



# ShockLog Cellular GL

# User Manual

The ShockLog® Cellular GL Impact Recording and Tracking System combines advanced tri-axial piezoelectric accelerometer technology with global connectivity and real-time tracking.

When a programmed impact threshold is exceeded, a detailed event curve is recorded, and the ShockLog Cellular GL module will send a real-time alert to inform stakeholders that a potentially damaging impact has occurred. Access to this information while an asset is en route can enable decisions that will reduce costs and improve efficiencies.

### **ShockLog Cellular GL Features & Benefits**

- Custom, timely alerts when impact, tilt, temperature, or humidity thresholds are breached
- 4G LTE / 3G / 2G / Wi-Fi Connectivity
- Access to information through a secure, dedicated web portal
- Cellular and Wi-Fi Positioning

### **Configure the ShockLog Cellular GL**

The ShockLog Cellular GL module is configured over the air by accessing the SpotSee Cloud. To update ShockLog 298 parameters (including alarm levels), users must connect directly to the ShockLog 298 or use an iButton to update the preferences in the unit software.

### **Battery Replacement**

The ShockLog Cellular GL utilizes (5) 1.5V AA batteries and can accept either alkaline or lithium options. Expected battery life for the module ranges from 4 months (sending one message an hour) to 45 months (sending 1 message a day) when using Saft lithium batteries. When necessary, users may easily replace the ShockLog Cellular GL batteries using a Phillips head screw driver to remove the top of the compartment, exchanging the batteries, and re-attaching the lid.

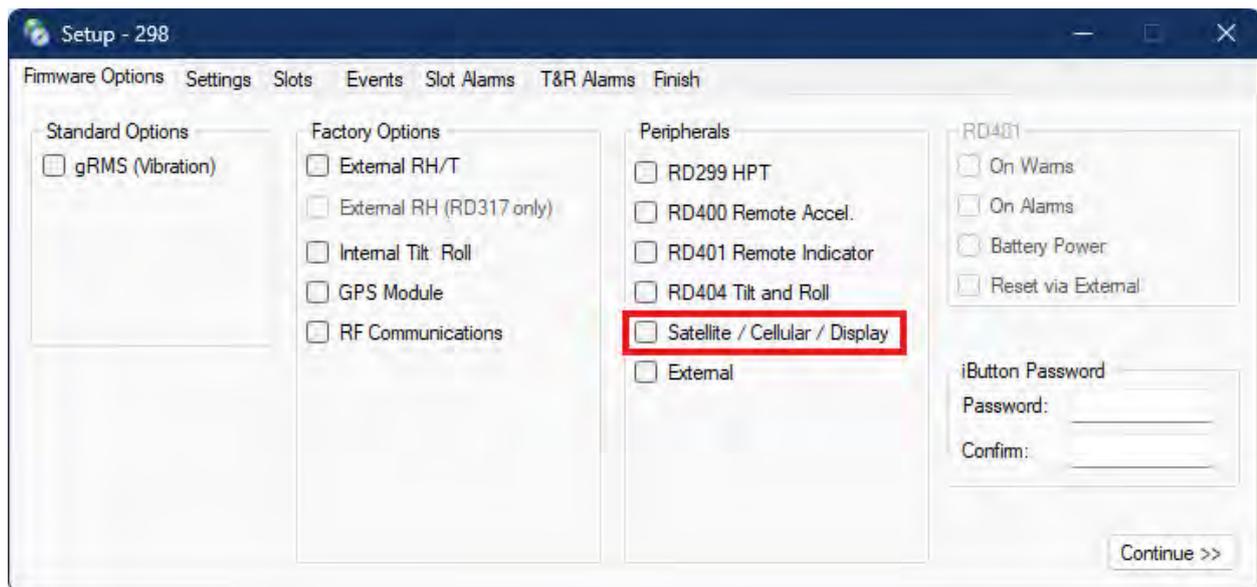
### **Firmware Updates**

The ShockLog Cellular GL firmware is automatically upgraded over the air. There is no need to connect the unit to an external computer. When the device connects to a cellular network, any available firmware upgrades will automatically download.

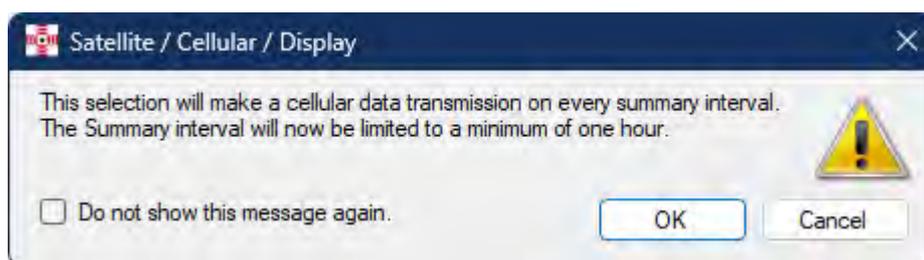
## ShockLog Set Up

To enable usage of ShockLog Cellular GL accessory, it must be activated in the ShockLog 298 software. It is also within the ShockLog 298 software where the user will specify the alarm levels that will trigger alerts from the ShockLog Cellular GL device.

