OZIEXPLORER
HELP INFORMATION

OZIEXPLORER – CONTENTS (30-01-2024)

OZIEXPLORER OVERVIEW

This App provides the user with the graphical user interface (**GUI**) to be able to view the map and current position.

Even though the OziExplorer is fully configurable, the **Outback Navigation Information System** (**ONIS**) has been designed with five **GPS Integrated Solutions** (**GPSIS**) page screens, all with side menus providing a subset of additional functions.

The **ONIS** comes with two default maps, both with information provided by open source contributors, with map files produced by **GPSIS**.
Any maps found in the /external SD card/Oziexplorer/Maps folder, will be automatically indexed and be available to the user.

Typically, users would use the **Course Up** mode but as the OziExplorer uses raster maps, this will lead to the map descriptions being upside down when the course is not north up. In these instances, the user can select **North Up** from the map screen, or set the default to **North Up** in the setup configuration.

OZIEXPLORER STARTUP OPTIONS

When the OziExplorer App is started, the user can perform the following two updates:

1. Download WWW navigation data from the owner file server.
Note, this screen is only displayed when the manual WWW download is enabled by the owner, the WiFi SSID is configured and the **ONIS** in WiFi range of a hot spotted device to the Internet.

2. Set the **TPMS** low pressure alarm.
Note, the TPMS low pressure alarm setting is limited to either 16 PSI (sand) or 28 PSI (sealed roads) - any other setting must be set in the "SYSTEM & SETTINGS" menu.
This screen is only displayed if the TPMS App is enabled in the "SYSTEM & SETTINGS" menu.
Both options have a 5 second countdown timer to provide the user with an opportunity to make a selection before the startup process progresses.

OZIEXPLORER STARTUP OPTIONS
WWW DATA UPDATE

The user can perform the following data updates:

1. "UPDATE SELECTED WAYPOINTS & TRACKLOGS"
This will allow the user to select one of up to 99 configured owner download links.
Selection 01 will overwrite the owner default data, 02 to 99 will overwrite any existing WWW data

2. "UPDATE DEFAULT DATA"
This will allow the user to retore the owner configured default Waypoints, Tracklogs and Geofence data.

NOTE:
Whenever WWW data is downloaded and found, it will overwrite any existing data.
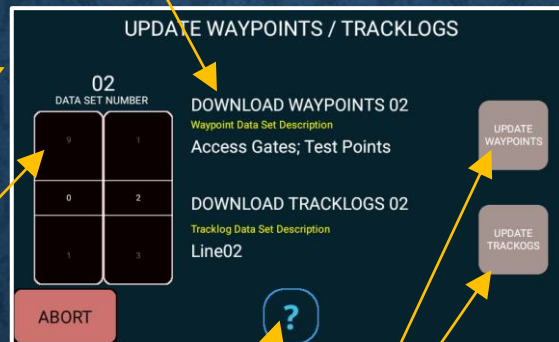This ensures that the *ONIS* remains up to date with the current owner data.

OZIEXPLORER STARTUP OPTIONS
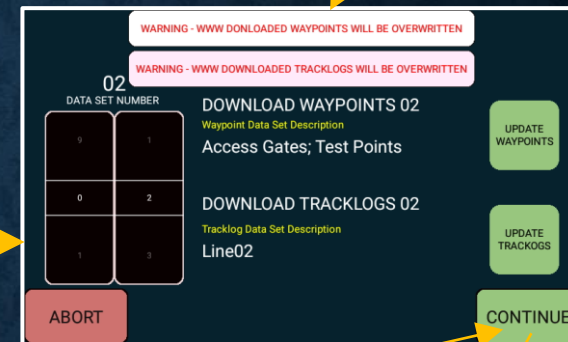# UPDATE SELECTED WWW WAYPOINTS & TRACKLOGS

Open the "UPDATE WAYPOINTS & TRACKLOGS" menu.

Download information.
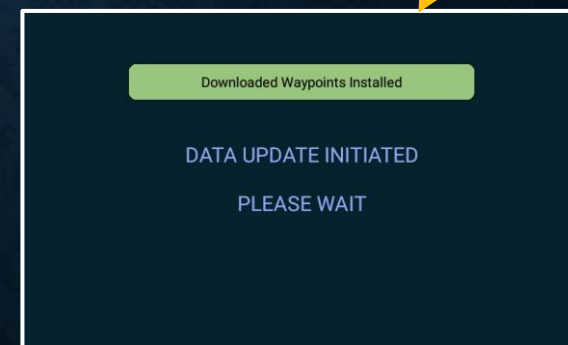
Warning messages about overwriting existing data.

VEHICLE ID: LV453

WWW DATA UPDATE PROCESS

EXISTNG DATA WILL BE REPLACED WITH UPDATES

(WiFi SSID = iiNet371133   WiFi Signal = 4/9)

IGNORE & CONTINUE NOW

AUTO CONTINUE COUNTDOWN 14

UPDATE SELECTED WAYPOINTS & TRACKLOGS

UPDATE DEFAULT DATA

The user has 5 seconds (20 x 250ms visual decrements) to change the setting.

UPDATE WAYPOINTS / TRACKLOGS

02 DATA SET NUMBER

9   1

0   2

3

DOWNLOAD WAYPOINTS 02
Waypoint Data Set Description
Access Gates; Test Points

DOWNLOAD TRACKLOGS 02
Tracklog Data Set Description
Line02

UPDATE WAYPOINTS

UPDATE TRACKLOGS

ABORT

1. Select the required WWW download data set. (01 = owner default)

2. Select "UPDATE"

Help information.

WARNING - WWW DONLOADED WAYPOINTS WILL BE OVERWRITTEN

WARNING - WWW DOWNLOADED TRACKLOGS WILL BE OVERWRITTEN

02 DATA SET NUMBER

9   1

0   2

3

DOWNLOAD WAYPOINTS 02
Waypoint Data Set Description
Access Gates; Test Points

DOWNLOAD TRACKLOGS 02
Tracklog Data Set Description
Line02

UPDATE WAYPOINTS

UPDATE TRACKLOGS

ABORT

CONTINUE

3. Select "CONTINUE"

Downloaded Waypoints Installed

DATA UPDATE INITIATED

PLEASE WAIT

OZIEXPLORER STARTUP OPTIONS
TPMS LOW PRESSURE ALARM SETTING

The user can set the TPMS low pressure alarm setpoint to either 16 PSI or 28 PSI, when the OziExplorer App startup.
Any other setting must be set in the "SYSTEM & SETTINGS" menu.

VEHICLE ID: LV453

IMPORTANT

THE TPMS WHEEL SENSORS USE LITHIUM BUTTON CELL BATTERIES

1. Dispose of button cells correctly.

2. Replace wheel sensor batteries with quality cells for optimum TPMS performance and longevity.

3. Do NOT store button cells so young children can access.
~
SET TPMS LOW PRESSURE ALARM SETPOINT

16 PSI

AUTO CONTINUE COUNTDOWN
13

28 PSI
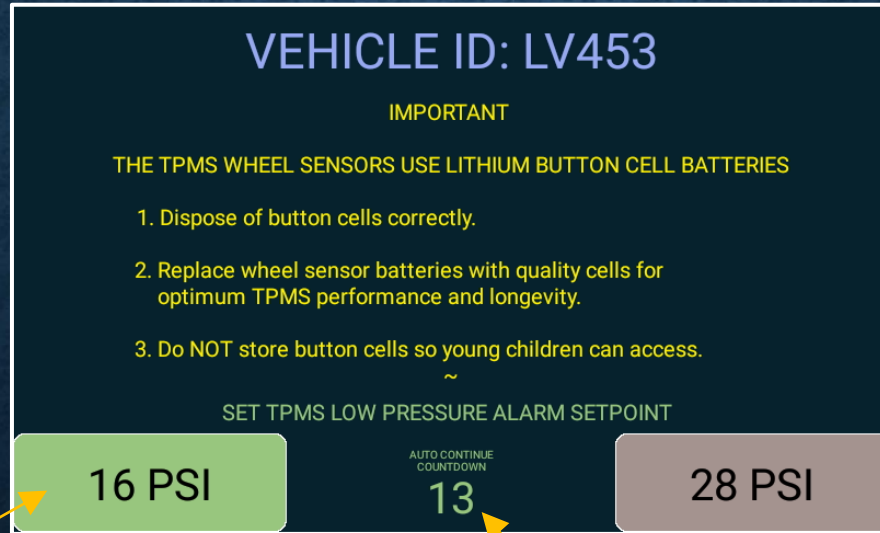
The current set low pressure alarm setpoint will be green.

The user has 5 seconds (20 x 250ms visual decrements) to change the setting.

SCREEN PAGING SEQUENCE

MAP & MENU BUTTONS (Page 1)

Display lower resolution map if available.

Select *Prev Page* for OziExplorer screens.
Green = Map *Course Up*.
Grey = Map *North Up*.
Arrow displays map direction.

Displays current map zoom.

Displays current vehicle speed km/h. Long press to set the *Speed Alert* to the maximum & disable the adaptive mode.

Displays rolling average speed (90 sec approx.).

Displays current *Speed Alert*. Select to display menu.

Turn GPS receiver "Off" to drag map position.

Display higher resolution map if available.

Select *Next Page* for OziExplorer screens.

Set count down timer1.

Help Explanations.

Set count down timer2.

Select for System menu. The Time & Date will toggle every 2-3 seconds

Select to display the TPMS overview screen.

TPMS sensor health.

Displays the number of visible satellites.
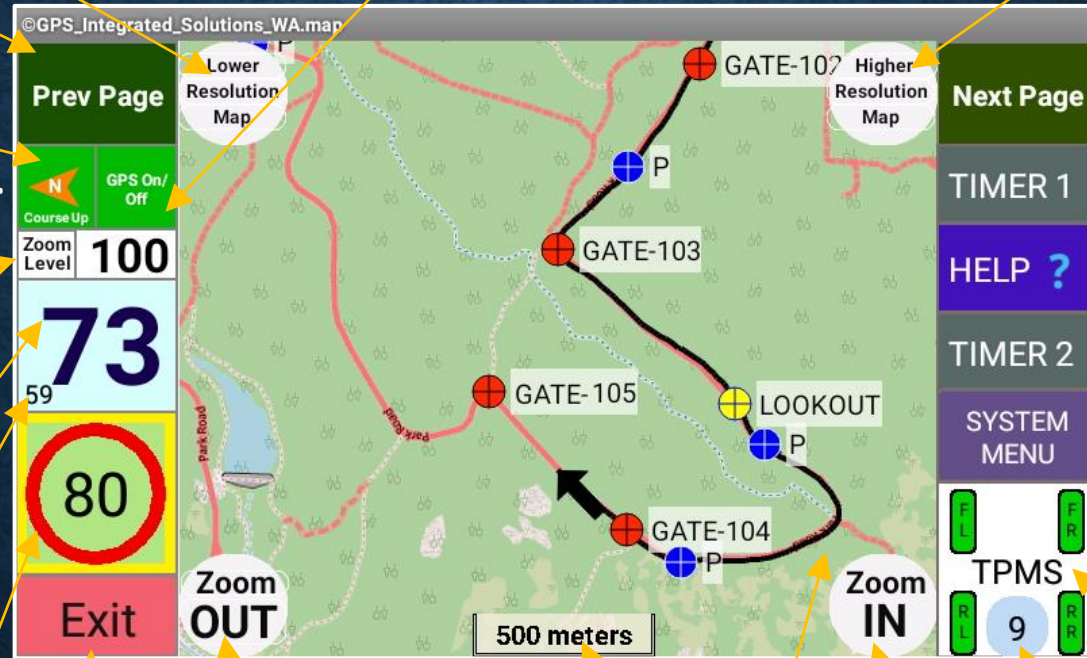
Map Zoom OUT

Exit to *ONIS Main Menu*.

MAP scale.

Black coloured track tail (approx. 15km).

Map Zoom IN

Screen labels: ©GPS_Integrated_Solutions_WA.map — Lower Resolution Map — Prev Page — GPS On/Off — N Course Up — Zoom Level 100 — 73 — 59 — 80 — Exit — Zoom OUT — 500 meters — GATE-102 — GATE-103 — GATE-105 — GATE-104 — LOOKOUT — P — Higher Resolution Map — Next Page — TIMER 1 — HELP ? — TIMER 2 — SYSTEM MENU — TPMS — FL FR RL RR 9 — Zoom IN

ODOMETER & TRACKS (Page 2)

Records & displays the maximum speed. (this data is retained after a *ONIS* reboot)

Show / Hide the Waypoints. (this does not delete the Waypoint data)

Show / Hide the tracks. This does not delete the track data.

Reset the maximum speed.

Start and Stop the odometer. (this data will be lost after a *ONIS* reboot)

Load Tracklog

Removes ALL loaded Tracklogs from the *ONIS*.

Reset the odometer back to zero.

Unload all Import Waypoints. NOTE. In "User Mode" the default Waypoints will be re-loaded at the next Navigation App startup.

Load Waypoints that have been previously configured.

After clearing that track tail, the *ONIS* will again start displaying a track tail (up to 15km).

©GPS_Integrated_Solutions_WA.map

Page 2 - Odometers - Tracks - Waypoints

Page 2 - Odometers

Prev Page

Next Page

N Course Up

GPS On/Off

Max Speed
3

Show/Hide Waypoints

Show/Hide Tracklogs

TIMER 1

Zoom Level 100

Reset Max Speed

Load Waypoints

Load Tracklog

HELP ?

45

41

Odometer
0.00 m

Unload All Waypoints

Unload All Tracklogs

TIMER 2

SYSTEM MENU

Start / Stop

Clear Track Tail

50

Reset Odometer

F L F R

TPMS

Exit

R L 9 R R

WAYPOINT LIST (page 3)

Name of the closest Waypoint.

Distance to the closest Waypoint.

ONIS operation help. Only available whilst the vehicle is stationary.

Bearing of the closest Waypoint.

