SKYNET

Satellite Communications

HYBRID
FLEET
SOLUTION

SOLUTION FEATURES SUMMARY

HARDWARE OPTIONS

Garmin Android Touchscreen

Navigation with Maps & Traffic
Custom Android Applications
On-Board Cameras
2-Way Communication
Bluetooth Handsfree Calling
Crash Detection
Driver Logon & Authentication

ORBCOMM IDP-780 Hybrid Terminal

Hybrid GPS / GSM / Satellite Tracking
Least-Cost Routing
On-Board Analytical Agents
100% Landmass Coverage
Digital Input / Output Monitoring

Inovonics RF Receiver & Pendant

Duress Alerting away from the vehicle
1km Line-of-sight range

SKYNET REACH FLEET APPLICATION

Journey Management

Upload Route Plans to Drivers Over-the-Air

Maintenance Planner and Scheduling

Workshop View
Maintenance Notifications
Depot Manager

Geofences & Points-of-Interest

Plotting
Reporting & Exceptions
Alert Notifications

Fully Managed Monitoring Services

For Driver & Vehicle
Enterprise Alarm Console

24-hour Tier-1 Professional Monitoring

For Safety & Security

Exception Reporting and Predictive Analytics

Passive Accident Alerting
Stop & Idle Reports
Peak Speeds
Accelerometer Reporting
Location-Based Reports

Standard Reporting & Alerting

Vehicle Activity
Driver Activity
Tracking History

Whole-of-Fleet Display

Fleet Summary
Real-Time Monitoring

Custom GIS Mapping Overlays

Trip Replay

Route Planning Manager

Google Maps Integration
Traffic Overlay

Fuel Management

Fuel Costs

Enterprise Alarm Console for 3rd Party Monitoring

Depot & Driver Management Console

Instant Messaging

Broadcast Alerts
1-to-1 Communication

User & Group Policies

Administrator & User Group Permissions
Device & Vehicle Groups

Web-Based Application

Aggressive Driving

DRIVER MANAGEMENT & COMPLIANCE

Driver Behaviour

Aggressive Driving
Harsh Braking + Acceleration
Speeding Events
Seatbelt Warnings

