



SpotBot® 4G User Manual



SpotBot® 4G User Manual

Every year more than \$12B in goods are lost and over \$100B are damaged during transport. Companies are working to connect their supply chain to improve visibility of where shipments are, what conditions they are exposed to and who should be accountable for loss or damage.

The SpotBot® 4G Plus is the ideal solution for connecting you to your supply chain. Delivering tri-axial impact, temperature, and humidity monitoring along with location tracking, the SpotBot connects you to your assets via the SpotSee Cloud. Log-in to see the status of your shipment and receive alerts throughout its journey.

SpotBot 4G+ Features & Benefits

- Monitor location, impact, temperature and humidity
- 4G LTE-M and Wi-Fi Connectivity
- Access to information through a secure, dedicated web portal
- Accurate reporting of unacceptable conditions
- Custom, timely alerts of changing conditions of your shipment

Configure the SpotBot 4G

The SpotBot 4G+ is configured over the air by accessing the SpotSee Cloud. Users can change unit configurations as well as consignment and reporting parameters.

Firmware Updates

The SpotBot 4G+ firmware is automatically upgraded over the air. There is no need to connect the unit to an external computer. When the SpotBot 4G+ is connected to the cellular network, any available firmware upgrades will automatically download to the unit.

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.



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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.

The 'Update Profile' form contains the following fields and options:

- Username: Text input field.
- Full Name: Text input field.
- Email: Text input field.
- Temperature Scale: Dropdown menu with 'Celsius (°C)' selected.
- Date Format: Dropdown menu with 'mm/dd/yyyy (04/04/2024)' selected.
- Time Zone: Dropdown menu with 'UTC-05:00 Eastern Time (US & Canada), Bogota, Lima' selected.
- Update Password?: A checked checkbox.
- Password: Text input field with a 'Generate Password' button next to it.

Below the password field, there is a small note: "Minimum eight (8) characters in length, at least two (2) completely different uppercase letters, lowercase letters, special characters, no reuse of previous ten (10) passwords."

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.

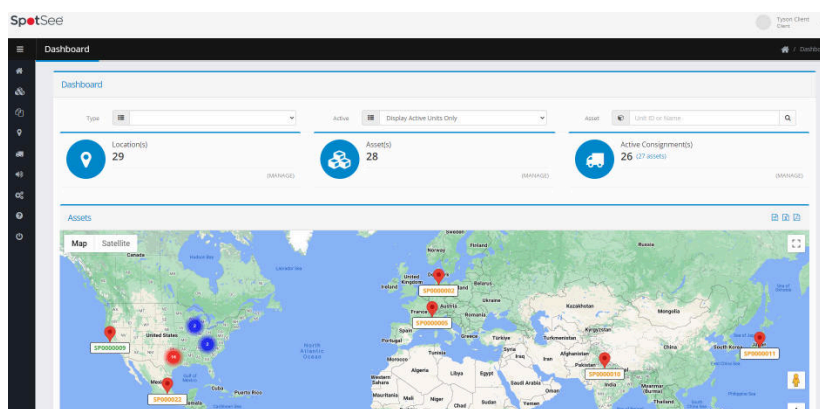
The login page features the SpotSee logo at the top left and a 'SIGN IN' button at the top right. The main form includes:

- Username: Text input field with a user icon on the right.
- Password: Text input field with a 'Reset Password?' link to its right.
- Remember Me: A checkbox.
- Sign In: A blue button.

At the bottom, there is a copyright notice: "© Copyright 2024-04-04. All Rights Reserved."

Dashboard

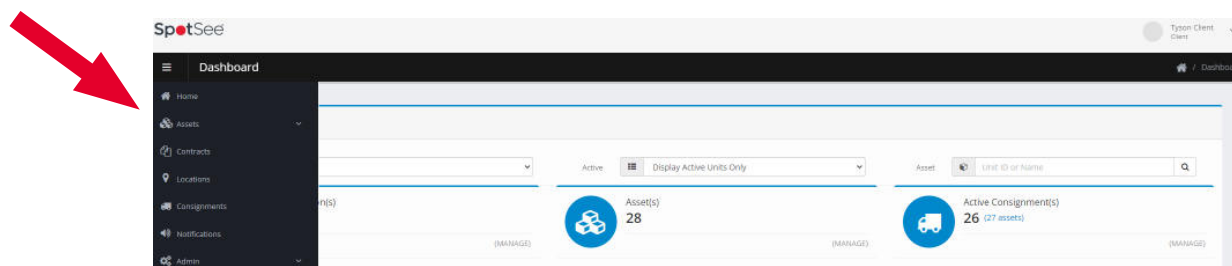
Upon signing in, users will access their Dashboard which provides an overview of the Locations, Assets, and Consignments (or Trips) belonging to that user. These items can be filtered by Asset Type and Status. It also enables search for a specific Asset.



