

## Guide to the New CTT Web Portal

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# The New CTT User Interface (UI) Website

Welcome to the new CTT Web Portal. Currently this portal is dedicated to display of data from the new Evolution Series 420 (ES-420) GPS/GSM transmitters. As this portal is currently in beta, it is very likely that you will be seeing changes happening rapidly over the coming months. Eventually this portal will provide access to all of your transmitters, and allow a unified user interface for everything from our radio products through GPS/GSM and including Satellite (Iridium and Argos). Until then, non-ES-420 devices are still only accessible from https://accounts.celltracktech.com. We apologize for any inconvenience that this may cause, but we are confident that your user experience will be better than ever once we complete the migration to our new server architecture. As always, if you have any questions please don't hesitate to reach out to us via support@celltracktech.com. Happy tracking!

## Logging in

Well, if you are reading this from the portal, you've already figured it out! Of course, if you haven't yet logged in, you should have received your login credentials in the shipping email sent when your units left our building. This attachment also includes your device IDs. For accessing your ES-420 devices please use the following URL: https://beta.internetofwildlife.com/. Once logged in you will be taken directly to the Projects section. There are two other sections also accessible from the main page: My Devices and My CTT

## My Devices

The My Devices page lists all of your CTT transmitters, regardless of project. You can access the transmitter device panel from the button at the right end of each transmitter row. Use the page and scroll navigation buttons at the bottom right of the My Devices window. Note that if you have multiple projects, it will be easier to navigate through your transmitters using the Projects tab described below. For a full overview of the device panel see the Projects section below as well.

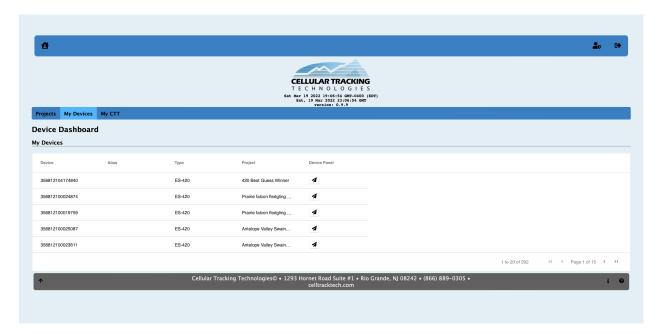


Figure 1: My Devices

## My CTT

The My CTT page is a dashboard where you can find local weather, news from CTT, and important links.

# **Projects**

Once logged in you will immediately see your projects. If more than one, you will have a dropdown menu to choose from. Below the project selector will be the units associated with the selected project. In the Project Dashboard view you can see all of your units fram a single project, all placed on a single map.

To access an individual unit's device panel, just click on the blue button under the unit ID number.

Once you click on an individual unit, a new window will appear with a series of tabs to choose from.

