DAF SPOT Trace User Guide

Contents

Version History

User Manual	History of Changes
v1.0	Initial Release.

Introduction

DAF SPOT Trace

The SPOT Trace is a tracking device that uses the Globalstar satellite network to provide real time position updates. The DAF SPOT Trace is a SPOT Trace that is running a special version of SPOT Trace firmware that provides the device with the following additional functionality:

- The SPOT Trace will automatically power on when line power is supplied, and the device does not have battery power available (no batteries installed or installed batteries are flat).
- The Power LED on the SPOT Trace will remain solid green when line power is supplied.

Figure 1 – SPOT Trace Top

SPOT Trace Waterproof DC Power Cable

To ensure the SPOT Trace maintains its IPX7 waterproof rating (1m for 30min) you must install your DAF SPOT Trace with a SPOT Trace Waterproof DC Power cable as shown below.

Figure 2 – SPOT Trace Waterproof DC Power Cable

Device Identification

Each DAF SPOT Trace is referenced in Tracertrak by its ESN (Electronic Serial Number). The ESN can be found on the outside of the packaging in which the DAF SPOT Trace is supplied. The ESN is a seven digit number preceded by a "0-" e.g. 0-1234567. The ESN is also available on the underside of the DAF SPOT Trace battery compartment lid.

Installation

Important

- Keep the DAF SPOT Trace at least 30cm away from GPS devices, as it can interfere with the signal reception of other GPS devices.
- The DAF SPOT Trace should only be used when located at least 20cm away from the human body.
- The DAF SPOT Trace will NOT be waterproof unless using the Waterproof DC Power Cable.

Placement

The DAF SPOT Trace is NOT designed to be attached or worn on a person's body. The DAF SPOT Trace should only be used when located at least 20cm away from the human body.

Mounting

Use the reversible mounting bracket, double sided industrial strength tape, adhesive grip pad or adhesive Velcro strips (all included) to affix the DAF SPOT Trace to your vessel.

- Ensure the SPOT logo is pointed towards the sky.
- The unit can be mounted beneath fiberglass, fabric or glass, **but metal obstructions should be avoided.**
- Ensure that the mounting location is close enough to the power source to connect the Waterproof DC Power Cable.

NOTE: Before permanently affixing the DAF SPOT Trace to your vessel, verify that your device is operating effectively from your chosen mounting position by ensuring Tracertrak receives track points every 5 minutes. Refer to *Tracking* (page 7) for details.

Power

Turning On & Off

On

To turn the device on, locate the power button on the top of the device, press and hold the button until the LED's illuminate. The DAF SPOT Trace will perform a self-test and then automatically begin tracking every 5 minutes.

Off

To turn the device off, press the power button for 3 seconds. The DAF SPOT Trace will send out a message indicating the power has been turned off. This is to let you know someone has powered off the device. See *Alarms* (page 9).

Self Test

The DAF SPOT Trace performs a self-test when it is turned on. During self-test, all lights will blink green in an alternating manner to indicate self-test is in progress. If all visible lights flash red, the DAF SPOT Trace self-test has found a failure, please call *Pivotel Customer Care* (page 14) for diagnostic support.

Battery Types

The DAF SPOT Trace comes pre-installed with (4) AAA Energizer® Ultimate Lithium 8x batteries. The following batteries can be used:

- (4) AAA Energizer® Ultimate Lithium 8x batteries (L92) – comes pre-installed.
- (4) AAA Energizer® NiMH rechargeable batteries (NH12) – sold separately.

Battery Replacement

1. Loosen the screws to open the battery cover.
2. Install 4 AAA Energizer® Ultimate Lithium 8x batteries or NiMH rechargeable batteries.
3. Replace the cover ensuring that the gasket is lined up and free of debris. Tighten screws, being sure to fully tighten the back cover to maintain SPOT TRACE's waterproof seal.

NOTE: NiMH batteries cannot be charged within the SPOT TRACE unit.
CAUTION: Risk of explosion if battery is replaced by an incorrect type.