©GPS_Integrated_Solutions_WA.map

Page 3 - Waypoint List

Distance	Bg (tr)	Name
9.87 m	126	MEDICAL
1.29 km	086	P
1.37 km	091	LOOKOUT
1.58 km	075	P
1.70 km	079	GATE-104
1.76 km	124	GATE-102
1.81 km	113	P
1.92 km	104	GATE-103
1.95 km	128	GATE-101
2.06 km	092	GAGE-105
2.90 km	111	P
3.43 km	111	P

Prev Page

N Course Up

GPS On/Off

Zoom Level 100

45

41

50

Exit

Next Page

TIMER 1

HELP ?

TIMER 2

SYSTEM MENU

FL   FR

TPMS

RL 9 RR

WAYPOINT SYMBOLS (Page 4)

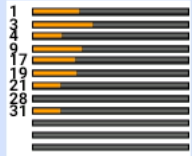The "SYSTEM MENU" text will toggle and show the ONIS data and time, every 2-3 seconds.
This toggling also indicates that the watchdog system is running in the background.

Waypoint symbol colours that will be displayed on the map page.

GPS INFORMATION (Page 5)

GPS information.

Visible satellites.
Ideally 5 or more satellites are required for accuracy.

ONIS OVERVIEW

SPEED ALERTS

SPEED ALERTS

The **ONIS** features a Speed Alert system comprising 3 different modes of operation:
1. **User Mode** - the user can manually set a value.

2. **Geofence Mode** - the **ONIS** uses **Geohashing** to perform offline **Geofencing** of areas and compare to pre-configured data records.
If an existing **Geofence Speed Alert** limit is found at the current location, this value will override the manual and adaptive settings.

3. **Adaptive Mode** – the **ONIS** uses the vehicle speed and acceleration parameters to determine the current **Speed Alert** setting.

NOTE:
It is recommended that the driver maintains a vehicle speed just under the "Speed Alert Setting" (eg. 1-2 km/h) to minimise "Alert Messages" due to the GPS small fluctuations in speed.
The **Speed Alert** (and modes) can be enabled / disabled using in the navigation App screens, however the default startup values are set in the **Default Settings** menu (available from the **Main Menu / System**).
The **ONIS** uses consecutive GPS data records to establish excessive speed and this can be delayed by up to 3 sec.
A minimum of 5 visible GPS satellites is required for the **Speed Alert System** to operate.

SPEED ALERT SETTING MENU
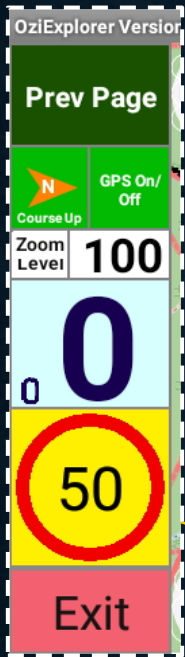
Select to display the setting menu.

Flashing yellow rings indicates the current Geofence setting.

Solid "light red" background indicates the current *Speed Alert*.

Select a speed button to select the *Speed Alert* setting eg 110 km/h.

SPEED ALERT SYSTEM

40 50 60 70 80 90 100 110

10 20 30

SET TOLERANCE (km/h)

0 +1 +2 +3
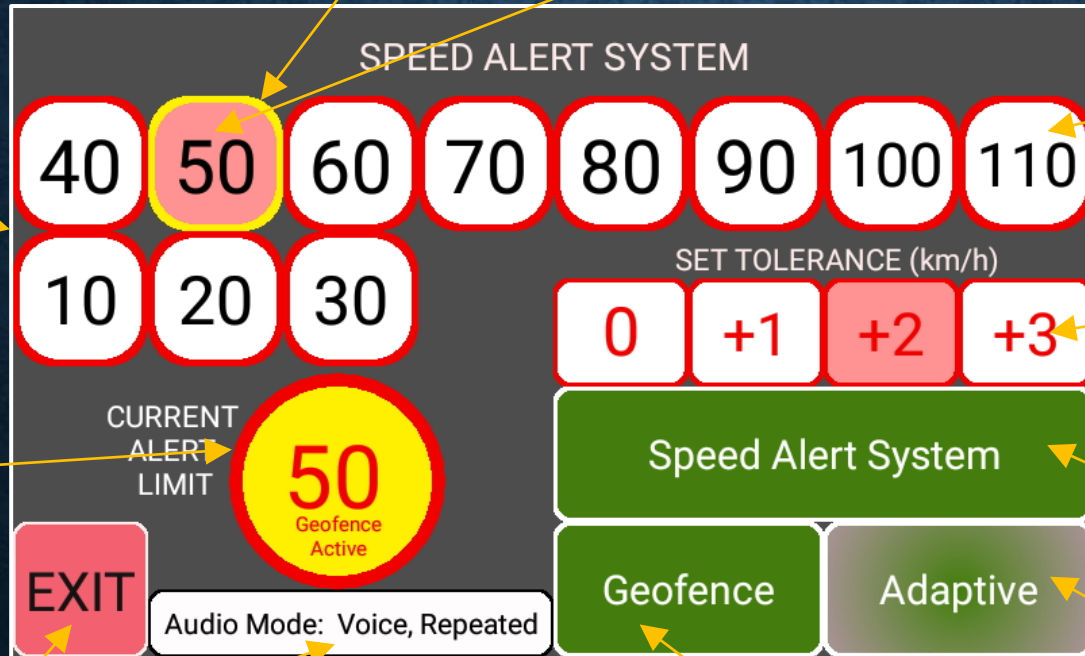
Set the tolerance km/h. (adaptive mode will default to 0)

CURRENT ALERT LIMIT

50 Geofence Active

Speed Alert System

Toggle the *Speed Alert* SYSTEM ON/OFF.

Displays the current *Speed Alert* and mode.

EXIT

Audio Mode: Voice, Repeated

Geofence

Adaptive

Exit back to the map screen.

Audio mode. *Voice* or *Beep*. *Once* or *Repeated*.

Toggle the Geofence mode ON/OFF. Green = enabled.

Toggle the Adaptive mode ON/OFF. Green = enabled. Grey / Green = Geofence enabled and overriding Adaptive mode.

OziExplorer Version

Prev Page

N Course Up

GPS On/ Off

Zoom Level 100

0

0

50

Exit

SPEED ALERT MODES

White background: User setting. Geofence and adaptive NOT enabled

Yellow outer square border: Geofence enabled but not active.

Long press to set the *Speed Alert* to the maximum & disable the adaptive mode.
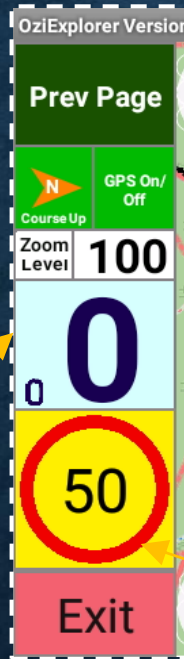
Yellow background: Geofence enabled & active.

Green background: Adaptive mode enabled.

Press to set the *Speed Alert* to the current vehicle speed (next higher 10 km/h increment).
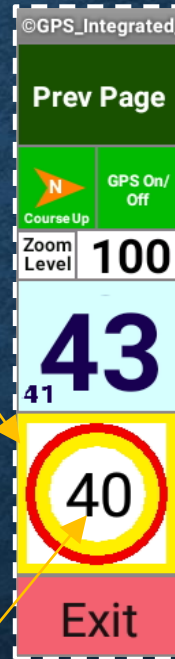
White background with a yellow ring: Geofence is available however the user speed alert is set lower.

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Prev Page

N
Course Up

GPS On/Off

Zoom Level | 100

78
73

80

Exit

OziExplorer Version

Prev Page

N
Course Up

GPS On/Off

Zoom Level | 100

0
0

50

Exit

©GPS_Integrated_

Prev Page

N
Course Up

GPS On/Off

Zoom Level | 100

43
41

40

Exit

©GPS_Integrated_S

Prev Page

N
Course Up

GPS On/Off

Zoom Level | 100

73
59

80

Exit
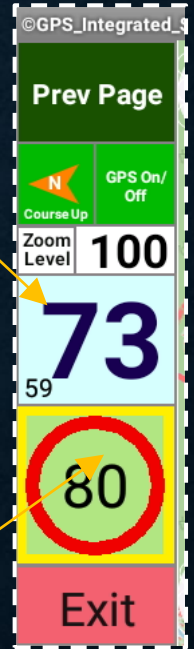
ADAPTIVE SPEED ALERT

Displays current vehicle speed km/h

Adaptive message will be displayed when a new Speed Alert setting is calculated based on the vehicle speed and acceleration.

Long press to set the *Speed Alert* to the maximum & disable the adaptive mode.

Displays current *Speed Alert* value.
Select to display *Speed Alert* setting menu.
Green background = Adaptive mode enabled.
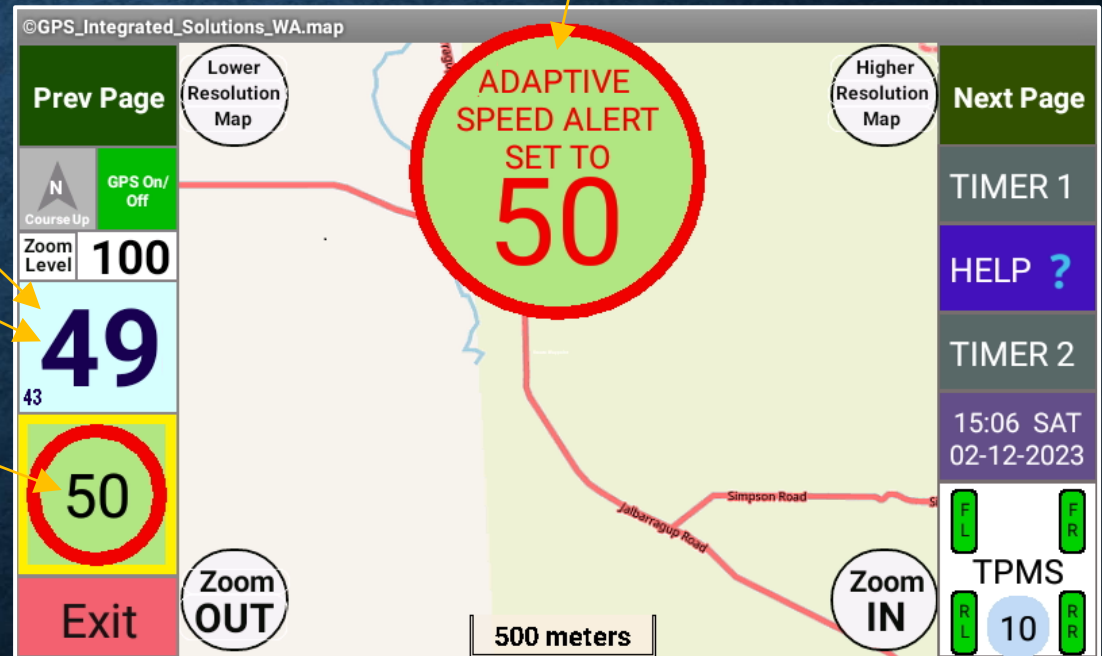
SPEED ALERT & SPEED ALARM MESSAGES

When the vehicle exceeds any of the pre-set speed limits, a *Speed Alert* or *Speed Alarm* message will displayed.

1. A *Speed Alert* advises that the vehicle is exceeding the *ONIS* speed limit and allows the driver to view the map and set another limit (dependant on owner options).

2. A *Speed Alarm* will be displayed when the *Geofence* system is enabled and the current location *Geohash* matches a pre-configured *Geofence* record which has been configured as "Critical" and the vehicle exceeds the *ONIS* speed limit. A *Speed Alarm* condition will block the entire screen with the exception of the current vehicle speed and prevent any *ONIS* user operation. The driver MUST slow down to view or operate the *ONIS*.

NOTE:
A minimum of 5 visible GPS satellites is required for the *Speed Alert System* to operate.

SPEED ALERT

Long press to set the **Speed Alert** to the maximum setting and toggle the adaptive mode.

Press to set the **Speed Alert** to the current vehicle speed (next higher 10 km/h increment).

Displays current **Speed Alert** setting.
Select to display menu.
The background colour indicates the mode.

Overspeed message.
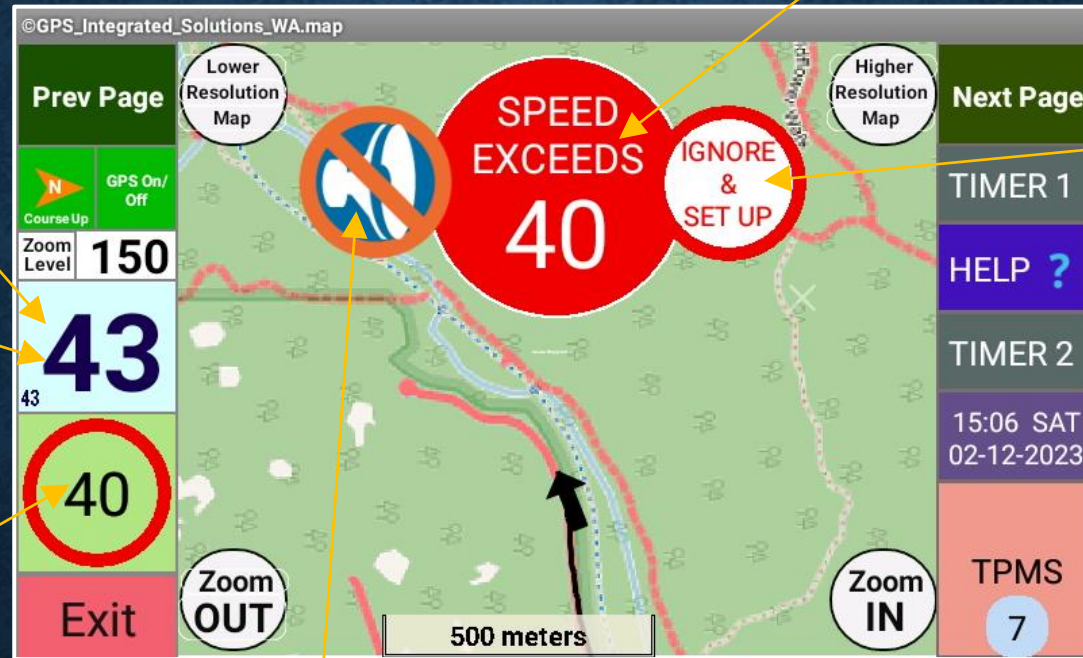
Press to set the **Speed Alert** setting to the current vehicle speed.
N/A if the Geofence is active.
N/A if the Speed alert is set to the maximum value.