Driver Activity

Driving Times
Breaks
Check-Ins
Stops

Electronic Logbook

Hours-of-Service
KM's Travelled

Driver Fatigue

In-Cab monitoring
Journey Management

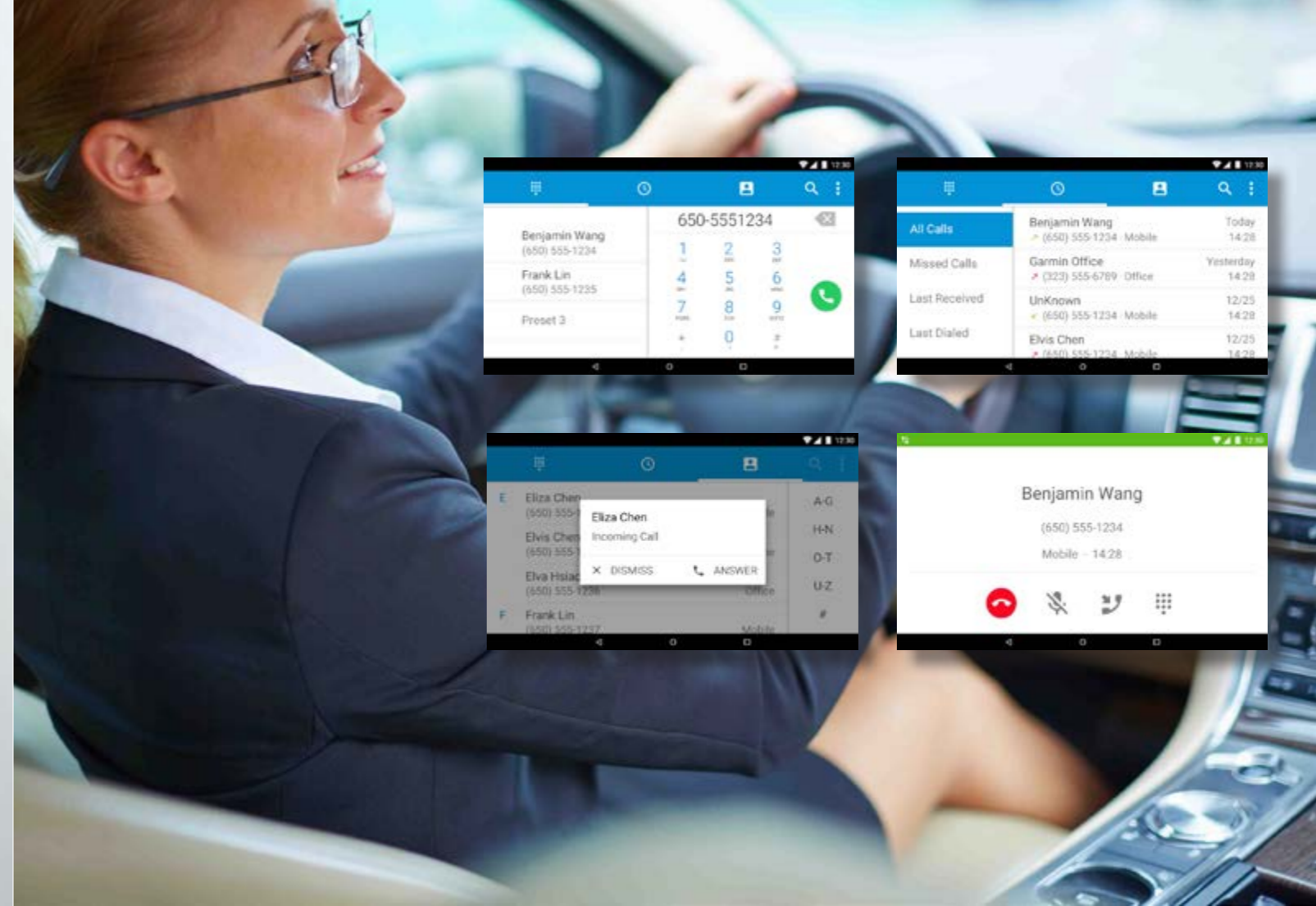### Driver & Vehicle Compliance

