REV 1.01
DATE 02/July/2025

# GPS LAUNCH

## UNIFY TRAINING GUIDE

Customer Use

ANOVA

# INDEX

# INDEX

# INDEX

# INDEX

# INTRODUCTION & APPLICATIONS

# INTRODUCTION

- The GPS feature has been launched to the Unify Platform.
- It has been added to 3 menus:
  - SETTINGS menu;
  - DEVICES menu;
  - OPERATIONS menu.
- The GPS feature is compatible/applicable to the following Product types:
  - SC415 / UTM;
  - xTM (CTM, FTM, RTM);
  - STM;
  - SC471.

# APPLICATIONS

- The GPS feature available in Unify will allow to assist the user in the following main scenarios:
  - Lifetime device tracking;
  - Misallocations;
  - Lost/Unused stock detection.

# SETTINGS MENU

# DEVICES TAB: LOCATION PAGE

**1 -** Click the SETTINGS icon to open the SETTINGS MENU.

**2 -** Select the DEVICES Tab.

**3 -** Click “LOCATION” to open the LOCATION Page.

**4 -** The LOCATION Page has 4 new settings added:

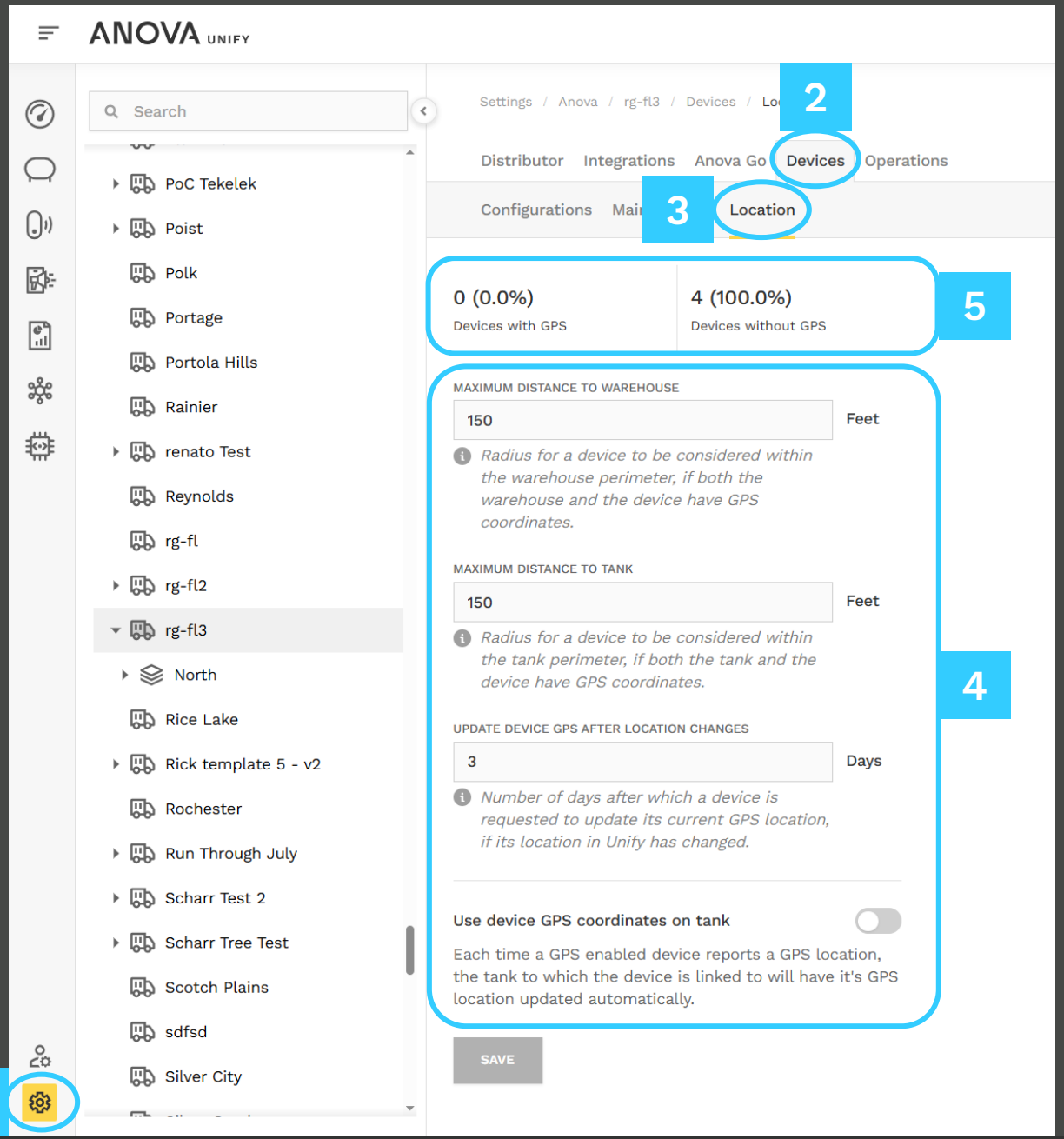
- MAXIMUM DISTANCE TO WAREHOUSE – Radius for a device to be considered within the warehouse perimeter, if both the warehouse and the device have GPS coordinates.
- MAXIMUM DISTANCE TO TANK – Radius for a device to be considered within the tank perimeter, if both the tank and the device have GPS coordinates.
- UPDATE DEVICE GPS AFTER LOCATION CHANGES – Number of days after which a device is requested to update its current GPS location, if its location in Unify has changed.
- USE DEVICE GPS COORDINATES ON TANK – Each time a GPS enabled device reports a GPS location, the tank to which the device is linked to will have its GPS location updated automatically.

The default units for all settings are:

- Feet unit for Imperial System;
- Meters unit for Metric System.

These settings can be changed at any time, changes do not affect existing tanks, only new tanks.

**5 -** Customers can also see a breakdown of the GPS enabled devices in their fleet.



# DISTRIBUTOR TAB: DETAILS PAGE

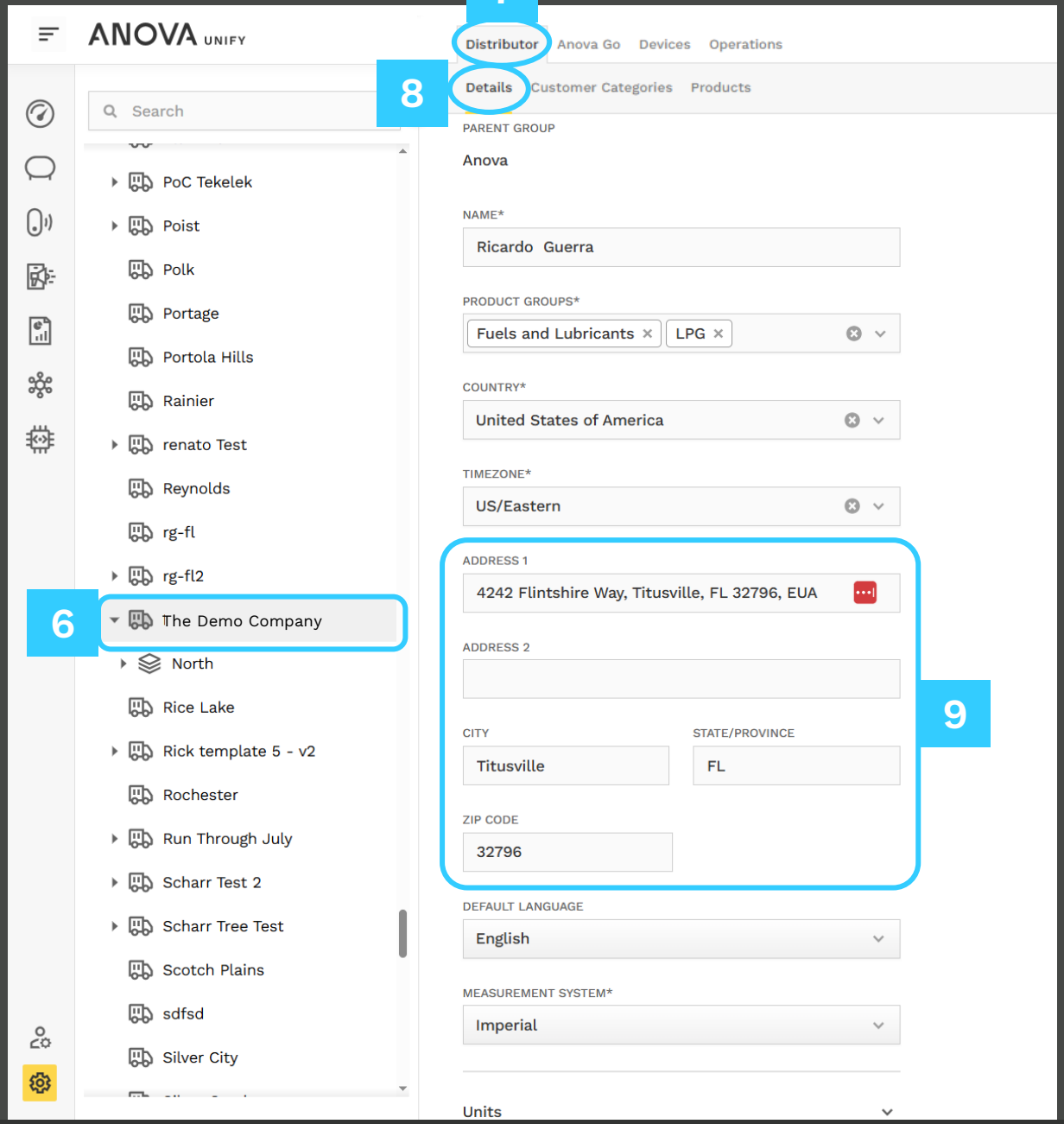
**6 -** Select a DISTRIBUTOR inside your TENANT.

**7 -** Select the DISTRIBUTOR TAB.

**8 -** Click on “DETAILS” to open the DETAILS Page.

**9 -** Users can now also update the DISTRIBUTOR ADDRESS.

**NOTE:** This address is just informative and does not play a factor in managing site, tank, device or warehouse locations.