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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, contracts, locations, consignments, notifications.



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.

Asset Type	Unit ID	Name	Contract	Last Contact	Contact Type	Status	Activated
SpotBot4G	SP100180	SP100180	SB4GCON-3	2024-01-18 20:12:17	Visit	Active	2023-08-17
SpotBot4G	SP100146	SP100146	SB4GCON-3	2024-01-20 16:04:53	Visit	Active	2023-08-17
SpotBot4G	SP100119	SP100119	SB4GCON-12	2024-01-18 08:29:07	Visit	Active	2023-07-28
SpotBot4G	SP100695	SP100695	SB4GCON-12	2024-01-21 22:26:05	Visit	Active	2023-01-31

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

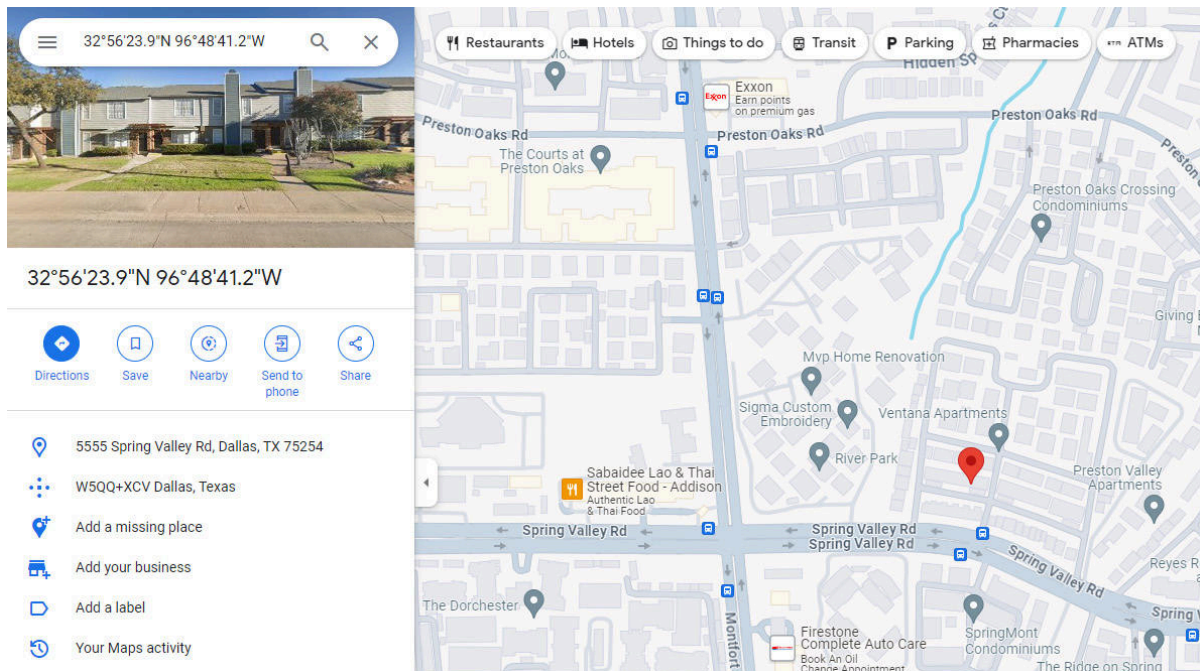
- **Client:** Company name of Client (purchaser) of the connected device.
- **Asset Type:** Type of SpotSee connected asset (SpotBot4G, ShockLog Cellular, ShockLog Satellite, etc.)
- **Unit ID:** Serial number of the unit (this number can be found on the front label of the device)
- **Contract:** Service 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 = Wi-Fi, 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