Operation with Batteries

When operating with battery power, the device needs to be turned on manually. Under battery operation, the device can be turned off. The device needs to be turned on to track your vessels location and should be turned off when not required to conserve battery power.

The DAF SPOT Trace is always in track mode when powered on. When operating on battery power, the power LED will blink for 20 minutes before stopping. A quick press of the power button will cause the power LED to resume blinking for another 20 minutes.

Operation on Line Power

The device will automatically turn on when line power is supplied, and the device does not have battery power available. If line power is supplied to a device that also has battery power available, the current state of the device will remain unchanged.

E.g. If the device is off, it will remain off and if the device is on, it will remain on.

While the device is line powered, it is unable to be turned off using the power button. When line power is removed from a device that also has battery power available, the device will remain operational. This ensure that the device remains operational in the event of a line power failure and batteries being installed.

When line power is removed from a device that does not have battery power available, the device will turn off. The DAF SPOT Trace is always in track mode when powered on. When operating on line power, the power LED will remain constantly on until line power is removed.

Tracertrak

Tracertrak is an online asset tracking system that can be configured to provide alarm notifications and used to display historical tracking data for DAF SPOT Trace devices. Every DAF SPOT Trace device has access to a Tracertrak account and can be configured as required to support the tracking and notification needs of the device owner.

You can access Tracertrak through a web browser on your computer, tablet or mobile device.

Visit - https://console.tracertrak.com.au/

Tracertrak Console Access

When your device is provisioned by Pivotel, the Tracertrak account owner will be notified by email that new devices have been connected to the account. The devices will either be added to your existing Tracertrak account OR a new Tracertrak account will be created for you.

When a new Tracertrak account is created, a welcome email will be sent to the designated Administrator of your Tracertrak account. Use the included username and password provided in this welcome email to log into Tracertrak.

When first logging into Tracertrak, you will be asked to change your Administrator password and configure a console nickname. The purpose of this nickname is to give you a more meaningful name for your console other than your Pivotel account number.

Tracking

The DAF SPOT Trace is configured to track its position every 5 minutes when it is powered on. The track positions are stored in Tracertrak and can be viewed on the Map page.
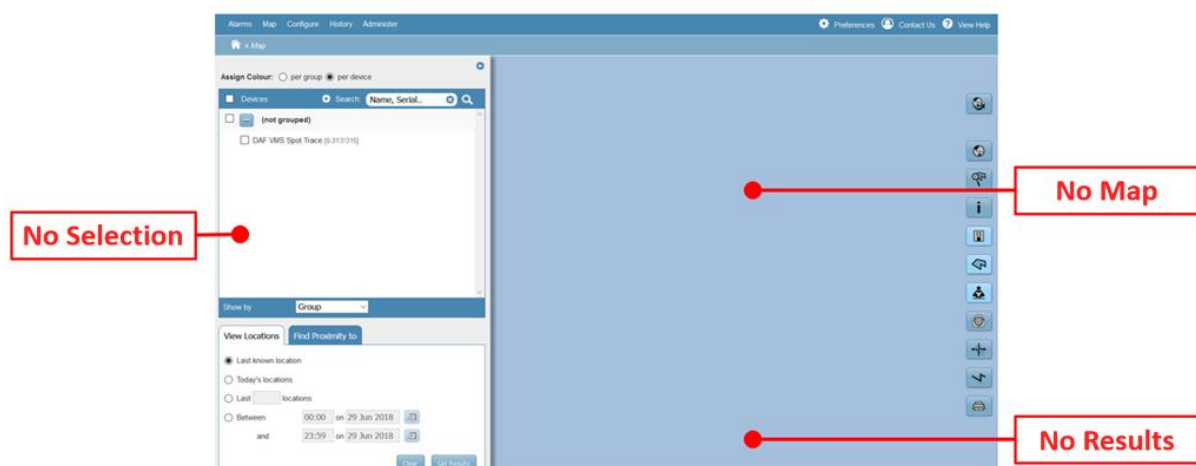
Figure 3 - Map Without Results