# DEVICES MENU

# CONFIGURATIONS TAB: CHANNELS PAGE

**10 -** Click the DEVICES icon to open the DEVICES MENU.

**11 -** Select a TENANT / WAREHOUSE.

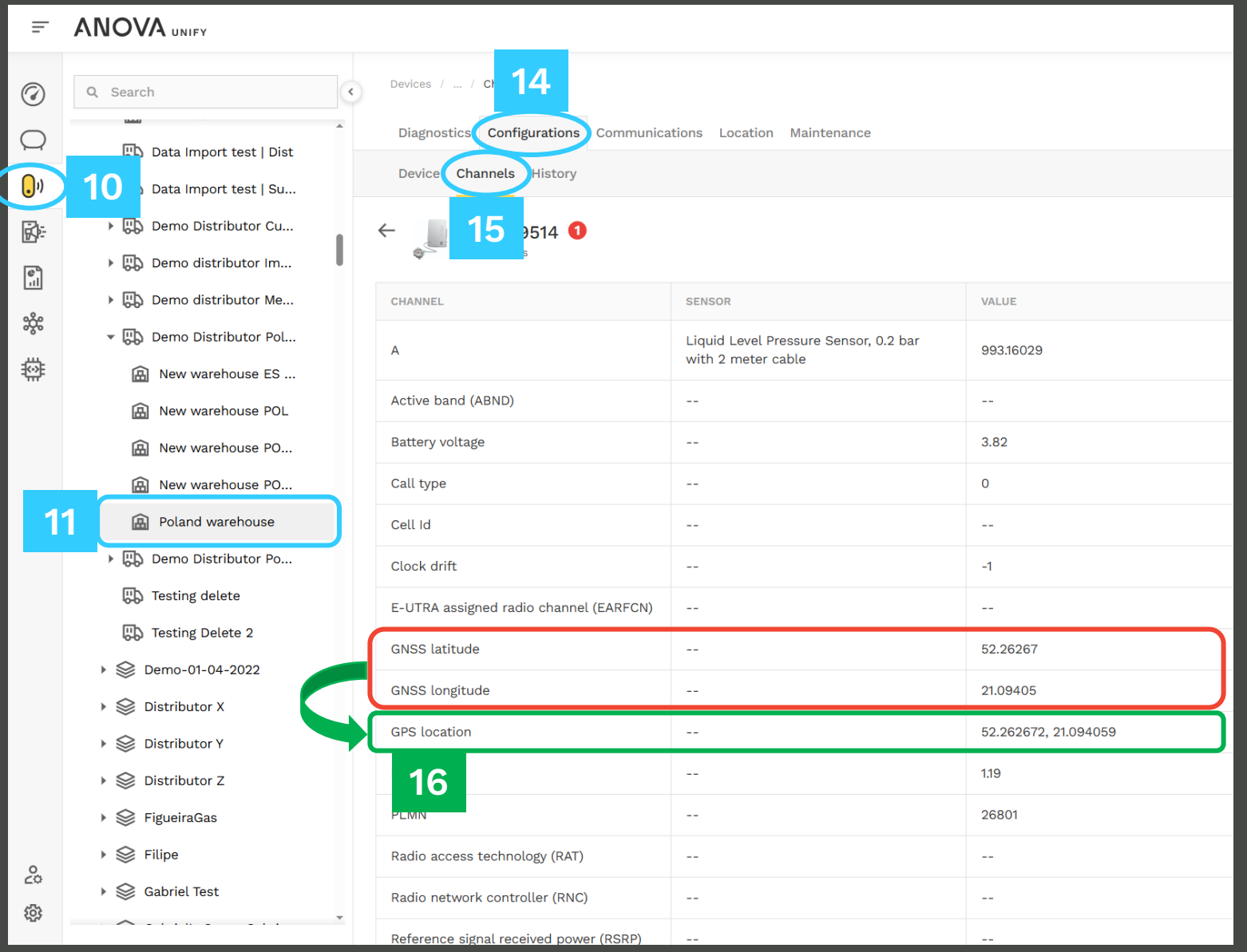
**12 -** Search for the device SN (serial number) on the SEARCH BAR on the top right corner.

**13 -** Click on the device SN to open its DEVICE PAGE.

**14 -** Select the CONFIGURATIONS TAB.

**15 -** Click on “CHANNELS” to open the CHANNELS PAGE.

**16 -** The GNSS LATITUDE and GNSS LONGITUDE Channels have been deleted and merged into a single GPS LOCATION Channel.

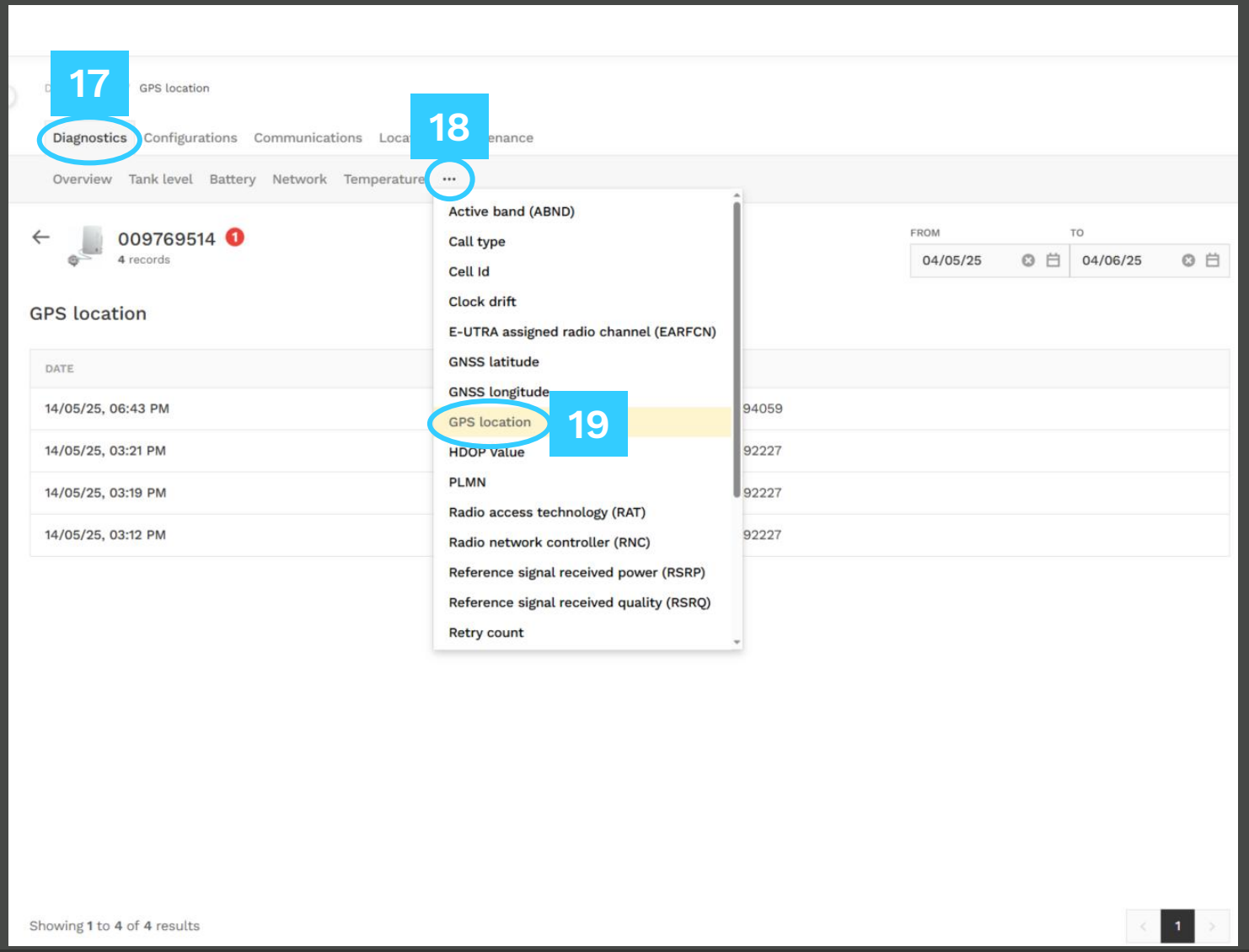


# DIAGNOSTICS TAB: GPS LOCATION PAGE

**17 -** For the same device SN, select the DIAGNOSTICS TAB.

**18 -** Click on option "..." to view the list of additional pages available.

**19 -** Select GPS LOCATION from the list to view the HISTORY of GPS locations for this device.



# LOCATION PAGE: MAP VIEW

**20 –** For the same device SN, click on “Location” to open the LOCATION Page.

**21 -** The LOCATION Page will display by default the MAP VIEW.

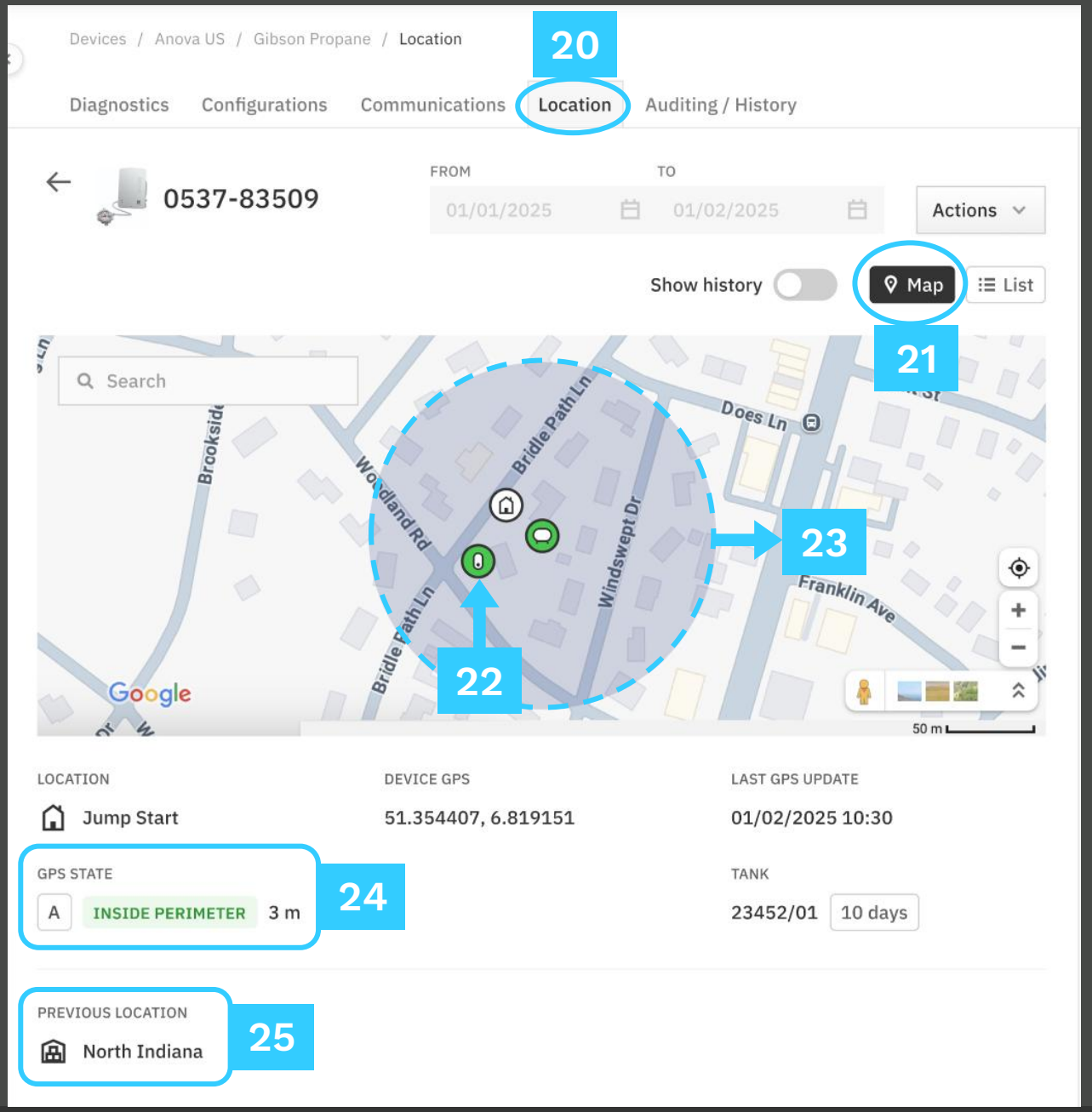
**22 -** The MAP VIEW shows the current device physical location and how it relates to its current location in UNIFY (for example: the warehouse, a tank, etc.).

