

# User Manual: Application



**TRIMCONTROL<sup>TM</sup>**  
SOLUTIONS

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THE FUTURE OF TELLTALE



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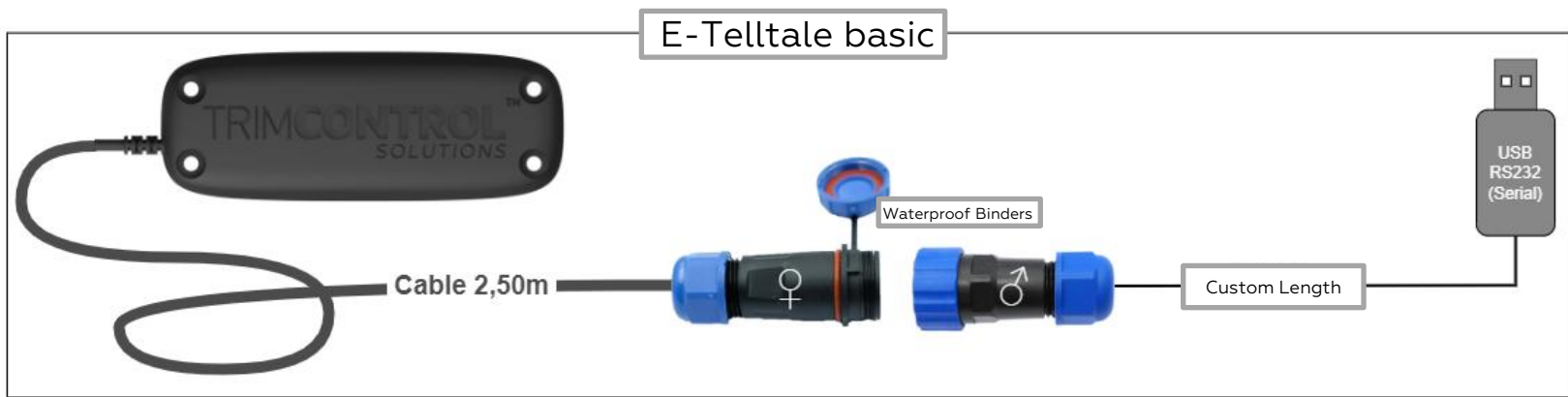
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For the application to recognize the connection, the receiver must be connected via USB to the PC before launching the application.

Note: The application records all user actions and data received from the E-Telltale in a log file. At each operating moment, new data is added without losing the old ones. When the file exceeds 50MB, it is dated and saved in the same folder.


*Path:* "C:\Users\XXX\AppData\Roaming\solutions.trimcontrol.app\logs"





Upon the first launch of the TrimControl application, you will encounter a configuration window. Here, you will enter the name of your boat and the number/type of sails you wish to equip with E-Telltales. It will be possible to activate UDP forwarding to Adrena.

Uninstalling and reinstalling the software does not erase the current configuration.

### Configure your boat

Language selection : 

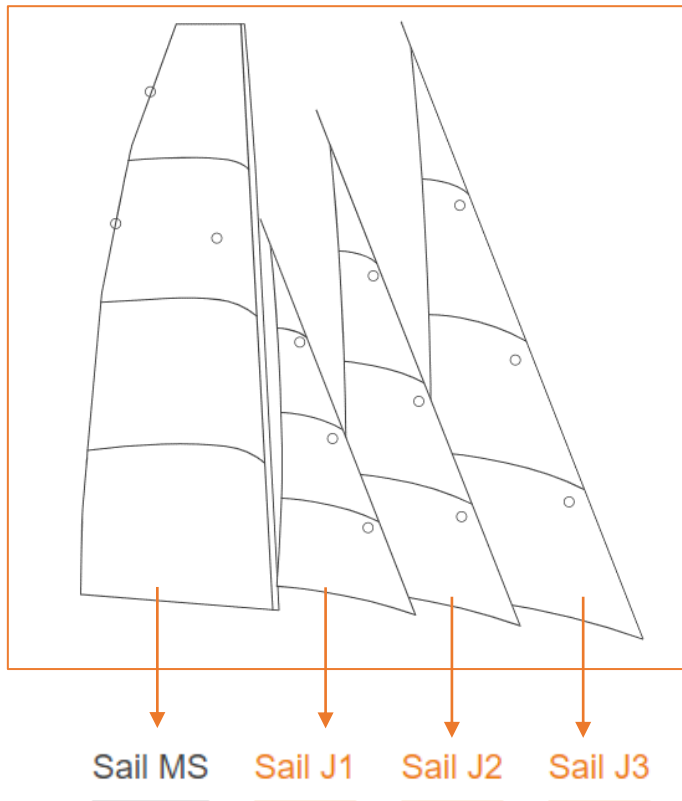
Boat name *	Sails equipped *
TrimControl	4 selected of 4 
	<input checked="" type="checkbox"/> J1
	<input checked="" type="checkbox"/> J2
	<input checked="" type="checkbox"/> J3