From the map page, you can select the devices you want to track and what type of location information you want displayed. By default, the last known location will be displayed, however you can also select todays locations, a specified number of last known locations or locations from a specific period. After making your selection, click the Get Results button.
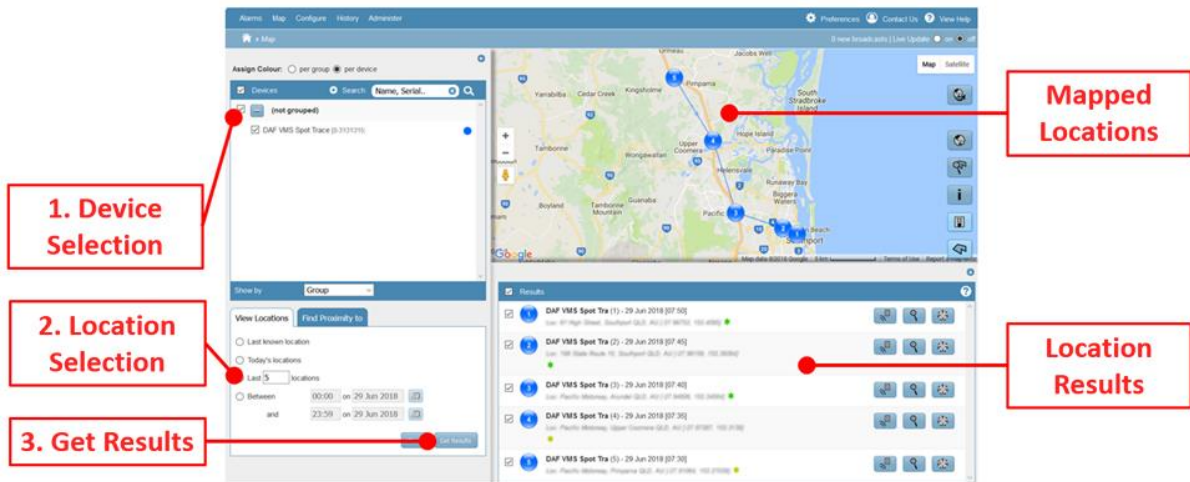

Figure 4 - Map With Results

The results pane provides specific details for each location including latitude and longitude. The device selection and results panes can be minimised using the hide arrows in the right top corners of each pane.

Device Configuration
Each device can be configured with a unique name and set of alarms that will determine what notifications, if any, will be sent when a specific event occurs.
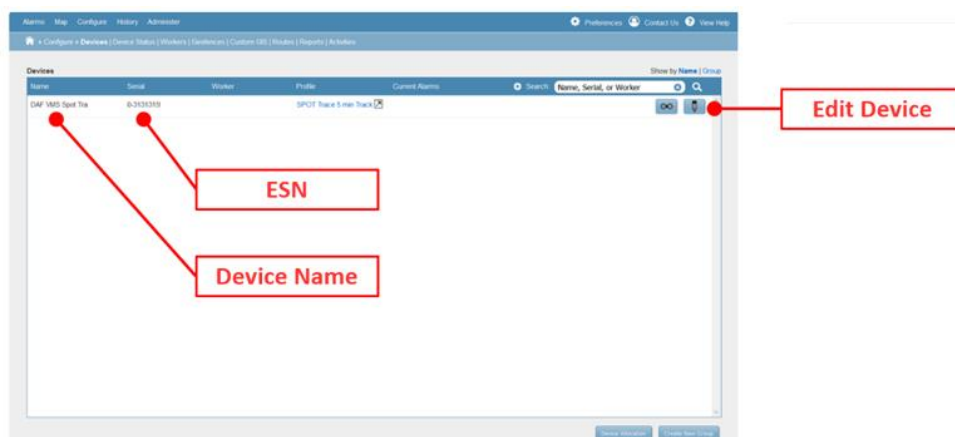
Figure 5 – Device Configuration Page

