
- A server-based system for organisations that want to manage operational real-time data locally for easy interfacing to 3rd party teams and bespoke reporting.
- Remotely access the in-vehicle unit to configure settings without the need for a physical diagnostic test.

**ADDITIONAL FEATURES**

### MaXx Data Warehouse

Through industry/market investigations and research, we also included the option to install a data warehouse with the Ctrack MaXx software.

**Key features**

- Star Schema data warehouse structure: Fact and Dimension tables are industry best practices.
- Industry standardisation resulted in Cube Friendly Ctrack MaXx data warehouse. This feature will allow future expansion of dashboards and management information.
- The Ctrack MaXx data warehouse makes use of an ETL (Extract, Translate and Load) process to extract the Ctrack data from the existing MS SQL database. The ETL process is currently configured to execute once a day.

**Benefits**

- Speed of data retrieval. Months’ worth of data is quickly displayed for management purposes.
- Highly scalable (fleet size). Small fleets to enterprise fleets containing more than 5000 vehicles can utilise the data warehouse.
- The data warehouse contains normalised and summarised Ctrack information. This will allow 3rd parties to interface much more easily with Ctrack information for their own report generation.

### MaXx Executive Dashboard

Ctrack MaXx offers an executive dashboard option where information, which is contained in the data warehouse and has been through the ETL process, is displayed in dashboard format.

The KPIs (Key Performance Areas) with their KPIs (Key Performance Indicators) have been provided based on our market experience and research. The Ctrack MaXx executive dashboard is generated through MS SQL 2008 reporting services.
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<td>Driver Behaviour</td>
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<td>Green Driving</td>
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SOFTWARE FEATURES DEFINED

**Visibility and Control**

- **Vehicle Polling**
  Remotely access information relating to the location of the vehicle.
- **View Vehicle on Map**
  Indicates the location and status of the vehicle on a map.
- **View Vehicle List**
  Shows the vehicles currently operational in an area.
- **View Trip History on Map**
  Indicates the trip history of a vehicle on a map.
- **Organisational Hierarchy Support Structure**
  The partitioning of employees, vehicles, assets and system users to mirror the hierarchical and operational structure of the organisation and its cost centres.

**Driver Behaviour**

- **Driving Information**
  Indicating the style of driving.
- **Driver Information**
  Indicates the profile of the current driver (age, name, skills etc.).
- **Interactive Tacho Analysis**
  Displays a vehicle’s speed and RPM on a time sealed grid sampled at 10 second intervals.

**Operational Control and Productivity**

- **Multiple Managing Reports with Scheduling**
  Provides multiple reports on the status and efficiency relative to scheduling requirements.
- **Mobile Resource Management**
  Connected via navigation and in-cab display.
- **Remote Area Management (Geo-zones)**
  Displays preferred routes along with waypoints and no-go zones.
- **Route Monitoring**
  Indicates static and scheduled route management.
- **Executive Dashboards**
  Including KPIs and trend analysis.
- **Automated Scheduling Reporting**
  Reports can be scheduled to automatically take place during predetermined times.

**Reporting**

- **Safety**
  Speed violations, harsh braking, panic button, off route and seat belt indicators.
- **Security**
  Includes panic button, battery tamper, no-go area, preferred area and off route indicators.
- **Productivity**
  Helps to identify late starters and early finishers. (Derived from working hours.)
- **Driver Behaviour**
  Includes speed violations, over-revving, harsh braking, harsh acceleration, harsh cornering and excessive idling indicators. These are all rated.
- **Green Driving**
  Speed violations, over-revving, excessive idling and fuel used. (Fuel measured from CANBUS or fuel flow meter.)
Ctrack is a globally renowned company that offers specific solutions for clients and various industries in order to keep vehicles, trucks and fleet operations always visible.

Through the power of Ctrack technologies and constant product innovation both in Vehicle Tracking and Fleet Management, Ctrack can rightly claim to be a provider of Intelligent Solutions.

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