Enable UDP for Adrena	Connectivity
<input checked="" type="checkbox"/> Default adress : 127.0.0.1 - Port : 1234	Serial (USB) 

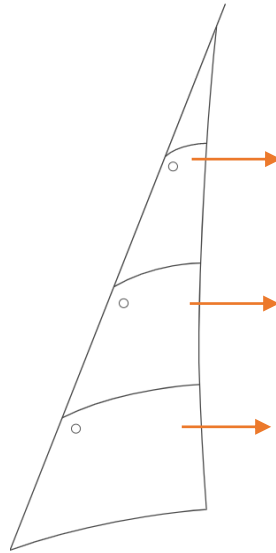
\* : mandatory

Ok

Each E-Telltale can be assigned to a specific location within each sail.



You will be able to access the configuration by exiting the live view.



### Front Sails

Telltale up J1

Portside XX-XX-XX



Starboard XX-XX-XX



Telltale middle J1

Portside XX-XX-XX



Starboard XX-XX-XX



Telltale down J1

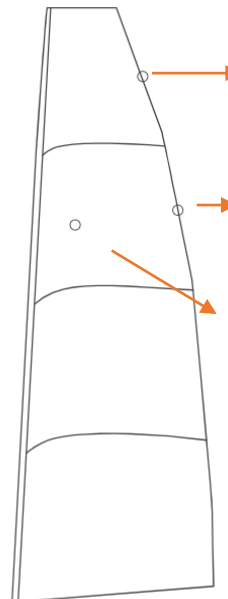
Portside XX-XX-XX



Starboard XX-XX-XX



### Main Sail



Telltale up leech MS

XX-XX-XX



Telltale luff MS

Portside XX-XX-XX



Starboard XX-XX-XX

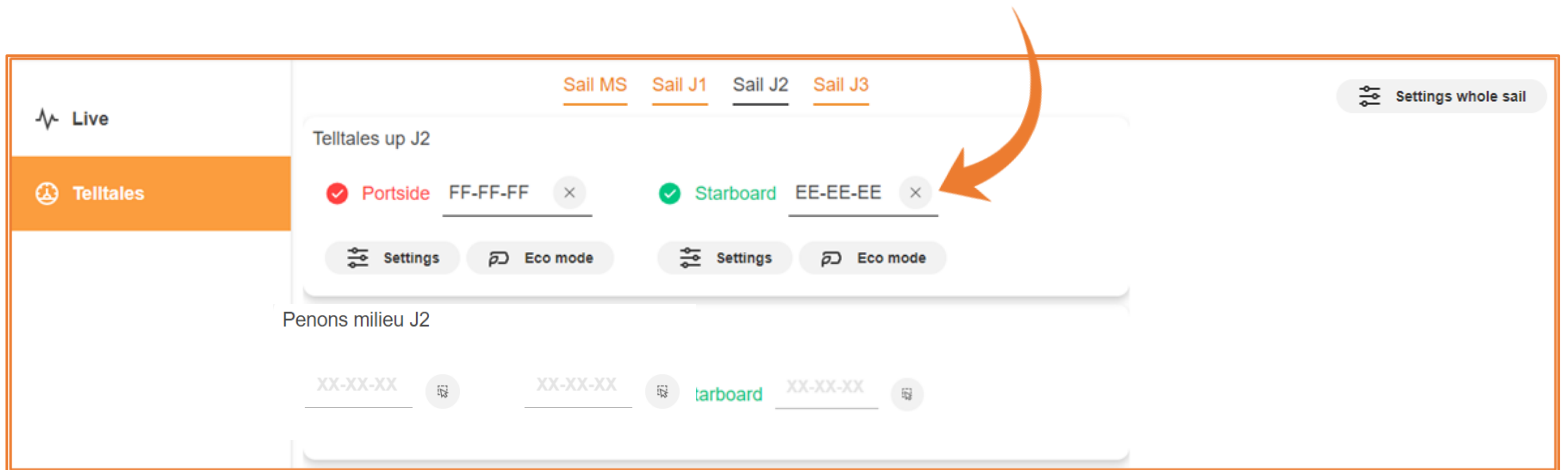