Device Name

The device name can be changed by editing the device details in the device configuration page.
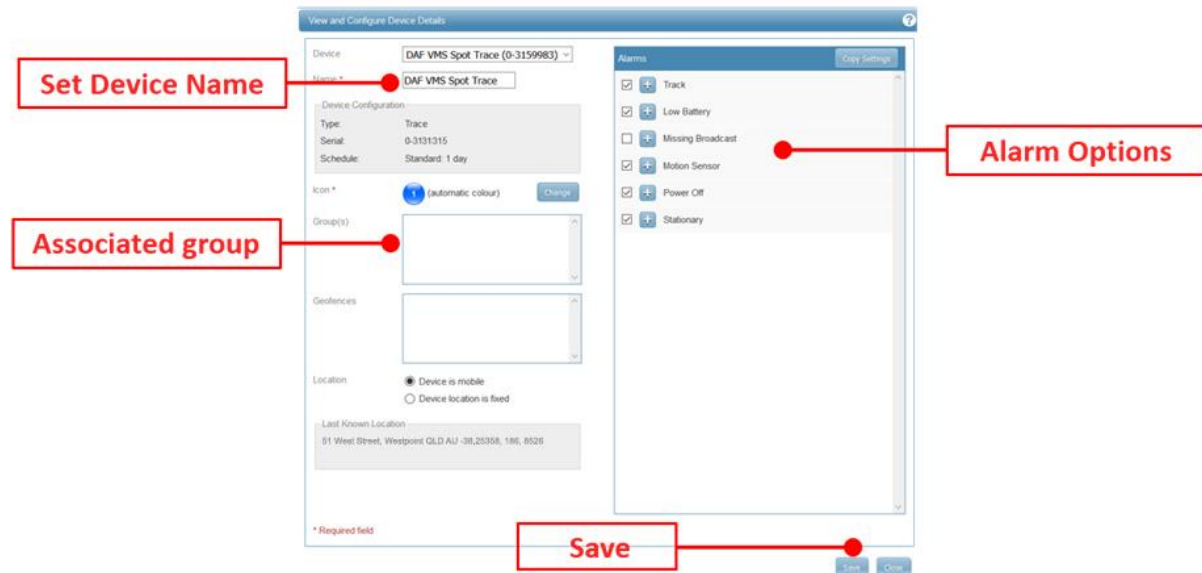
Figure 6 – Device Detail Configuration

Alarms

Active alarms are displayed on the Alarms page of the Tracertrak console. The DAF SPOT Trace supports the following alarm types:

1. Track
2. Low Battery
3. Missing Broadcast
4. Motion Sensor
5. Power Off
6. Stationary

Each alarm can be enabled/disabled by selecting/unselecting the alarm checkbox in the device configuration page.
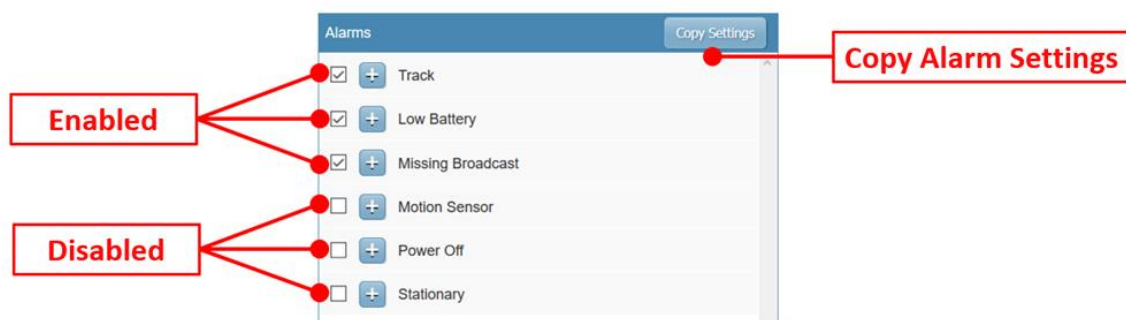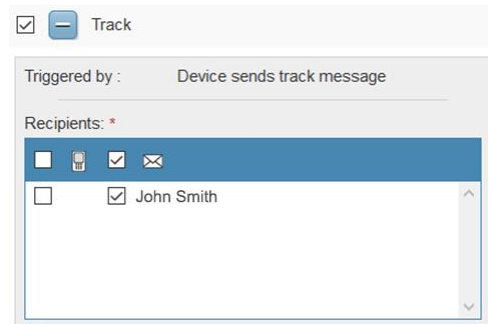
Figure 7 – Alarm Notification Configuration

Notifications are configured in the device details by selecting the desired notification type, configuring its parameters and selecting the type of notifications to be sent to Tracertrak users. SMS and/or email notifications can be selected for each recipient.

