

DISTRIBUTION & LOGISTICS

> REAL-TIME OPERATION TRACKING



VTS-KATSO

STARCOM
Systems

PTV GROUP

the mind of movement



KATSO
Communications SAC



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> LOGISTICS OPERATION

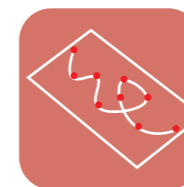
MONITORING



Trace and Tracking
Inventory RFID



Warehouse
RFID Automation



Route Planning and Optimization
Integration with ERP



Loading Optimizer



Share Estimated Time of Arrival (ETA)
with Customers and Distribution Centers



Fleet
Management



Remote Management and
Monitoring of Fuel
Consumption



Remote Openness of the Container Door,
and/or Cargo Door



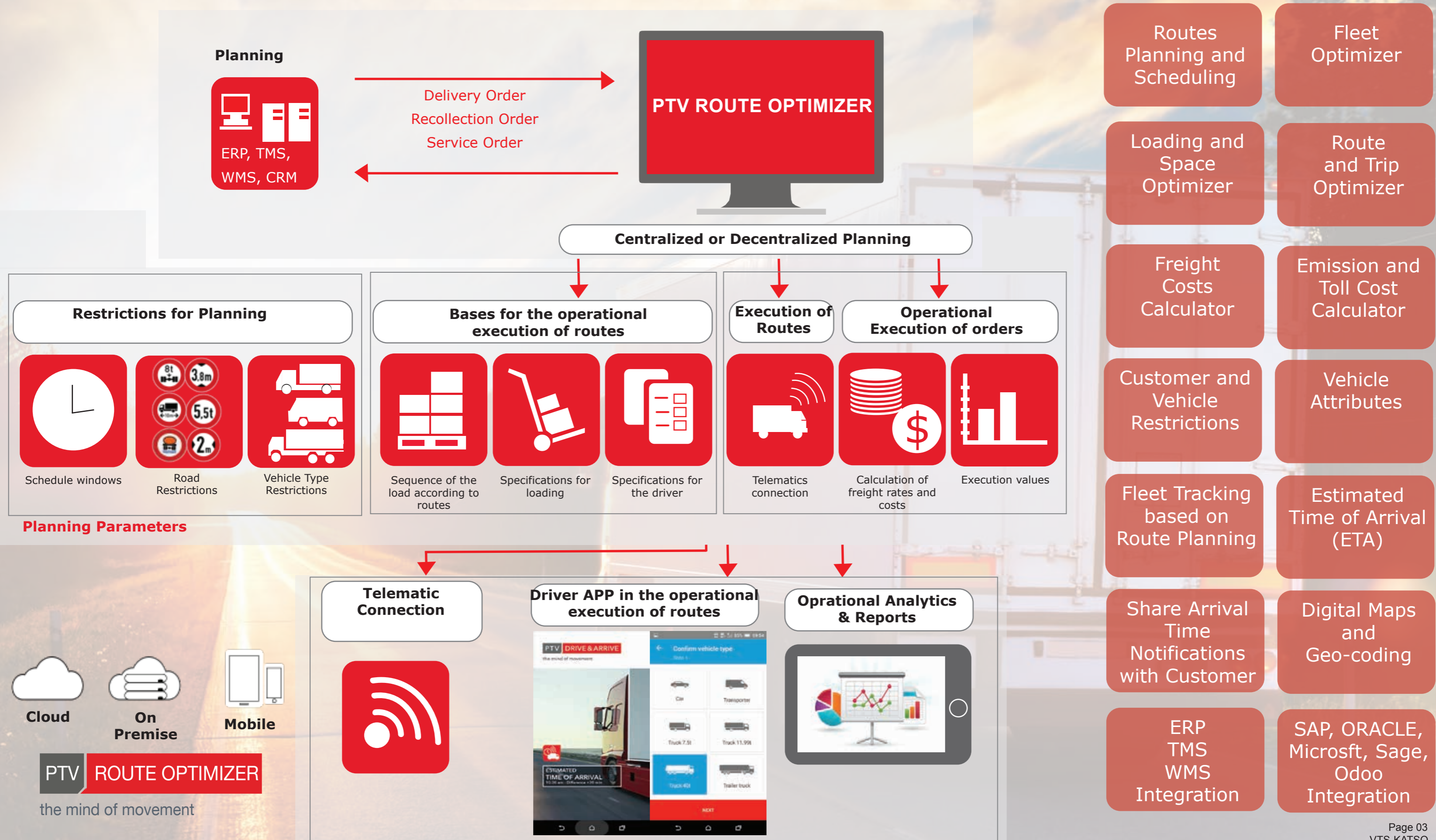
Monitoring of Delivery Plan Vs Execution



Integration with:



> ROUTE PLANNING AND DELIVERY MONITORING



- Routes Planning and Scheduling
- Fleet Optimizer
- Loading and Space Optimizer
- Route and Trip Optimizer
- Freight Costs Calculator
- Emission and Toll Cost Calculator
- Customer and Vehicle Restrictions
- Vehicle Attributes
- Fleet Tracking based on Route Planning
- Estimated Time of Arrival (ETA)
- Share Arrival Time Notifications with Customer
- Digital Maps and Geo-coding
- ERP TMS WMS Integration
- SAP, ORACLE, Microsoft, Sage, Odoo Integration

> COURRIER SERVICES

ColiPoste

chronopost



deret



dpd



DB SCHENKER

DELICom



TNT

Stars service
La logistique du dernier km.