Trip Checklist Dashboard

GARMIN FLEET 780 / 790 SERIES

» In-vehicle Navigation Tablet

» Built on Android Platform
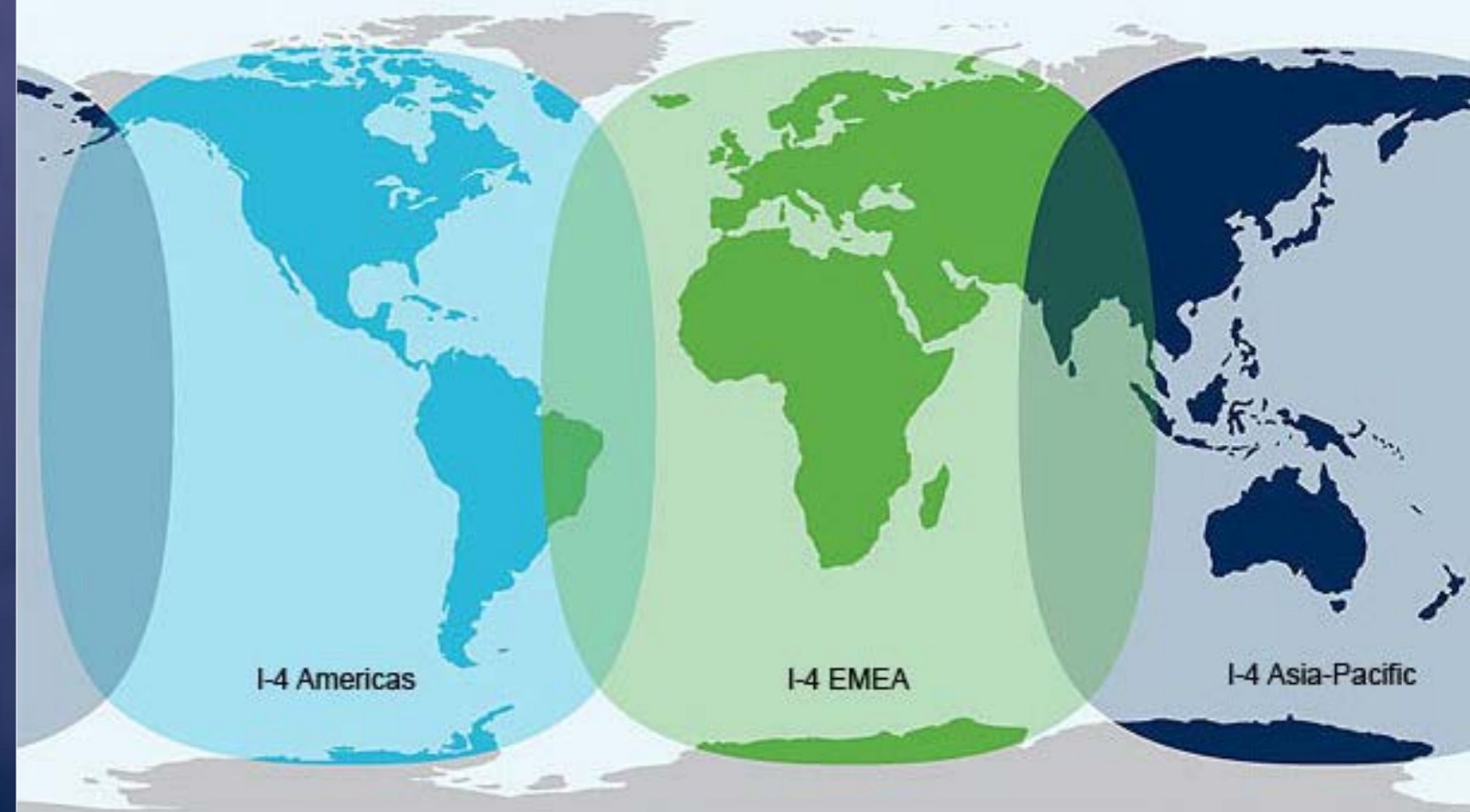
»On-board Cameras