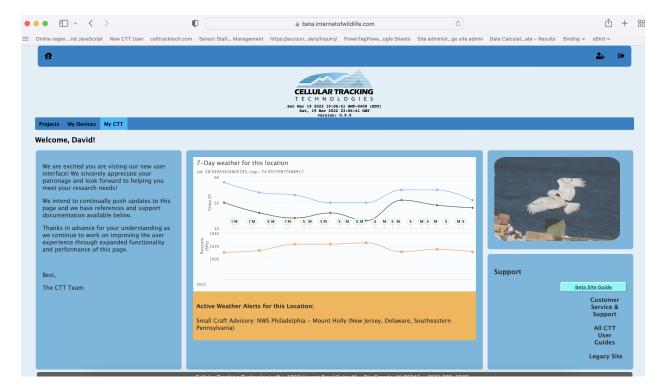


Figure 2: My CTT

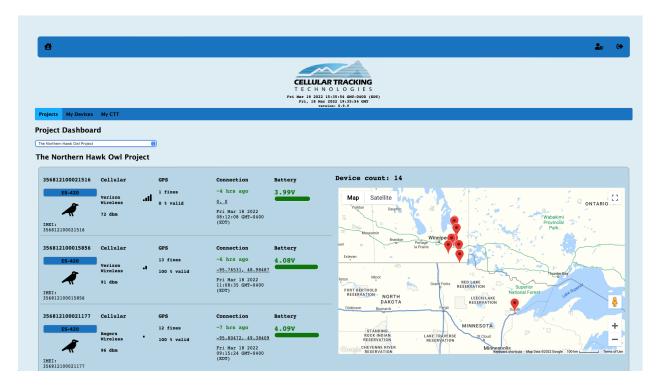


Figure 3: Project Dashboard



Figure 4: Select an individual transmitter to view

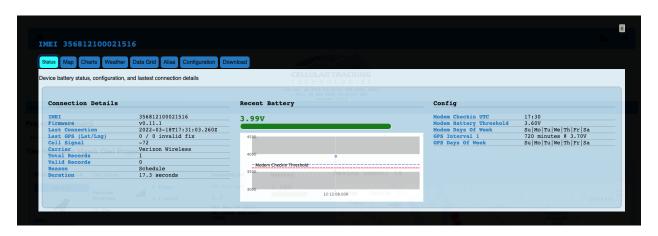


Figure 5: device panel

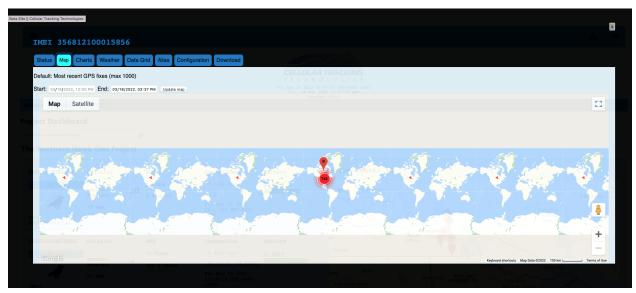
## **Device Panel**

### Status

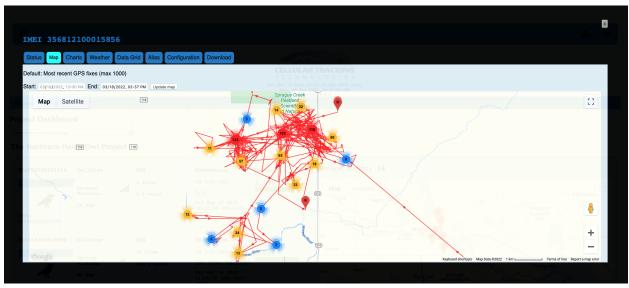
The \*Status tab gives you an overviw of the last connection, battery condition, and the current assigned config From the connection details you can see a few things, including the last GPS fix and the time of that fix, the signal strength of the cellular connection, the cellular carrier, and a summary of any data sent. The Battery Voltage is particularly helpful if you are trying to determine whether a unit was able to send data or not. For instance, most units have a battery cutoff value, below which the GPS will not turn on, and a lower cutoff for the cellular modem For exmaple, a typical unit will have a GPS cutoff at 3.7V, and a cellular cutoff at 3.6V. If a battery drops to 3.68V the GPS will not turn on, but the unit will still attempt to connect via cellular, producing a connection with zero GPS fixes. To protect the unit battery, the unit must recharge at least 0.15V above the cutoff (to 3.85V in this example) before the GPS will be activated again. The battery graph gives you the ability to see how your unit is performing at-a-glance, and explains and gaps in data you might be seeing. For greater detail, though, you'll want to click on the Charts tab.

### Map

The Map tab displays the last 1000 fixes.

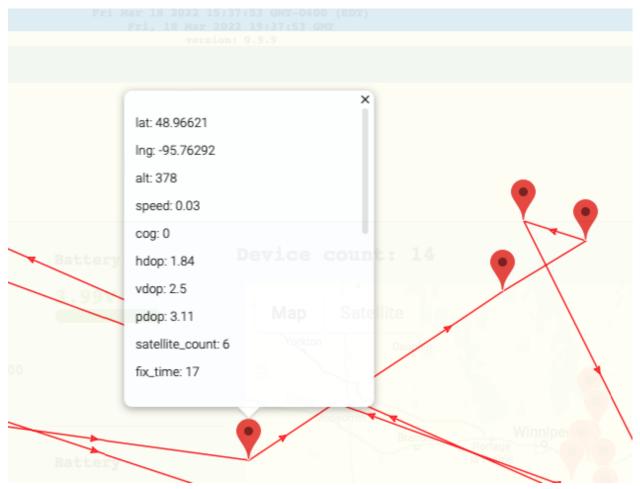


The map starts zoomed out, but you can zoom in by holding down ctrl and scrolling with your mouse or trackpad. Alternatively you can use the + and - buttons on the right side of the map.



As you zoom in you will see more details and the numerical clusters of points will begin to display as individuals connected by lines.

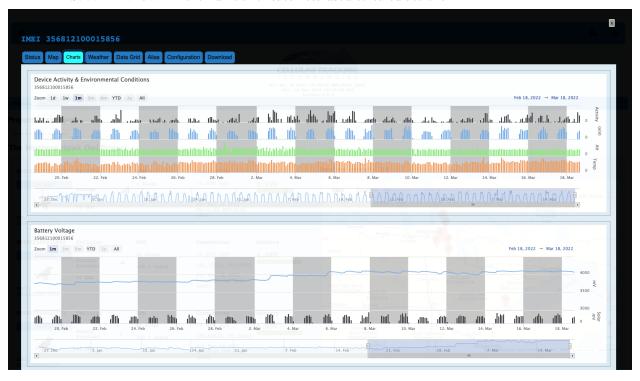
Clicking on an individual point will give you the metadata of that fix.



### Charts

The Charts Tab gives you access to three graphs:

- Device Activity and Environmental Condition
  - Activity Index: a unitless statistic calculated by summarizing triaxial ACC data.
  - Altitude: measured in **meters** above ground level (AGL)
  - Temperature: Temperature of the unit, measured in Celsius
- Battery Voltage
  - Battery Voltage
  - Solar Voltage (energy coming into the solar panel)
  - Solar Current (energy going into the battery)
- GPS
  - Fix Time: the time, in **seconds**, required to collect the fix.
  - Satellite Count: the number of satellites used to calculate the fix.