KUEHNE+NAGEL

> LOGISTICS SECTOR

Logistic Service Providers



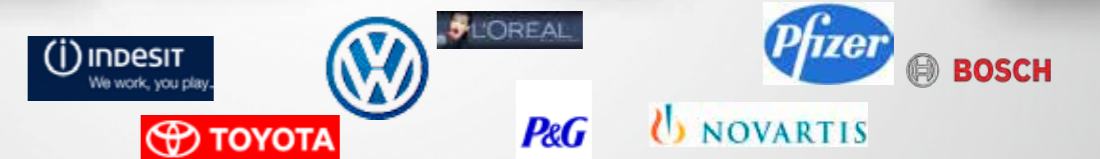
Retail/ Wholesale



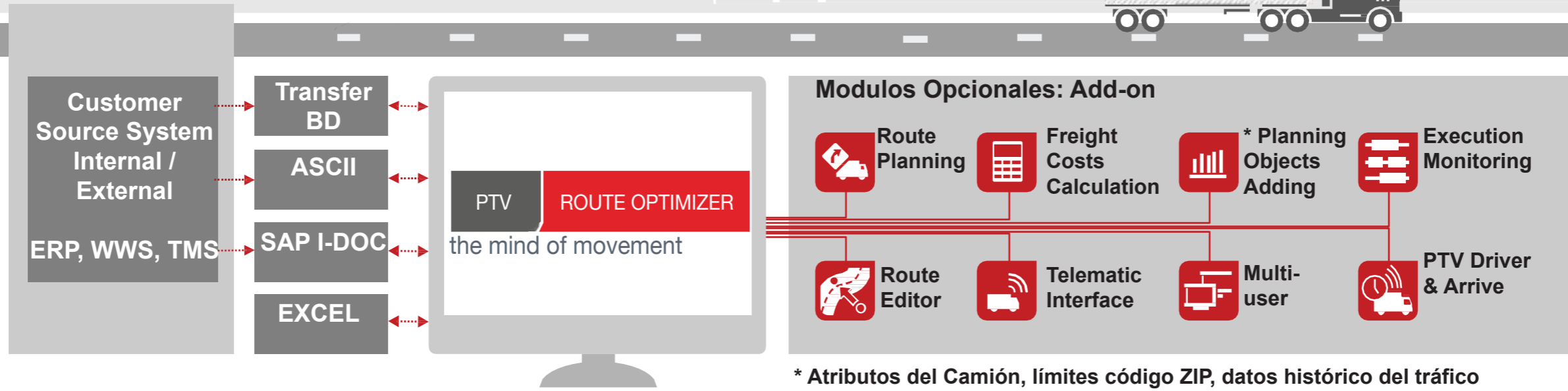
Industries
• Transport



Field force



Software vendors and integrators

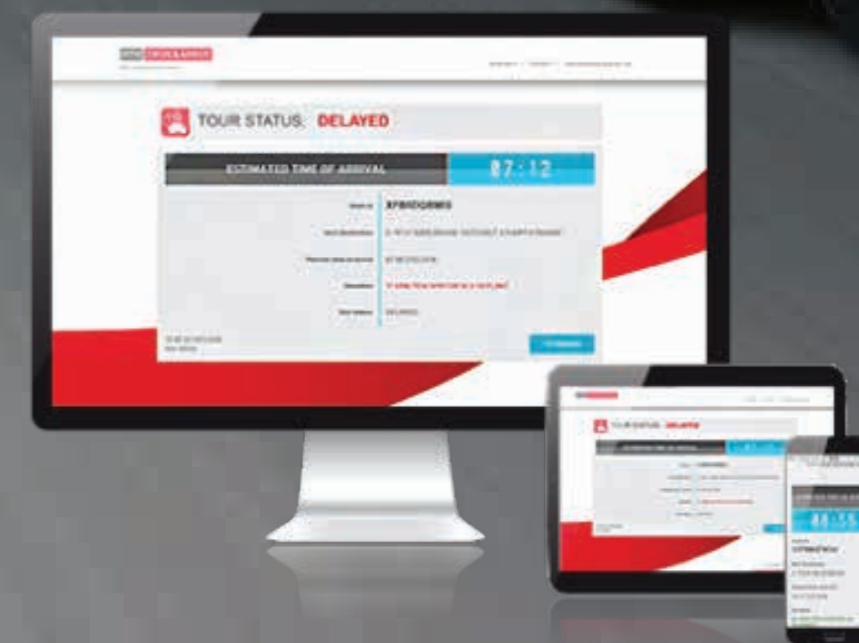


* Atributos del Camión, límites código ZIP, datos histórico del tráfico



ARRIVAL BOARD


	ARRIVAL	WILL ARRIVE IN	#CARGO	Line Truck	GATE
	08:30:00	15 min	Furniture	MASTER TRUCK ECM5364 +55 3624 1109	#15
	09:30:00	30 min	Liquid cargo	MASTER TRUCK DBA42 74 +55 3614 1211	#14
	10:30:00 10:35:00	45 min	Beverages	K-100 TRJA32 56 +55 3618 1309	#11
	09:30:00	46 min	Harzadous goods	APG SABG8713 +55 3922 1467	#09
	10:30:00 10:35:00	50 min	Beverages	K-100 DRTG7819 +55 5412 1675	#03
	09:30:00	CANCELLED	Fireworks	APG PBTY6614 +55 4412 1727	#01
	08:30:00	1:50 h	Liquid cargo	MASTER TRUCK LBjY6734 +55 6756 8765	#04