» Bluetooth Handfree Calling

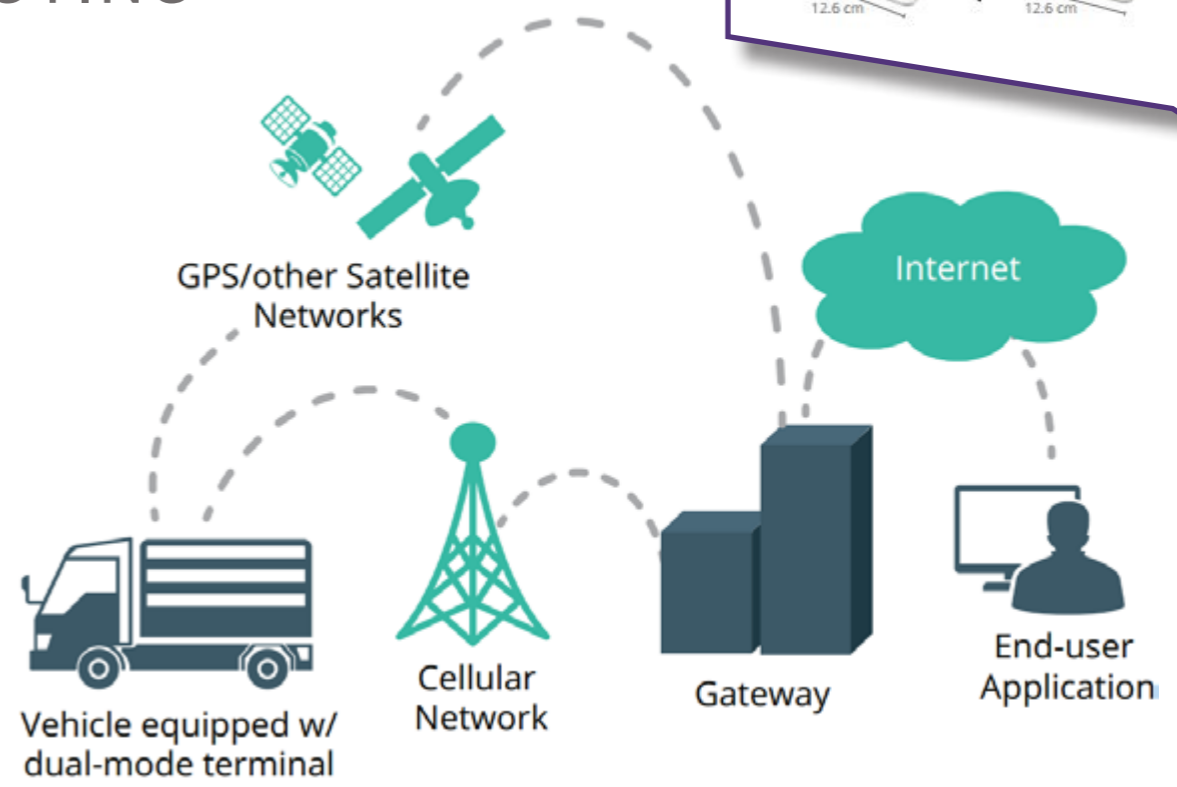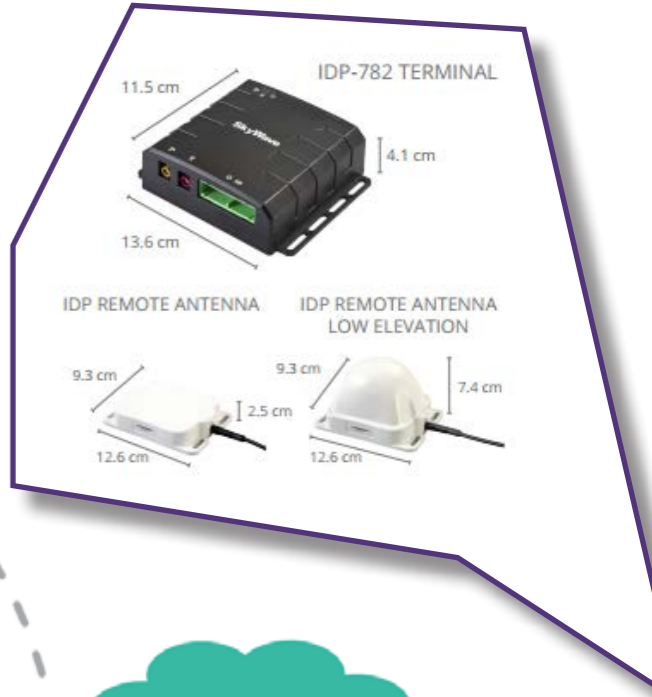| Feature	Specification
Open OS	Android 6.0
Track Navigation	Yes
TTS-Navigation	Yes
Maps	Lifetime On-board Maps
Traffic	Lifetime Traffic (via FMI Cable)
OTA Updates	System SW & Maps (vis Wi-Fi)
Garmin API SDK	Fleet 1.0 (core functionality) Fleet 2.0 (Nav, Dash Cam, Driver)
FMI	FMI 3.6
Dash Cam	Garmin Dash Cam Application
Embedded Impact Detection	Yes
FMCSA ELD Compliance	Development Platform for ELD Solutions (Local Type ELD / Telematics-type ELD): 1) Connectivity: USB 2.0 / Bluetooth / Wi-Fi 2) Large 7" Display for Graph Grid 3) Printer Accessory Support

Feature	Specification
Display	7" Capacitive, 1024 x 600 WSVGA
Mount	Magnetic Powered Mount
RAM	1GB
NAND	16GB
Embedded Modem	4G LTE Cat 1 NA / APAC 3G/2G EU
SIM	Open micro SIM
Bluetooth	BT 4.2 BLE
Wi-Fi	802.11 b/g/n
USB	USB 2.0 Dual Role
GPS	Internal GPS
NFC	NFC Tag Types 1, 2, 3, 4
Camera	Road Facing 4MP embedded
Torch / Flash Light	Yes
G-Sensor	3-AXIS
Gyroscope	Yes
Speaker	High-Output, 2.5W Rear Facing
Battery	Internal 2200 mAh Battery
SD Card	1) SD Card (General Use) 2) Dash Cam dedicated SD Card
Connectors (Device)	1) micro-USB 2) 3.5mm audio jack w/mic in-line
Connectors (Mount)	1) Mini-USB 2) USB Type-A