**23 -** If the device is in a warehouse or allocated to a tank, a radius is depicted around one of those icons to help understand how far the device is from where it should be. **NOTE:** This is key to understand how these records correlate in space.

**24 -** Below the MAP VIEW, the device GPS STATE will be displayed. The device GPS STATE is calculated each time the device reports GPS, being the possible values the following:

- **INSIDE PERIMETER** - Device supports GPS, and valid GPS reading, and GPS location inside warehouse/tank perimeter;
- **OUTSIDE PERIMETER** - Device supports GPS, and valid GPS reading, and GPS location outside warehouse/tank perimeter;
- **INVALID GPS** - Device supports GPS, but invalid/poor GPS reading;
- **UNKNOWN** (default) - Device does not support GPS, or GPS not available, or logical location does not support GPS (distributor, region, district, sub-district).

**25 -** Below the MAP VIEW, it also shows the PREVIOUS LOCATION for quick access.

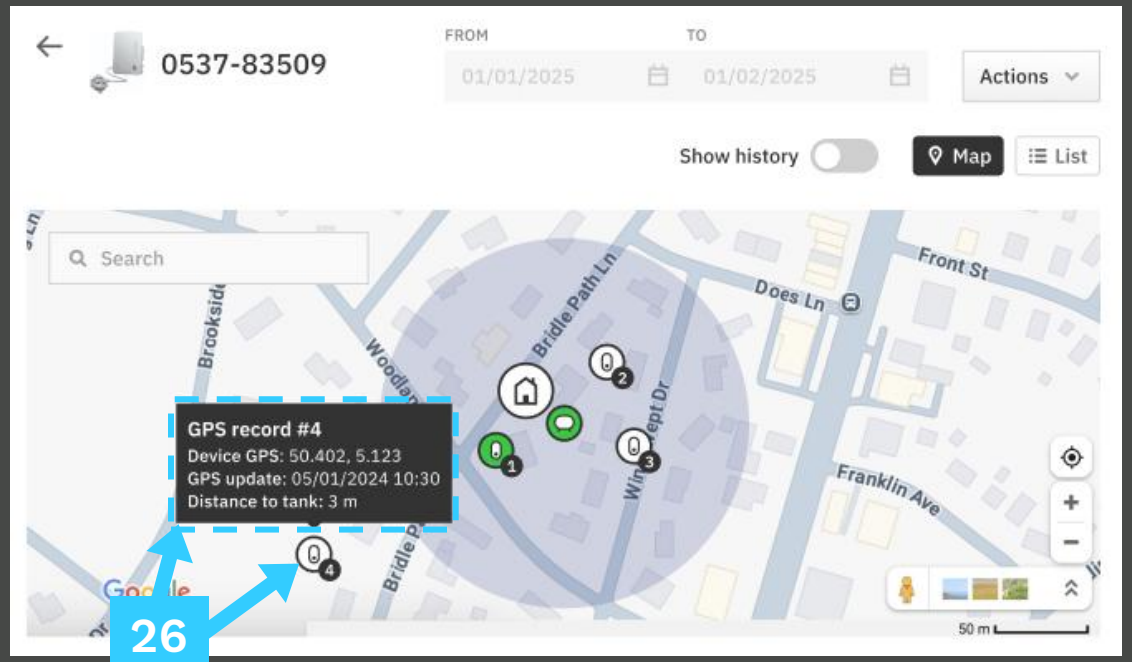


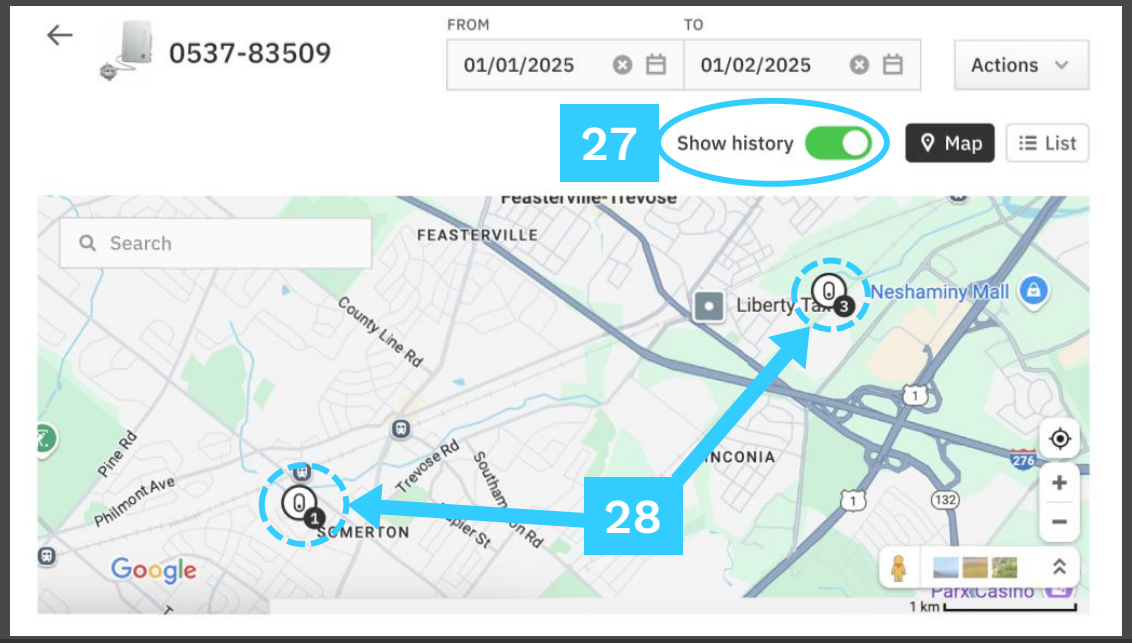
# LOCATION PAGE: MAP VIEW (CONTINUED)

**26 – (OPTIONAL)** Clicking each ICON on the map shows a tooltip with additional context.

**27 -** Users can see HISTORY of GPS locations on the MAP by clicking “SHOW HISTORY”.

**28 -** The smaller the number on the MAP, the most recent is the history record.






ANOVA

# LOCATION PAGE: MAP VIEW (CONTINUED)

**NOTE:** The GPS update feature is only supported by the following devices:

- SC415
- UTM

Users can schedule a GPS update on the device on the next communication. This is useful when customers need to update the device GPS if:

- they think the current location is outdated;
- they are diagnosing a misallocation to a tank;
- they think the device has been lost or stolen.

**29 -** Click on the ACTIONS button.

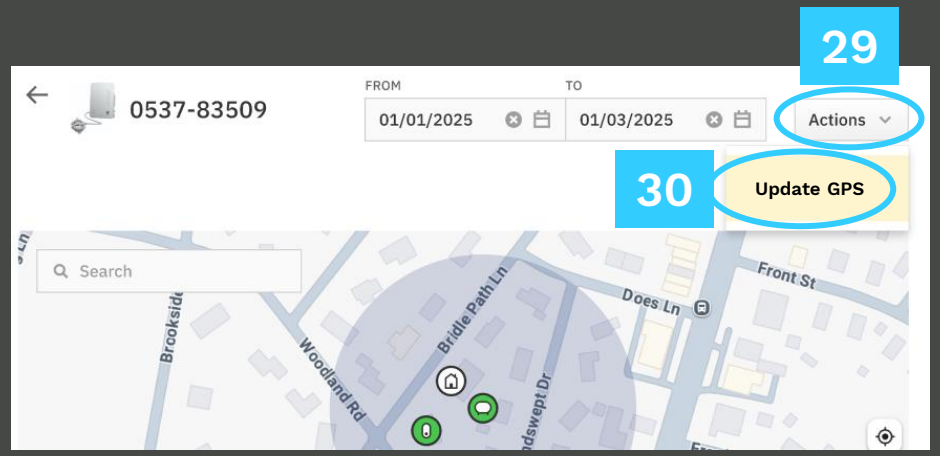
**30 -** Select SCHEDULE DEVICE GPS UPDATE.

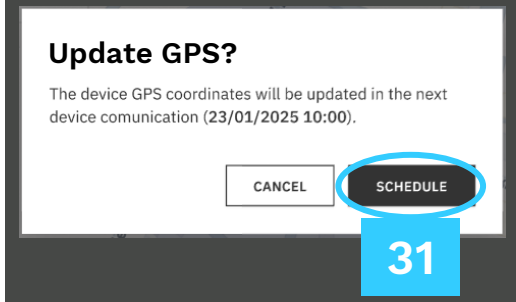
**31 –** A pop-up window will appear for the user to confirm the GPS update. Click SCHEDULE to confirm.

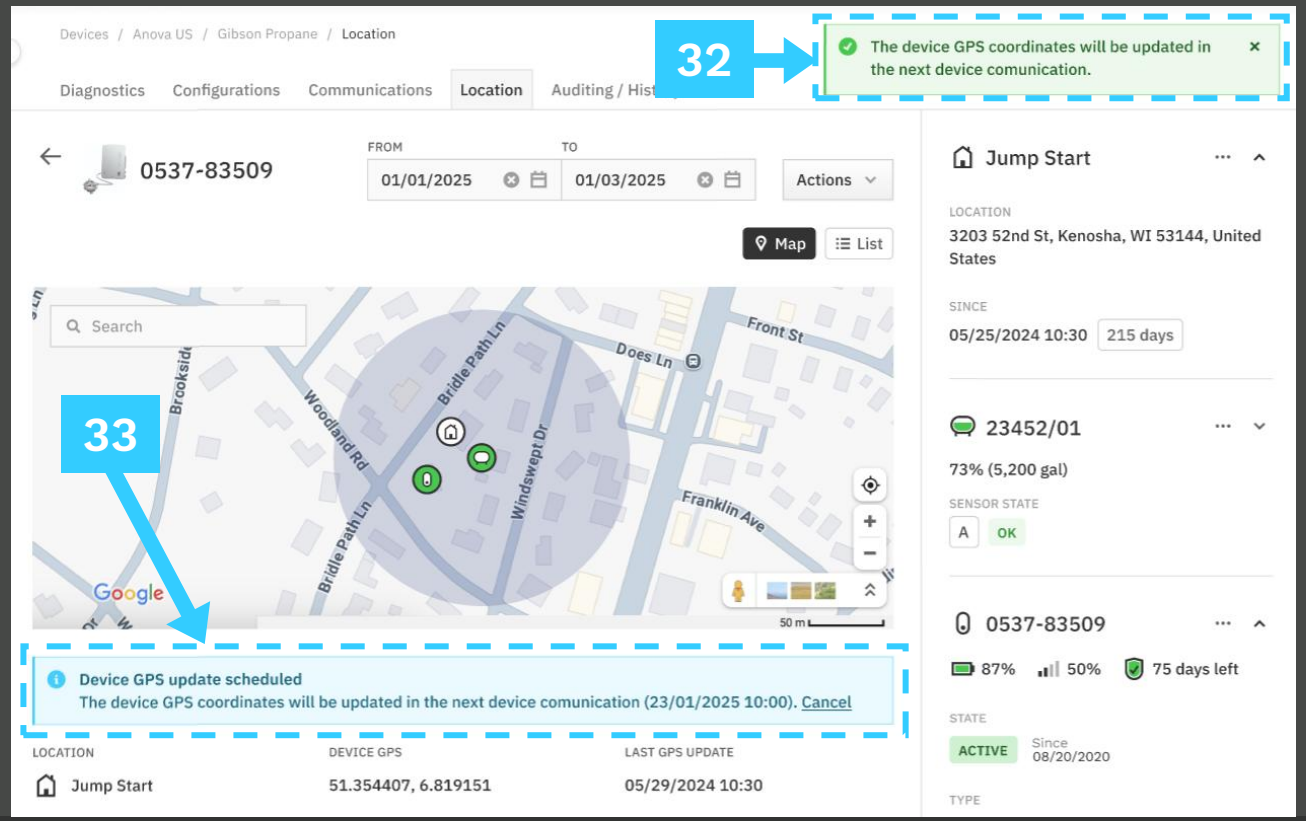
**32 -** The page will update on the top right corner with the message in green: “The device GPS coordinates will be updated in the next device communication.”