Telltale down leech MS

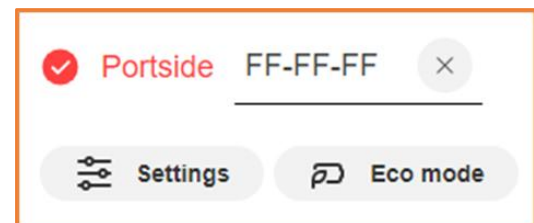
XX-XX-XX



To assign a E-Telltale to a position, click on the icon next to the grayed-out identifier of the sensor.




Enter the identifier of your sensor. Each E-Telltale has a single, unique, non-modifiable identifier consisting of 6 characters. This identifier is written on the back.



Optional settings explained below





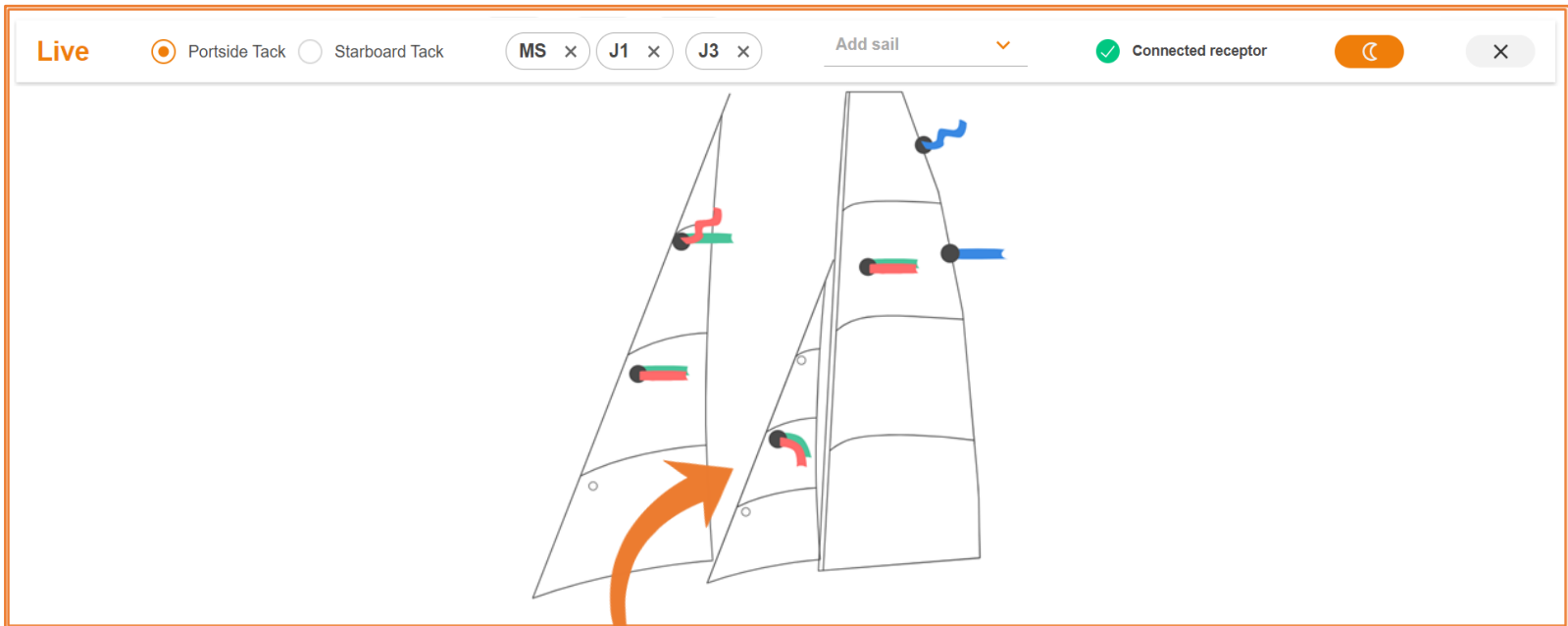
From this moment on, if the sensor is communicating, the configuration is already operational.

You can now sew the E-Telltale onto its adhesive and stick it onto the sail in a similar area to where the Telltales are already present. Remember to clean the area for a better adhesion.