I-4 Americas   I-4 EMEA   I-4 Asia-Pacific

TRUE 2-CHANNEL HYBRID SATELLITE & GSM TECHNOLOGY USING LEAST-COST ROUTING

IDP-782 TERMINAL

11.5 cm
4.1 cm
13.6 cm

IDP REMOTE ANTENNA

9.3 cm
2.5 cm
12.6 cm

IDP REMOTE ANTENNA LOW ELEVATION

9.3 cm
7.4 cm
12.6 cm

GPS/other Satellite Networks

Internet

Vehicle equipped w/ dual-mode terminal

Cellular Network

Gateway

End-user Application

ORBCOMM™

IDP-782

Staff Member presses Duress Pendant

Transmits up to 1km Line of Sight

Receiver in Vehicle relays Alert to the Modem

Signal is sent via 3G or Satellite via Least-Cost Routing

SKYNET

SkyNet's Servers receive Duress Alert to action

Alert immediately forwarded to 24/7 Monitoring Centre

inovonics

SKYNET JOURNEY MANAGEMENT CENTRE

Emergency Response, Driver Management, Journey Planning & Compliance	Communicate with your Teams via compatible Garmin FMI nvigation units
Trip Replay	***Route Planning***
Playback vehicle activity through REACH Fleet. Just select the date & time.	Upload optimised route plans to your teams to improve time efficiency and reduce fuel costs.
Live Tracking Data	***Driver Communication***
See up-to-the-minute location data for your vehicles (*excludes Satellite).	Canned and free-form text messaging even outside cellular areas.
Securely Stored Data	***Driver Safety***
All your data is saved with SkyNet for up to 6 months.	In-Car audible speed limit alerts help to enforce safe driving habits.

Live Tracking and Instant Messaging via REACH Fleet

SkyNet's REACH Fleet cloud based platform can be accessed from any web-enabled device to view and manage your assets and drivers.
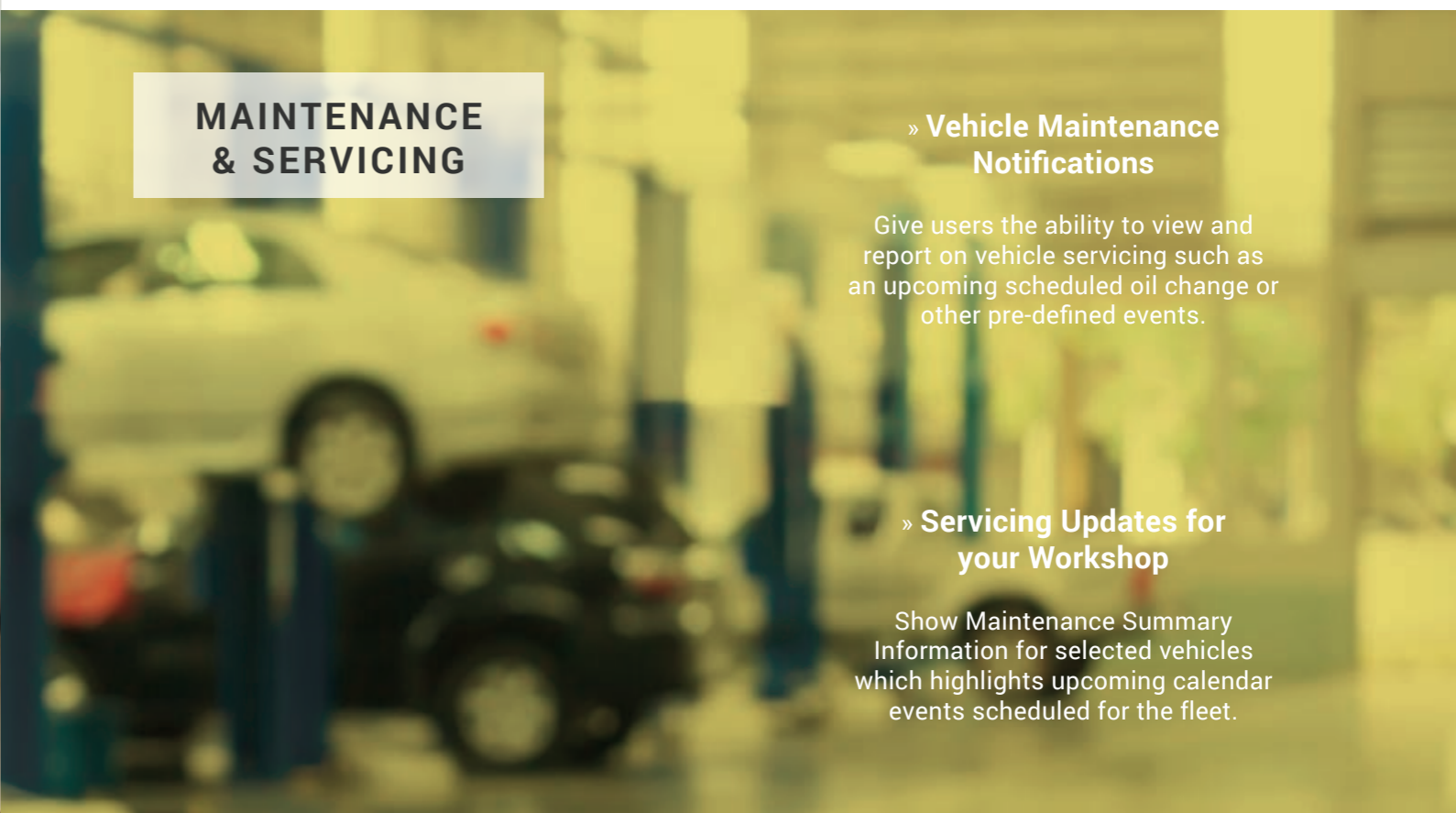
MAINTENANCE & SERVICING