Select to mute **Speed Alert**.
N/A if audio mode is set to "once"
N/A if disabled by owner.

©GPS_Integrated_Solutions_WA.map

Prev Page
Lower Resolution Map
Higher Resolution Map
Next Page

N Course Up
GPS On/ Off

Zoom Level 150

43
43

40

SPEED EXCEEDS 40

IGNORE & SET UP

TIMER 1

HELP ?

TIMER 2

15:06 SAT 02-12-2023

TPMS 7

Exit
Zoom OUT
500 meters
Zoom IN

SPEED ALARM

SPEED ALARM

22 **20 Km/h**

SLOW DOWN

Displays the current **Speed Alert** setting.

Displays the current vehicle speed.

LOW PRESSURE ALARM SPEED ALERT

If the ***TPMS*** low pressure alarm is set below 20 PSI, a continuous audio alarm message will be displayed when the speed exceeds 60 km/h.

Select to accept and ignore the low pressure alarm.

SPEED ALERTS

GEOFENCE MESSAGES

GEOFENCE MESSAGES

The **ONIS** calculates the current location **Geofence** using the **Geohash** algorithm (every 5 seconds) and if this **Geofence** match's a preconfigured data set contained in the **ONIS**, the associated message will be displayed on the screen.

The **Geofence** has the capability of displaying different colours, audible sounds and a long message page screen.

GEOFENCE MESSAGE

The **ONIS** features a Geofence messaging system using the Geohash mathematical algorithm which compares the current location Geohash to pre-set data entries.
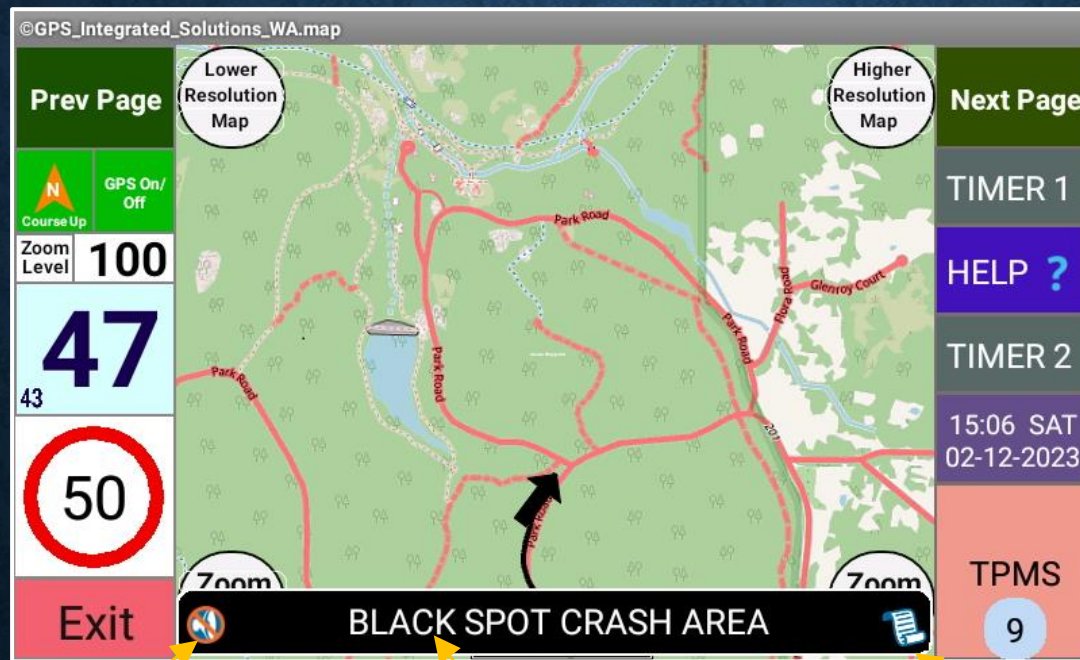
Press to mute the message.

Geofence Message.

Press on the "scroll" symbol to display to display Additional **Geofence Long Message** information.

GEOFENCE LONG MESSAGE

Black Spot Program - About the program
The Australian Government is providing $110 million each year to the Black Spot Program.
Road crashes are a major cost to Australians every year. Black Spot projects target those road locations where crashes are occurring or are at risk of occurring. By funding measures such as traffic signals and roundabouts at dangerous locations

◀

Scroll screen up & down to view information

Example of a **Geofence** long message**.**

GEOFENCE MESSAGES

FATIGUE TIMER

FATIGUE TIMER

The **ONIS** features an integrated *Fatigue Timer* which does not require any user input and is fully automated - simply drive the vehicle and then rest when the message is displayed.

If the *Fatigue Timer* is enabled, it will only start timing once the vehicle speed exceeds 75 km/h and will then continue to timeout regardless of speed.

A small flash message is displayed every 5 seconds at the top of the screen providing the driver with the driving or rest remaining time status.

Once the *Fatigue Timer* has finished, there are only 3 ways to reset the timer:
1. Park the vehicle and rest for 10 minutes minimum with the GPS App running
2. Park the vehicle and allow the **ONIS** to power down for a minimum of 10 minutes
3. Park the vehicle and toggle the enable / disable *Fatigue Timer* in the setup menu.

FATIGUE TIMER

The **ONIS** features a 2 hour integrated automated **Fatigue Timer** which can be enabled or disabled from the **SYSTEM & SETTINGS / Default Settings** menu.

The **Fatigue Timer** finished message will be displayed after 120 minutes has elapsed.

An overrun message will indicate the exceeded time, past the 120 minutes.
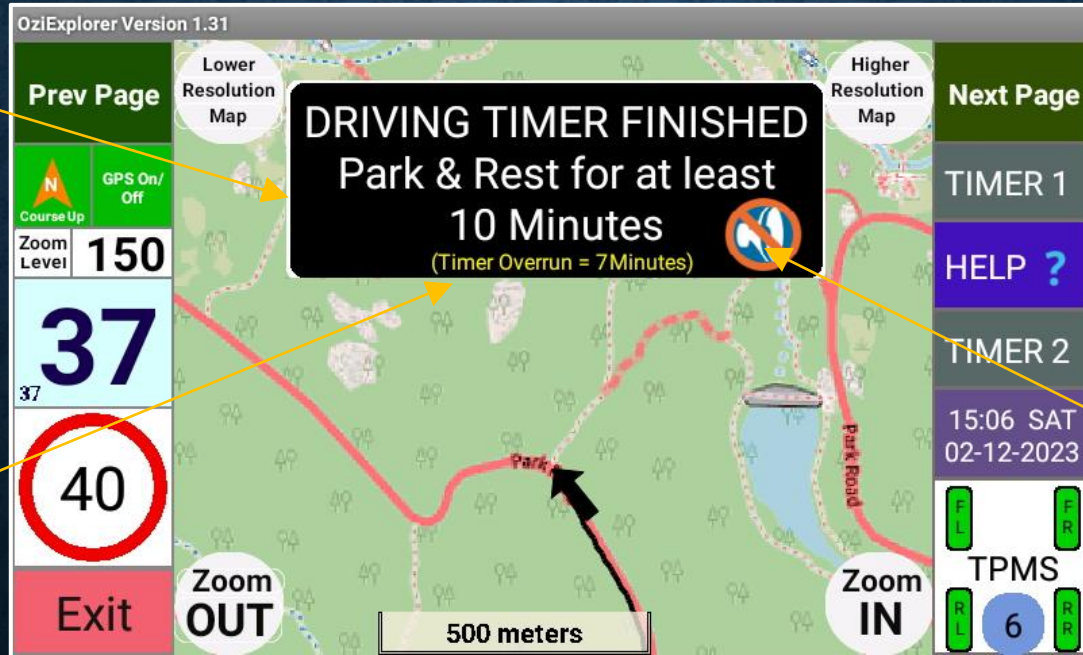
Select to mute the **Fatigue Timer**.

FATIGUE TIMER SEQUENCE MESSAGES

One of the following messages will be displayed every 5 seconds (approx.)

120 MIN TIMER WILL START > 75 km/h

The fatigue timer will become active once the vehicle speed has exceeded 75 km/h.

DRIVING TIME REMAINING = 82

Displays the remaining driving time after the timer is active.

REST TIMER = 3 (TARGET > 10)
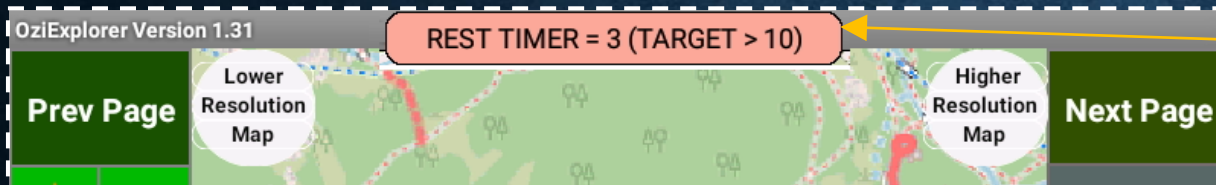
Displays the remaining rest time required prior to resetting the timer.

RESTING OK - TIMER RESET TO 120

Indicates that the 10 minute rest time has been completed.

LOADING WAYPOINTS

User Waypoints are found in this folder
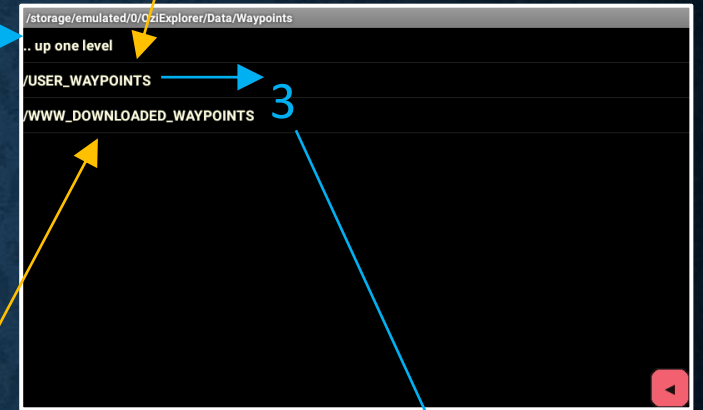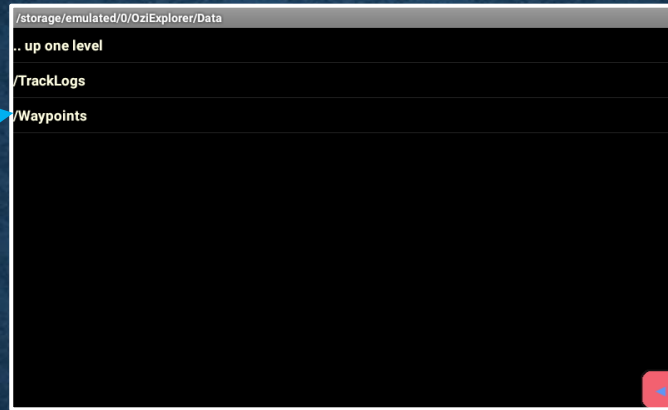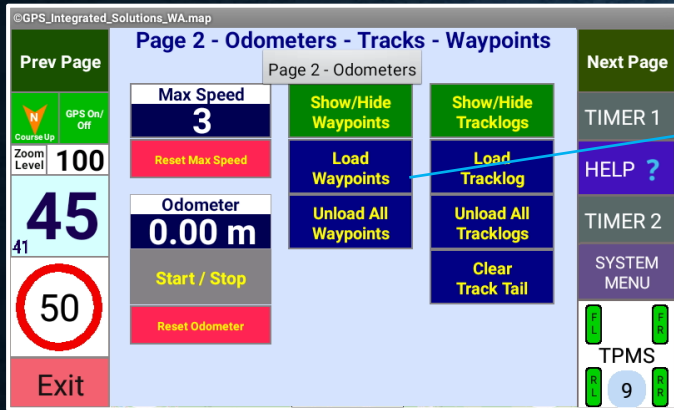
WWW downloaded Waypoints can be loaded from here
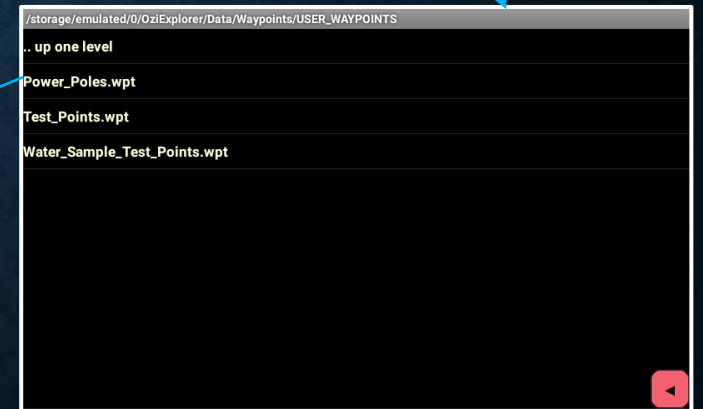
The loaded Waypoint set of points will now be displayed on the map