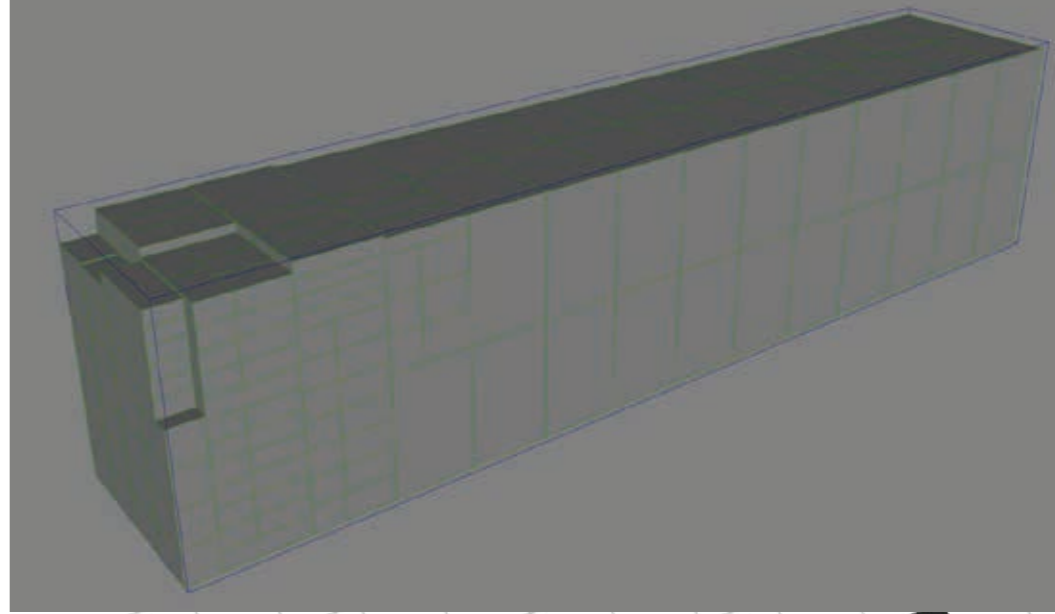
> ACCURACY ON ESTIMATED TIME OF ARRIVAL OF THE VEHICLE



ARRIVAL BOARD

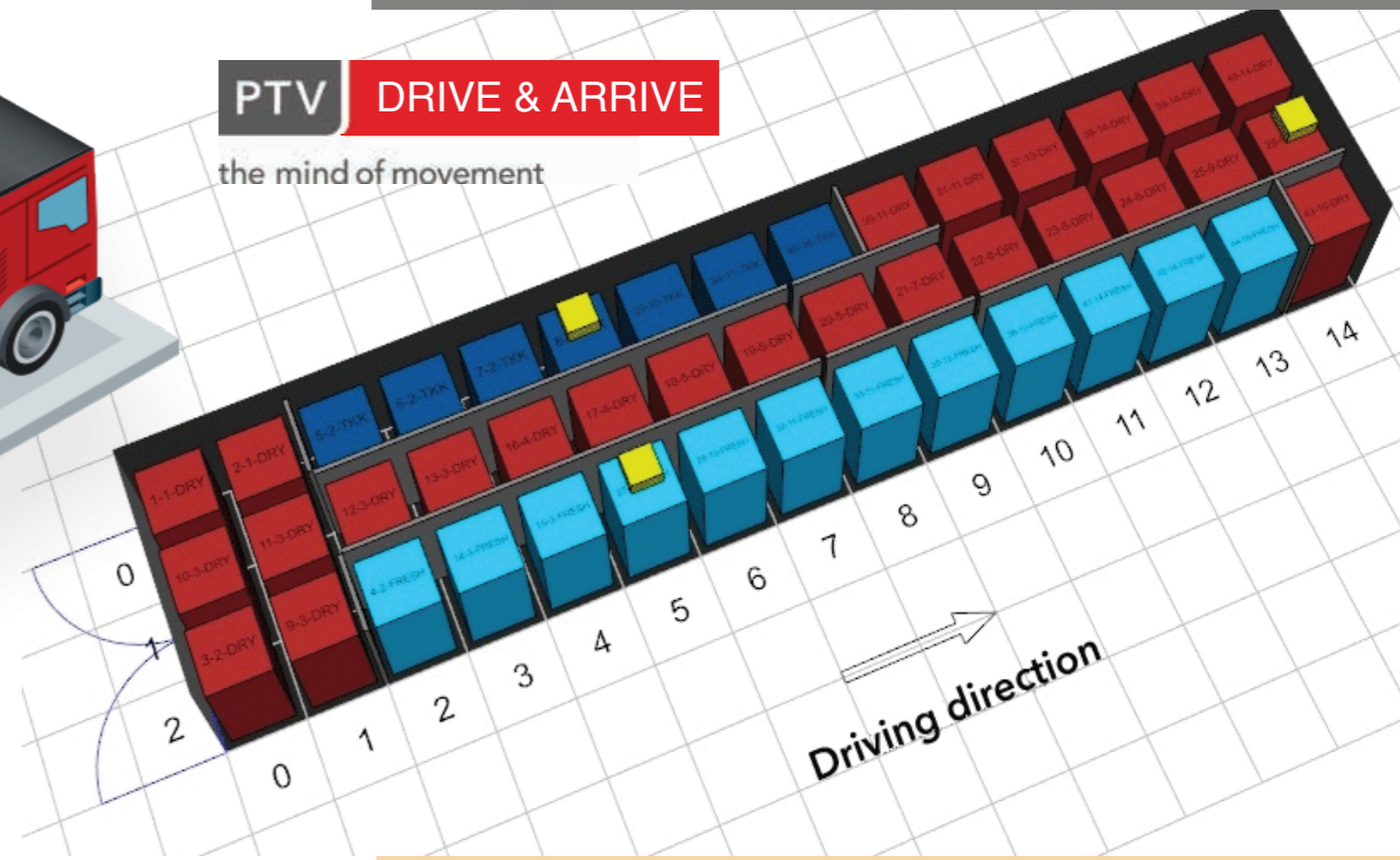
ARRIVAL	WILL ARRIVE IN	#CARGO	BUS LINE	TERMINAL
 08:30:00	15 min	Furniture	AGUIA BRANCA ECM5364 +55 3624 1109	#32
 09:30:00	30 min	Liquid cargo	CATERINENSE DBA42 74 +55 3614 1211	#19
 10:30:00 10:35:00	45 min	Beverages	1001 TRJA32 56 +55 3618 1309	#22
 09:30:00	46 min	Harzadous goods	COMETA SABG8713 +55 3922 1467	#20
 10:30:00 10:35:00	50 min	Beverages	ARAGUARINA DRTG7819 +55 5412 1675	#08
 09:30:00	CANCELLED	Fireworks	ANDORINHA PBTY6614 +55 4412 1727	#11
 08:30:00	1:50 h	Liquid cargo	AGUIA BRANCA LBJY6734 +55 6756 8765	#17