Note: As SMS incurs carrier charges, email notifications are recommended, unless SMS is necessary.

1. **Track** – a notification is sent when a track location is received from the device.
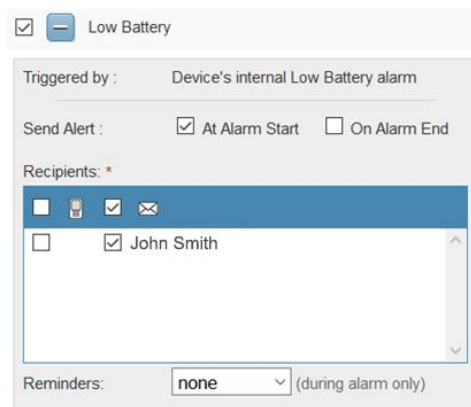
   If this alarm notification is selected, the recipients can expect to receive a track notification every 5min while the DAF SPOT Trace is powered on.

2. **Low Battery** – a notification is sent when a message from device is received indicating that the batteries in the device are running low and should be changed.

   An alarm notification can be sent on alarm start and/or alarm end.
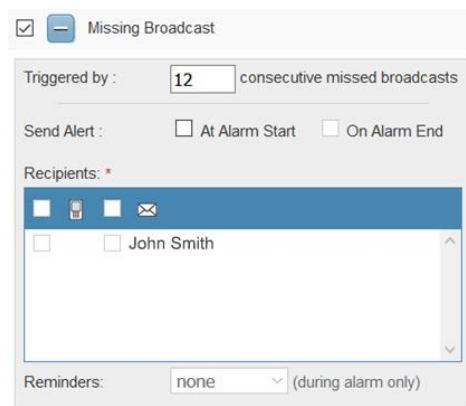
   When reminders are configured, reminder notifications will be sent until the alarm is acknowledged.

3. **Missing Broadcast** – a notification is sent when a consecutive number of messages have not been received from the device.

   The number of consecutively missed broadcasts can be configured. In the example shown, 1 hour (12 x 5min) without any broadcast would be required before the alarm triggered. An alarm notification can be sent on alarm start and/or alarm end.

   When reminders are configured, reminder notifications will be sent until the alarm is acknowledged.
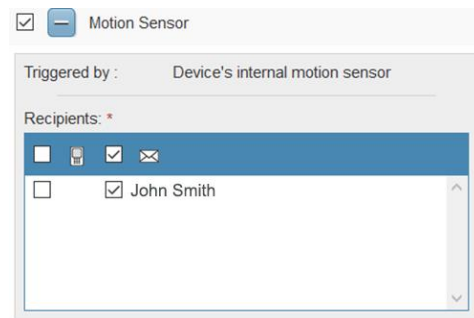
Note: When the Missing Broadcasts alarm is active, it will remain active regardless of whether your device is on or off. Therefore, if this alarm notification is used, be sure to select an appropriate number of missed broadcasts that matches your operational activities.

4. **Motion Sensor** – a notification is sent when the device has detected motion.
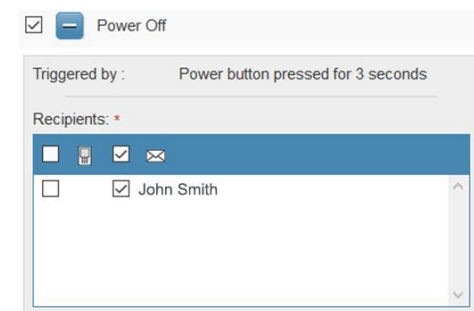
   Note: This alarm can be used as verification that your device is working correctly each time you power it on.