LOADING TRACKLOGS

User Tracklogs are found in this folder
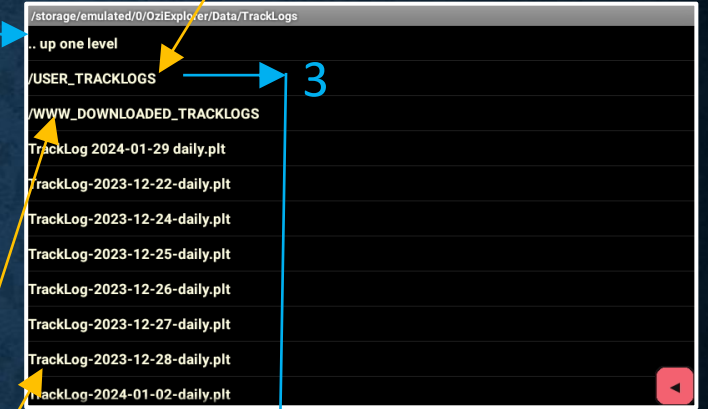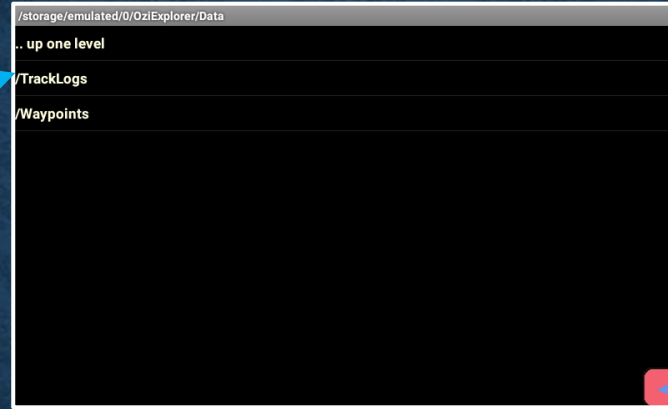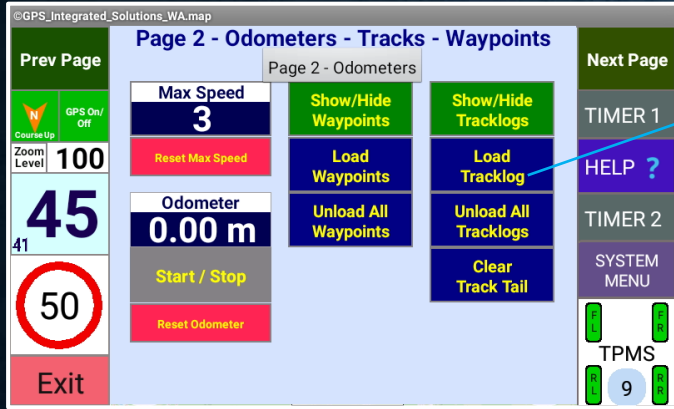
WWW downloaded Waypoints can be loaded from here

These are the daily captured Tracklogs (max 30 logs)

The loaded Tracklog will now be displayed on the map
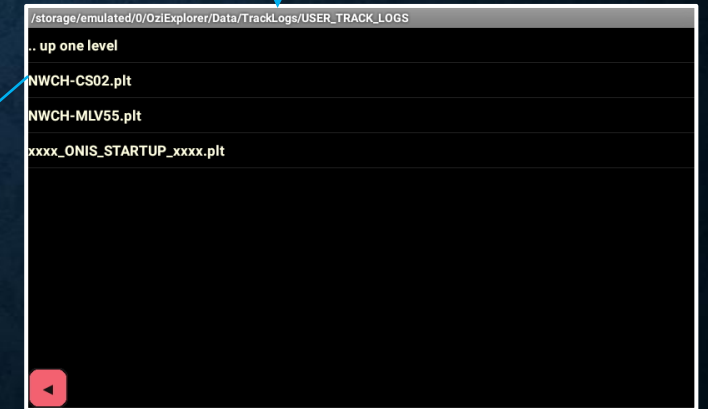
LOADING TRACKLOGS

COUNT DOWN TIMERS

COUNT DOWN TIMERS

The *ONIS* features two count down timers – 120 minute and 12 hour.

The timer settings are easily accessible set using menus with large buttons and pre-set *QUICK SET* times, or the user can increment the manual slider bar.

Both timers retain the timer values after an *ONIS* or navigation App restart

The 120 minute timer also features an overrun message which provide the user with the time that has exceeded the set time.

COUNT DOWN TIMERS

Timer Overrun message will flash every 5 (seconds (approx.) until Timer 1 is cancelled or reset.
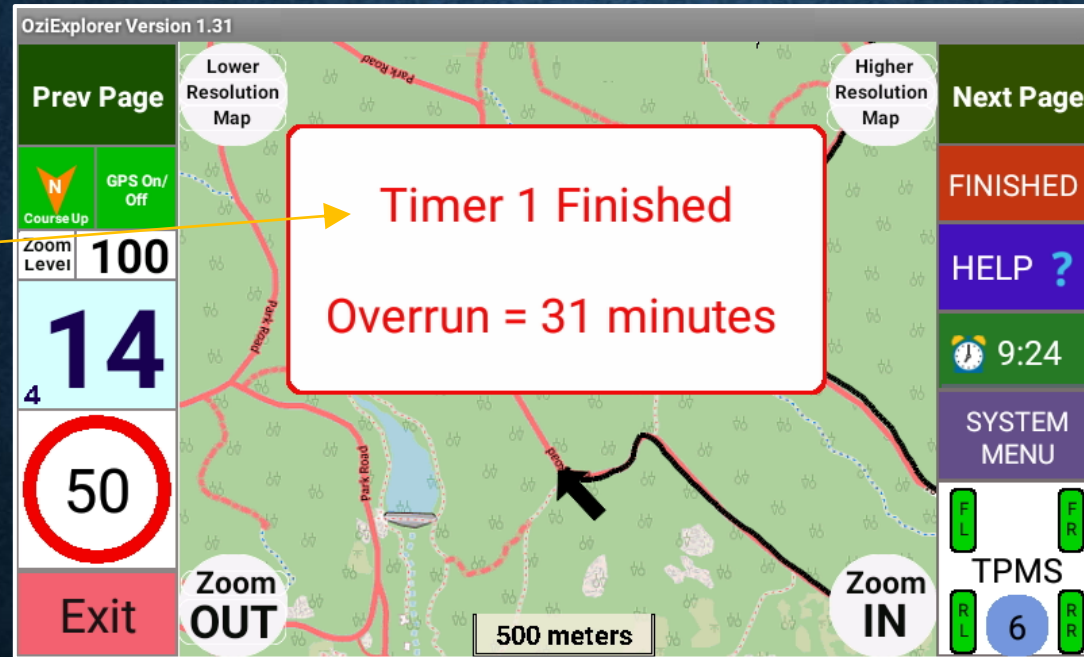
Select this button to access timer 1 settings. Timer 1 has finished.

Select this button to access timer 2 settings. 9 hours and 24 minute remaining on timer 2.

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Prev Page

Lower Resolution Map

Higher Resolution Map

Next Page

FINISHED

N Course Up

GPS On/ Off

HELP ?

Zoom Level 100

9:24

14
4

SYSTEM MENU

50

Timer 1 Finished

Overrun = 31 minutes

F L

F R

Exit

Zoom OUT

Zoom IN

TPMS

500 meters

R L

6

R R

When a timer has finished, an audio voice alert will be played every 5 seconds at the maximum volume.

120 MINUTE COUNT DOWN TIMER

Easy set Count Down timer commands.

TIMER 1 SETTING MENU

10 minutes	20 minutes	30 minutes
60 minutes	90 minutes	120 minutes

Manually set the timer down.

Manually set the timer up.

Disable the timer.

Disabled

− 0 120 +

◀ Exit

Timer 1 Overrun:
None

Cancel & EXIT

Exit back to the map screen.

Timer overrun will display the time that has expired since the timer finished.

Cancel the timer and exit back to the map screen.

12 HOUR COUNT DOWN TIMER

Easy set Count Down timer commands.

Manually set the timer down.

Manually set the timer up.

Disable the timer.

TIMER 2 SETTING MENU

1 Hour	2 Hours	3 Hours	4 Hours	5 Hours	6 Hours
7 Hours	8 Hours	9 Hours	10 Hours	11 Hours	12 Hours

Enabled

− 0   360   720 +

◄ Exit

⏰6:00

Cancel & EXIT

Time remaining.

Exit back to the map screen.

Cancel the timer and exit back to the map screen.

COUNT DOWN TIMERS

TPMS

TYRE PRESSURE MONITORING SYSTEM (TPMS)

The **ONIS** features and integrated Tyre Pressure Monitoring System (**TPMS**)

The **TPMS** monitors all enabled wheel sensors in real time and if an alarm condition occurs, the navigation App will close whilst displaying **TPMS** alarms screens with an audible alarm at maximum volume.

The **TPMS** status can be viewed (settings can only be performed from the **TPMS Configuration** App available in the **ONIS Main Menu**)

The **ONIS TPMS** system also incorporates our own bluetooth traffic monitor for the **TPMS** BLE wheel sensors allowing the **ONIS** to also determine if a sensor has failed.

All **TPMS** alarms are logged with the information available for viewing in the **SYSTEM & SETTINGS** menu, or downloadable to a PC.

TPMS

The **ONIS** integrated **TPMS** system can monitors up to 4 enabled Bluetooth wheel sensors in real time for pressure fluctuations, whilst also monitoring the sensor health.
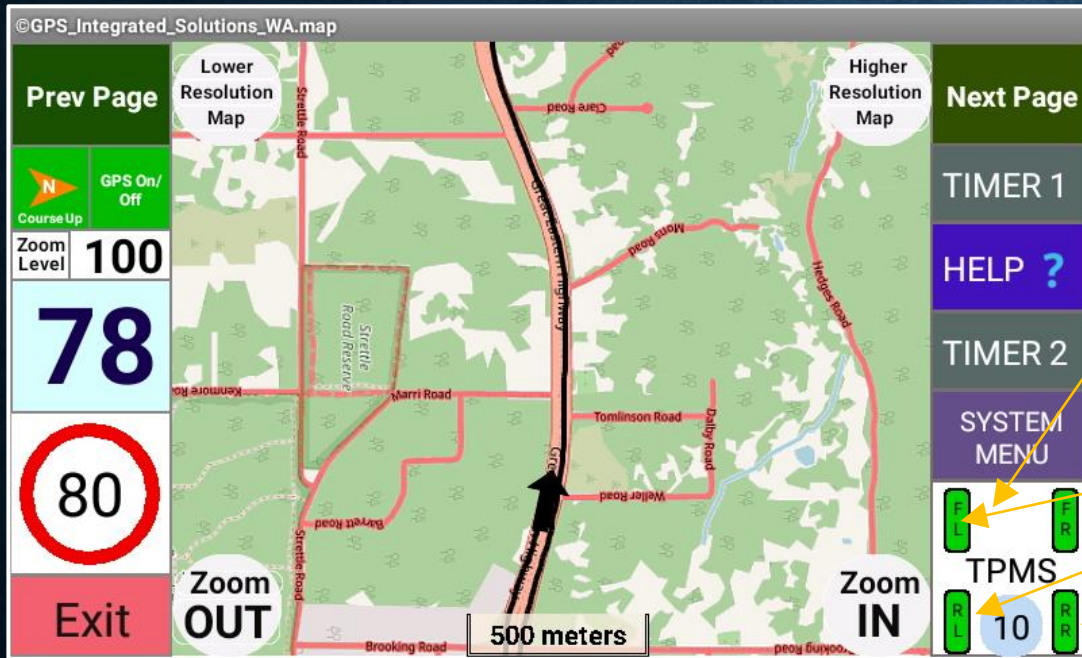
Select to display the **TPMS** overview screen.

TPMS sensor health.
Green = OK.
Grey = Searching for sensors.
Red = Sensor not found.

TPMS SENSOR MONITORING

The following colours will be displayed for the *TPMS* System
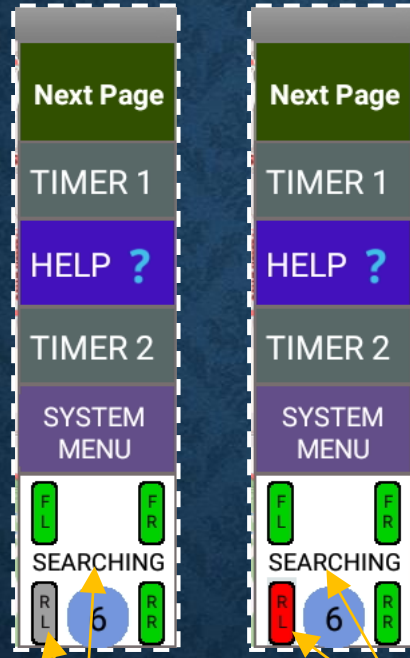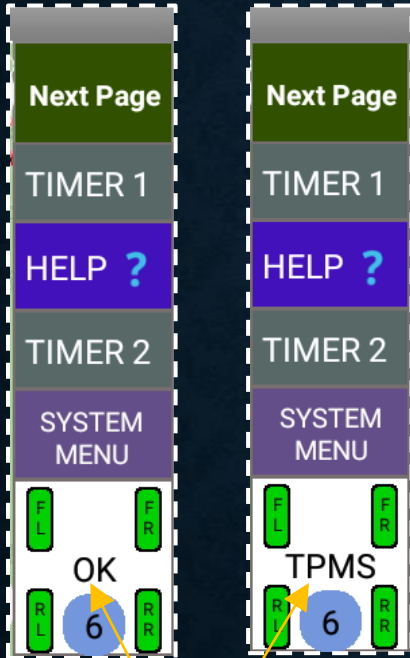
All enabled sensors are green (OK). The OK / *TPMS* message will toggle every 5 seconds.

The *Rear Left* sensor has not yet been found.

The *Rear Left* sensor has not been found in the pre-set time and should be checked.

The *TPSM* is disabled. The background will be red and the TPMS / DISABLED message will toggle every 5 seconds.

NAVIGATION APP STARTUP WITH AN EXISITNG TPMS ALARM

Existing "Current Alarm Message" and countdown to exit.
If the alarm condition changes to OK, the startup will
continue automatically.

Front Left (Sensor 1)
Press and Temp.

Right Front
(Sensor 2) in
alarm condition.