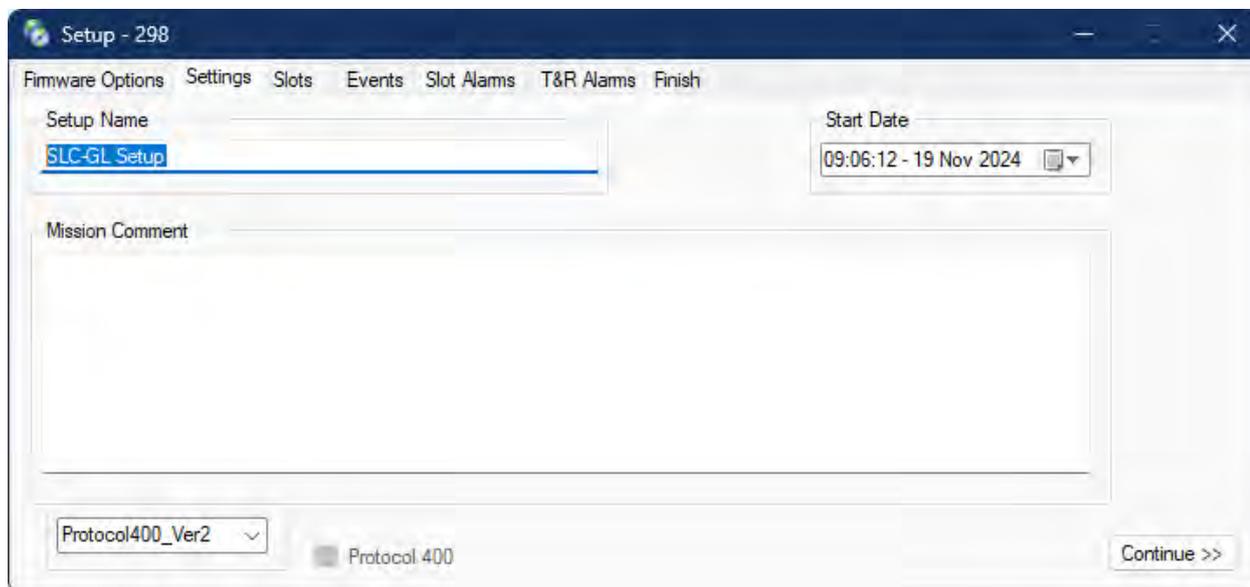
When initiating the Setup of the ShockLog 298 software, the user will begin on the “Firmware Options” tab and click the check box next to the Satellite / Cellular / Display Peripheral.



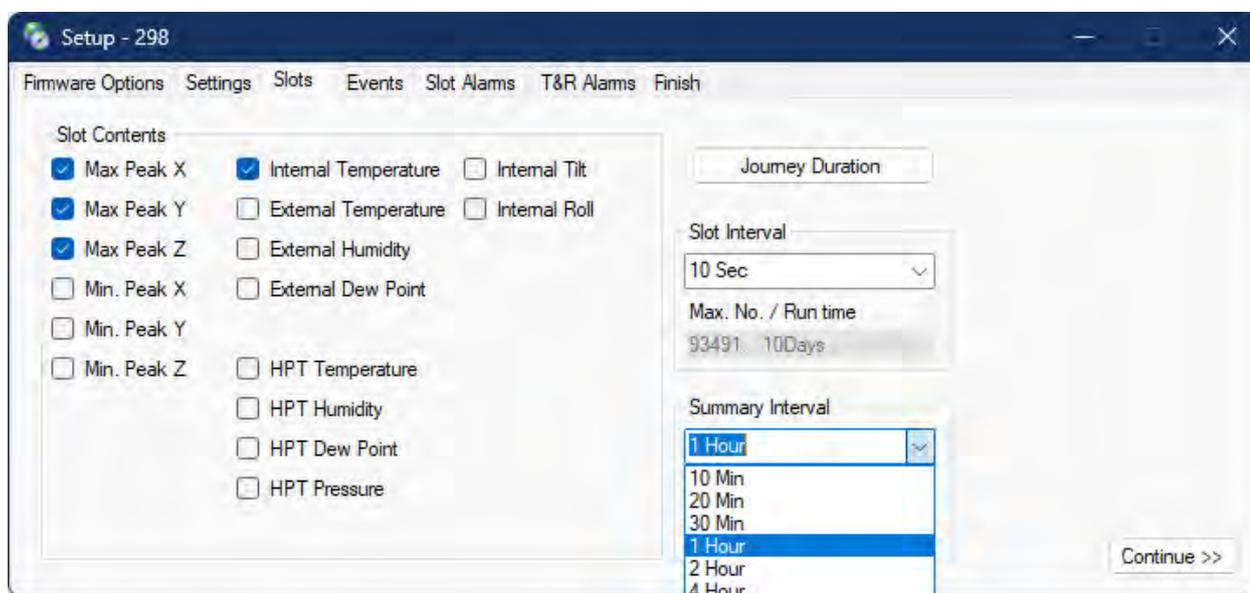
Once the Cellular Peripheral is enabled, the following warning will appear. The user must click “OK” to move forward with the programming process.