**33 -** Also, below the MAP a message in blue will be automatically triggered warning the user that a Device GPS update was scheduled and the device GPS coordinates will be uploaded in the next device communication.

**WARNING:** Updating the GPS is a heavy operation on the device’s battery as it will take time to acquire a GPS signal from the satellite.



# LOCATION PAGE: LIST VIEW

**34 -** Click on “List” to switch from MAP VIEW to LIST VIEW.

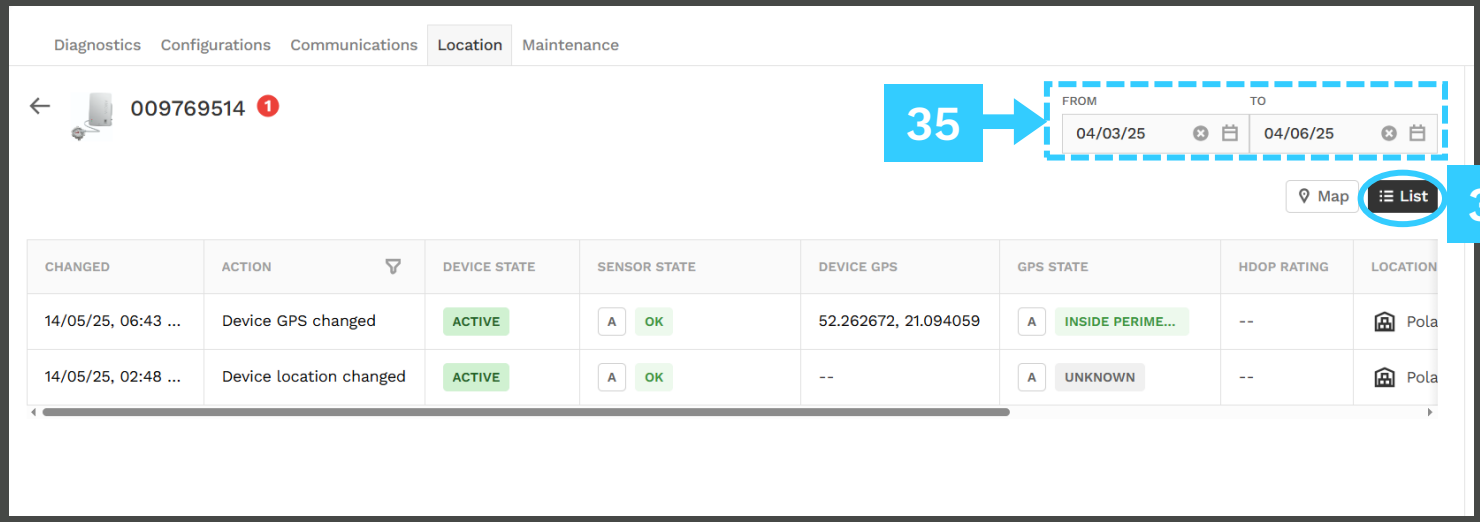
The LIST VIEW shows the history of all Unify locations as well as GPS locations of the device.

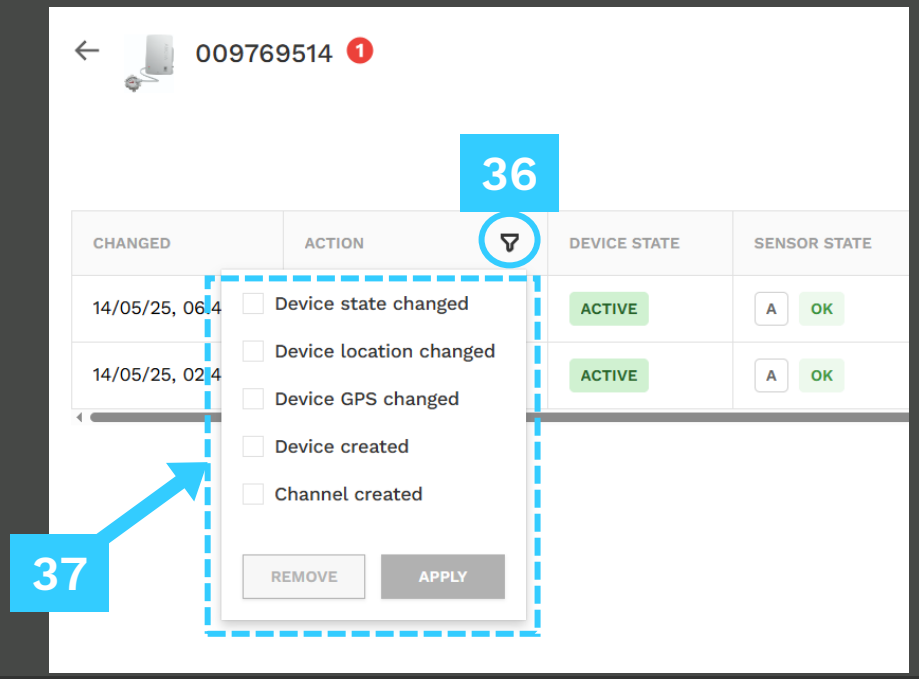
**35 -** The default timeline is the last 3 months, but users can redefine the date range filter.

**36 -** Click on the FILTER icon next to ACTION to filter by action type.

**37 -** There are 5 action types available:

- Device state changed
- Device location changed
- Device GPS changed
- Device created
- Channel created



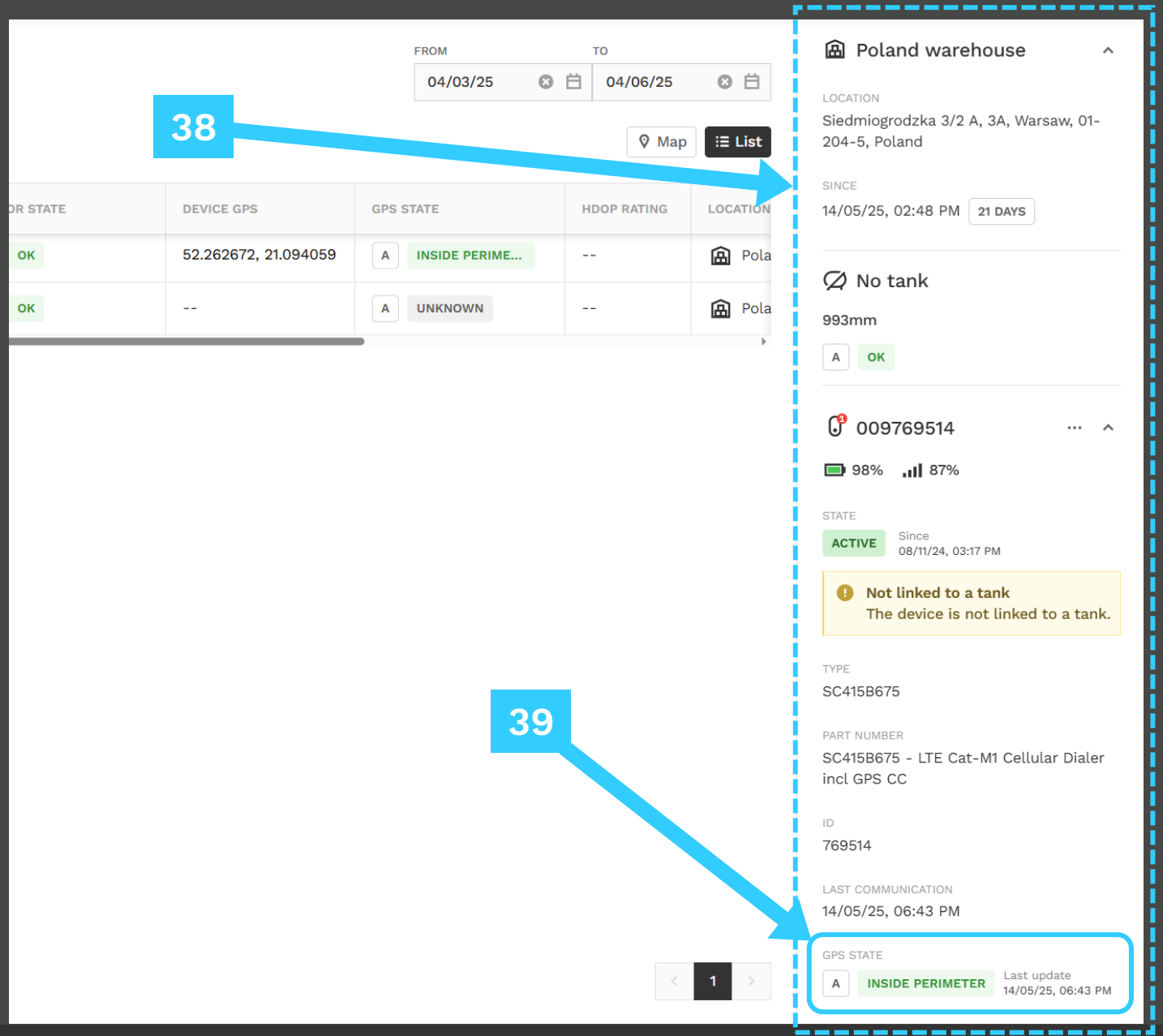



# LOCATION PAGE: RIGHT-SIDE COLUMN

**38 -** The device's information is also displayed on the right-side column.

**39 -** The GPS STATE and LAST UPDATE timestamp are also displayed on the right-side column.

**NOTE:** The GPS STATE is calculated from the device channel selected. In this example, it's being calculated from channel A.



# DEVICES MENU: NEW WAREHOUSE

The new and edit warehouse features were expanded to include the possibility of managing its GPS location.

**40 -** Click on the "..." icon next to your company's account.

**41 -** Select "NEW WAREHOUSE".

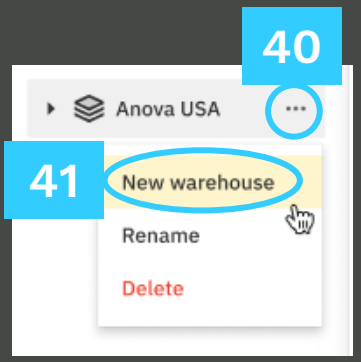
**42 -** Users can now input the warehouse address. Insert the warehouse address on the left-side column.