Displays the low
pressure setting.
The background
colour will be
green if the
pressure is over
25 PSI, and red if
under 25 PSI.
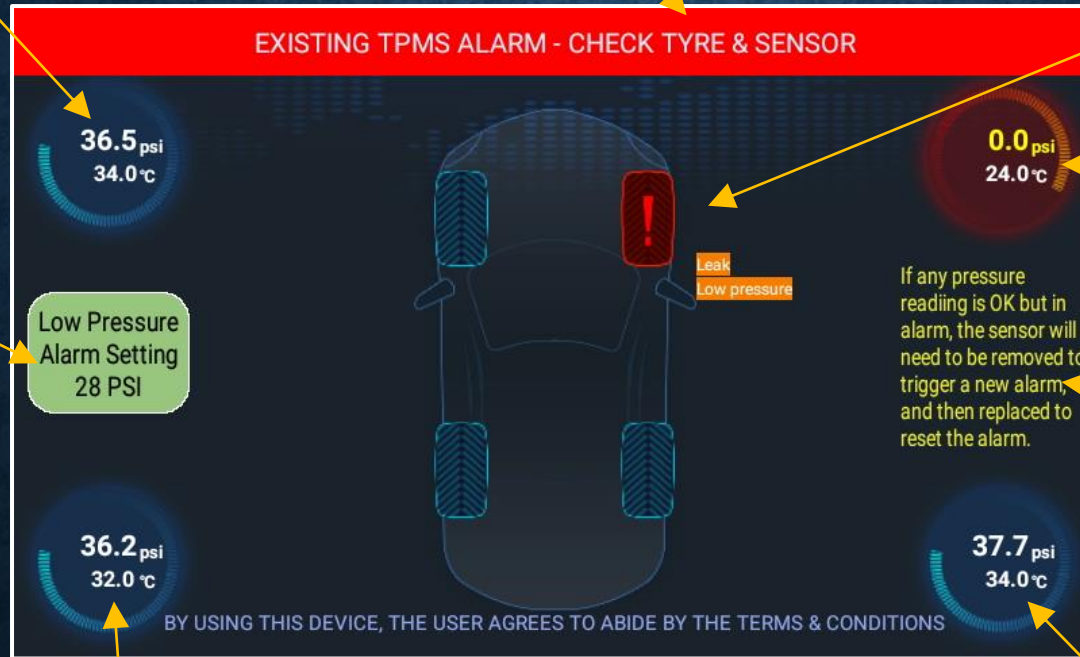
Front Right (Sensor 2) Press
and Temp.
Red circle indicates "Alarm"

Information message
about sensors that are
red but pressure is OK.

Blue circle indicates "OK"
Rear Right (Sensor 4)
Press and Temp.

Rear Left (Sensor 3)
Press and Temp.

EXISTING TPMS ALARM - CHECK TYRE & SENSOR

36.5psi
34.0℃

0.0psi
24.0℃

Leak
Low pressure

Low Pressure
Alarm Setting
28 PSI

If any pressure
readiing is OK but in
alarm, the sensor will
need to be removed to
trigger a new alarm,
and then replaced to
reset the alarm.

36.2psi
32.0℃

37.7psi
34.0℃

BY USING THIS DEVICE, THE USER AGREES TO ABIDE BY THE TERMS & CONDITIONS

TPMS VIEW SCREEN

The **TPMS** view screen can be displayed whilst the navigation App is running.
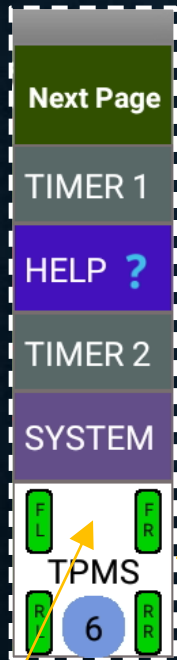
Front Left (Sensor 1) Press and Temp.

Sensor 1 ID.

Sensor 2 ID.

Front Right (Sensor 2) Press and Temp.

If any sensors report back a value less than this, then there will be a **TPMS** alarm.

Next Page

TIMER 1

HELP ?

TIMER 2

SYSTEM

FL FR
TPMS
RL 6 RR

INFORMATION ONLY

35.6 psi
32.0 ℃

121A6F

21A5B5

35.2 psi
29.0 ℃

Low Pressure Alarm Setting 28 PSI

Disable Screen Auto Exit
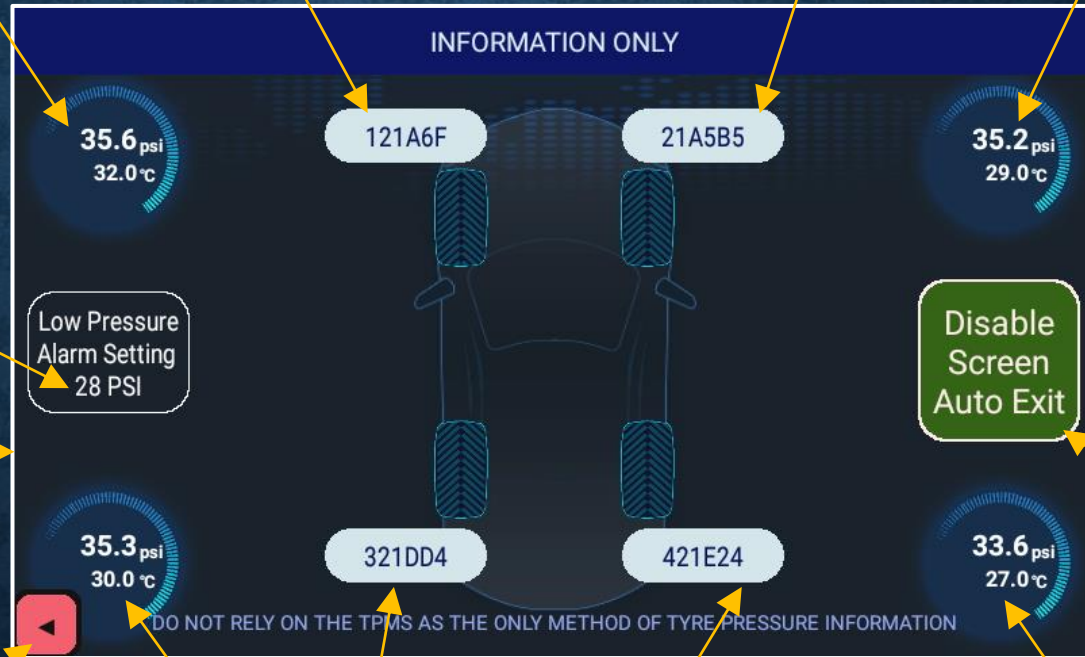
Select this button to disable the 15 second automatic screen exit.

35.3 psi
30.0 ℃

321DD4

421E24

33.6 psi
27.0 ℃

DO NOT RELY ON THE TPMS AS THE ONLY METHOD OF TYRE PRESSURE INFORMATION

** START HERE ** Select this button to display the *TPMS* overview Screen.

Exit back to map screen.

Sensor 3 ID.

Rear Left (Sensor 3) Press and Temp.

Sensor 4 ID.

Rear Right (Sensor 4) Press and Temp.

TPMS ALARM

If the **ONIS** detects a **TPMS** alarm condition, the **ONIS** will automatically shutdown the navigation App, log all the data and then display the alarm screens with an associated audio beep (set at max volume and not configurable by the user).

Select to mute the **TPMS** alarm.

Wheel that initiated the **TPMS** Alarm.

Select to mute the **TPMS** alarm.

TPMS ALARM - PARK THE VEHICLE

© GPS Integrated Solutions 2021

Select "Pop-up" to exit back to the main menu.

Screen Log Finished, User can now continue & Exit

21.7psi
21.0℃

32.2psi
24.0℃

Leak
Low pressure

37.2psi
19.0℃

37.0psi
21.0℃
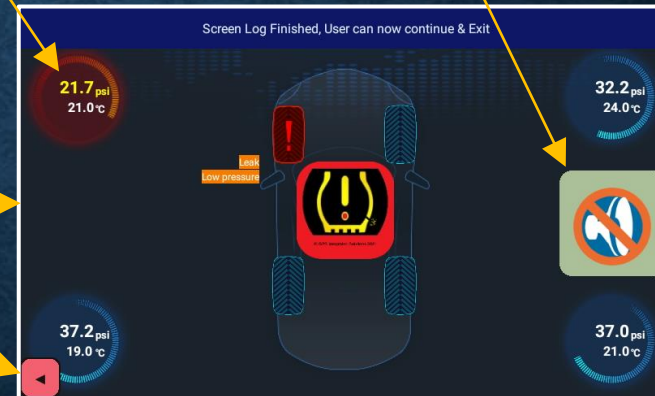
Firstly, this screen will be displayed whilst the **ONIS** is closing the navigation App.

Secondly, this screen will be displayed whilst the **ONIS** is saving the log data information.

TPMS

SYSTEM MENU

SYSTEM MENU

The **SYSTEM** Menu in the navigation App allows the user to display the "Volume/ Brightness" menu, reboot the **ONIS**, and displays the current Geofence information.

The Geofence information displayed reflects the data records (if the Geofence is active) used by the **ONIS** to compare the current location.

The "Owner Geofence Message Editor", "Owner Waypoint Manager Tool" and "Owner Track Log Tool" are not available to the standard user.
These menu options provide tools for the owner to configure **Geofence Messages, Waypoints** and **Tracklogs** using the **ONIS**.

REFER TO THE OWNER OPTIONS DOCUMENT FOR ENABLING / DISABLING THESE OPTIONS.

SYSTEM MENU
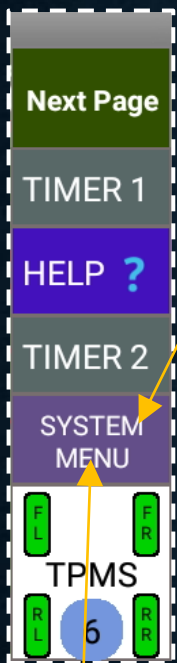
"Long Press" to increase the screen brightness for 5 seconds when low brightness.

Maximum daily average and maximum speed.

ONIS battery temperature ad capacity remaining

Current precision 9 Geohash calculated location.

Display the Volume and Brightness menu.

Next Page

TIMER 1

HELP ?

TIMER 2

SYSTEM MENU

TPMS

LV453 SYSTEM MENU

100	MAXIMUM DAILY SPEED	98
(Max)	(km/h)	(Rolling Ave)

Set Volume & Brightness

ONIS BATTERY
100 % 39 deg C

Add OziExplorer Waypoint

Single Waypoint add. Waypoint will be deleted after reboot.

Geohash Current Location

qd6d94d94

Geofence Active Message

qd6d9qd
Geofence7UserMessages.csv
Test

Displays (if any) the current *Geofence Message*.

Geofence Active Speed Alert

qd6d94ds
Geofence8UserSpeedAlerts.csv
40 km/h

Displays (if any) the current *Geofence Speed Alert*.

EXIT i ? **REBOOT**

** START HERE **
Select this button to display the System Menu.

Exit back to map screen.

Displays the Waypoint, Tracklog and Geofence data.

Display the SYSTEM Help.

Backup data & log files and reboot the *ONIS*.

SYSTEM MENU

WAYPOINT ADD – USER MODE

WAYPOINT ADD – USER MODE

The user can add temporary Waypoints by two methods.

1. Adding the Waypoint to the a point on the map.
Turn off the GPS on the main screen and then drag the map so that the centre "Cross Hair Circle" is on the desired Waypoint position.
Then tap on the "Cross Hair Circle" and a "WP" number eg. WP0 will be displayed in yellow.

2. Using the current position or add using a location coordinate.
The user added Waypoint will display the name of the current time in HHMM.
e.g. 11:23AM will have a Waypoint name of 1123.

The user added Waypoints will be deleted once the *ONIS* is restarted and only the owner Waypoint add tool will ensure the Waypoints will remain permanent.

Each users can delete, import or save their own Waypoints (password is required).

WAYPOINT ADD – USER MODE
Adding Waypoints Using A Map Point

1. Turn the GPS receiver OFF.

5. Turn the GPS receiver ON.
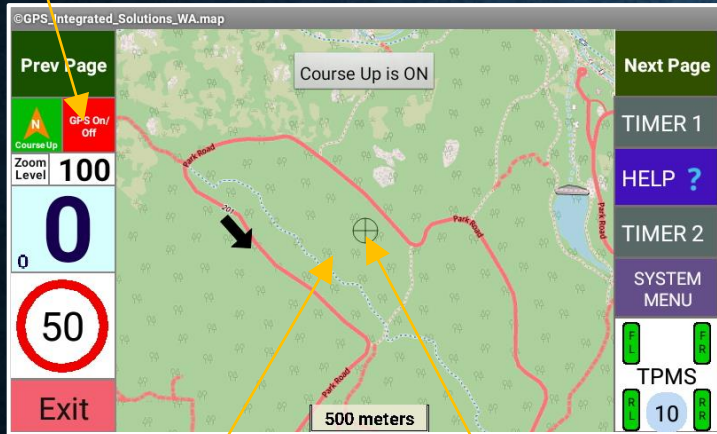
2. Drag the map to the desired location.

3. Tap on the "Cross Hair Circle".
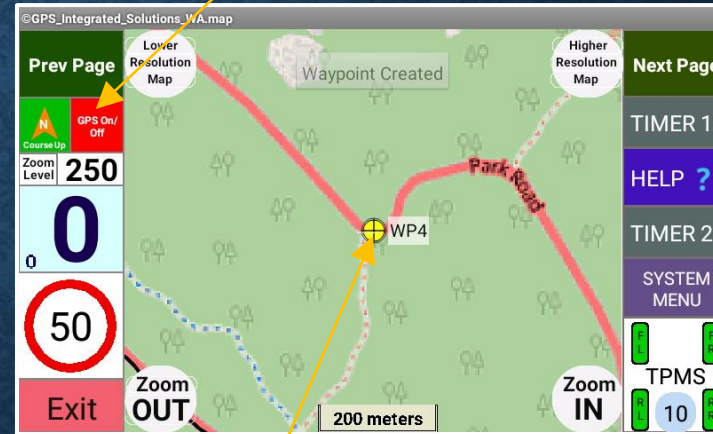
4. WP4 now displayed and saved.

WAYPOINT ADD – USER MODE
Adding Waypoints Using The Current Position Or Coordinates

Reset to the current location.

Displays the current location.

If desired, edit and display the new coordinates that will be saved to the Waypoint .
This option is N/A if the vehicle is in motion.

