GFleet Enterprise - For Global Fleet Management

Global Fleet Enterprise ("**GFleet**") is GT&T's core fleet management product for fleet owners and service providers. Imagine an organization that has the majority of its businesses on the road. Although the deployment of its transportation resources may be based on years of experience, the organization will not be able to improve on its efficiency without an integrated management system. The lack of effective fleet control can cost up to millions of dollars yearly; the organization will lose its competitive edge to other competitors who are able to offer lower prices, better coverage and speedier services. **GFleet™**, an all-purpose Fleet Management System suitable for any fleet size, is the solution for forward-looking fleet owners and service operators.

Users will be able to use GFleet as the core of their transportation management system either in the form of a Control and Command Centre or a customer-centric call centre. **GFleet™** also provides various modules to enhance operational efficiency and integrate **external systems** and **sensors**.

GFleet platform is a well-architected platform by a team experienced in embedded and systems technologies with years of domain knowledge in various sectors of transportation, notably in public transit, school bussing, waste collection and taxi dispatch. Using .NET technologies such as C#, .NET Framework and Microsoft SQL Server and concepts of message queueing, multi-threading and protocol compression, GFleet is a highly scalable and robust 24x7 fleet solution. The largest implementation supports 6000 vehicles and 100 users on a Pentium 2.4 GHz server with 8 GB of RAM.

Because of its pedigree, GFleet is also the base engine for GT&T's other products: **GSchool**, a school bus tracking and management system, and **GWaste**, which manages fleets involved in industrial, medical and residential waste collection.

Anyone can plot a vehicle on the map. The real question is: What do you do with that? The team at GT&T has the necessary experience and domain knowledge to understand your business and tailor the platform to meet your unique business and operations needs, thereby giving you a strategic advantage over your competitors. With GFleet, you gain **total visibility** over your assets and workforce and an insight into your operations.

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GFleet Modules

GFleet Modules

Computer-Aided Display/Dispatch (GCAD)
A command and control application which places the entire fleet performance at your finger-tips, through the map-based views, incident management and reports.

GFleet Server (GServer)
A high-performance and scalable engine which tracks the state of each and every asset.

Global Gate (GGate)
Implements a highly-optimized, binary packed over-the-air protocol called Global Fleet Interface Protocol (GFIP), keeping monthly communications costs low. Easily extends to other AVL black box trackers and GT&T's GMobility Platform for Windows CE .NET.

GFTP
A custom FTP gateway which archives and manages downloads for firmware upgrades, performance logs uploads and run sheet management.

GSync
A reliable TCP-based synchronization feature which guarantees all mobile transactions are captured for processing by billing and customer systems, despite communications outages or lack of coverage.

Zone Management
Zones of n-sided polygons are used to measure trip performances and enforce vehicle accessibility to restricted areas.

Job Management
Jobs, especially those imported from external systems are uniquely tracked and dispatched to mobile terminals for completion or fulfilment.

Sensor
A variety of sensors ranging from passive to active RFID readers, and temperature, humidity and motion devices are accessible from GFleet.

Reports
A set of reports to allow managers to make better workforce decisions and improve overall fleet productivity.

Fleet Maintenance
The Fleet Maintenance feature helps tracks repairs and costs incurred.

Path Search and Routing
Dispatchers will be able to make quick dispatch decisions based on routing and other efficiency criteria for dynamic jobs – (Under development)

Vehicle Performance
Collect comprehensive vehicle performance for buses and trucks based on CAN Bus 2.0B/J1939 – (Under development)

GFleet Manager
This tool configures the settings and installation of fleet devices, and manages user access control. Vehicle curfew restricts vehicle movement to defined times of the day.

RFID Card Printing Management
A card printing tool for RFID-based ISO-cards for driver access and in-vehicle logons.

Route Builder and Scheduler (GScheduler)
A trip planner which helps to construct routes and schedules.

Driver Check-In (GLogon)
Automate and track driver check-ins to depot to ensure smooth and timely attendance.

Web-Based Mapping Portal (GTrak) / GIS Data
A standards-based GIS web portal for user and customer access, based on AJAX. GTT is also a GIS data supplier, with availability of world-wide maps.

Mileage
Mileage clocked by the vehicle's odometer is logged, helping to track and manage fuel costs more efficiently.

RFID
On-vehicle interfaces to Mifare and EPC Gen 2 readers are available for logistics and waste management. GT&T's very own active RFID tags are supported for cold-chain management needs.

Integration Adaptors
Integrate with enterprise systems using well-known standards-based technologies such as XML and web services.

Mobile Devices
Supports GT&T's GBox AVL trackers, and Windows CE .NET mobile data terminals, running GT&T's GMobility Platform.

Workflow
A process and event-driven workflow engine based on BPEL 2.0 to trigger external actions. – (Under development)

Scheduling and Optimization
Planners will be able to automatically schedule and assignment pick-ups for large fleets more efficiently and quickly – (Under development)

Advanced Driver Behaviour Monitoring
Advanced harsh-braking and driving habits monitoring – (Under development)

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Global Visibility @ Your Touch

Notable Customer Success Stories

1. 15th Asian Games 2006 (Doha, Qatar)

2. NFL SuperBowl XLI 2007 (Miami/Florida, USA)

3. Republican National Convention 2008 (Minneapolis/St Paul, USA)

4. Fleet Management for Residential Waste Collection Trucks for largest waste collection and management operator (Singapore)

5. RFID-based Medical Waste Collection Fleet Management (Anshan, China)

6. Cold-Chain Fleet Management for Beijing Olympics 2008 (Beijing, China)

7. Planned/Dispatch-Driven Fleet Management for Industrial Waste Collection (Australia)

8. RFID-based Fleet Management for Residential Waste Collection (Australia)

9. School Bus Tracking for International School of Beijing (Shunyi, China), Shanghai American School (Shanghai, China), International School of Kuala Lumpur, Australian International School (Singapore)

10. Rental Fleet Management (Thailand)

11. Airport Ground Fleet Management for Beijing Ground Services (Beijing, China)

12. Fleet Management for Poultry Hatcheries (Jakarta, Indonesia)

13. Fleet Management for Limousine Services (Jakarta, Indonesia)

14. Fleet Management for Heavy Industrial Vehicles (Australia)

15. Fleet Management for Warehouse Fleet for major logistics operator (Singapore)

References

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