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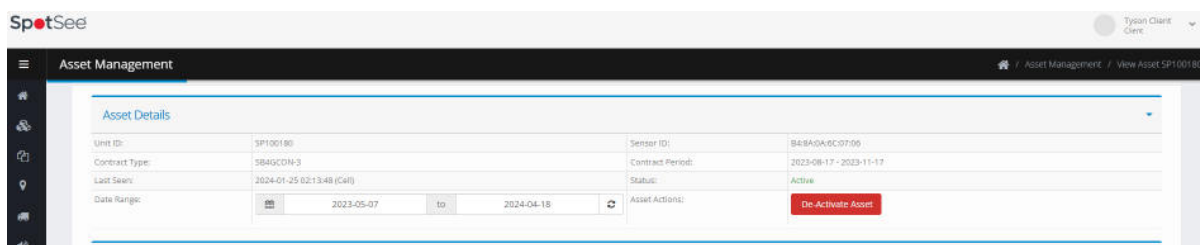
Users can view or edit detailed information for specific devices by clicking on one of the following icons associated with that device.



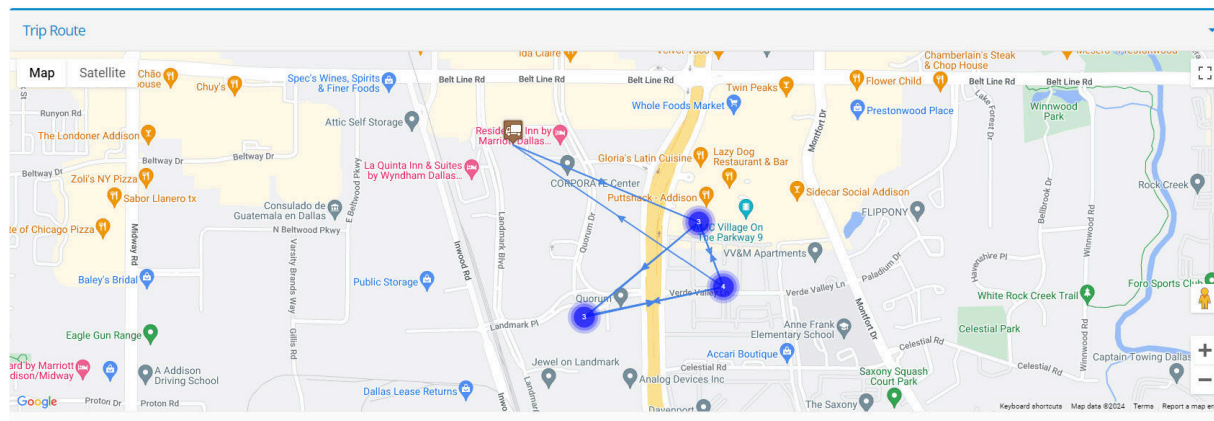
By clicking on the pin icon the user will open a new window with last reported geographic location of the device in google maps.



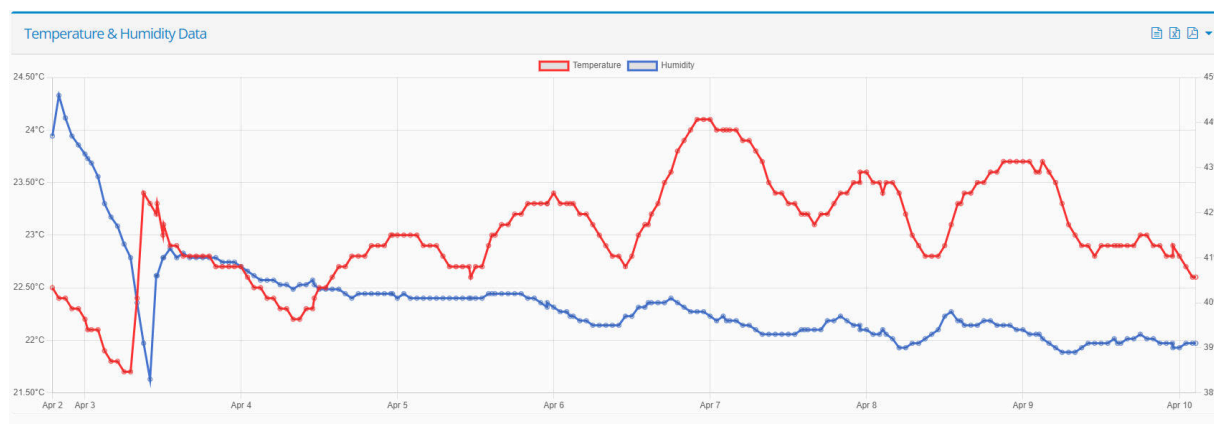
Clicking on the blue eye icon allows provides access to a screen with Asset Details, the Trip Route, the Trip Communication History, and the Temperature & Humidity Data for that specific device. From this screen the user can change the date range of the data viewed. The user can also deactivate the asset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