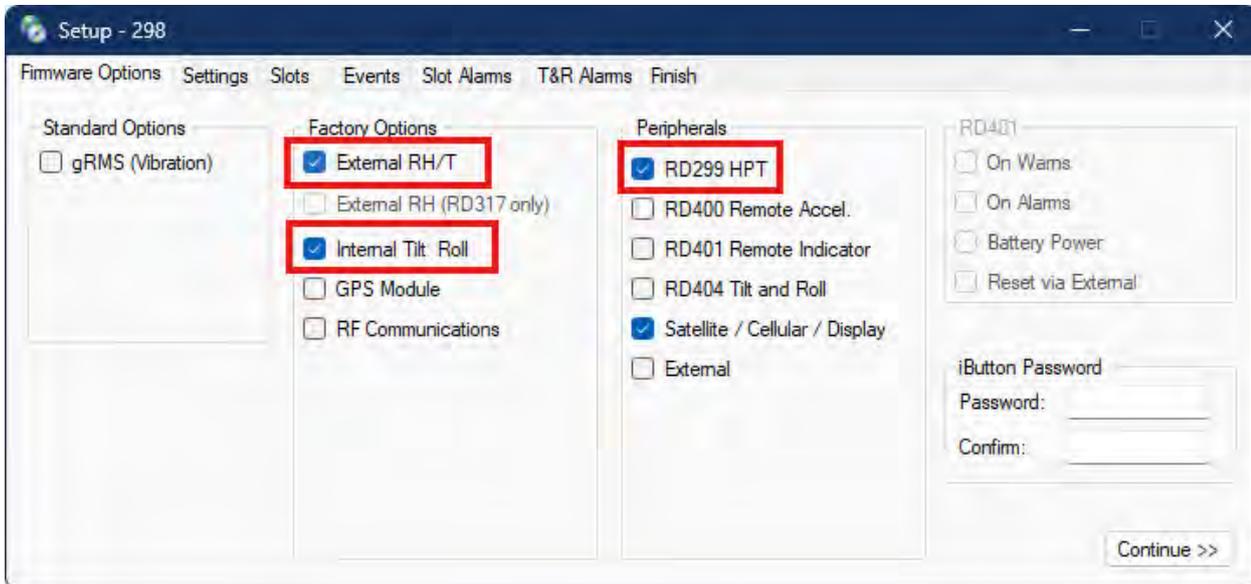
Within the “Settings” tab the user may choose a name for the set up and select the start date for the unit. Once these updates are complete, the user will click the “Continue” button at the bottom of the screen to proceed with the process.



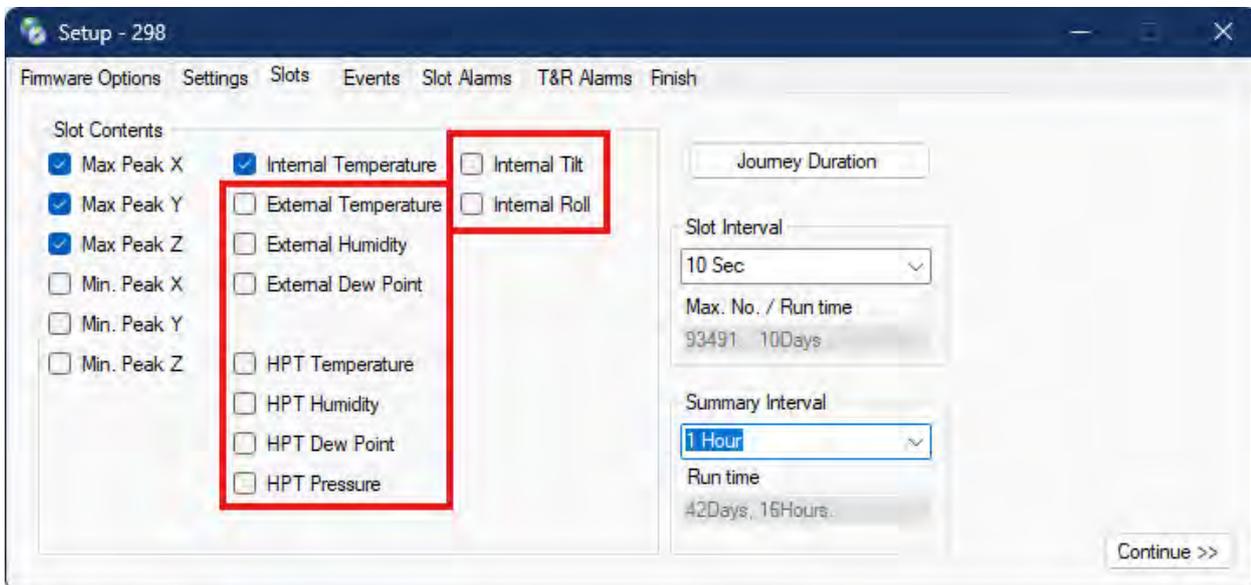
The user will be taken to the “Slots” tab, where the Slot Interval and the Summary Interval may be adjusted based on the model of ShockLog and the connected Accessories.