   Suggested Configuration: Configure the motion alarm to be sent via SMS to your vessel captain and have the captain verify receipt of the motion sensor alarm before they head out from port.

5. **Power Off** – a notification is sent when the device has been powered off using the power button.
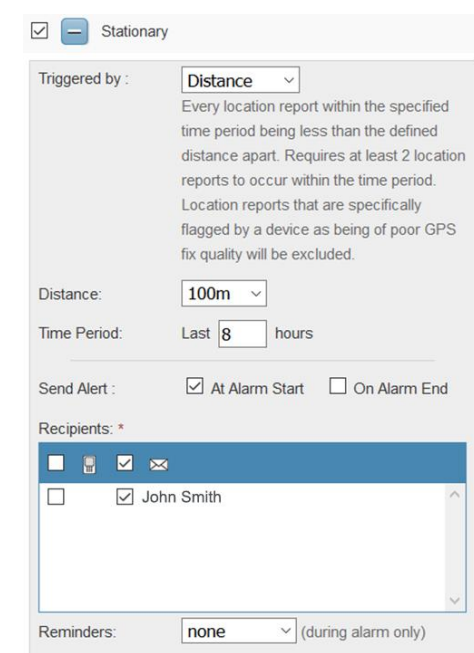
6. **Stationary** – a notification is sent when the device has remained within the same area for a specified period.

   An alarm notification can be sent on alarm start and/or alarm end. When reminders are configured, reminder notifications will be sent until the alarm is acknowledged.

   Note: If custom GIS locations have been configured on the account, the Stationary Alarm can also be configured to trigger when the device has remained stationary for a specified period at a selected GIS location.

Administration

Console Users

The Tracertrak Administrator can provide others access to Tracertrak by creating them as Users.

Note: If you need to change the administrator of your Tracertrak account, please call *Pivotel Customer Care* who will be able to complete the change for you.

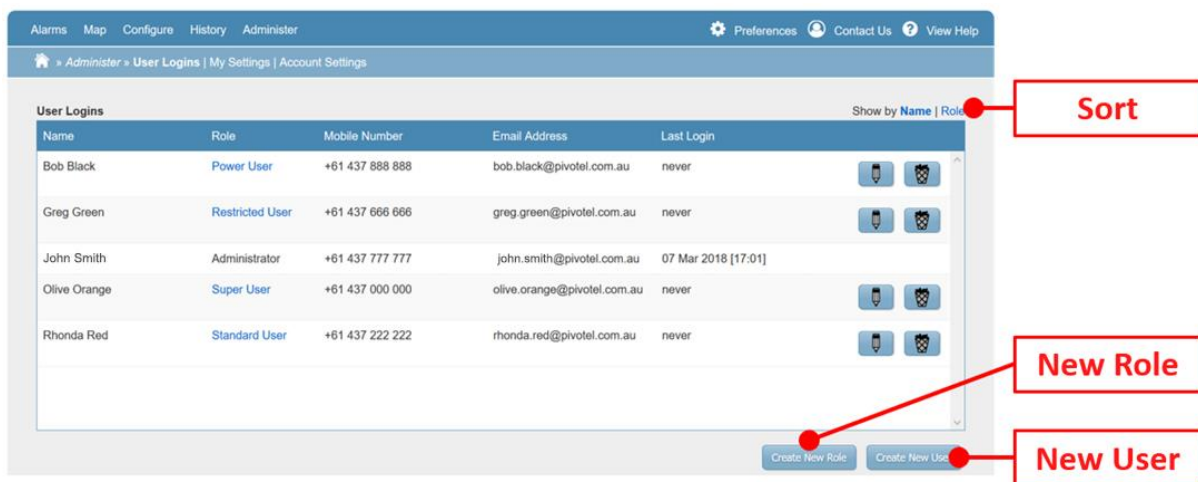See the following instructions for user and role creation.