Save & exit adding the Waypoint.

Save as permanent. Password is required.

Exit without adding the Waypoint.

Display the help information.

OziExplorer Add Single Waypoint Tool

Reset to Current Location

Current location

-31.889895   S   116.077495   E

-31.889895   S   116.077495   E

⏫ ⏫ ⏫ Select to edit new location ⏫ ⏫ ⏫

NOTE:
USER CREATED WAYPOINTS ARE ONLY TEMPORARY AND WILL BE DELETED
WHEN THE OZIEXPLORER APP IS CLOSED.
THE OWNER DEFAULT WAYPOINTS WILL BE LOADED.

?

Save & Exit

Save As Permanent

Exit Without Saving

WAYPOINT ADD – USER MODE

VOLUME MENU

VOLUME / BRIGHTNESS MENU

This menu allows the user to change the current volume and brightness values.

Changes in this menu is only set for the current navigation App session and the default values will be used when the *ONIS* or navigation App is restarted.

Changes to the default settings can be performed in the *SYSTEM & SETTINGS* menu available from the *Main Menu*.

NOTE:
The "Auto" brightness mode is based on the calculated Sunrise and Sunset times for the current location and then adjusted for twilight settings.

VOLUME / BRIGHTNESS MENU

- / + to increment brightness UP / DOWN.
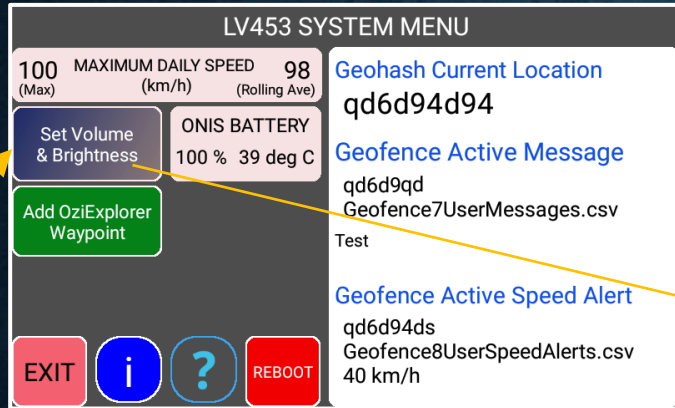
Displays current brightness (max is 255).

Select brightness mode. Green will indicate the selected mode.

Use slider bar to adjust.

Next Page

TIMER 1

HELP ?

TIMER 2

SYSTEM MENU

F L | F R

TPMS

R L | R R | 6

LV453 SYSTEM MENU

100 (Max)	MAXIMUM DAILY SPEED (km/h)	98 (Rolling Ave)

Geohash Current Location
qd6d94d94

Set Volume & Brightness

ONIS BATTERY
100 % 39 deg C

Geofence Active Message
qd6d9qd
Geofence7UserMessages.csv
Test

Add OziExplorer Waypoint

Geofence Active Speed Alert
qd6d94ds
Geofence8UserSpeedAlerts.csv
40 km/h

EXIT | i | ? | REBOOT

** START HERE **
Select this button to display the
System Menu.

Display the volume help.

Displays current volume (max is 15).

- / + to increment volume UP / DOWN.

Exit back to *SYSTEM* screen.

ADJUST VOLUME / BRIGHTNESS

Min | BRIGHTNESS | Max

255 | − | +

?

Night | Day | **Auto** | Sunrise @ 07.16 AM | Sunset @ 17.27 PM

Min | VOLUME | Max

3 | − | +

◀ **Exit** | Set Volume to Mute and Exit | Set Volume to Min and Exit | Set Volume to Max and Exit

Use slider bar to adjust.

Quick set volume buttons.

KNOWN ISSUES, FAULTS & BUGS

(not covered by warranty or consumer guarantees)

Q. Why do I sometimes get a OziExplorer trial message popup?

This may be a bug with the OziExplorer App- Exit & restart the App.

If there is NO "trial message" when starting the App, then the App is licensed.

If the license key is not valid, OziExplorer will display the trial mode message at every startup and then periodically when the App is running

Contact **GPSIS** if the message is displayed at every App startup.

Q. Why does the screen (on occasion) change to the last page when I press the exit button?

This may be a bug with the OziExplorer App.

Contact **GPSIS** if this behavior becomes consistent.

Q. Why do I occasionally see large high speed fluctuation followed by a low speed fluctuation?

The **Personal Navigation Device (PND)** device receives GPS **National Marine Electronics Association (NMEA)** messages. Sometimes a message is missed and the calculation for speed is based on the GPS location and time. If a **NMEA** message is missed, the GPS location will be incorrect when the speed calculation is performed.

Q. Why is my position on the **ONIS** not correct when I am travelling?

Check and confirm that are at least 6 satellites visible, as fewer satellites will affect the location accuracy.

Q. Why do I see many black track tail lines around my current location even though I am stationary?

The **PND** device receives GPS **NMEA** messages. Small fluctuations are within the margin of error. Sometimes a message is inaccurate causing GPS location to be in a different position for one message scan.

Clearing the "Track Tail" will clear these track lines.

Q. Why do I get small value (eg 2.9 km's) in the "Daily Distance Travel Log" when the vehicle has been stationary?

The **PND** device receives GPS **NMEA** messages. Small fluctuations are within the margin of error. Sometimes a message is inaccurate causing the GPS speed to fluctuate.

Even thought these speeds may be low, the **ONIS** performs distance calculations based on speed. Ensuring that the **ONIS** has good clear vision to find the GPS satellites will minimise the errors.

Q. Why do I get a small value (eg 7 km/h) in the "Daily Maximum speed Log" when the vehicle has been stationary?

The **PND** device receives GPS **NMEA** messages.

Sometimes a message is inaccurate or missed causing the GPS speed to fluctuate.

The **ONIS** logs the maximum speed based on the GPS **PND** information.

Ensuring that the **ONIS** has good clear vision to find the GPS satellites will minimise the errors.

Q. Why do only some of the buttons on the screen have audio click sounds when I press them.

The OziExplorer App does not support click sounds for button press.

The click sounds from the other buttons are in other **ONIS** Apps that run in the background.

Q. Why are there some parts of the **Open Street Maps (OSM)** map missing when I select the "More Detailed" **OSM** map?

Some small pieces of the map tiles downloaded are missing - typically between the individual **OSM** tiles. Use the "Less Detailed" map over this area if this becomes a problem.

Q. Why are all the descriptions in my map upside down or sideways when I have selected **Course Up** in the navigation App?

OziExplorer users raster maps and these are created "north up" (same as an atlas).
When any labels or descriptions are added, they are also "north up".
When the GPS mode is set to **Course Up**, the map image is rotated to suit the direction of the vehicle movement. If this becomes a problem, use **North Up**

Q. Why do I occasionally see a grey screen with a "Bluetooth Restarting" message?
If the **ONIS** detects that ALL enabled sensors have not received any bluetooth communication messages in a 30 minute (approx.) window, the **ONIS** will restart the bluetooth activity.
If the user routinely sees these messages every 30 minutes (Approx.), restart the GPS App.

Q. What do I do when there is no digital speed displayed but there are more than 5 satellites visible?
Close the navigation App and restart, or perform an ONIS reboot.
Contact **GPSIS** if this problem becomes consistent .

Q. On rare occasions, the ONIS is powered up but I can't see any visible satellites.

Our experience has been, If you are in clear open space and have 0 satellites visible after 2-3 minutes after an *ONIS* restart, check the satellite visibility from the System Menu option. If the problem is consistent after every *ONIS* restart, contact *GPSIS*.

Q. On rare occasions, when I start the GPS App with the TPMS enabled with *NO TPMS* previous alarm condition, why do see an alarm (red) indicating a leak when the pressure is OK?

There is a feature in the *TPMS* software App which if the sensor is knocked / vibrated, causes the *TPMS* App to register a leak. *GPSIS* does not use this feature whilst the GPS App is running, however we do monitor any existing alarms using the red colour on startup.

NOTE:
This DOES NOT affect the *TPMS* alarm function whilst driving as the *ONIS* uses both the red colour and audio, to determine a *TPMS* alarm condition

Q. When I start the GPS App with the *TPMS* enabled after a *TPMS* previous alarm condition, why do see an alarm (red) when the pressure is OK?

If the *TPMS* App is shutdown with an existing alarm, the next time the App starts up it will display and alarm even if the pressure is OK.

This is due to the *BLE* sensors being "report by exception"

Remain in the GPS App for the duration of the 180 second timer. If the sensor is found (reports back to the *ONIS*) in the this time, the startup up will progress automatically.

OR,

Exit from the GPS App and start the "*TPMS* Settings" App. Remove and reattach the wheel sensor to force a "*TPMS Alarm Test*" condition.

Restart the GPS App.

Q. What is the GPS accuracy of the *ONIS*?

Trees, clouds, buildings, the mounting location or any other obstruction can affect the satellite visibility leading to poorer accuracy. Typically with good visibility, the user can expect around +/- 10m.

MAP & DATA CONTRIBUTORS

OziExplorer maps & data have been sourced from:

© Commonwealth of Australia (Geoscience Australia)
www.ga.gov.au

OpenStreetMap data is available under the Open Database License
© OpenStreetMap contributors
www.openstreetmap.org/copyright

© Government of Western Australia (dataWA)
www.data.wa.gov.au

Other providers as displayed when the *ONIS* navigation app starts.

Data is available under the Creative Commons Licenses
www.creativecommons.org

GPS Integrated Solutions gratefully thanks all map &data contributors.

Note: All data produced by *GPSIS* using data from other contributors under the *Common Creative* licenses is not for sale and is included free of charge on an "as is" basis.

WAYPOINT MANAGER – OWNER MODE

The "OziExplorer Waypoint Tool" menu provides the owner with a tool to add & manage Waypoints.

The owner can choose from a number of pre-configured "quick set" icons to configure a Waypoint.

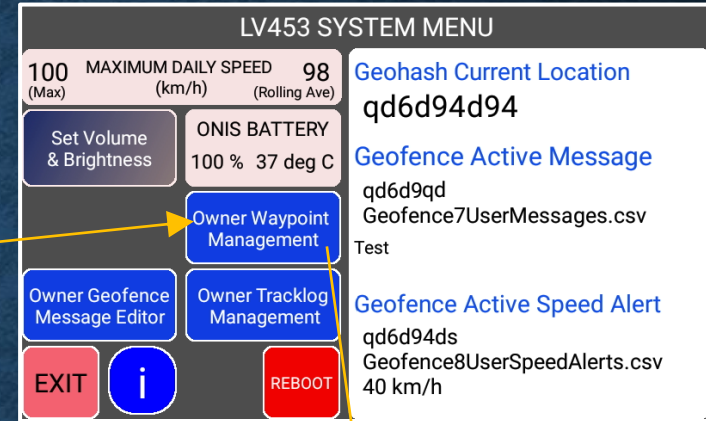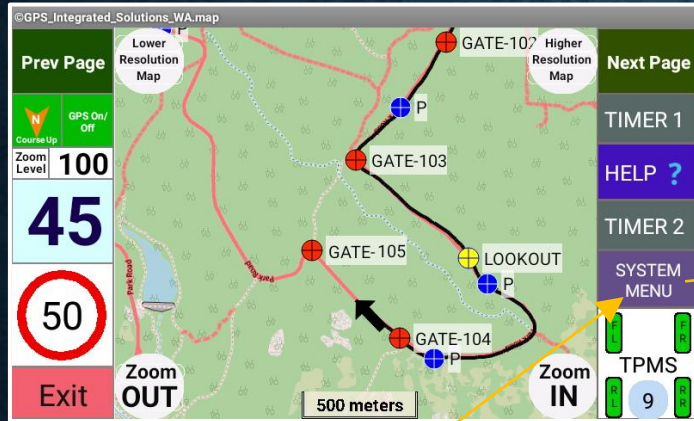If the vehicle is stationary, the "Name" and "Coordinate" options can be edited with new details, if desired.

Once an Waypoint icon has been selected, the "Save & Exit" option will be available.

The bottom of the screen will show how the Waypoint will appear on the map page.

If the vehicle is stationary, the "Manage Waypoints" option is also available allowing the owner to edit/delete any of the saved Waypoints.

WAYPOINT MANAGER – OWNER MODE

GPS map screen:
©GPS_Integrated_Solutions_WA.map

Prev Page | Lower Resolution Map | Higher Resolution Map | Next Page
GPS On/Off · Course Up · N
Zoom Level 100
45
50
Exit · Zoom OUT · 500 meters · Zoom IN

TIMER 1
HELP ?
TIMER 2
SYSTEM MENU
TPMS 9

GATE-102, GATE-103, GATE-105, LOOKOUT, GATE-104, P

LV453 SYSTEM MENU

100 (Max)	MAXIMUM DAILY SPEED (km/h)	98 (Rolling Ave)

Set Volume & Brightness | ONIS BATTERY 100 % 37 deg C

Owner Waypoint Management
Owner Geofence Message Editor | Owner Tracklog Management
EXIT | i | REBOOT

Geohash Current Location
qd6d94d94

Geofence Active Message
qd6d9qd
Geofence7UserMessages.csv
Test

Geofence Active Speed Alert
qd6d94ds
Geofence8UserSpeedAlerts.csv
40 km/h

** START HERE **
Select this button to display the *System Menu*.

OziExplorer Waypoint Tool

Road Direction | Destination | Road House | 24 Hour Parking | Parking | Parking With Shade | Overtaking Lane Start | Overtaking Lane End | Asset Location

Tap on ICONS to enter waypoint colour & name

Camping | POI | Medical Facility | Floodway | Danger Zone

Manage Loaded Waypoints
Manage Saved Waypoints

? | Exit

WAYPOINT LOAD – OWNER MODE

Select one of the "quick set" selections.

etc

After a "quick set" selection, the name will be filled with the default name, and the coordinates of the current position. e.g. "MEDICAL"

Displays the current location. If desired, edit and display the new coordinates that will be saved to the Waypoint . This option is N/A if the vehicle is in motion.
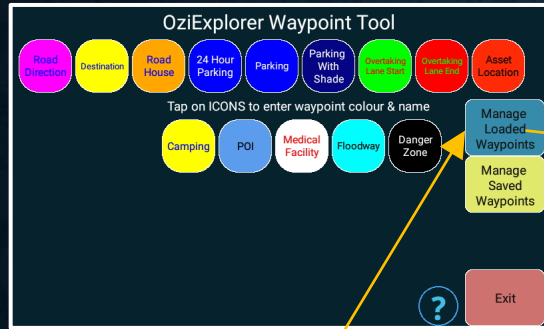
Load & Exit. This will return the user to the map screen.