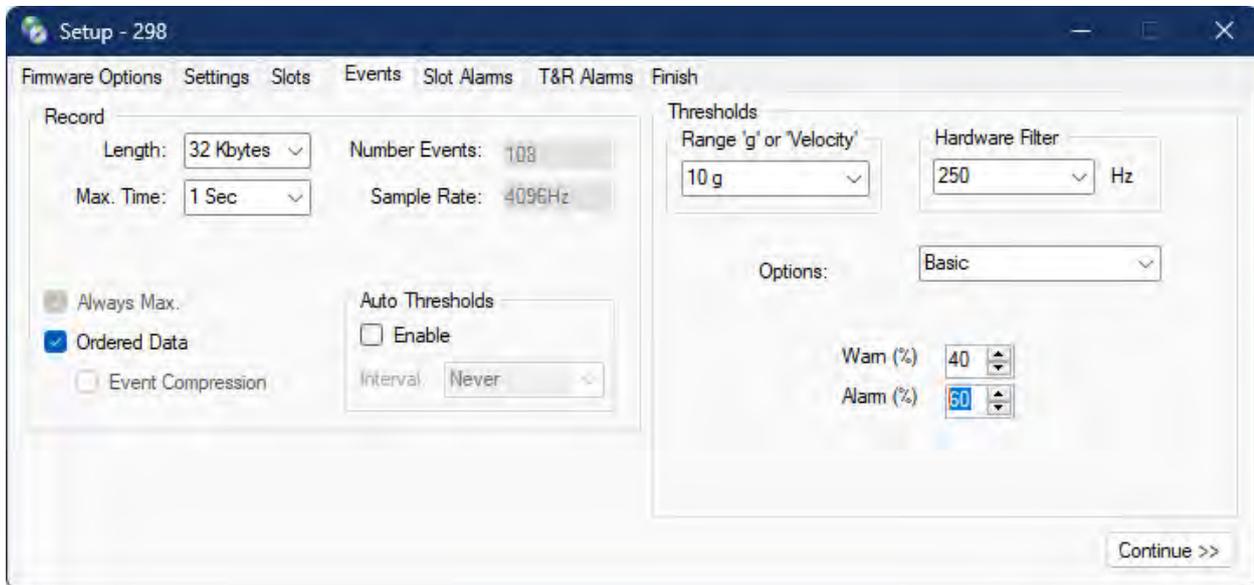
It is important to note that the user selections on the “Firmware Options” tab at the beginning of the process will determine the available Slots/Alarms. For example, by selecting the items highlighted emphasized below:



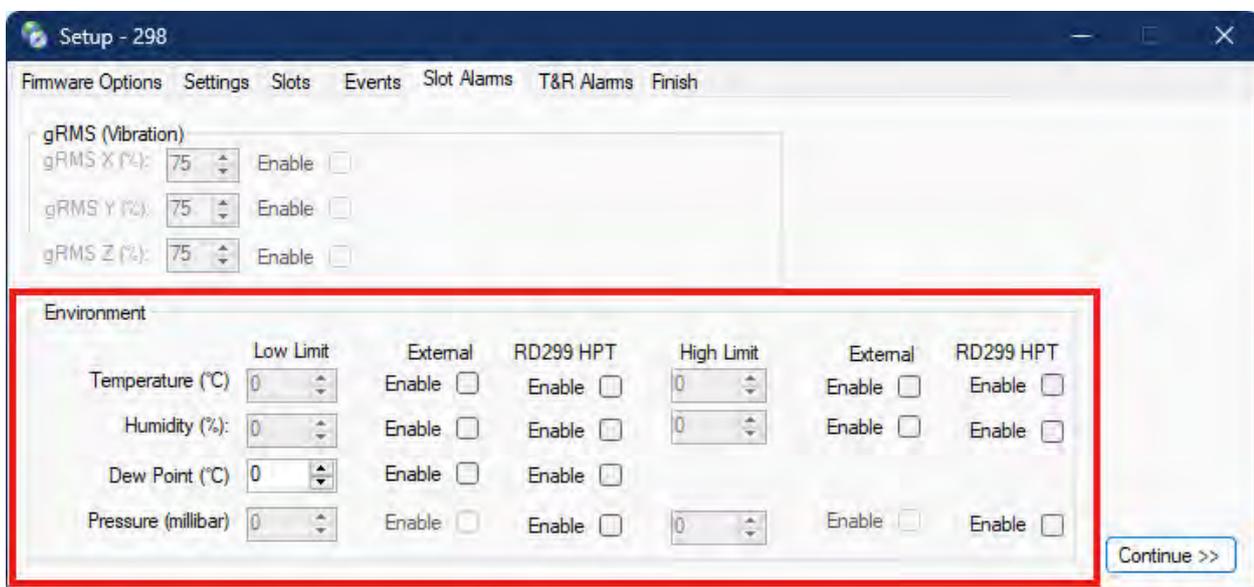
The following Slot content options will be available:



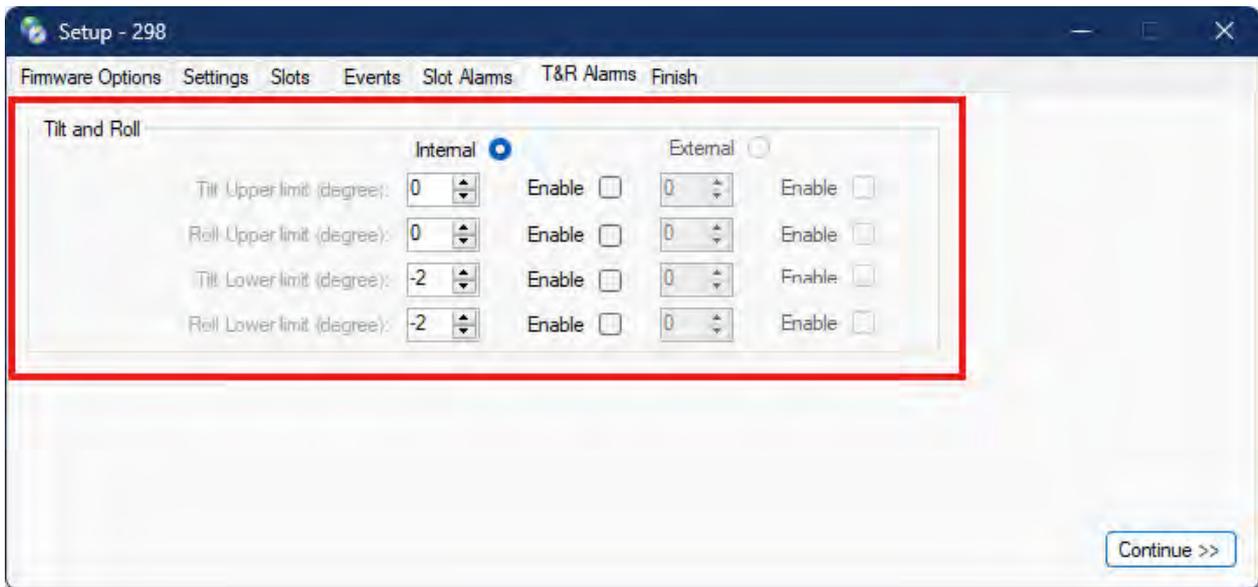
Once the Slot intervals are updated and the “Continue” button is clicked, the user will reach the “Events” tab. This tab is where the impact alarm thresholds are set. Note that both alarm and warning events are reported/transmitted by the ShockLog and the ShockLog Cellular GL device.



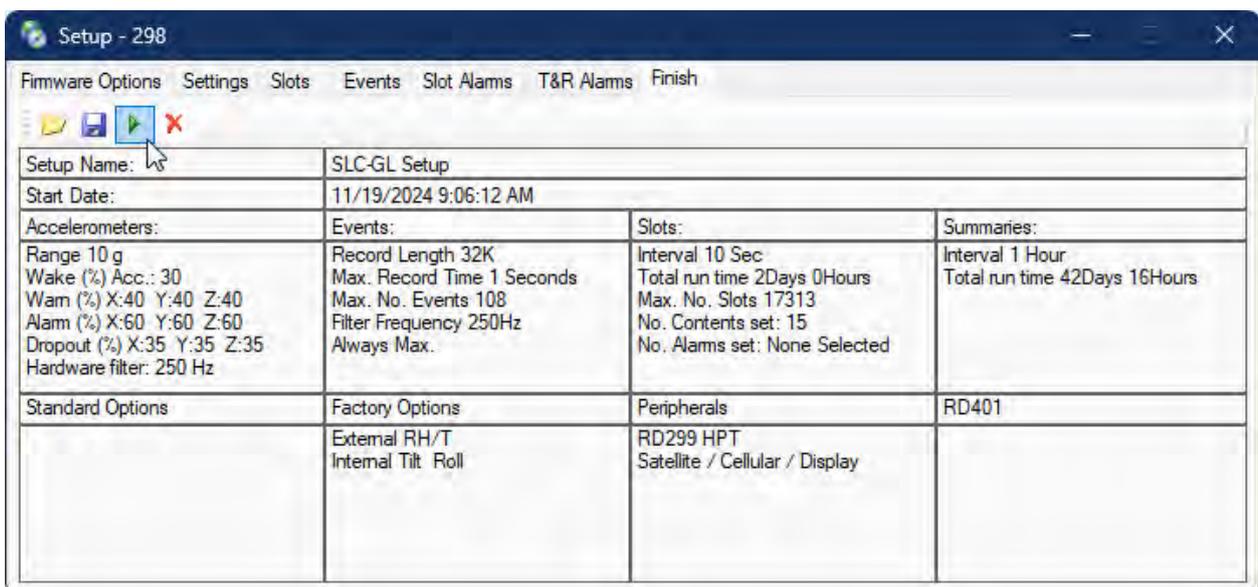
The “Slot Alarms” tab is where temperature, humidity, pressure, and dew point slot alarm thresholds are set. Note that all threshold crossings and subsequent above threshold measurements will be reported by the ShockLog.



The user must continue to the “T&R Alarms” tab to configure tilt and roll alarms. This option is possible if the ShockLog 298 used has the capable hardware and the Tilt & Roll option is enabled on the “Firmware Options” tab.



Finally, the user continues to the “Finish” tab to review a summary of the selections made. If all choices are correct, the user will click the green arrow button to send the setup to the ShockLog.



### Access to Cloud Platform

Each device is shipped with a card containing its “Registration Token.”

Users can either scan the QR code or follow the link to register a new device.