> ACCURACY ON ESTIMATED TIME OF ARRIVAL OF THE VEHICLE

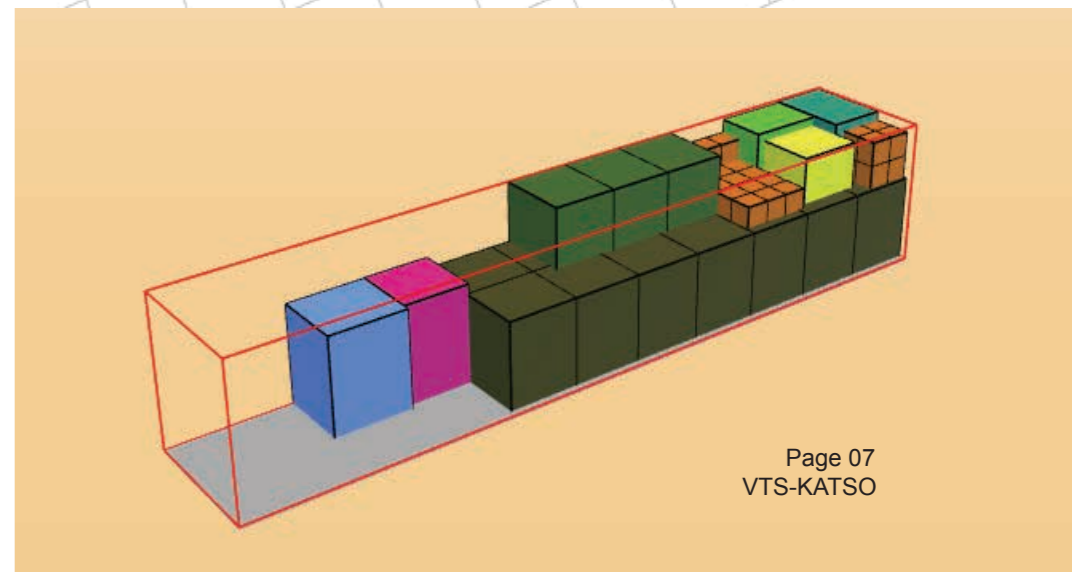


PTV DRIVE & ARRIVE

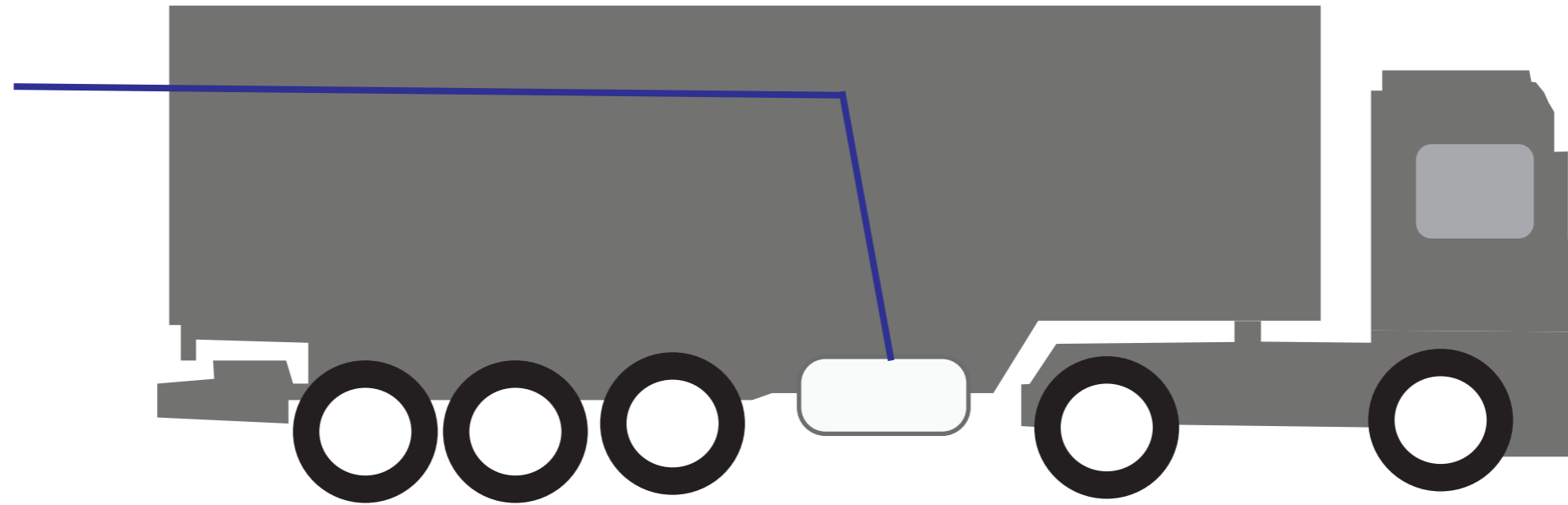
the mind of movement



> **LOADING AND SPACE OPTIMIZER**



REMOTE MONITORING OF FUEL COMSUMPTION



REMOTE MONITORING OF FUEL COMSUMPTION



> FLEET MANAGEMENT



FLEET MANAGEMENT

Events Programing,
Speed Control,
Control of the KM,
Curves Detection,
Engine Running,
Notices Perimeters,
Measurement of the Fuel,
Monitoring Values,
Driver Identification,
Automated Tracking,
Transmission of KM.