Exit without adding the Waypoint.

Representation of how the Waypoint will be displayed on the map.

Display the help information.

OziExplorer Waypoint Tool

| Road Direction | Destination | Road House | 24 Hour Parking | Parking | Parking With Shade | Overtaking Lane Start | Overtaking Lane End | Asset Location |

Tap on ICONS to enter waypoint colour & name

MEDICAL

| Camping | POI | Medical Facility | Floodway | Danger Zone |

| -31.889918899 | S | 116.333238333 | E |

Tap on selections above to edit waypoint name or coordinates

ADD WAYPOINT TO DAILY SAVED FILE ☐

This is what will be displayed on the map ►►► ►►► [⊕] MEDICAL

[?]

Load & Exit

Exit Without Loading

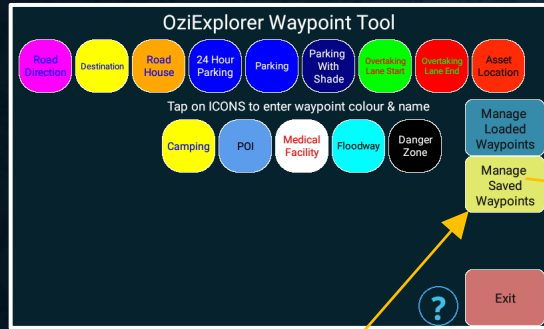# *LOADED WAYPOINT MANAGER TOOL – OWNER MODE*
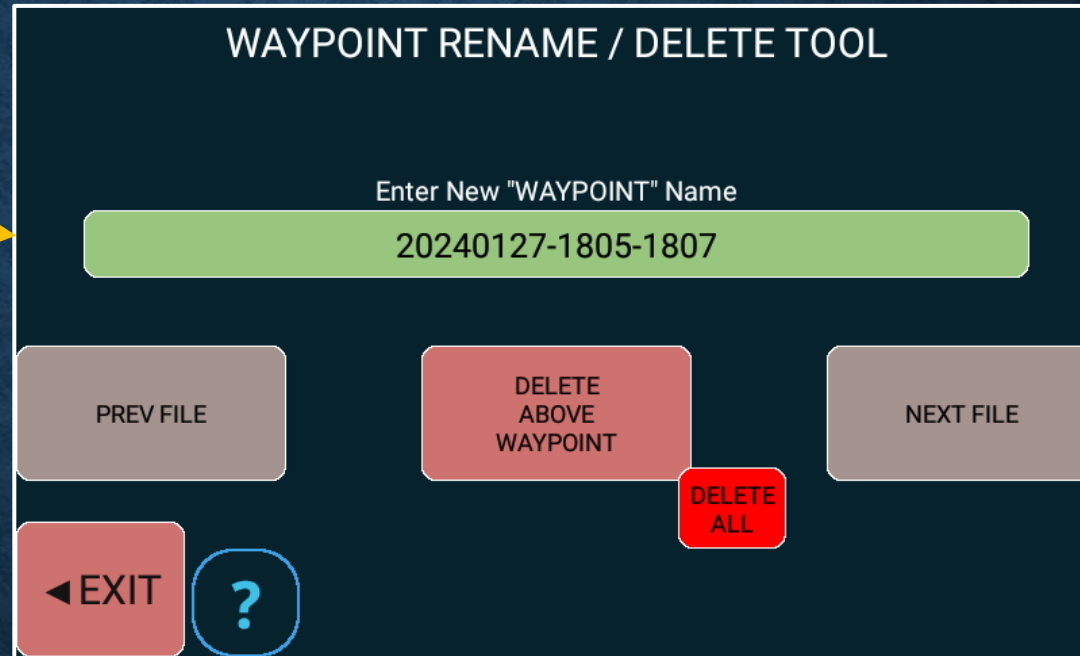

Open the Loaded Waypoint Manager Tool.
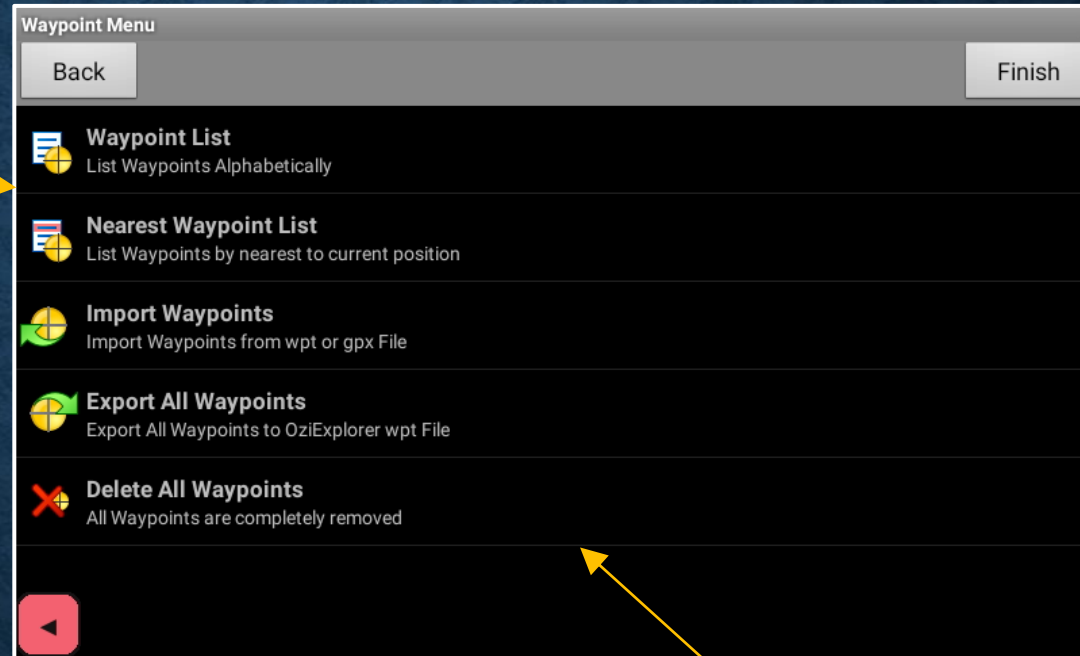
The Waypoint manager menu allows the owner to edit any of the loaded Waypoints.

SAVED WAYPOINT MANAGER TOOL – OWNER MODE

OziExplorer Waypoint Tool

Road Direction | Destination | Road House | 24 Hour Parking | Parking | Parking With Shade | Overtaking Lane Start | Overtaking Lane End | Asset Location

Tap on ICONS to enter waypoint colour & name

Camping | POI | Medical Facility | Floodway | Danger Zone

Manage Loaded Waypoints

Manage Saved Waypoints

? | Exit

WAYPOINT RENAME / DELETE TOOL

Enter New "WAYPOINT" Name

20240127-1805-1807

PREV FILE | DELETE ABOVE WAYPOINT | NEXT FILE

DELETE ALL

◄EXIT | ?

Open the Loaded Waypoint Manager Tool.

The Rename / Delete Waypoint tool allows the owner to edit saved Waypoint names, or delete the Waypoint.

TRACKLOG MANAGER – OWNER MODE
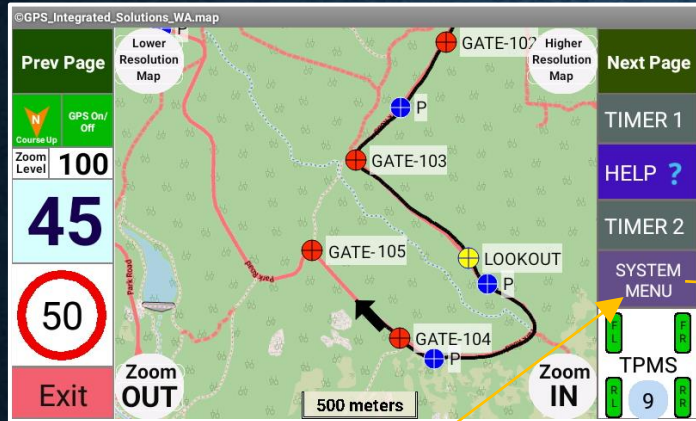
**** START HERE ****
Select this button
to display the
System Menu.
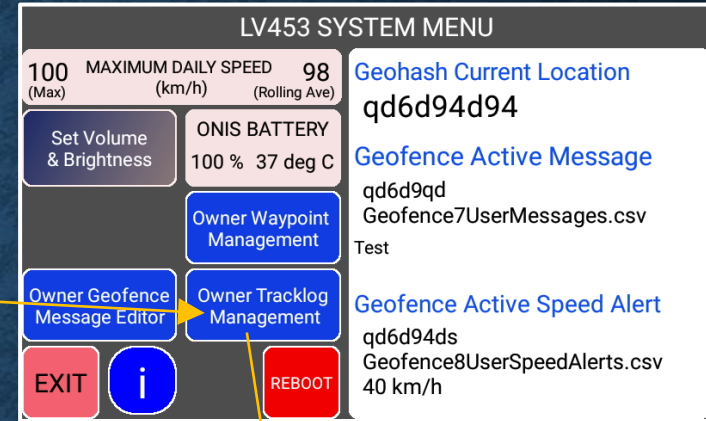
TRACKLOG MANAGE – OWNER MODE

The "OziExplorer Tracklog Tool" menu provides the owner with a tool to add, delete, rename or reset the current ONIS captured start time.

TRACKLOG ADD /DELETE/RENAME – OWNER MODE

The "Owner Tracklog Tool" provides the owner with a tool to add Tracklogs based on the current captured daily track log data.
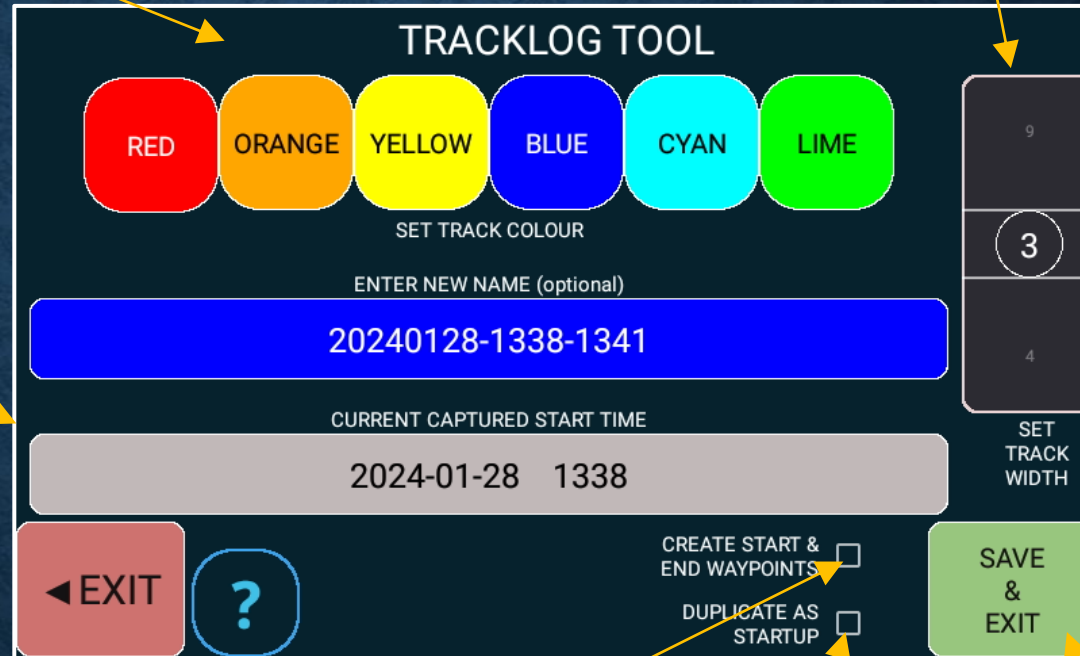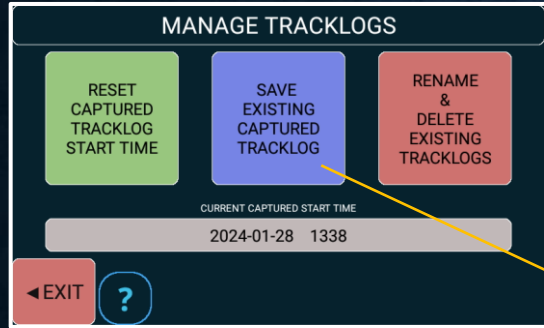
The current captured Tracklog must be deleted first (from the menu option) prior to capturing, so the new Tracklog only contains the required Tracklog data points.

Tracklogs can also be renamed or deleted from a secondary menu.

