CrossESEAL

Sealed Parcel Delivery System

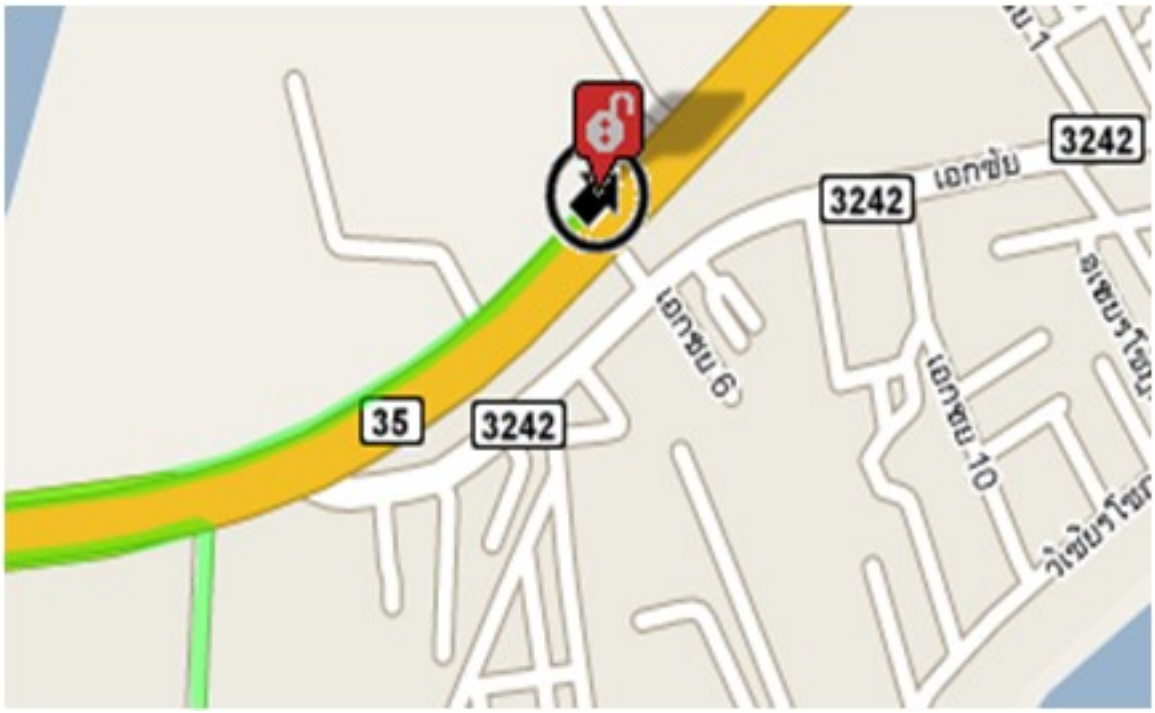
CROSSECOM

RETAIL FUEL SOLUTIONS
CARD PAYMENT SYSTEMS
RFID APPLICATIONS

System Overview

CrossESEAL

- ◊ is completely automatic—requires no changes to existing procedures and requires no action or intervention by staff
- ◊ no moving parts
- ◊ sensors monitor all openings/closings of all inlet and/or outlet points
- ◊ records all openings/closings as “events”
- ◊ tracks vehicle’s locations by GPS
- ◊ monitors and records time, location and duration of all “events”
- ◊ expects events in “green” zones as specified by fleet operator
- ◊ raises alert for all “events” other than in “green” zones
- ◊ transmits all “events” to monitoring system when in range of GPRS
- ◊ records “events” while out of GPRS range and transmits when next in range
- ◊ uses GPRS and Internet to communicate “events” to mapping server at the central head office system
- ◊ reports excessive speed
- ◊ provides daily trip reports and exception reports
- ◊ uses military grade encryption to ensure security of data
- ◊ can be connected to “CANbus” of truck to monitor, record and transmit over GPRS details of truck’s operations and any “events”
- ◊ is tamper evident