## New User Set Up

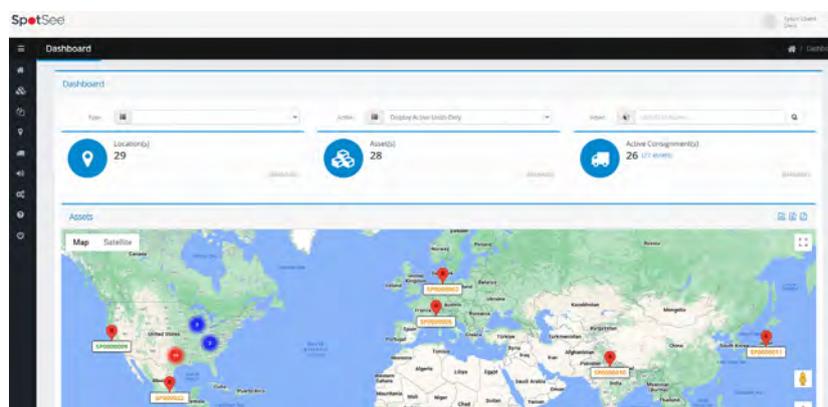
New users will be prompted to set up a user name and password as well as to define some basic preferences.

## Returning User Sign On

After a username and password have been established, users can sign in by navigating to track.spotsee.io and signing in.

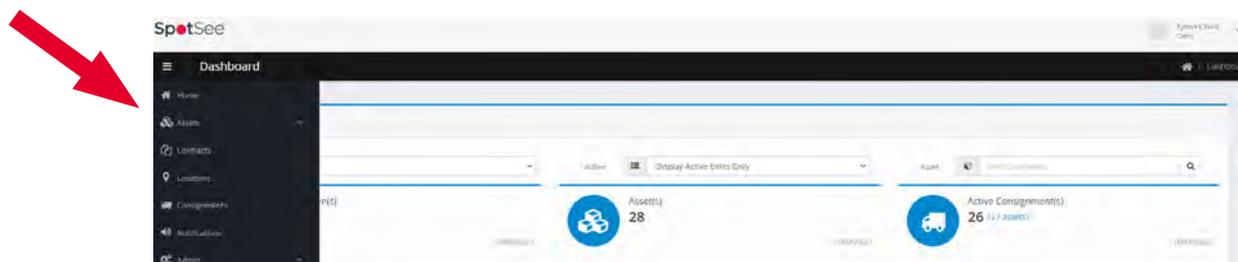
## Dashboard

Upon signing in, users will access their Dashboard which provides an overview of the Assets belonging to that user. These items can be filtered by Asset Type and Status. It also enables search for a specific Asset.



## Navigation Bar

When the cursor is positioned over the left side of the DASHBOARD, the NAVIGATION BAR will appear. This menu allows the user to choose the appropriate screens for configuration and visualization of assets and contracts.



## Assets Management Screen

By using the Navigation Bar to enter the Asset Management Screen, the user will display summary information for each of their devices.

Client	Asset Type	Unit ID	Name	Contract	Last Contact	Contact Type	Status	Activated
Mexico Test	ShockLog	SC4000189	SC4000189				Inactive	19/04
Uttarakhand Client	ShockLog	SC4000019	SC4000019	ShockLog-12	2024-09-06 18:17:48	Visit	Active	2024-09-06
Uttarakhand Client	ShockLog	SC4000018	SC4000018	ShockLog-12	2024-11-07 20:04:23	Visit	Active	2024-09-06
Zhailuo Demo Client	ShockLog	SC4000017	SC4000017	ShockLog-12	2024-11-14 22:13:04	Visit	Active	2024-09-06
Dallas Demo Client	ShockLog	SC4000016	SC4000016	ShockLog-12	2024-11-18 22:31:30	Visit	Active	2024-09-06
Dallas Demo Client	ShockLog	SC4000015	SC4000015	ShockLog-12	2024-11-07 18:32:56	Visit	Active	2024-09-06
Dallas Demo Client	ShockLog	SC4000014	SC4000014	ShockLog-12	2024-11-18 09:57:40	Visit	Active	2024-09-06
Dallas Demo Client	ShockLog	SC4000013	SC4000013	ShockLog-12	2024-11-14 22:57:39	Visit	Active	2024-09-06

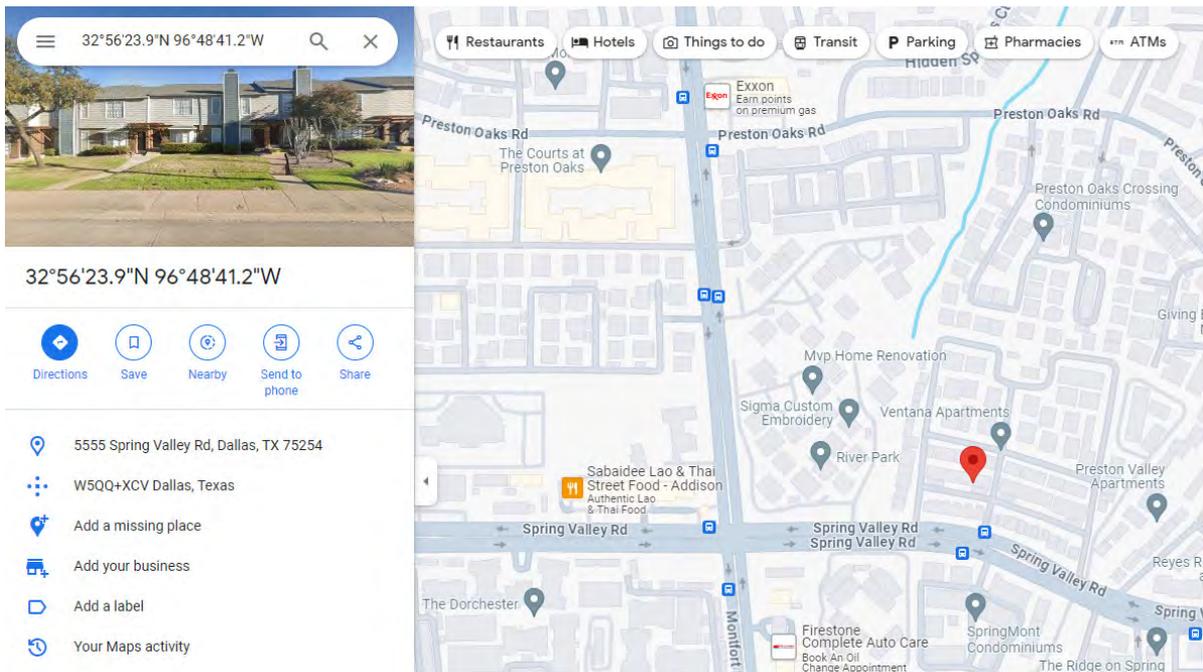
Below are definitions for the fields and buttons found on the Asset Management Screen:

- **Client:** Company name of Client (purchaser) of the connected device.
- **Asset Type:** Type of SpotSee connected asset (SpotBot GL, ShockLog Cellular GL, etc.)
- **Unit ID:** Serial number of the unit (this number can be found on the front label of the device)
- **Contract:** Service contract associated with the device (3 Month, 6 Month, or 12 Month)
- **Last Contact:** Date and time when the unit last reported to the SpotSee Cloud
- **Contact Type:** Methodology used to deliver the most recent position of the unit (Visit = WiFi, Cell = Cellular Network)
- **Status:** Activation status of the device (green icon = active, red icon= inactive, and yellow icon = update pending)
- **Activated:** Date the unit was activated

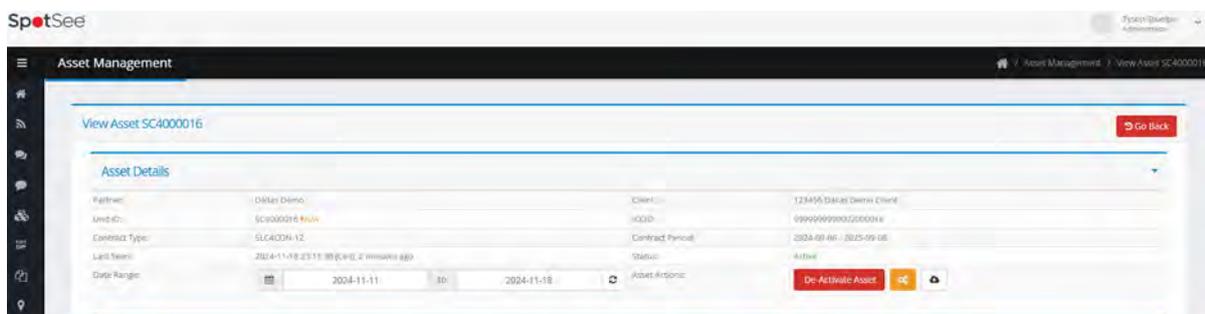
Users can view or edit detailed information for specific devices by clicking on one of the following icons associated with that device.

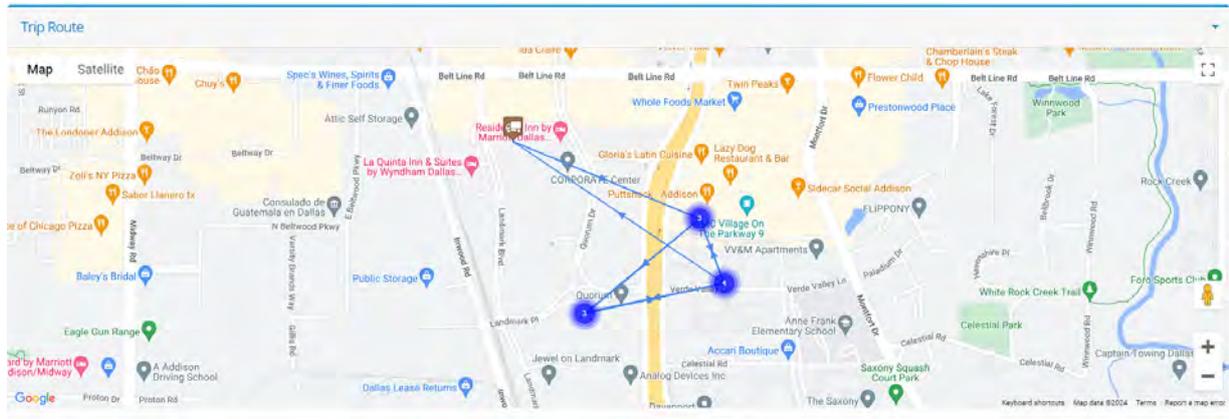


By clicking on the pin icon the user will open a new window with last reported geographic location of the device in google maps.



Clicking on the blue eye icon allows provides access to a screen with Asset Details, the Trip Route, the Trip Communication History, and the Impact Data for that specific device. From this screen the user can change the date range of the data viewed. The user can also deactivate the asset from this screen.