SAVED CAPTURED TRACKLOG – OWNER MODE

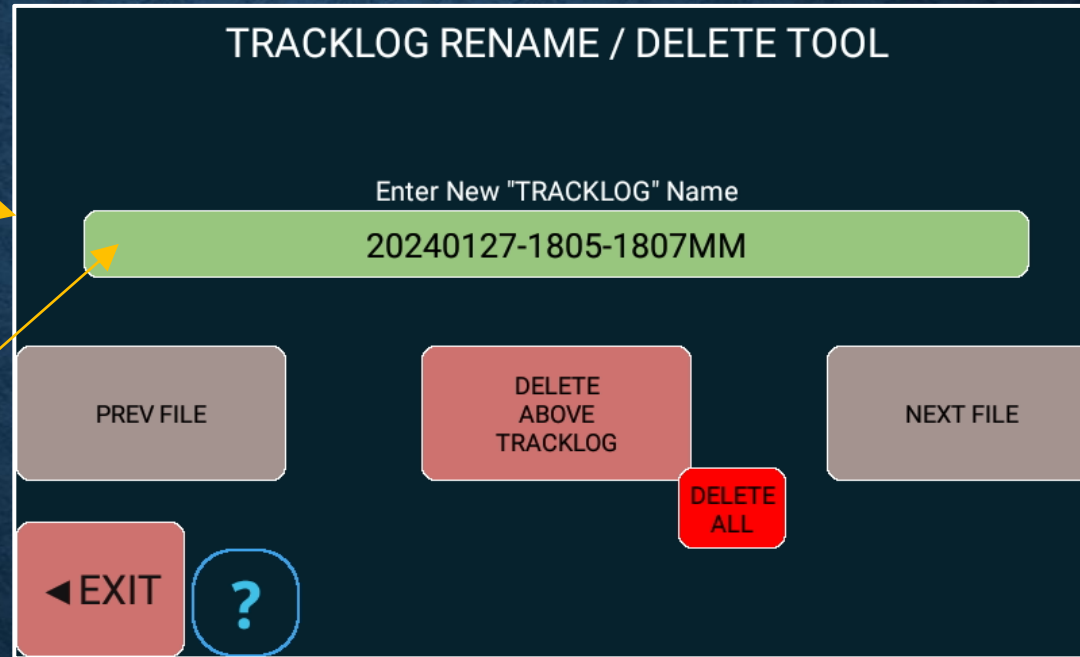1. Set the Tracklog colour

2. Set the Tracklog width

MANAGE TRACKLOGS

RESET CAPTURED TRACKLOG START TIME

SAVE EXISTING CAPTURED TRACKLOG

RENAME & DELETE EXISTING TRACKLOGS

CURRENT CAPTURED START TIME
2024-01-28   1338

◄EXIT   ?

TRACKLOG TOOL

RED   ORANGE   YELLOW   BLUE   CYAN   LIME

SET TRACK COLOUR

ENTER NEW NAME (optional)
20240128-1338-1341

CURRENT CAPTURED START TIME
2024-01-28   1338

9
3
4
SET TRACK WIDTH

◄EXIT   ?

CREATE START & END WAYPOINTS ☐
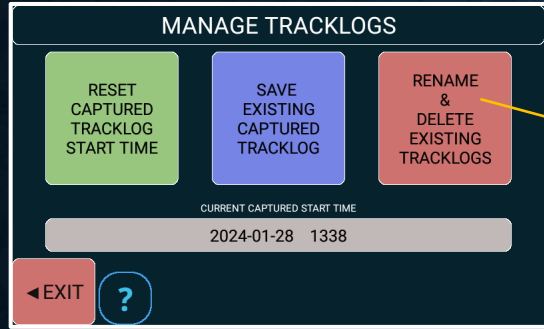
DUPLICATE AS STARTUP ☐

SAVE & EXIT

If this box is checked, the tool will create start and end Waypoints using the current time (HH:MM)

If this box is checked, the tool will duplicate the Tracklog as the STARTUP_TRACKLOG which will be loaded when the OziExplorer App starts.

3. Save the Tracklog.

RENAME / DELETE TRACKLOG – OWNER MODE

MANAGE TRACKLOGS

RESET CAPTURED TRACKLOG START TIME

SAVE EXISTING CAPTURED TRACKLOG

RENAME & DELETE EXISTING TRACKLOGS

CURRENT CAPTURED START TIME

2024-01-28   1338

◄EXIT   ?

Select this menu button to popup the keyboard and enter a new name.

TRACKLOG RENAME / DELETE TOOL

Enter New "TRACKLOG" Name

20240127-1805-1807MM

PREV FILE

DELETE ABOVE TRACKLOG

DELETE ALL

NEXT FILE

◄EXIT   ?

TRACKLOG MANAGER – OWNER MODE

GEOFENCE MESSAGE ADD / DELETE / EDIT – OWNER MODE

GEOFENCE MESSAGE ADD / DELETE / EDIT – OWNER MODE
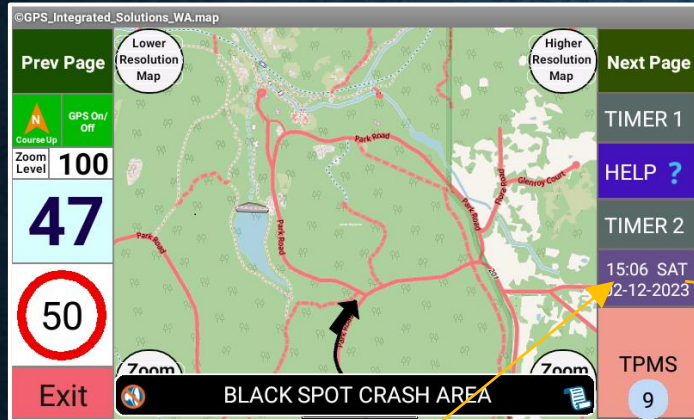
** START HERE **
Select this button to display the *System Menu*.

GEOFENCE MESSAGE ADD / DELETE / EDIT – OWNER MODE

Edit / Add a long Message description.
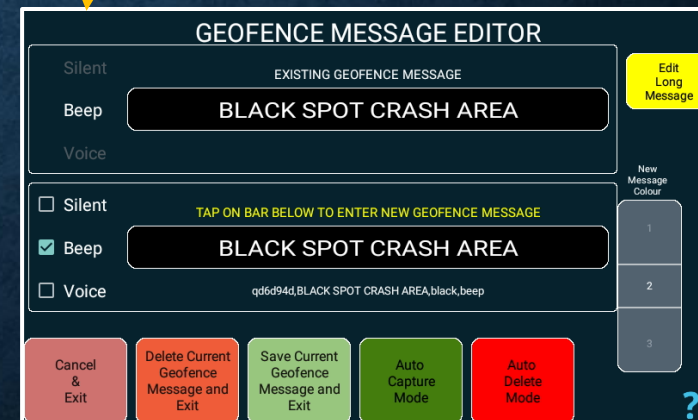
Existing Geofence Message (if applicable).

Tap to open "soft keyboard" and enter new message text.

Enter new audio value.
The voice option will speak the message.

Colour selector wheel for the new Message.
Swipe up or down.

Exit without saving.

Help information.

Save the current Message & Exit.

Auto capture (or delete) Messages with the current information until this menu is re-opened.

GEOFENCE MESSAGE EDITOR

Silent

EXISTING GEOFENCE MESSAGE

Beep

BLACK SPOT CRASH AREA

Voice

Edit Long Message

New Message Colour

☐ Silent

TAP ON BAR BELOW TO ENTER NEW GEOFENCE MESSAGE

☑ Beep

BLACK SPOT CRASH AREA

☐ Voice

qd6d94d,BLACK SPOT CRASH AREA,black,beep

1

2

3

Cancel & Exit

Delete Current Geofence Message and Exit

Save Current Geofence Message and Exit

Auto Capture Mode

Auto Delete Mode

?

GEOFENCE MESSAGE ADD / DELETE / EDIT – OWNER MODE

Tap on the screen to open the "soft keyboard" to edit the Long Message.

To disable the Long Message, remove all the text.

Long Message Editor.

Black Spot Program - About the program
The Australian Government is providing $110 million each year to the Black Spot Program.
Road crashes are a major cost to Australians every year. Black Spot projects target those road locations where crashes are occurring or are at risk of occurring. By funding measures such as traffic signals and roundabouts at dangerous locations

Scroll screen up & down to view information

Exit

GEOFENCE MESSAGE ADD / DELETE / EDIT – OWNER MODE

GEOFENCE SPEED ALERT ADD / DELETE – OWNER MODE

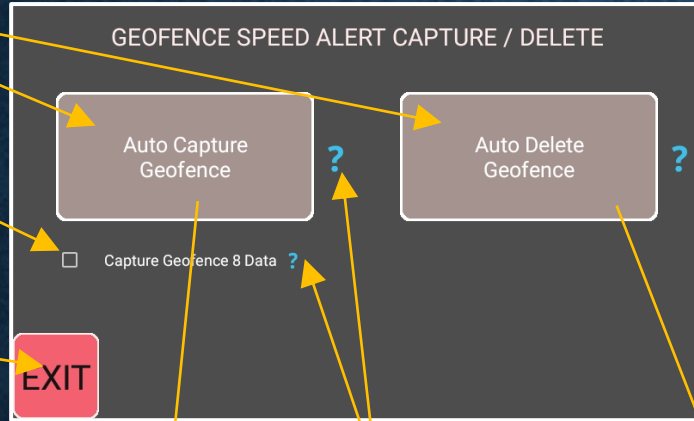# GEOFENCE SPEED ALERT ADD / DELETE – OWNER MODE

Starting the "Speed Alert" Capture or Delete.
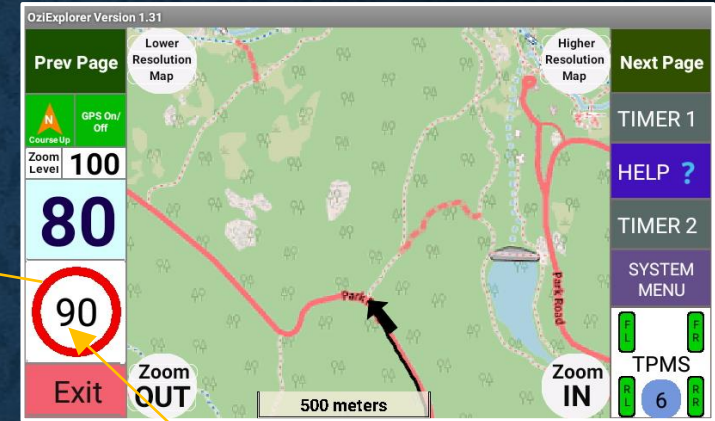
Select Capture or Delete mode.

Geofence 8 is for 10-60 km/h only

Exit with no action.

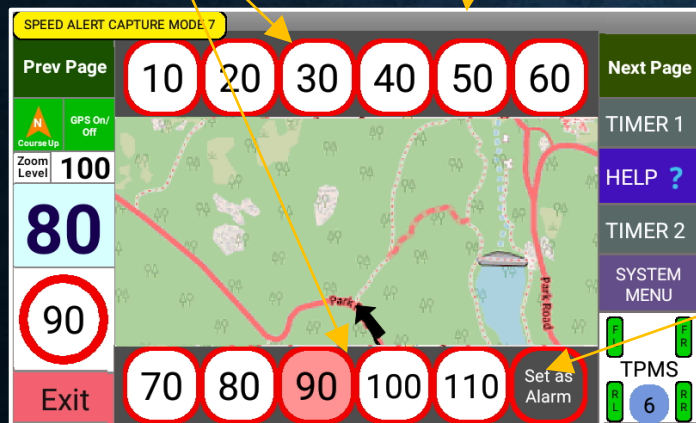New menus to select the desired "Speed Alert" settings.

Help information.

A "Delete" message will flash on the main map indicating that the "Delete Mode" is active

Set the "Speed Alert" as ALARM.

** START HERE **
Long press to enter capture delete mode.

GEOFENCE SPEED ALERT ADD / DELETE – OWNER MODE
Exiting the "Speed Alert" capture or delete.

Exit the capture mode.

GEOFENCE SPEED ALERT CAPTURE / DELETE
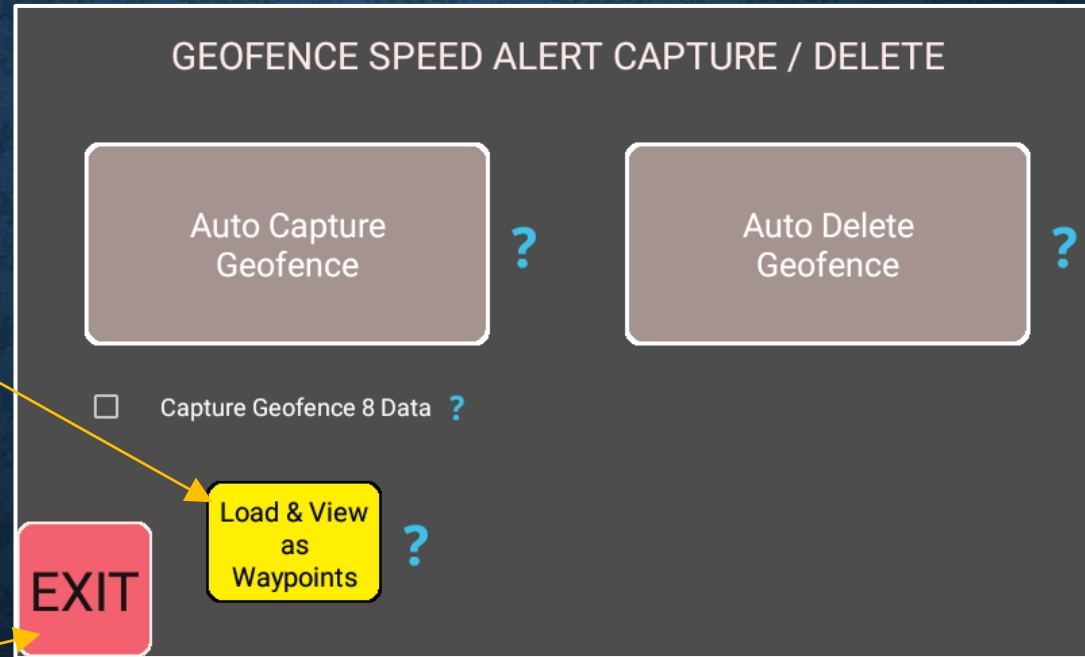
Exit Capture Geofence

EXIT

Exit and continue capturing.

GEOFENCE SPEED ALERT ADD / DELETE – OWNER MODE

Viewing "Speed Alert" capture on the map.

After a capture & exit, re-enter the capture menu to view the "Speed Alerts" as Waypoints on the map.

Exit and continue capturing.

GEOFENCE SPEED ALERT CAPTURE / DELETE

Auto Capture Geofence **?**

Auto Delete Geofence **?**

☐ Capture Geofence 8 Data **?**

Load & View as Waypoints **?**

EXIT