Figure 8 – User Logins
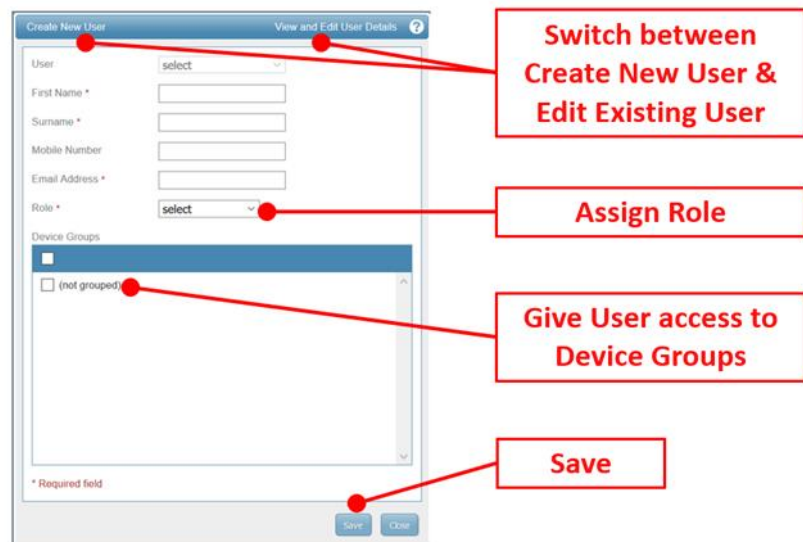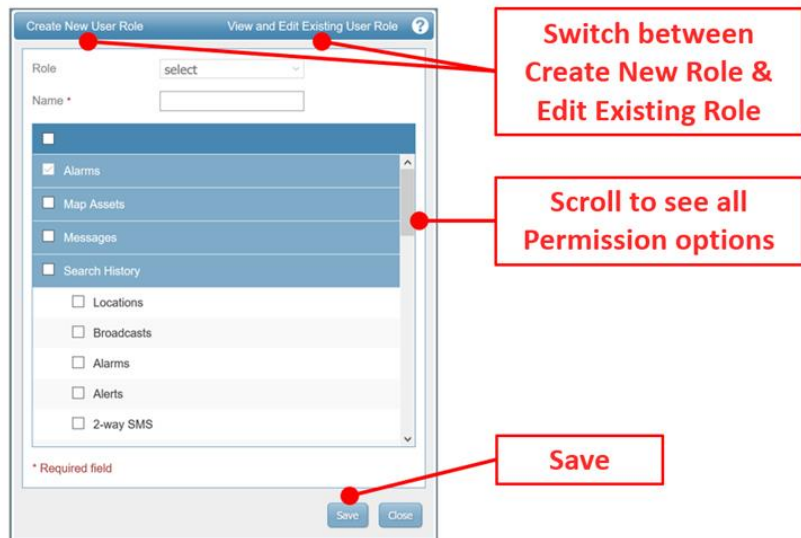