### Trip History

Unit ID	Activity	Location	Latitude	Longitude	Timestamp
SC4000016	Summary	<a href="#">View Location</a>	32.948	-96.825	2024-11-18 23:11:30
SC4000016	Summary	<a href="#">View Location</a>	32.948	-96.825	2024-11-18 22:11:30
SC4000016	Summary	<a href="#">View Location</a>	32.948	-96.825	2024-11-18 21:11:30
SC4000016	Summary	<a href="#">View Location</a>	32.948	-96.825	2024-11-18 20:11:30
SC4000016	Summary	<a href="#">View Location</a>	32.949	-96.824	2024-11-18 19:11:30
SC4000016	Summary	<a href="#">View Location</a>	32.949	-96.824	2024-11-18 18:11:30
SC4000016	Summary	<a href="#">View Location</a>	32.949	-96.824	2024-11-18 17:11:30



By clicking on the yellow settings icon, the user will navigate to the configuration screens for that device. The three tabs on this screen display the current unit configuration, notification, and advanced settings and provide the user with the opportunity to adjust these settings using drop-down menus.

Configure Asset SC4000016

Unit Configuration | Notification Settings | Advanced Configuration

Unit Name: SC4000016

Setup Device: Alarm levels must be set in the [Shocklog 298 Software](#)

Save Unit Configuration

## Unit Configuration

The Unit Configuration tab allows the user to designate the name for a unit (instead of the assigned serial number). Alarm thresholds are defined within the ShockLog software.

The setting change is done over the air; a cell connection is needed for the configuration to be changed so it may take up to 24 hours for the update to be reflected in the unit. Select SAVE CONFIGURATION when you have completed the changes.

Configure Asset SP100954

Unit Configuration | Notification Settings | Advanced Configuration

Alarm Notifications: [Email icon] [Text field]

Email list to receive Impacts notifications (comma, or semi colon separated list)

Tick to Enable Alarm Notifications.

Save Notification Settings

## Notification Settings

To receive impact Alarm Notifications:

- Enter the email addresses of those to receive the alarms (separated by commas or semi-colons)
- Tick the check box to enable the notifications function
- Click the Save Notification Settings button

The screenshot displays the configuration interface for a ShockWatch device, divided into three tabs: Unit Configuration, Notification Settings, and Advanced Configuration. The 'Advanced Configuration' tab is active, showing two sections: 'Wifi Settings' and 'Airplane Mode'.

**Wifi Settings:**

- SSID:** A text input field with a Wi-Fi icon on the left. Below it, the text 'Requested Value:' is displayed.
- WiFi Password:** A text input field with a lock icon on the left. Below it, the text 'Requested Value:' is displayed.
- SSID 2:** A text input field with a Wi-Fi icon on the left. Below it, the text 'Requested Value:' is displayed.
- WiFi Password 2:** A text input field with a lock icon on the left. Below it, the text 'Requested Value:' is displayed.

**Airplane Mode:**

- Tick to Enable Airplane Mode and apply the settings below
- Start Date:** A date picker field with a calendar icon on the left and an information icon on the right. Below it, the text 'Requested Value: N/A' is displayed.
- Start Time:** A time picker field with a clock icon on the left, a dropdown arrow on the right, and an information icon on the far right. Below it, the text 'Requested Value: N/A' is displayed.
- Duration:** A dropdown menu with a lock icon on the left, a dropdown arrow on the right, and an information icon on the far right. Below it, the text 'Requested Value: N/A' is displayed.

At the bottom of the 'Airplane Mode' section, there is a green button with a checkmark icon and the text 'Save Advanced Configuration'.

## Advanced Configuration

The Advanced Configuration settings allow a user to adjust:

- **Wifi Settings** - known Wifi devices and passwords that the device may communicate with along its journey
- **Airplane Mode** - period when device will be in-flight and should not utilize cellular communication.

## Contracts Screen

By using the Navigation Bar to enter the Contracts Screen, users are able to view Available and Allocated Contracts and make edits or changes to this allocation. The Contracts Screen provides a simple view of the contract length associated with each ASSET owned by the CLIENT.

The screenshot shows the 'Contracts' screen in the ShockWatch interface. It features a search bar, a dropdown for 'Contract Type' set to 'All Contract Types', and a table with columns: Partner, Client, Unit ID, Unit Name, Contract, Status, and Activated. The table contains four rows of contract data.

Partner	Client	Unit ID	Unit Name	Contract	Status	Activated
Dallas Demo	Dallas Demo Client	SP100180	SP100180	SBAGCON-3	✓	2023-08-17
Dallas Demo	Dallas Demo Client	SP100146	SP100146	SBAGCON-3	✓	2023-08-17
Dallas Demo	Dallas Demo Client	SP100119	SP100119	SBAGCON-12	✓	2023-07-28
Dallas Demo	Dallas Demo Client	SP100085	SP100085	SBAGCON-12	✓	2023-01-31

- **Contract:** Service contract associated with the device (3 Month, 6 Month, or 12 Month)
- **Status:** The icons in the Status column denote the status of a contract (green check for active and red x for inactive).
- **Activated:** Date the unit/contract was activated.

The user has the ability to Unallocate, Edit, or Remove Contracts by clicking on the appropriate icons in the final column (hover cursor over the icon to determine its function).