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# SKYTRACK CDMA/GPRS FLEET MANAGEMENT SYSTEM



**SKYTRACK CDMA/GPRS FLEET MANAGEMENT** is one of the most advanced tracking and mobile resource management solutions available, encompassing GPS positioning technology and CDMA/GPRS for data transmission.

The Skytrack CDMA/GPRS solution offers real added value by linking your fleet on a real time basis to your back-office business application. The solution brings your fleet to your fingertips, allowing you to more efficiently take advantage of business opportunities, reduce the response time to customer requests, and improve the security of valuable transports.

- **BENEFITS**

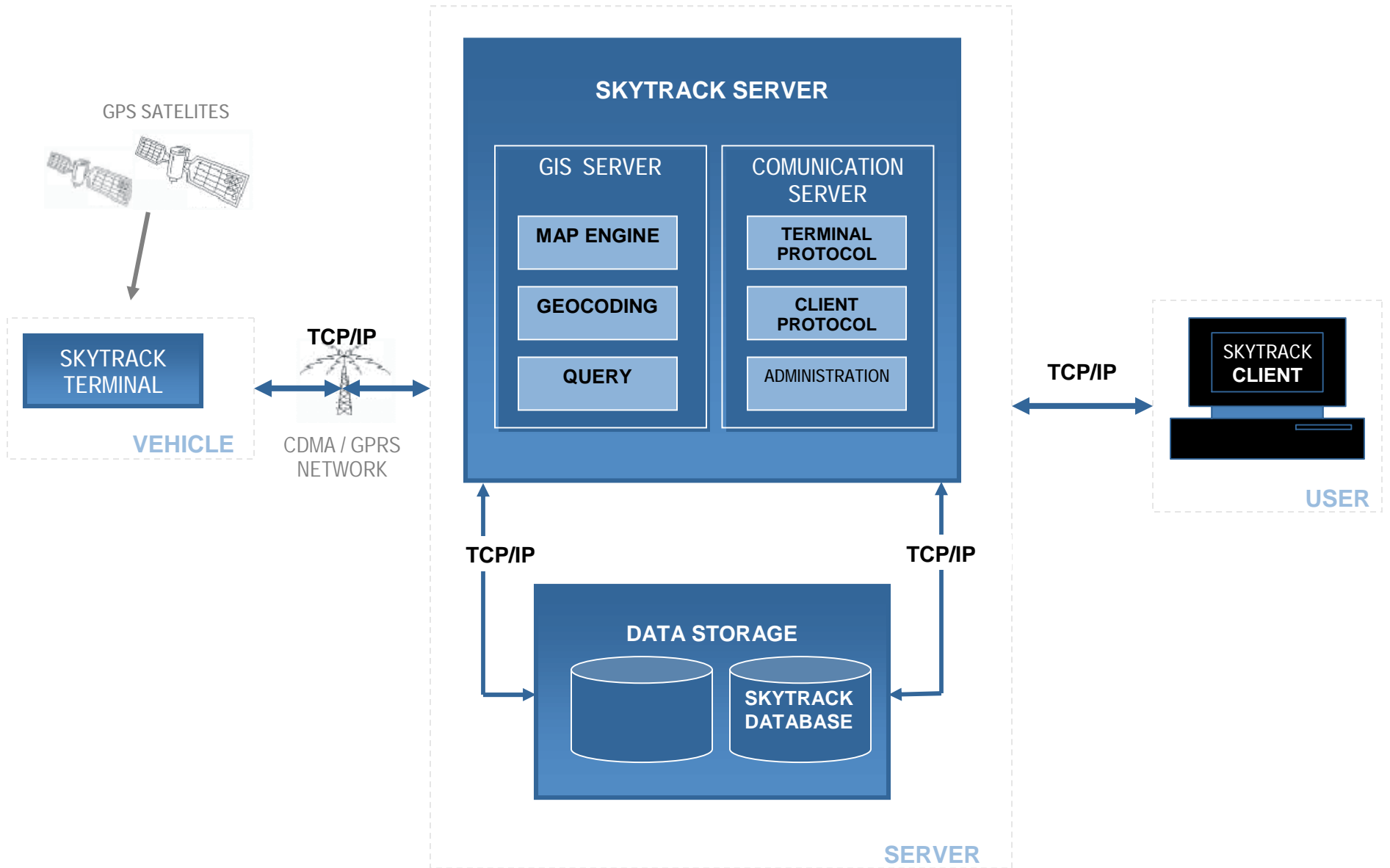
- Secured real time communication with mobile units;
- Client/server architecture;
- Immediate scalability with no costs;
- Reduced operational costs;

- **TARGET**

- Police, private security companies, banking security, fire brigades;
- Transportation and distribution industry;
- City transportation systems, vessel control, vehicle control;
- Taxis, airport vehicles, fishing fleets;

- **SYSTEM ARCHITECTURE**

- **Skytrack Terminal** - is the tracking device that is installed on the vehicle. Every Skytrack Terminal is equipped with a GPS receiver which calculates the position (in geographic coordinates), speed, course, time and date. This information, together with other monitored data from the vehicle, are transmitted through a **CDMA** or **GPRS** modem to the Communication and Authentication Server
- **Skytrack Server** includes the following:
  - **Skytrack Communication Server**;
  - **Skytrack GIS Server**;
  - **Data Base Server**;
- **Skytrack Client** – is the software application for the end-user, offering real-time vehicle location or end-of-the-day analysis of stored data.



## ○ Skytrack Terminal

Each **Skytrack Terminal** includes a GPS receiver that constantly calculates the position (in geographic coordinates), speed, direction, time and date. This information, together with other monitored data from the vehicle, is transmitted through a CDMA or GPRS modem to the communication server.

## ○ Skytrack Server

### Skytrack Communication Server

- § the communication server links the mobile terminals with the client application
- receives, verifies and authenticates the connection requests from the mobile terminals and from the client application;
- allows more than one terminal and one client application to connect simultaneously;
- master/slave redundant architecture.

### Skytrack GIS Server

- allows more users to access the maps simultaneously;
- solution based on vector maps;
- the requested map is sent in vector format to the client application;
- the map is encoded using a 64-bit MD5 algorithm during transmission;
- compatible with the standard vector maps formats (shp, tab, dxf, mif);
- central management of the information is offered to the client application;
- detailed maps are loaded automatically, according to the pre-defined areas;
- HTML interface –the correspondent map is offered in raster format.

### Data Base Server

Manages information regarding:

- the client accounts;
- data received from the mobile terminals;
- maps.

## ○ Skytrack Client

- real-time communication with the mobile terminals: position request, remote commands and settings;
- real-time monitoring of more vehicles;
- dedicated windows for: real-time messages, alarms and playback;
- user-friendly interface;
- selectable icons for monitored vehicles;
- allows local use of vector maps (tab, shp, mif, dxf, etc);
- allows local use of raster maps (bmp);
- the necessary map can be offered by the GIS server;
- zoom in, zoom out, scale display, distance measurement, map element characteristics display;
- map element look-up;
- automatic center of the map on the selected vehicle;
- the active window is exported in raster format;
- advanced data-base search of the received messages using a variety of selection criteria - vehicle ID, date, time, speed, ignition ON/OFF, exceeding the speed limit, different conditions generated by the vehicle sensors;

- playbacks, route drawing, route export in shp, dxf, tab format;
- route color modified according to the vehicle speed;
- point-type layer editor included