Figure 9 – New User Configuration

Figure 10 – New Role Configuration

Device Groups

If you have multiple devices in Tracertrak, it is possible to restrict the visibility of those devices to specific users by adding the device to a group and restricting access to that group to specific users.
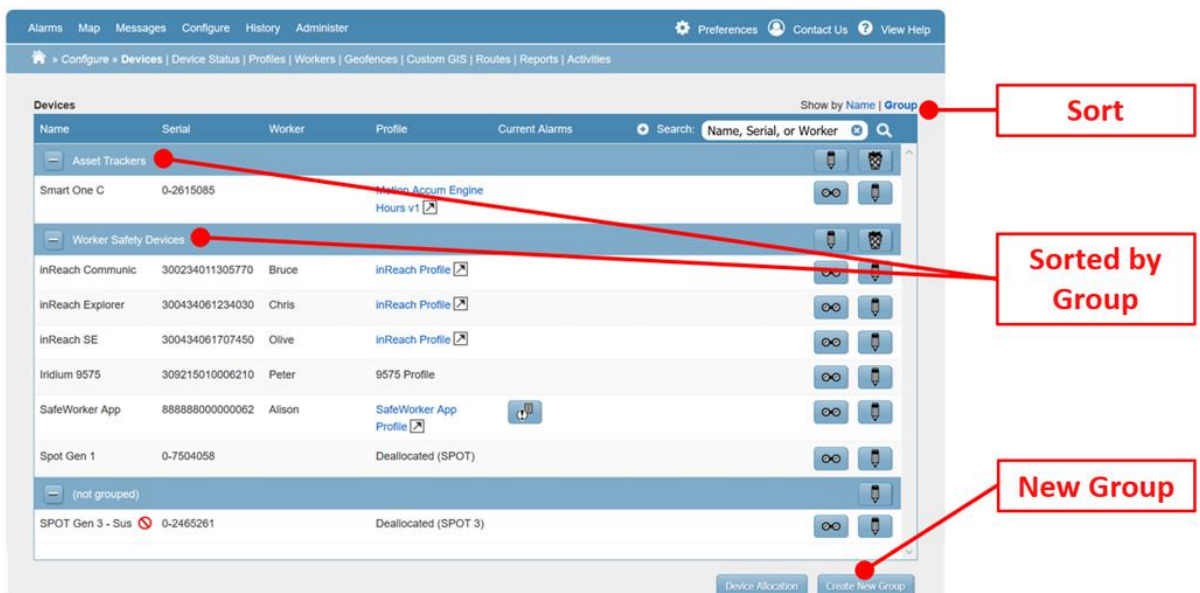
See the following instructions:
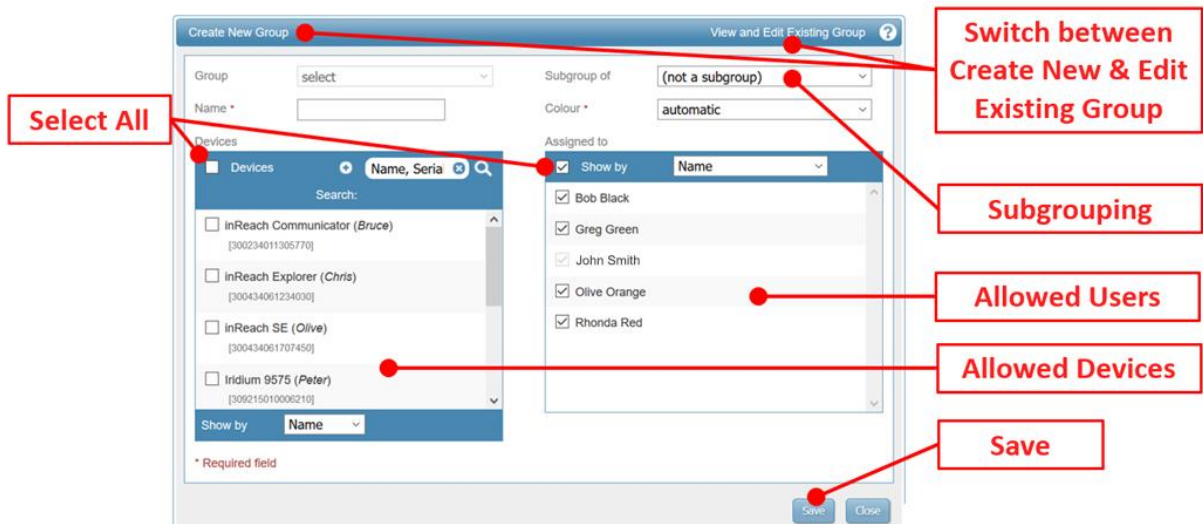

Figure 11 – Devices by Group

Figure 12 – New Group Configuration

Support

Online Documentation

For additional information regarding other Tracertrak features and functionality, please visit -
http://www.tracertrak.com.au/kb/user-manuals-guides/

Pivotel Customer Care

Pivotel's Customer Care team can be contacted on **1300 882 448**.

Operating Hours
Monday to Friday - 7.00am to 7.00pm (AEST)
Closed on Australian National Public Holidays.