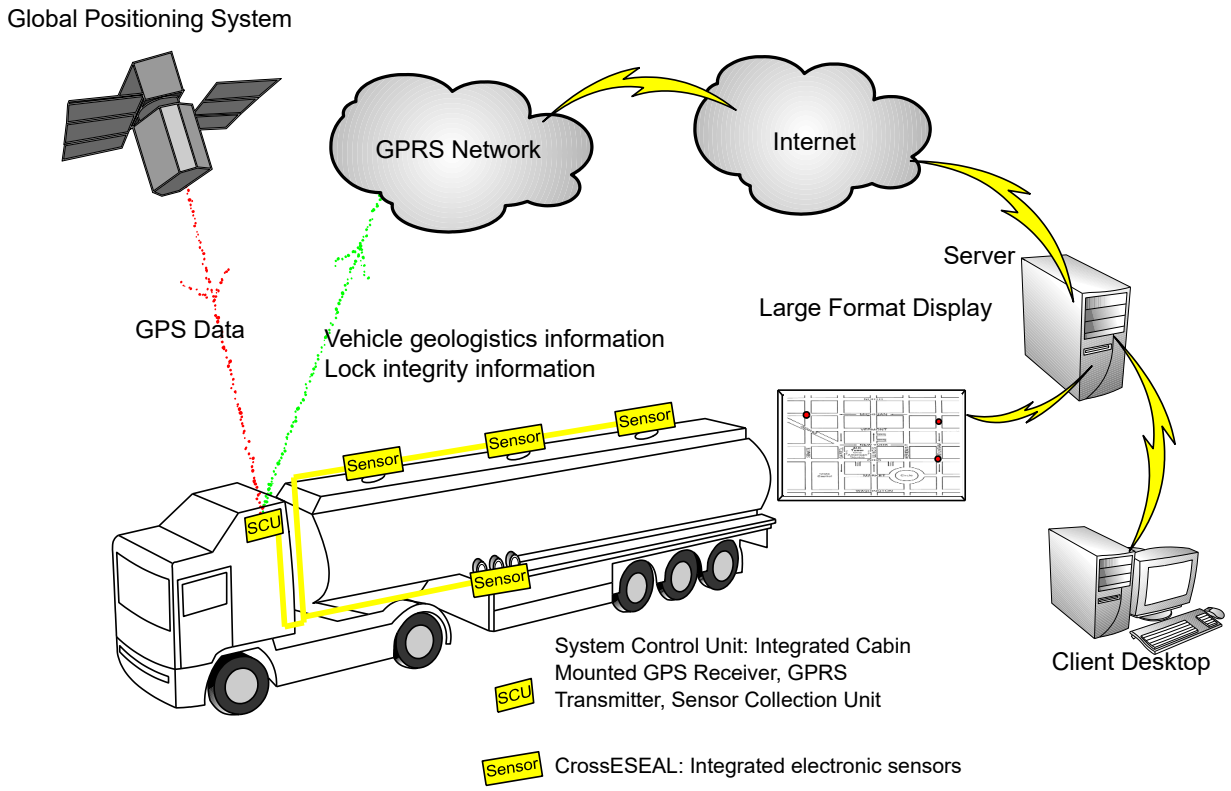
System Components

SYSTEM CONTROL UNIT

The System Control Unit comprises a number of elements:
GPS system for continually tracking the location of the vehicle
GPRS communications module for the transmission of encrypted data via the internet to the mapping server
Solid State battery backed data and sensor integration collector
Software that is continually monitoring and recording the sensor status as well as positional information received from the GPS

SENSORS

Sensors are fitted to each inlet and outlet point.
The sensors continually monitor the integrity of the opening and any unauthorised events are detected.
These patented sensors have been specially developed by Crossecom and are unique in design and operation.



HEAD OFFICE

The Head Office System (which can be located anywhere in the world and/or provided as a bureau service) receives the information transmitted by the System Control Unit.
The data integrates into the mapping software for display in real time showing the location and status of each vehicle indicating whether there has been any unauthorised events.
The software also allows the end user to extract Management reports and Exception reports for trips undertaken.

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Benefits of CrossESEAL to Terminal and/or Fleet managers

- ◊ product integrity from depot to sites
- ◊ automatic trip data analysis
- ◊ real time mapping of vehicle location
- ◊ early warning of untoward activity such as theft, product adulteration, speeding, delayed delivery
- ◊ no involvement from driver either at loading or in transit
- ◊ improved customer loyalty—no contaminated fuel
- ◊ enhanced company image
- ◊ optional CANbus connection for monitoring vehicle operations

to site operators

- ◊ confidence there has been no shrinkage in the fuel loaded at the terminal
- ◊ confidence that the fuel delivered has not been contaminated
- ◊ where permitted, can ascertain expected delivery vehicle's actual location

to customers

- ◊ confidence that the fuel purchased has not been adulterated between the terminal and the delivery site

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SOME OTHER PRODUCTS AVAILABLE FROM CROSSECOM

ISSAS — Integrated Service Station Accounting System comprising a comprehensive suite of applications covering the full range of retail automation requirements.

CrossEGAUGE — Automatic Tank Gauging System. Fuel tank monitoring and management, utilising Cloud or Stand-alone mode.

CrossESEAL — Sealed Parcel Delivery System. Protects and tracks bulk fuel transportation and delivery.

FastFill — Electronic Fuel Delivery and Fleet Usage System. Utilises state of the art RFID technology. Certified Intrinsically Safe.

VeriFill — Stand-alone fuelling authorisation, monitoring and recording system. Fits to any electronic pump.

MobiFill — Mobile Tanker Fuelling Station. Update and monitor fuelling details and locations from anywhere in the world.

RECARD — Fleet Fuel Accounting System. Issues cards, statements and reports. Secure Cloud Server.

Custom Hardware — Design and production of unique and specialised components for the forecourt.

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