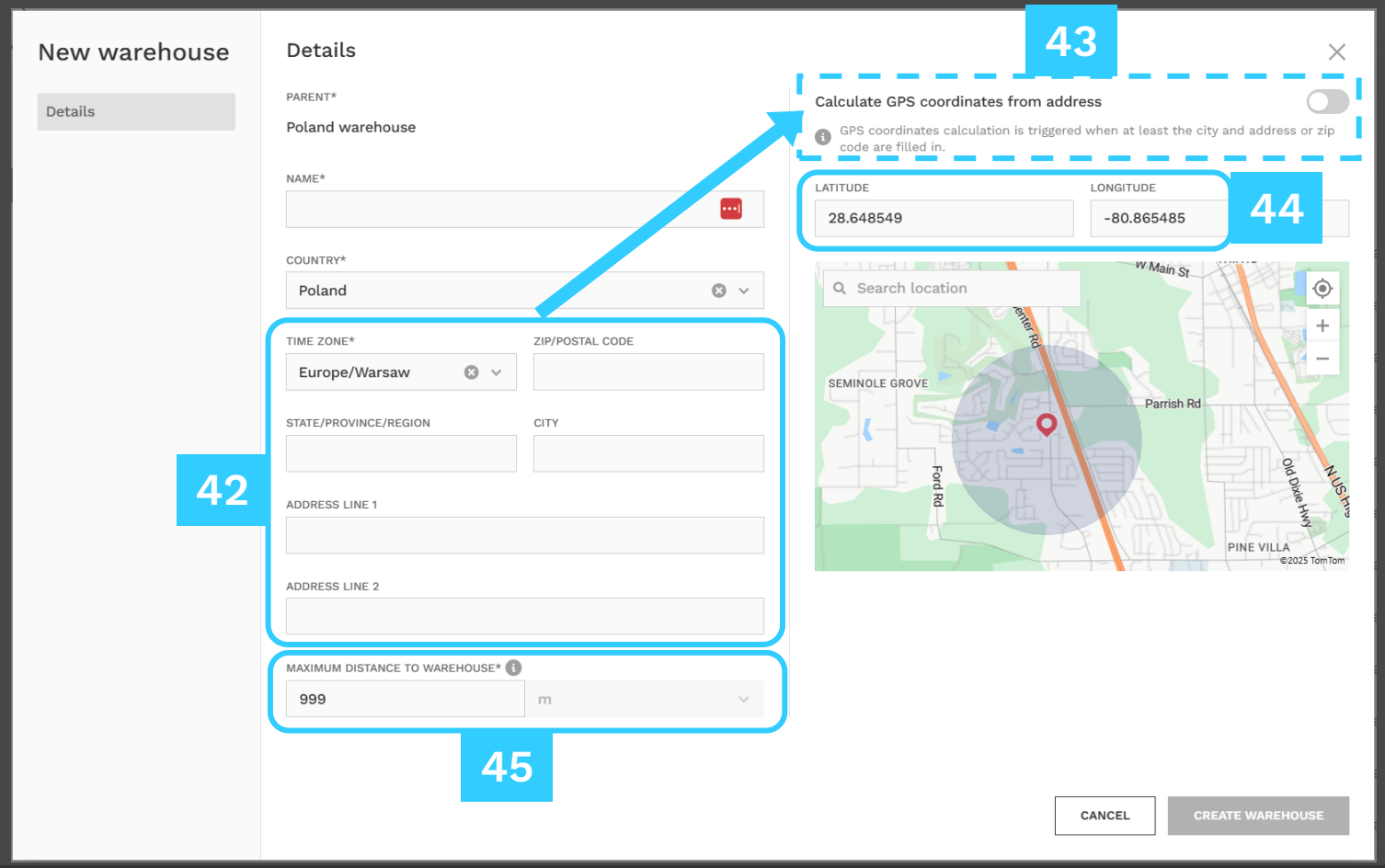
**43 – (OPTIONAL)** On the right-side top corner, select CALCULATE GPS COORDINATES FROM ADDRESS for the GPS coordinates to be automatically filled in.

**44 – (OPTIONAL)** Or users can manually input the GPS coordinates.

**45 -** There is a new field "MAXIMUM DISTANCE TO THE WAREHOUSE", the default value is loaded from the distributor settings, users can redefine it as need be. This allows the user to define a range around the warehouse to consider a device inside or outside the expected range.

**NOTE:** Both features can be done at any time both when creating or editing a warehouse.

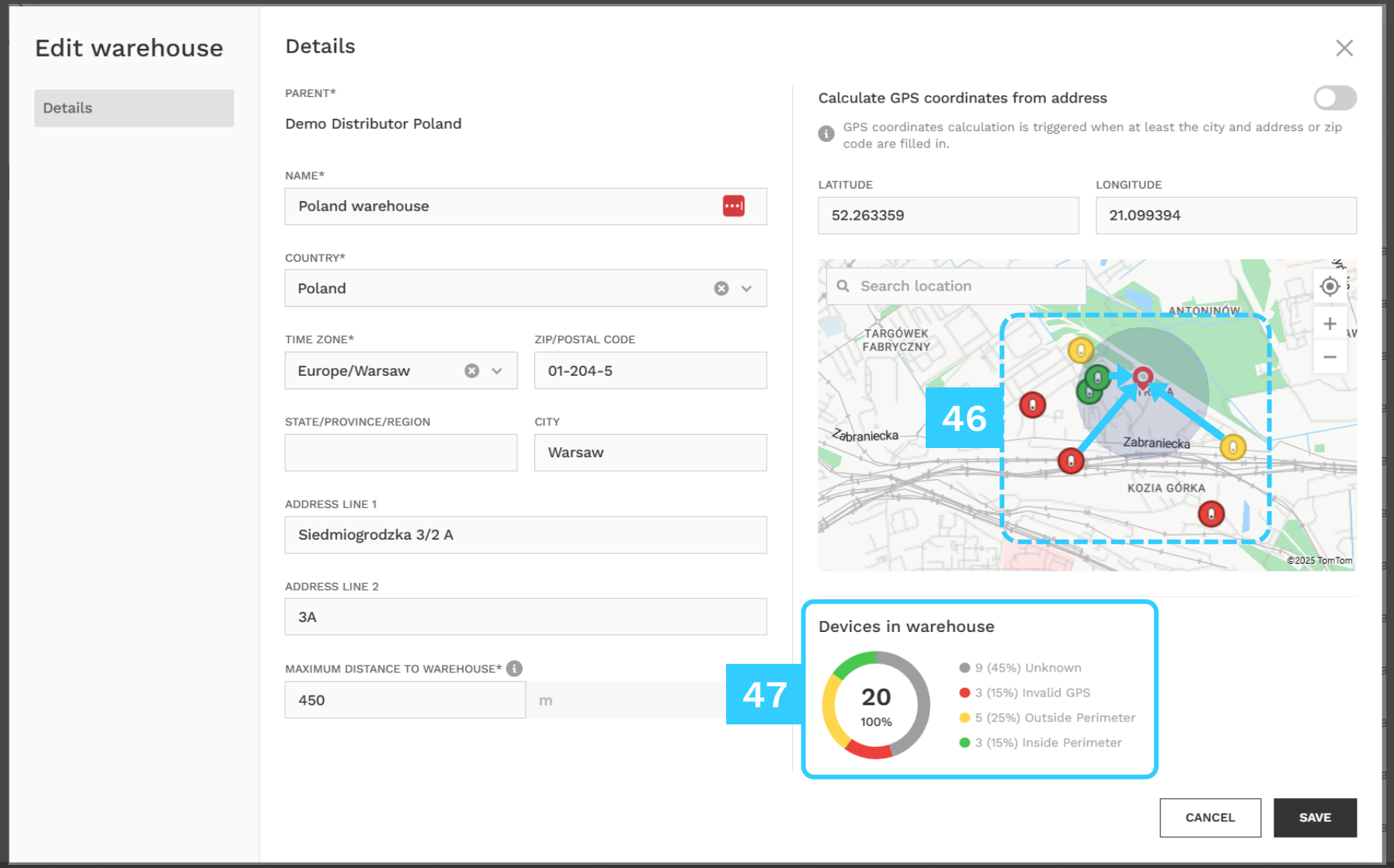


# DEVICES MENU: EDIT WAREHOUSE

**46 -** When editing a warehouse, the user can see how the devices in the warehouse related to the warehouse location on the map.

**47 -** A donut chart is also displayed with a simpler break down of devices in the warehouse by their GPS state in relation to the warehouse location.



# OPERATIONS MENU

# OPERATIONS MENU: LOCATION PAGE

**48 -** Click the OPERATIONS icon to open the OPERATIONS MENU.

**49 -** Select a site/tank to view details.

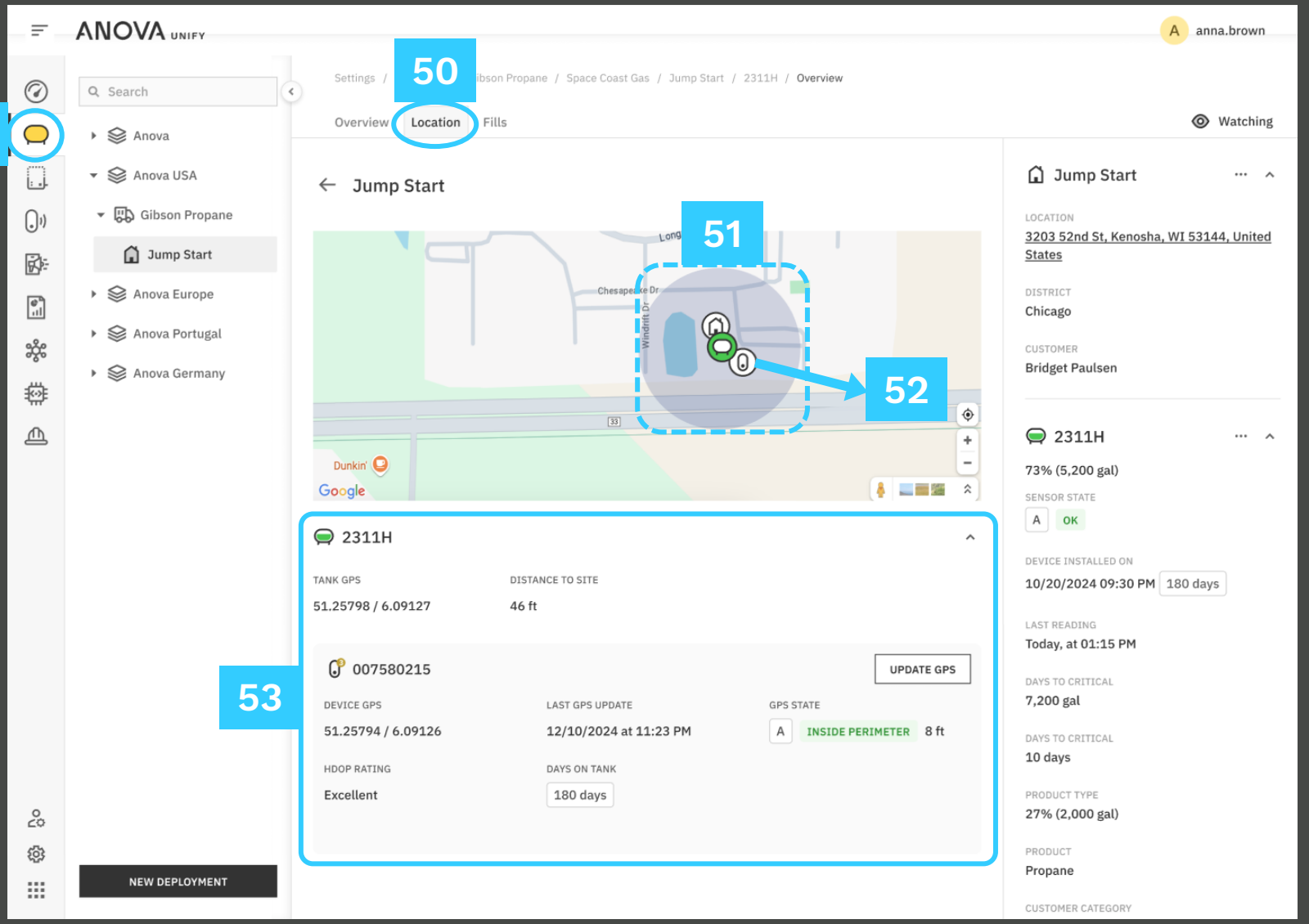
**50 -** Select the LOCATION Page.