» Vehicle Maintenance Notifications

Give users the ability to view and report on vehicle servicing such as an upcoming scheduled oil change or other pre-defined events.

» Servicing Updates for your Workshop

Show Maintenance Summary Information for selected vehicles which highlights upcoming calendar events scheduled for the fleet.

DRIVER SAFETY & COMPLIANCE

Configure speed alerting, manage driving time and breaks, then create reports for management.

Complete integration with compatible garmin FMI navigation units.

Stop Management
Allow dispatchers to communicate and manage driver stops in real-time.

Driver Communication
Canned and free-form text messaging even outside cellular areas.

Driver Safety
Speed limit alerts help to enforce safe driving habits.

Driver ID Login
Driver identification via login through the Garmin Unit.

Electronic forms
Allow drivers and dispatch to exchange information using forms that can be completed on Garmin device.

Hours-of-Service (HOS)
Fulfil government logbook regulations by automating the entry and recording of all required information from the driver's cab.

VEHICLE & DRIVER ACTIVITY

GEOFENCE & POINTS-OF-INTEREST

Geofence Alerting

Use SkyNet's Built-In Geofence & Point-of-Interest Editor to create virtual boundaries and notifications. Create GeoFence & Points-of-Interest easily with REACH Fleet

SkyNet's REACH Fleet Cloud Based Platform can be accessed from any Web-Enabled Device to view and manage your assets and drivers.

Setup Alerts
When vehicles either enter or leave a designated Geofence boundary.

Create Points of Interest
Name your frequently visited locations and plot them on a map for reporting ease.

Geofence
Use SkyNet's Geofence Editor to quickly create virtual boundaries with a range of parameters.

Asset Tracking with GeoGuard

Instantly create a 100m boundary around your Truck, Car, Boat, Bike or Heavy Machinery and get immediate notifications if it leaves that location

Set a Geofence Perimeter with One-Touch on your Smartphone or Tablet.

ROUTE PLANNING & TRAFFIC

[CREATE CUSTOM ROUTES AND SEND TRAFFIC ALERTS TO YOUR TEAMS]

SkyNet's REACH Fleet Cloud Based Platform can be accessed from any Web-Enabled Device to view and manage your assets and drivers.

[Easily create & edit routes for your drivers]

[Manage & assign drivers and depots]

Driver Activity
Monitor driver behaviour including breaks, stops and time behind the wheel.

Vehicle Activity
Comprehensive & powerful reporting available at your fingertips

REACH Fleet Cloud Based Platform can be accessed from any Web-Enabled Device to view and manage your assets and drivers.

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