PROTECTION OF THE VEHICLE AND DRIVER

Emergency button,
Detection of Abrupt Braking,
Detection of an Accident,
Auto Lock,
Lock / Unlock Doors.



COMMUNICATION

Cellular connectivity
TCP connectivity
Data Encryption
Navigation Support
Support of third party devices,
Data Encryption,
Anti-jammer
Compact Protocol



LOCATION

Tracking and tracing in real time,
GPS Mileage,
Last storage location,
Operation of events log in an independent way,
Events log,
Backup Server,
Data in private cloud.



ALARM SYSTEM

Theft detection system,
Programming times,
Wakeup from accelerometer:
Towing Detection:;
4 Disarming Devices:;
Gradual detention of the vehicle through the pulses sent to the fuel pump



EVENTS PROGRAMMING

Control of Inputs / Outputs using geofencing programming.
Programming of variables:
- Temperature
- Speed
- Perimeter
- Location



AIR COMMANDS

Assemble / Disassemble,
Remote On / Off Remote,
Disconnection of Fuel Pump,
Remote Opening / Closing of doors,
Integration with applications of Roadside Assistance,
Communication of Voice and Data,
Vehicle Tracking,
Vehicle Status,
Parameters Programming.



CONTROL TOWER

Monitoring of Fleet,
Monitoring of Compliance,
Monitoring of Inputs / Outputs,
Monitoring of Programming Events,
Recording of Time Delivery,
Remote Assistance,
Attention to the Emergency calls,
Fuel Pump Lock in case of theft,
Integration with Emergency Services,
Integration with BI.



