HOW THE SYSTEM WORKS:

-It takes the geographical coordinates of the mobile and it represents it on a scanned or vectorized map on the screen of one or more computers. The user may interact visually with the mobile's icon, make commands from a distance, block the engine,or watch the safety of the mobile with a unique code of colors and in real time, powered by the software CoyoteSP 6.0. This is represented by a circular icon which shows the mobile's position and the status of the several sensors as it shows the following table:

    Blue: normal state: there is not an alarm state   Red: zone X opened: security sensor triggered

    Green: zone Y opened: security sensor triggered   Cyan: zone Z opened: principal battery unplugged

-There is a sensor of velocity and acceleration by software which calculates the tendency of the aceleration: if it is acelerarating or slowing the vehicle, and at which magnitud. This is represented by a smaller circular icon which indicares the state of severla sensors. If the ccolo its red, the vehicle its slowing down, according to the intensity of the color. If the color its green, it means the vehicle its accelerating, and if the vehicle has a high speed the color will be blue. If the events get mixed, then the icon will show different color allowing the user to distinguish velocity and aceleration by watching the icon.

-The unit also acts as a «black box» in case of crash, theft or accident, which will offer vital information about the trace, at which speed was the unit was travelling at the time of the accident, and detailed information about the sensors and their state at any time along with logging of operations made from the control station with date and time stamp (example: siren turned on in a specific time and date).

-Also the unit has an advanced events system which is capable of calling the control station and communicate speed excess through sensor, detect if one or more vehicles are out or away from the route or zone where they should be circulating, or even monitor the opening of the backdoor of the truck or any other event and prevent this to occurs out of the authorised zone which is remotely programmable from the control station. Station can be mobile and thus will achieve maximum possible flexibility because it will enable to monitor the whole fleet from different locations and disminish the response time to an event.

Satellite GPS 1   Satellite GPS 2 · · · · · Satellite GPS n

Control Station

GPS Antenna (oculta)   GPS Antenna (oculta) (backup optional antenna)

Mobile Unit

XP-GPS Software

Interaction with the user:

User press the «Connect» button

The software will connect with the units

The vehicle state and events will be shown in real-time

The user can press «Block» button

The unit will cut the electricity o r pump

Software will report that the unit is stopped

Interface

GPS Receiver Satellital high sensitivity signal processor

Calculated positioning in the unit - 1 PPS

Central Processing Unit (CPU)

TX RX

Modem for Data Communication (AMPS, GSM, CDPD, TDMA, CDMA, RADIO, RS485, etc.)

Wireless cellular network, radial, satellital, etc.

Modem for Data Communication (AMPS, GSM, CDPD, TDMA, CDMA, RADIO, RS485, etc.)

TX RX

Storage for later recovery or data download (black box)

I/O handling and remote control (Telecontrol)

VOX Accessory for covert Listening and Remote Conversation

Events and Tracking Memory

Outputs control and detection of alarms and events

Amplifier and speakers   Covert Microphone

Sensor 1   Output 1   Main Battery

Sensor 2   Output 2

· · ·   · · ·   Backup Battery

Sensor n   Salida n

-PC screen showing vehicle unit(s) and the track of the same in a vector or raster map.

-Telecontrol -from a user interface based in Windows OS- through commands and monitoring of different alarm states.

-Visual user interaction with possibility of remote configuration of the unit, disarming and arming of independent alarm zones, with geofence regions programmable directly on the map.

-All this can be done from the same software called XP-GPS which runs on PC in a Windows OS such as XP Professional.