**51 -** The LOCATION Page shows the site, tank(s) and device(s) locations on the map. This is key to understand how these records correlate in space.

**52 -** Clicking each icon on the map shows a tooltip with additional context.

**53 -** The information below the MAP VIEW is displayed by tank in the site and shows tank and device information focusing on GPS.

**NOTE:** A typical site has a single tank, but many sites have multiple tanks as well.



# LOCATION PAGE: SCHEDULE GPS UPDATE

**NOTE:** The GPS update feature is only supported by the following devices:

- SC415
- UTM

Same feature as in Devices Menu, but here a site can have multiple tanks and devices.

Users can trigger a GPS update on the device on the next communication. This is useful when customers need to update the device GPS if:

- they think the current location is outdated;
- they are diagnosing a misallocation to a tank;
- they think the device has been lost or stolen.

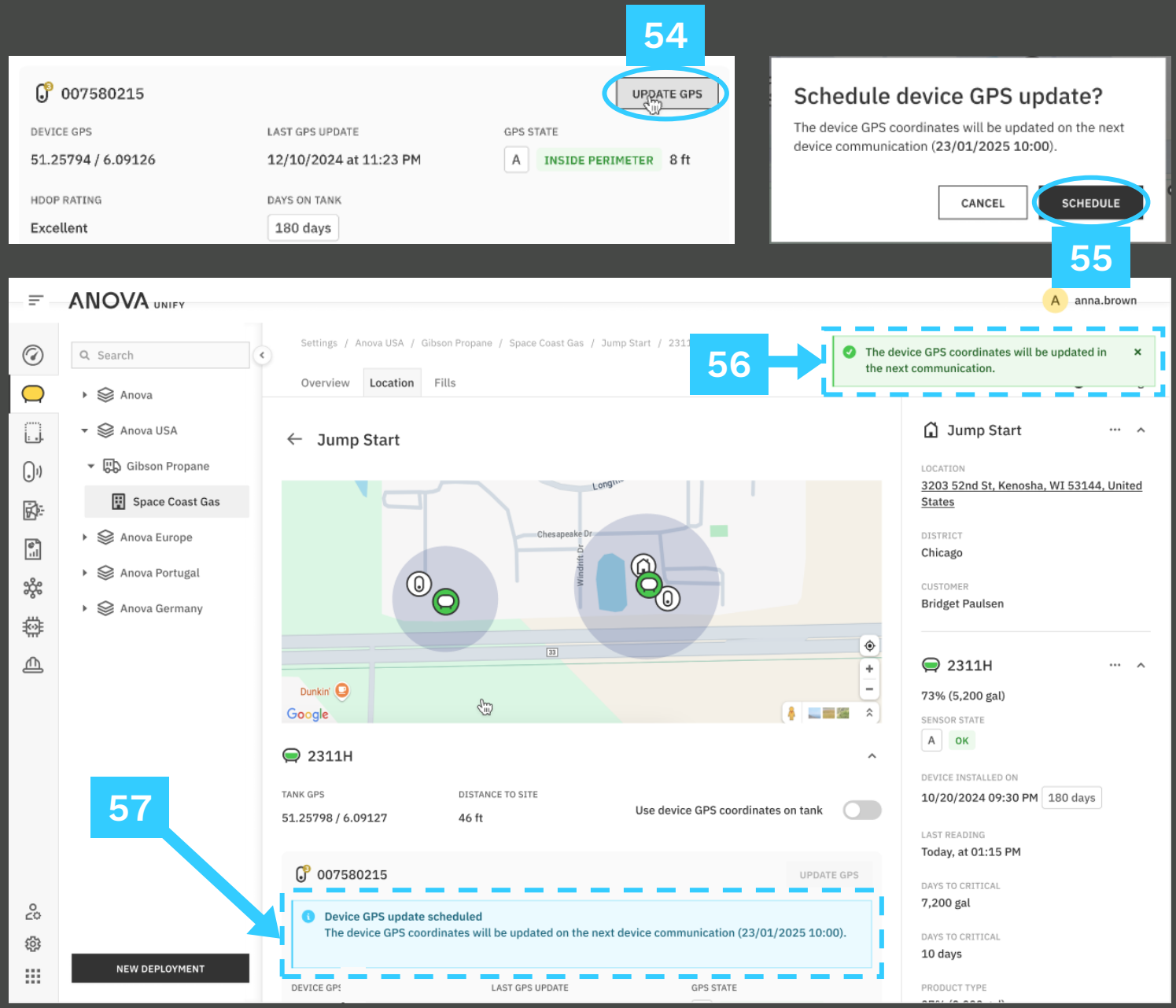
**54 -** Click on UPDATE GPS next to the device serial number.

**55 –** A pop-up window will appear for the user to confirm the GPS update. Click SCHEDULE to confirm.

**56 -** The page will update on the top right corner with the message in green: “The device GPS coordinates will be updated in the next device communication.”

**57 -** Also, below the device serial number a message in blue will be automatically triggered warning the user that a Device GPS update was scheduled and the device GPS coordinates will be uploaded in the next device communication.

**WARNING:** Updating the GPS is a heavy operation on the device’s battery as it will take time to acquire a GPS signal from the satellite.



# LOCATION PAGE: SHOW NEARBY TANKS

This feature is key to help diagnose device misallocations to tanks.

For example:

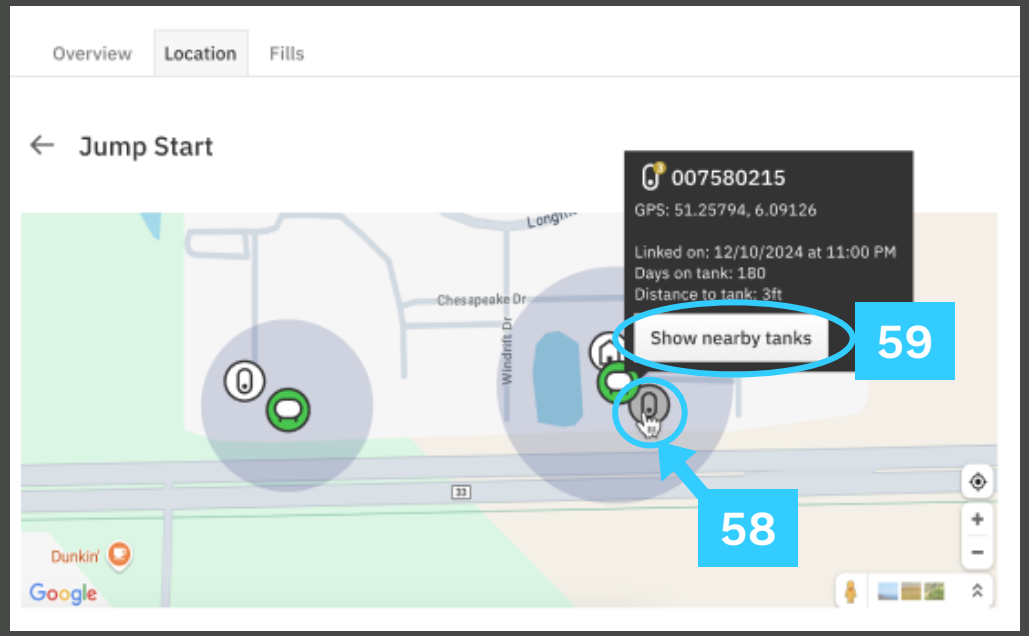
Technician is currently on site and reports that the product level on the tank does not match the tank level reported by the device. If that's really the case the device may have been misallocated to another tank nearby.

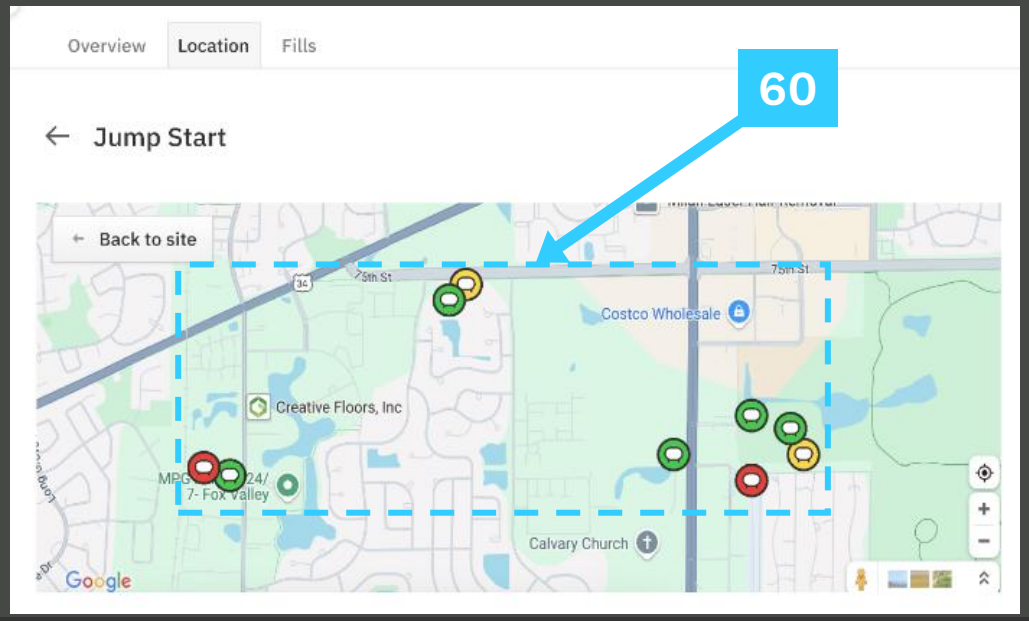
As such, from this view, users can show nearby tanks on the map to help diagnose the problem and see if there is a better tank match nearby.