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Trip History						
Unit ID	Unit Name	Location	Type	Latitude	Longitude	Arrived
SP101011	SP101011		Cell	32.949	-96.821	04/10/2024 03:04:38
SP101011	SP101011		Cell	32.949	-96.821	04/09/2024 15:04:08
SP101011	SP101011		Cell	32.950	-96.822	04/09/2024 03:02:40
SP101011	SP101011		Cell	32.952	-96.828	04/08/2024 15:02:03
SP101011	SP101011		Cell	32.949	-96.821	04/08/2024 03:00:26



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.

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Configure Asset SP100180

Unit Configuration
Notification Settings
Advanced Configuration

Unit Name

Shock Threshold

Requested Value: 10g

Temperature Monitoring Period

Requested Value: 4 Hours

Upload Interval

Requested Value: 50 Hours

GPS Acquisition Interval

Requested Value: 120 Hours

Unit Configuration

Drop down menus may be used to adjust the following parameters:

- **Shock Threshold:** Range of impacts that will be recorded/reported by the unit (3-100G or Disable Shock Sensor)
- **Temperature Monitoring Period:** Interval for the device to record/report temperature/humidity data (15 Minutes- 150 Hours or Disable Temperature/Humidity Sensor)
- **Upload Interval:** Time interval for data upload when no movement is detected (2-100 Hours)
- **GPS Acquisition Interval:** Time interval between attempts to obtain a GPS location (48-144 hours)

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.

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The screenshot shows the 'Configure Asset SP100954' interface. At the top, there are three tabs: 'Unit Configuration', 'Notification Settings' (which is selected), and 'Advanced Configuration'. Below the tabs, there is a section for 'Alarm Notifications'. It includes an email input field with an envelope icon, a checkbox labeled 'Tick to Enable Alarm Notifications.', and a green button labeled 'Save Notification Settings' with a checkmark icon. Below the input field, there is a small text label: 'Email list to receive Impacts notifications (comma, or semi colon separated list)'.

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 shows the 'Configure Asset SP100954' interface, specifically the 'Advanced Configuration' tab. The tab is selected, and the section is titled 'Wifi Settings'. There are four input fields, each with a label and a 'Requested Value:' prompt below it. The first two fields are for 'SSID' and 'WiFi Password', each with a Wi-Fi icon. The next two fields are for 'SSID 2' and 'WiFi Password 2', each with a Wi-Fi icon. The labels and prompts are: 'SSID', 'Requested Value:', 'WiFi Password', 'Requested Value:', 'SSID 2', 'Requested Value:', 'WiFi Password 2', and 'Requested Value:'.

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Airplane Mode

☐ Tick to Enable Airplane Mode and apply the settings below

Start Date





Requested Value: N/A

Start Time



Select Start Time





Requested Value: N/A

Duration



Select Duration





Requested Value: N/A

✓ Save Advanced Configuration

Advanced Configuration

The Advanced Configuration settings allow a user to adjust:

- **Wi-Fi Settings** - known Wi-Fi 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.

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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.

Contracts									
<div> <div>Contract Type</div> <div>All Contract Types</div> </div> <div> <div>10</div> <div>records per page</div> </div> <div>Search</div>									
Partner	Client	Unit ID	Unit Name	Contract	Status	Activated			
Dallas Demo	Dallas Demo Client	SP100180	SP100180	SB4GCON-3	✓	2023-08-17			
Dallas Demo	Dallas Demo Client	SP100146	SP100146	SB4GCON-3	✓	2023-08-17			
Dallas Demo	Dallas Demo Client	SP100119	SP100119	SB4GCON-12	✓	2023-07-28			
Dallas Demo	Dallas Demo Client	SP100085	SP100085	SB4GCON-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).

Locations Screen

The Locations screen allows the user to set the origin point and destination point(s) for shipments. At a minimum, origin and destination LOCATIONS must be created to generate a CONSIGNMENT (or trip).