#### Weather

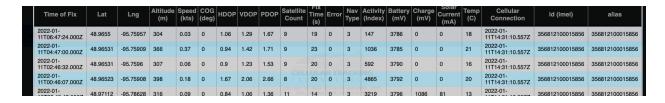
The Weather tab gives you local weather forecast for the last known GPS location of the transmitter. This is a nice way to predict how much solar exposure your tags may receive over the next 48 hours to a week. This can be helpful if you're considering updating your config to conserve battery, or if blue skies are ahead, to increase data collection!



### Data Grid

The Data Grid is where you can view all of your data in a tabular format. The fields are as follows:

- Time of Fix: The date/time stamp of the GPS fix
- Lat: Latitude in decimal degrees (WGS84)
- Lng: Longitude in decimal degrees (WGS84)
- Altitude : Altitude in meters
- Speed : Speed in knots
- COG: Course over ground in degrees
- HDOP: Horizontal dilution of precision (a measure of horizontal variance)
- VDOP: Vertical dilution of precision (a measure of vertical variance)
- PDOP: Position (3D) dilution of precision (for more information on Dilution of Precision, see here
- Satellite Count: The number of available satellites during the GPS fix
- Fix Time: The time, in seconds, needed to get the GPS fix
- Error: A coded value. (0) = No Error...
- Nav Type: The quality of the GPS fix. (3) = 3D, (2) = 2D, and (1) = None
- Activity Index: A unitless summary statistics of activity
- Battery: The battery voltage in mV
- Charge: The voltage being recorded from the solar panel, in mV. Generally, the charge must be > 5V to push current into the battery.
- Solar Current: The current being pushed from the solar panel into the battery, in mA. Generally, the current must be > 10mA to be effectively charging the battery. Note that if a battery is already above the charge threshold, avaiable solar current will not corrospond to an increase in battery voltage.
- Temp: Temperature in Celsius
- Cellular Connection: The date/time stamp of the cellular connection. Note this may be the same for many GPS fixes as they are all transmitted over the single connection.
- id (imei) : The unit ID #
- alias: the user-assigned alias for the device. The default is the id (imei) value unless set by the user.



#### Alias

Here the user can specify an alias name for the transmitter. This is particularly useful for entering unique information about the animal being tagged, and differentiating between deployed and undeployed units.



### Configuration

The Configuration tab provides you will information on the current assigned configuration, as well as a button for the configuration history.

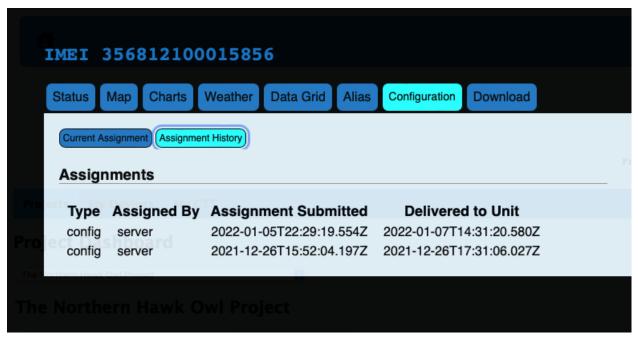
#### Current Assignment

- Modem Checkin UTC: The time (24hr) when the unit is scheduled to send data over the cellular network, in UTC time.
- Modem Battery Threshold: The battery voltage below which the unit will not connect over cellular.
- Modem Days Of Week: The days of the week that the unit is scheduled to send data over cellular (in this case, daily).
- GPS Interval 1: One of three user-defined GPS schedules, made up of the GPS interval (in this case every 120 minutes) and the battery cutoff (in this case, when above 3.70V)
- GPS Interval 2: Two of three user-defined GPS schedules, made up of the GPS interval (in this case every 360 minutes) and the battery cutoff (in this case, when above 3.66V, but below 3.70V)
- GPS Interval 3: Three of three user-defined GPS schedules, made up of the GPS interval (in this case every 720 minutes) and the battery cutoff (in this case, when above 3.60V, but below 3.66V)
- GPS Days Of Week: The days of the week when GPS fixes are scheduled to be taken (in this case, daily).



### **Assignment History**

The Assignment History shows when configs were assigned, who they were assigned by, and when they were delivered to the unit.



### Download

The Download tab allows you to download a date range of your data from a single transmitter, to a CSV file. Be sure to enter both a valid start and end date before pressing the Download Data button.



# Final Thoughts

This User Guide is a living document. Your experiences and input are greatly appreciated so please don't hesitate to reach out to us regarding what you'd like to see included here. You can submit your suggestions and any errors to our Customer Service Desk here and we will work to incorporate them in future revisions. All material © Cellular Tracking Technologies, 2022.