**58 -** Click on the device icon on the map.

**59 -** A tooltip will appear next to the device icon. Click on "SHOW NEARBY TANKS" in the tooltip.

**60 -** All the tanks the user has access to in a 3 miles radius will be displayed, even the ones not associated to that site.

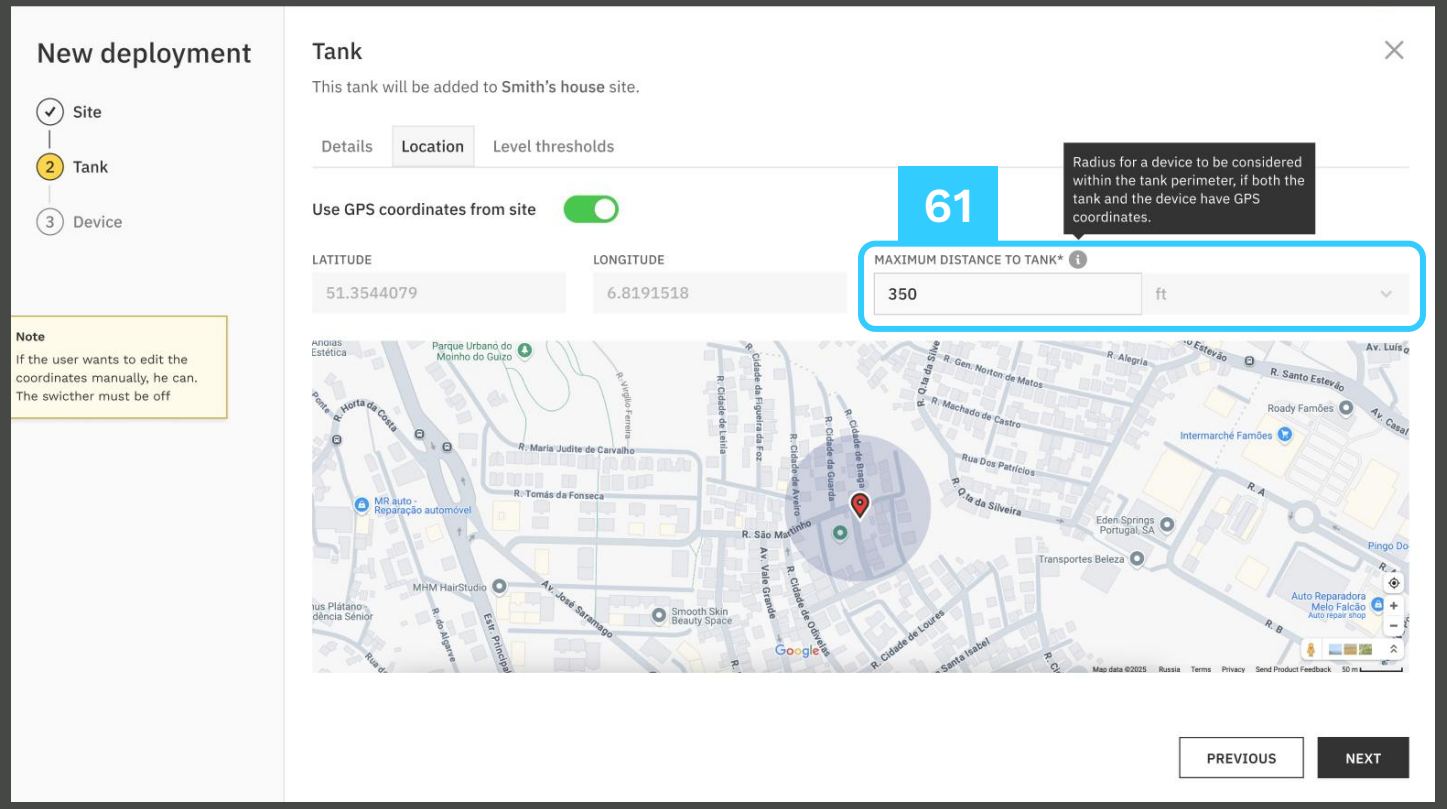


# NEW DEPLOYMENT: MAXIMUM DISTANCE TO TANK

**61 -** There is a new field “Maximum distance to the tank”. This allows the user to define a range around the tank to consider a device inside or outside the expected range. This option can be adjusted both when creating or editing a tank.

**NOTE:** The default value is loaded from the distributor setting when creating a tank. Users can redefine it as needed.



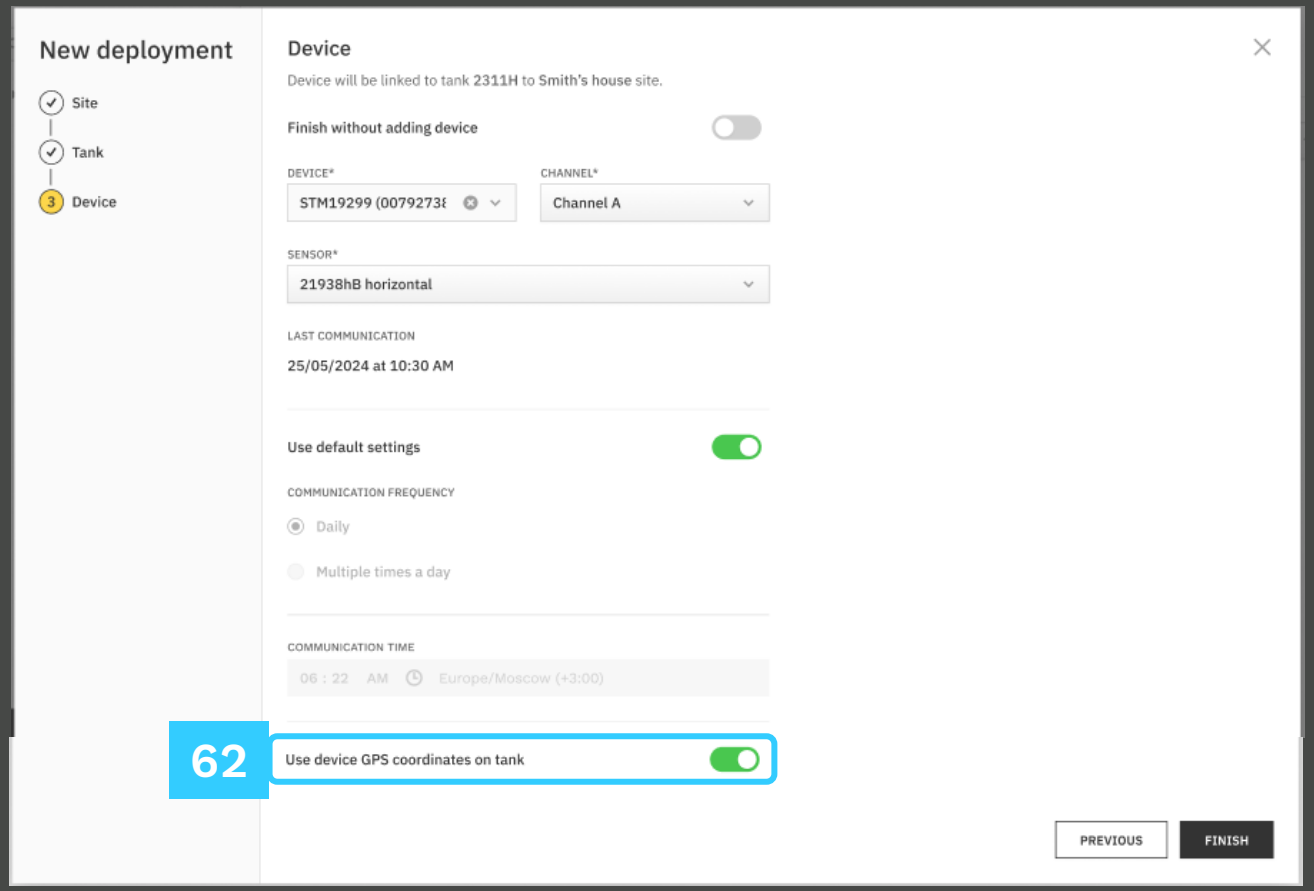
# NEW DEPLOYMENT: USE DEVICE GPS ON TANK

So far, tanks could leverage the site coordinates or have it their own manually input.

Now, they can also rely on the device GPS, if the device is GPS enabled naturally.

**62 -** When creating or editing tanks, in the Device step, a new setting “USE DEVICE GPS COORDINATES ON TANK” is offered. The default comes from the distributor setting. When this option is toggled on, it means the tank coordinates will be updated each time the device reports GPS.

**NOTE:** This option can be adjusted both when creating or editing a tank.



# REPORTS

# REPORTS:
# NEW FILTERS RELATED TO GPS

**63 -** New filters related to GPS have been added to Reports:

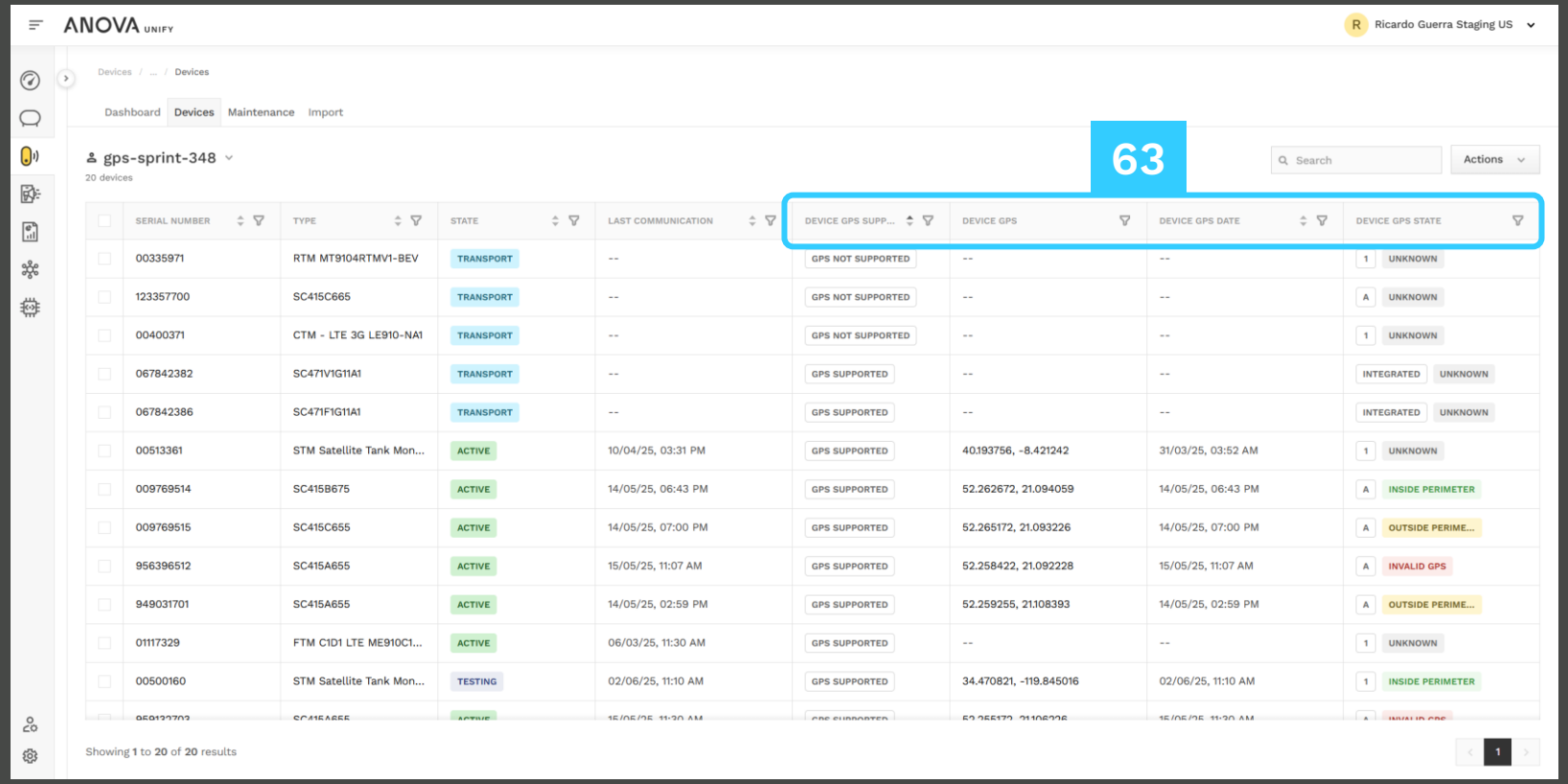
- Device GPS Supported
- Device GPS
- Device GPS Date
- Device GPS State

Users can create reports with these fields and schedule them for a given frequency as usual.