Locations												
<div> <div>Partner</div> <div>SP4GDEMO - SpotBot 4G Demo</div> </div> <div> <div>Client</div> <div>View all</div> </div> <div> <div>10</div> <div>records per page</div> </div> <div>Search</div> <div>Add Location</div>												
Partner	Client	Site Code	Name	Address	Latitude	Longitude	Radius	Return	Default	Status		
SpotBot 4G Demo	Central Demo	Wrigley Field	Wrigley Field	1010 West Addison Street, Chicago, IL, USA	41.947525	-87.655332	100	✗	✗	✓	📍	🗑️
SpotBot 4G Demo	Northeast Demo	UPS Store	UPS Store Test	45 Lafayette Terrace, North Hampton, NH 03862, USA	42.997033	-70.815317	100	✗	✗	✓	📍	🗑️
SpotBot 4G Demo	West Demo	AGP Glass	Tracy	6872 Promontory Pkwy, Tracy, CA 95377, USA	37.732411	-121.529541	100	✓	✗	✓	📍	🗑️
SpotBot 4G Demo	West Demo	Tom's Test	Tom Daly	3304 Inverness Court, Sacramento, CA, USA	38.625277	-121.370803	100	✗	✗	✓	📍	🗑️
SpotBot 4G Demo	SP4GDEMO	test 1	Tim Test 1	2 Handcroft Close, Crondall, Farnham GU10 5RY, UK	51.239145	-0.860618	100	✗	✗	✓	📍	🗑️
SpotBot 4G Demo	Northeast Demo	Chicago	Tianev	304 Birchwood Lane, Bloomington, IL 60108, USA	41.941048	-88.065045	300	✗	✗	✓	📍	🗑️

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Add Locations

Click the +Add Location button on the Locations Screen to create a new location.

The screenshot shows the 'Locations' screen in the SpotSee application. On the left is a form with the following fields:

- Partner:** SP4GDEMO - SpotBot 4G Demo
- Client:** SP4GDEMO - SP4GDEMO
- Site Code:** 0008
- Name:** SpotSee Headquarters
- Address:** 5000 Quorum Drive, Dallas, TX, USA. Below the field is a note: "Start with zip/postal code or street and then select an address, you may also reposition the marker on the map if the location is not correct."
- Latitude:** 32.9480605
- Longitude:** -96.8254278
- Radius:** 100 Meter Radius
- ☐ Default Home Location?
- ☐ Return Location?
- Create Location** (green button)

On the right is a map view showing the location of SpotSee Headquarters (5000 Quorum Dr, Dallas, TX) marked with a red pin. The map includes various landmarks and street names like Quorum Dr, Landmark Blvd, and Dallas Pkwy. A 'Go Back' button is in the top right corner.

The **Site Code** and **Name** are determined by the Client. Enter the physical address (or business name) into the Address field. This field is supported by Google Maps. A pin will appear in the **Map** on the right side of the screen. The pin can be moved to the exact location desired. It is possible to use the person icon to get a street level view of the address if desired.

Latitude and **Longitude** are populated automatically and will update if the pin is moved.

Radius is determined by the Client and represents the area around the pin that will determine if the shipment is at the defined location. The radius may be set between 100-1,500 meters.

Locations may also be assigned one of the following designations:

- **Default Home Location:** A user might choose this designation if it represents a point of origination for multiple Consignments.
- **Return Location:** A location where the device should be returned to if the units are in a closed supply loop. This field allows the user to know when units have returned and are available for redeployment.

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Consignments Screen

The Consignments screen allows users to create specific trips. This screen contains information relevant to a trip: the partner, client, order reference, destination, journey start date, and status/date of delivery. In cases where the device is to be returned to its origin, the status under Returned and Date will be updated accordingly.

Consignments

+ Add Consignment

Partner

SP4GDEMO - SpotBot 4G Demo

Client

View all

Status

Open

Search

Unit ID or Name

Search Q

10 records per page

Search

Partner	Client	Ref	Destination	Started	Delivered	Date	Returned	Date	
SpotBot 4G Demo	Central Demo	Wrigley Field	Wrigley Field	10/16/2023					
SpotBot 4G Demo	Great Lakes Demo	Sample Trip	Shelly Test	09/19/2023					
SpotBot 4G Demo	Central Demo	Central Test	Kraig Nunn	08/08/2023					
SpotBot 4G Demo	Great Lakes Demo	Shipping to Customer XYZ	Archie's Den	06/07/2023		06/08/2023			
SpotBot 4G Demo	Northeast Demo	Test 3	Ficodiello	06/07/2023					
SpotBot 4G Demo	SP4GDEMO	TCL Conference in Frankfurt	SpotSee Deeside	06/06/2023					

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Add Consignment

To add a consignment, select +Add Consignment. The Consignment Ref field is user defined and the Client should determine a name/number that is meaning for them.