> SECURITY & PROTECTION FOR CARGO IN MOTION



LOKIES Smart Keyless Padlock

Remote Openness and Smart Design

Physical Dimensions of Hard Shackle
110mm

Physical Dimension of Padlock
80x80x32mm

IP Protection
-20°C to +60°C operacional
-40°C to +85°C almacenamiento

Multi-User ID

Color



Remote Openness from Control Center

Remote Openness thorough Authorized Users

Location, Date, Hour, and Authorized User Identification

Events Programming and Real-Time Alerts

Monitoring Center and Mobile Apps

Corporate Security

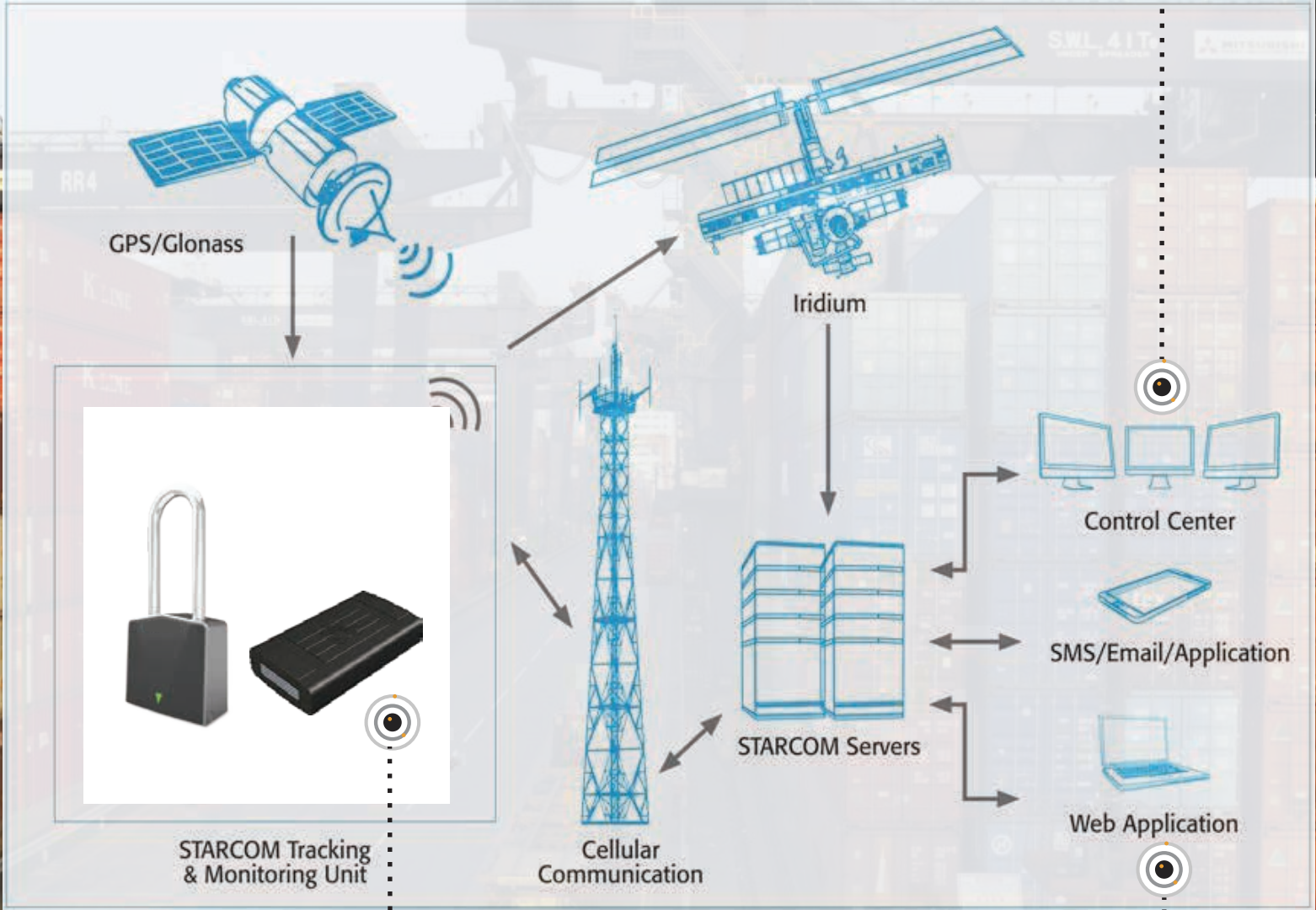


MONITORING CENTER



LOCAL MONITORING CENTER

- Air Communication with devices**
- Automated Alerts**
- Events Monitoring**
- 100% availability of Location**
- Cellular and Satellite Communication**



- HW Programming**
- Built-in Antennas**
- Sensor vehicle integration**
- Digital vehicle integration**
- Analog vehicle integration**

- Events Programming**
- Variable Programming**
- Alerts Programming**
- Users Administration**
- Access and Security Profiles**
- Web Platform**



Mobile Apps for Authorized Users



HELIOS ADVANCED HYBRID

Satellite tracking for remote locations without cellular connection




FLEET MANAGEMENT



PROTECTION OF THE VEHICLE AND DRIVER



COMMUNICATION



LOCATION



ALARM SYSTEM



EVENTS PROGRAMMING



AIR COMMANDS



CONTROL TOWER



SATELLITE MODEM IRIIDIUM FOR LOCATION AND TRACKING



Uses

Remote locations without access to the cellular network

monitoring in remote sites without access to the cellular network and it has a high risk of theft.

Remote locations with the risk of theft,

remote sites of difficult access, without access to the cellular network, which are prone to theft or kidnapping.

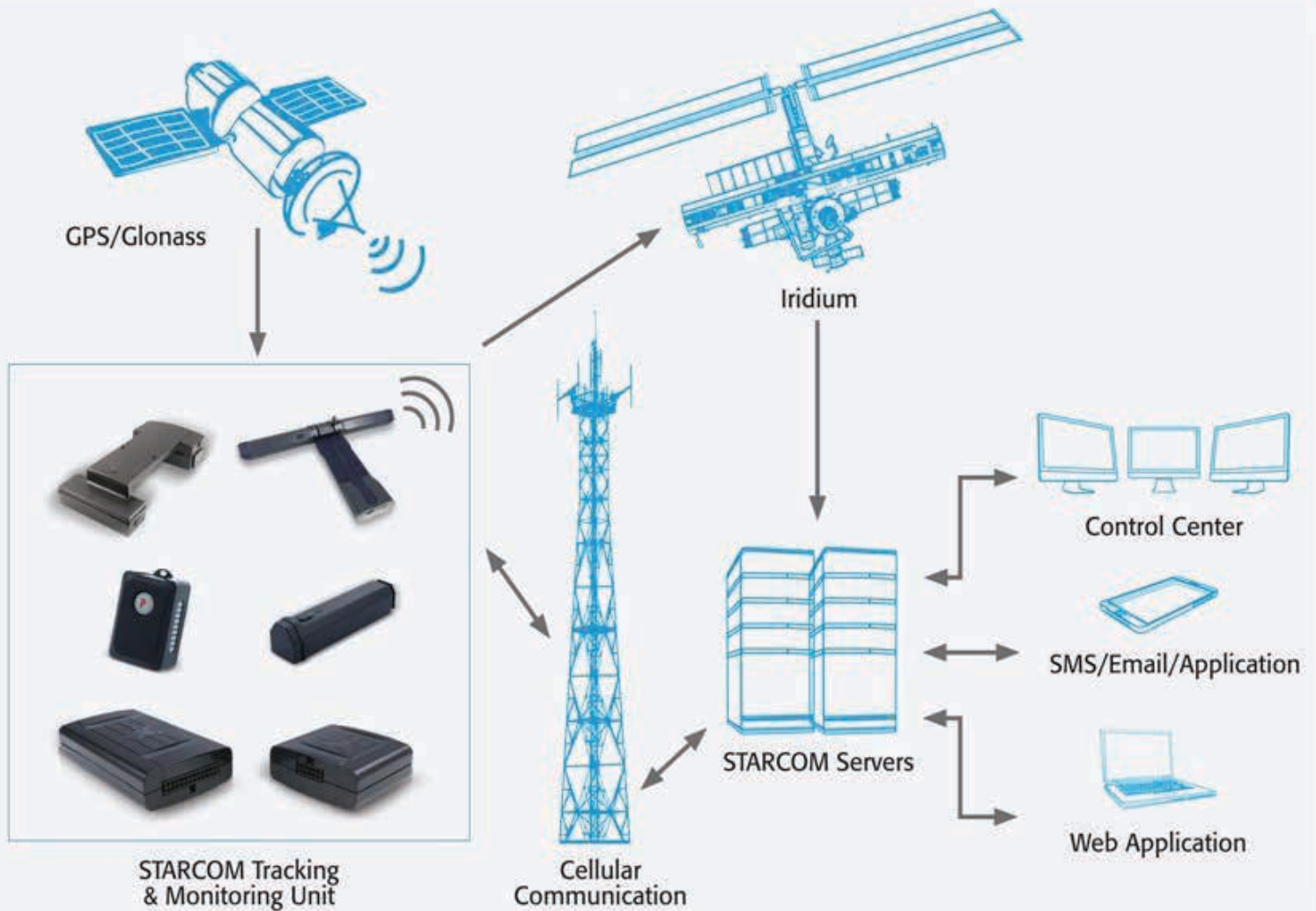
Roads through deserts and jungles

roads without communication, such as deserts and jungles, that may be of risk to the carrier by an accident or mechanical failure.