**NOTE:** These new fields are available in both:

- Devices reports
- Operations reports

**WARNING:** The fields “Site Location” and “Tank Location” have been renamed to “Site GPS” and “Tank GPS”.



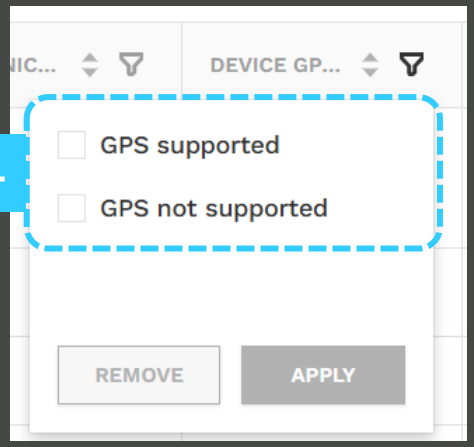
# REPORTS: NEW FILTERS

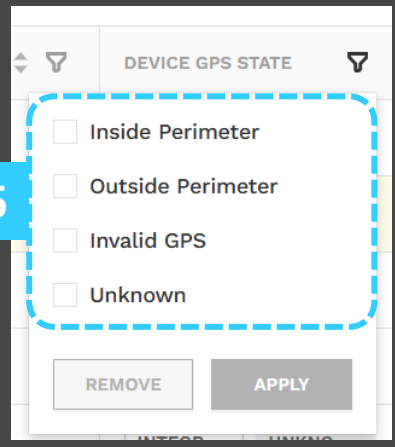
**64 -** DEVICE GPS SUPPORTED: Helpful to understand what devices in the fleet are GPS enabled.

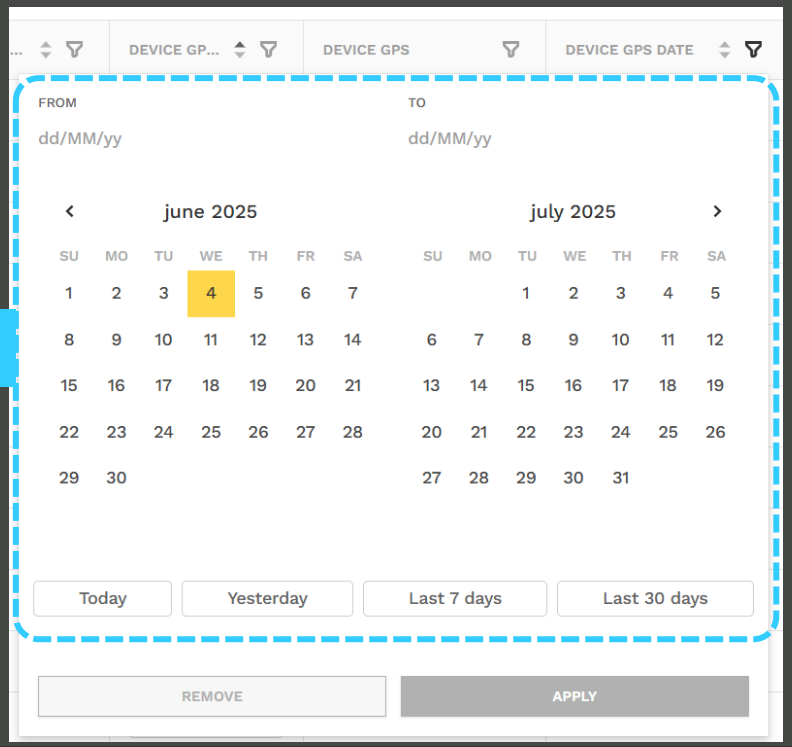
**65 –** DEVICE GPS STATE: helpful to understand the current device GPS state based on last reported location.

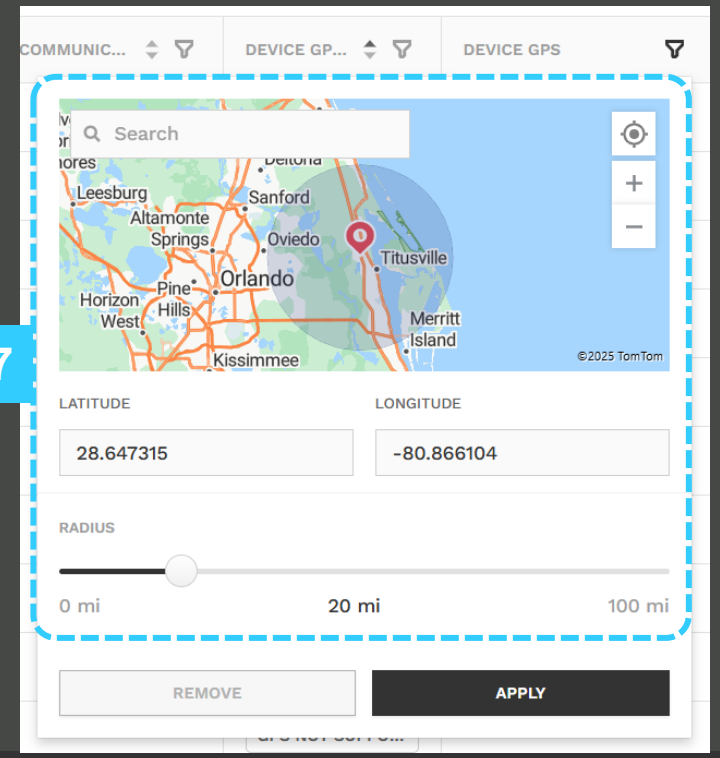
**66 -** Device GPS date: helpful to understand the last time the device reported GPS.

**67 -** DEVICE GPS: The Site GPS, Tank GPS and Device GPS fields offer a way to filter by radius based on a reference point, returning sites, tanks or devices which GPS coordinates fit within the given radius – helpful to quicky filter records by GPS location.



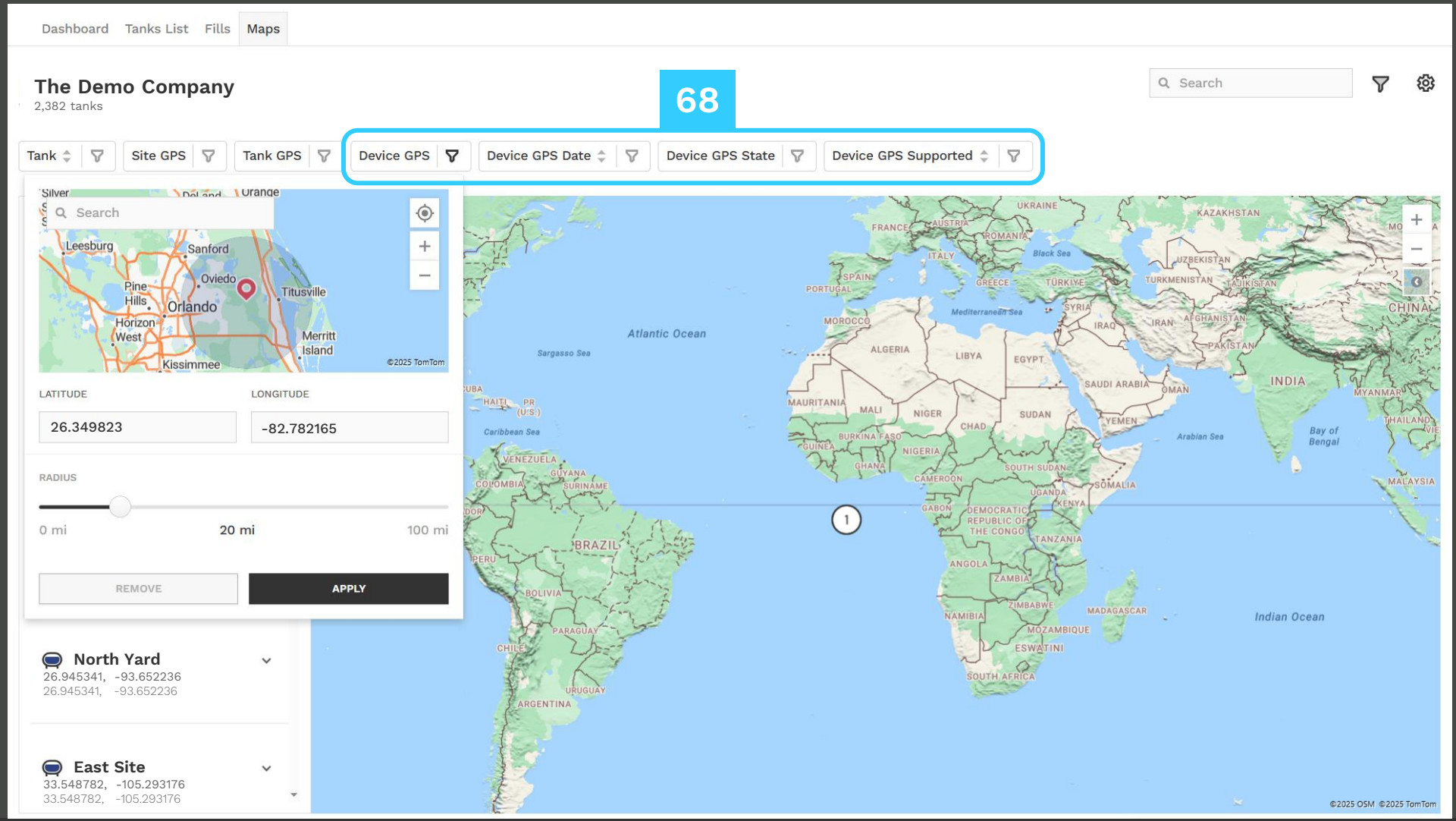



# OPERATIONS MENU: NEW FILTERS

**68 -** These filters/fields are also available on the OPERATIONS Menu on the MAP Page.



# THANK YOU

support@anova.com

ANOVA