The **Start Date** defaults to the current date but should be adjusted to reflect the date that the journey is to begin, and the unit will start recording.

All Locations defined by the user will be available as options in the **Destination** and **Return Location** drop down menus. The user should select the appropriate, pre-defined, location for each. The **Return Location** is the address where the device will be returned at the end of a journey.

Once all the desired fields have been updated appropriately, click the **Create Consignment** button to move on to the phase of adding assets to the consignment.

Consignments

Consignment Ref





Start Date



Destination





Return Location





 Create Consignment

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Selecting Assets for a Consignment

When the user clicks on the **Create Consignment** button an **Assets** menu will appear. This screen allows the user to search and identify the unit or units that will be used on the consignment.

Assets

Unit ID	Delivered	Returned
Search for assets below		

Search

Unit ID

Notification Groups Screen

The Notification Groups screen provides many more notification and reporting options than the simple impact alerts that can be specified in the Notification Settings tab of the Asset Management screen. In Notification Groups, users can set up Impact, Temperature, Humidity, Transit, and Consignment reporting and alerts (as well as identify the timing and recipients for these notifications). To generate and distribute these reports to the appropriate parties, the user must first navigate to the Notification Groups screen.

Notification Groups

+ Add Notification Group

Partner

SP4GDEMO - SpotBot 4G Demo

Client

View all

10 records per page

Search

Partner	Client	Group Name	Recipients	Schedules	Default	
SpotBot 4G Demo	Central Demo	Kraig's Demo Device	1	0		
SpotBot 4G Demo	Mexico Demo	Notifications Mexico	1	4		
SpotBot 4G Demo	Northeast Demo	Hartford	1	1		

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Add a Notification Group

To add a Notification Group, click the +Add Notification Group button and the screen that enables configuration will appear.

Notification Groups

Group Name

Temperature Scale

Celsius (°C)

Date Format

yyyy-mm-dd (2024-04-18)

Time Zone

(UTC) Western Europe Time, London, Lisbon, Casablanca

☐ Default Notification Group?

Transit Settings

Days in Transit

5

Days at Location

14

Days on Report

2

Shock Thresholds

Shock Threshold

Disable Notifications

Days on Report

1

Format

Excel

Measurement Thresholds

Minimum Temperature

Disable Notifications

Maximum Temperature

Disable Notifications

Days on Report

1

Minimum Humidity

Disable Notifications

Maximum Humidity

Disable Notifications

Format

Excel

✓ Create Notification Group

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The transit settings allow the user to easily identify consignments or shipments that are outside of the expected delivery timeframe. The user will define Days in Transit for the shipment as well as Days at Location. Days on Report references the number of days that these parameters will be monitored.

Users will also determine the monitoring thresholds for Shock, Temperature, and Humidity using the appropriate drop-down menus. For each condition the user may also choose to Disable Notifications.

The user must select the format for reporting (pdf, excel, or CSV). Once the parameters are updated, click the Create Notifications Group button. The screen that appears allows the user to identify the report recipients and define the reporting schedule.

Recipients

Name	Email	Mobile	Consignments	Impacts	Measurements	Transit	On Event
Please add a recipient below							

Add Recipient

Name
Email
Mobile

International format

Notifications

☐ Consignment Reports?
☐ Impact Reports?
☐ Measurements Reports?
☐ Transit Notifications?
☐ On Event Notifications?

Save Recipient
Cancel Changes

Add Schedule

Scheduled Time
Select Time Slot

Scheduled Days

☐ Mon
☐ Tue
☐ Wed
☐ Thu
☐ Fri

☐ Sat
☐ Sun

Include Notifications

☐ Consignment Reports?
☐ Impact Reports?
☐ Measurement Reports?
☐ Transit Notifications?

Save Schedule
Cancel Changes

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「減少電磁波影響，請妥適使用」

「電波功率密度 MPE 標準值：___mW/cm²，送測產品實測值：___mW/cm²，建議使用時設備天線至少距離人體 20 公分。」

「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」

「為維護隱私權，請妥適使用」