Roads between mountains

highways of hard accessibility, that the module of the satellite can prevent risks on track and prevent accidents.

Arquitectura de la Aplicación Starcom Online



Integration with fuel sensors



Technology

The entire cellular technology solution (GSM / CDMA / HSDPA) and location (GPS / GLONASS) enable real-time tracking throughout the world using a user-friendly web-based application, which can be easily implemented and accessed from anywhere in the world, in almost any language. All Starcom GPS tracking systems are ISO-9001: 2008 certified and meet the highest industry standards, including:

ISO-9002 Certified

Tested products in field with global certification



Federal Communications Commission



EU Formaldehyde Emission Standard

GPS/Glonass and the latest Cellular Technology

2G, 3G y 4G - LTE.

Global Compliance Regulations



ONLINE PLATFORM



Advanced Web-based Fleet Management with Starcom's exclusive flexible event generator.

Starcom Online offers advanced features:

Detailed maps at street level.

Complete management solution - with Starcom Online, you can manage all your vehicles, assets, employees and much more, all in one tool.

Define your own events with the Starcom Event Generator.

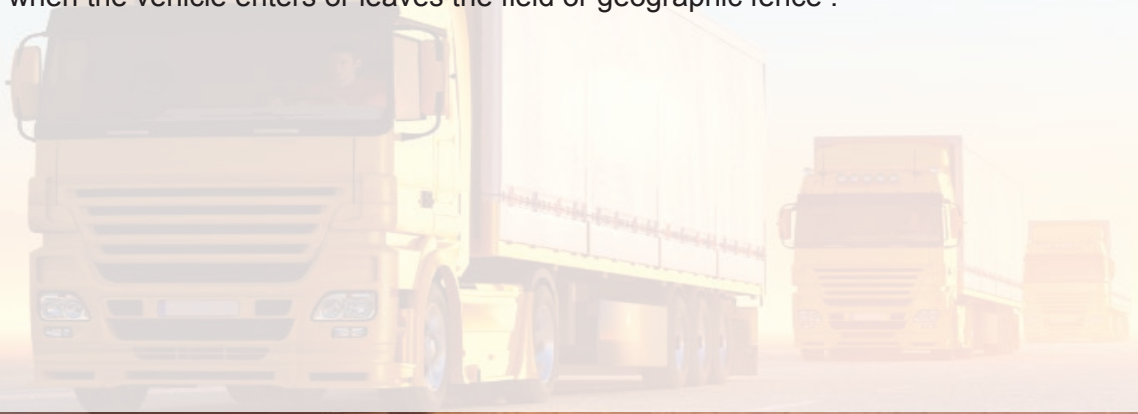
Receive predefined alerts under the required configuration according to the needs of THE CLIENT.

Automatic generation of daily, weekly or monthly reports that can be customized

Obtain all the information of THE CLIENT's needs to manage their requirements, from multiple databases, vehicle data, work schedules and much more.

Unique Starcom Event Generator:

Starcom Online's unique Event Builder lets you predefine an event that uses a combination of components or conditions. For example, an event could consist of speed in a specified area, door opening or stopping of vehicles in unauthorized areas, definition of geographical fences and recording of the time when the vehicle enters or leaves the field or geographic fence .



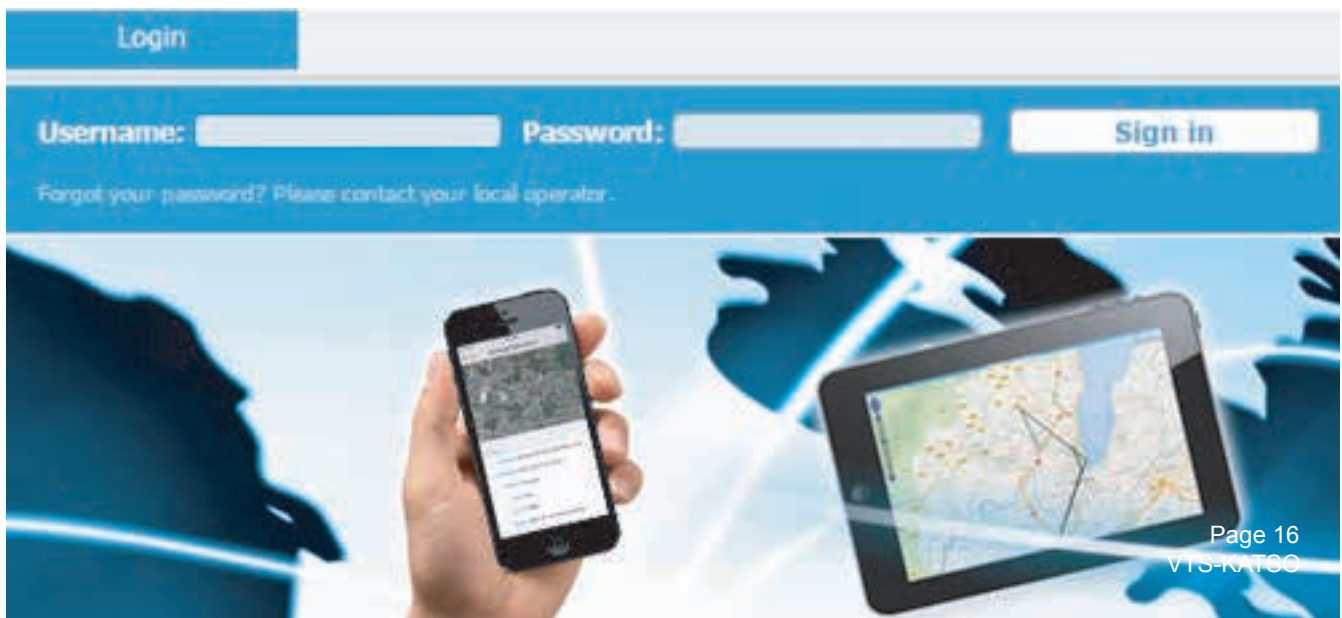
Starcom Online - advanced solution that provides many benefits:

Easy to use - Starcom Online is friendly and requires no installation.

Cost Reduction - Monitoring of driver behavior to achieve immediate cost reduction.

Total Supervision and Control - Starcom Online helps you create a more efficient organization.

Application available anytime, anywhere. Access the Starcom Online platform from anywhere at any time





Remote Monitoring Center

Alarms, Events, and notifications are handled as incidents from the Monitoring Center in Real Time.

Alarm activations attention to detection of the location of the event.

The incidences reported, and managed by the Center **can be integrated with the delivery order of ERP (SAP, Oracle, Sage, Microsoft).**





Monitoring Center

ODBC support: The software uses ODBC connections, and therefore you can connect to any database platform.

Customers: contains all the information about the VH, including entity, Location, Model, etc.

Emergency Services: Contains information about the emergency services for each zone, for calls to bodies of private or public security.

Stations of installation: Contains information about the authorized installation stations and their authorized employees.

Operators: Contains the list of operators registered in the system, including permissions to access the software for each of them.

Displays the units: in a map with the monitoring system of the unit, presenting to the nearest emergency body that can provide assistance and relevant information.

Keeps a record of all actions, dates and users.

Customizable chain of events in case of an emergency

Mobile application for the reaction of the body of security



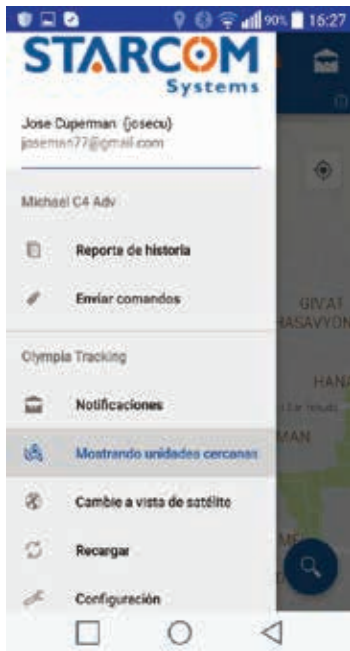
Identification of the unit in Emergency or Accident

Allows the **location of the unit** through the download of apps.

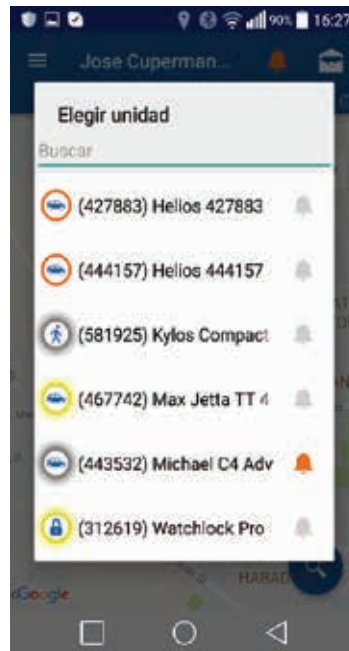
The follow-up to notification, alarm or event linked to the vehicle using Apps.

Access authorization for monitoring through the Apps for security forces.

Olympia Mobile App



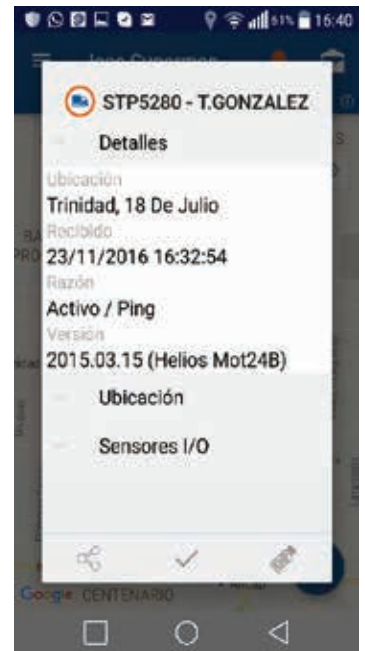
Options



Units



Location



Details



Receives alerts in real time

Visualization of the location of the fixed assets or in motion

Gives all the details of each active device by

Viewing the list of notifications

Displays details and location of each notification

Notification Settings

Historical reports per unit

Compatible with devices with IOS or Android system

HELIOS

> **Real-time solutions for fleet management, protection against theft and security systems**



- Autonomous units
- Quick and easy installation
- Events configuration
- Audit log
- Geofencing
- Accelerometer
- Information in memory
- Roles and Authorizations for users
- System based on the web
- Multiple languages.

Starcom Systems is a leading global company, specializing in advanced automated real-time systems for remote tracking and management of vehicles, containers, assets and people. All systems are characterized in strength, stability and continuous performance.



Starcom Systems is publically traded on the AIM Market of the London Stock Exchange, conforming to the highest and most strict regulations in the market, proving its stability and reliability.

Starcom's systems provide a complete solution, consisting of innovative equipment and unique software. Thanks to the user-friendliness of the system, it provides useful and effective solutions, based on each user's settings and requirements.

With more than 15 years of experience and expertise, Starcom Systems distributes and sells its products through 110 technology partners and independent operators in more than 53 countries, and its application operates in 32 languages. As a global company, Starcom Systems' products include certifications from all the leading standards in the world, including E 24 certification, Safety certification, EMC test certification, Tuv-Rheinland certification and more.



Certificate ISO 9002

Products tested in the field with global certification (TUV, FCC, E-24, and EMC)

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