Check off to hide

Choice of tack

Dropdown menu  
to display the  
sails.



Visualization of the state of your Telltales



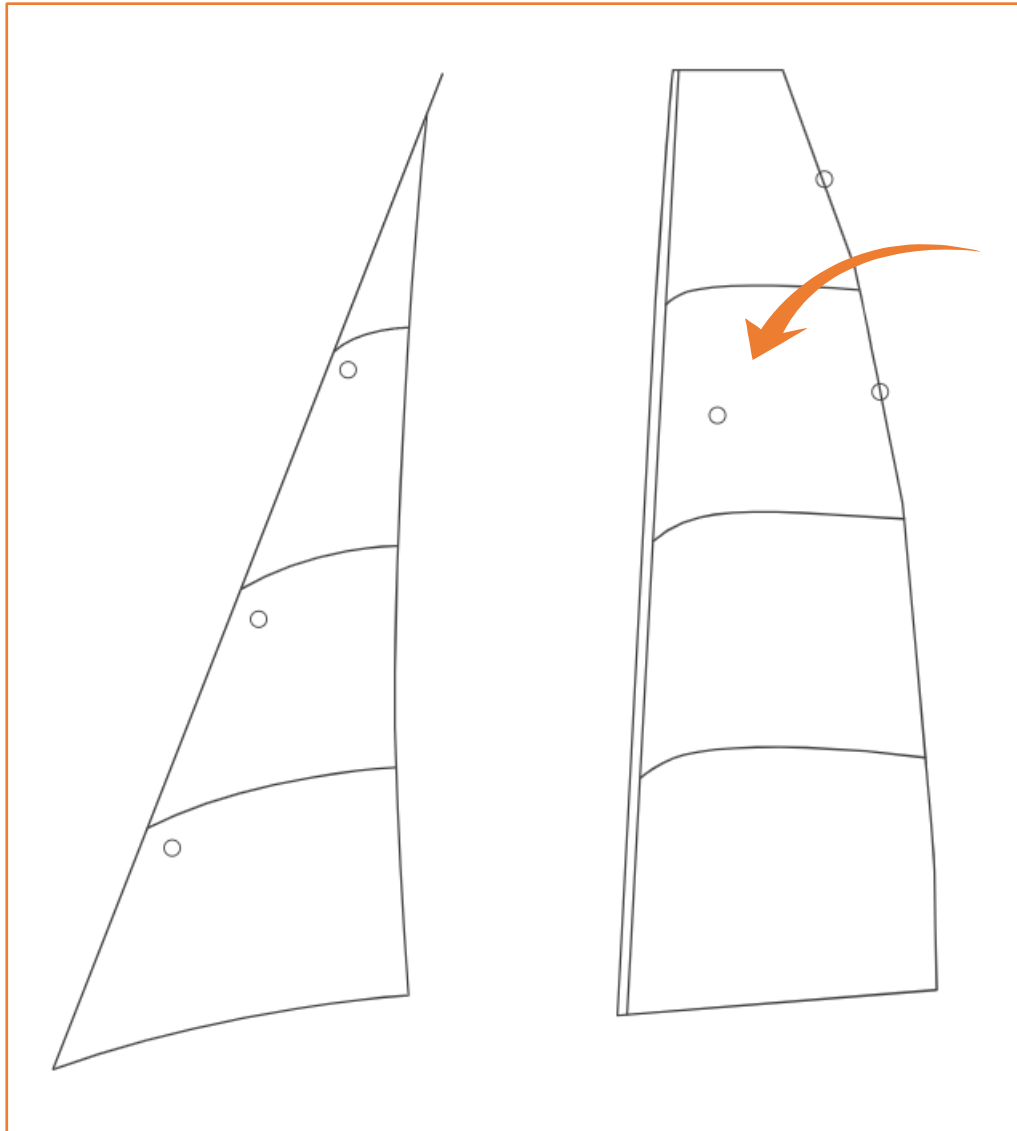
# Display

## Placement in the sail

eTellTale  
Top J1

eTellTale  
Mid J1

eTellTale  
Low J1



eTellTale  
Leech Top MS

eTellTale  
Luff MS

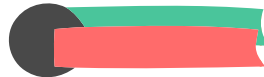
eTellTale  
Leech Low  
MS

Placements are the same for J1, J2 and J3

Maximum of 6 eTellTale per front sail, the App can display up to 22 eTellTale at the same time

The eTellTale is on a nice trimmed part of the sail during the 20 last seconds (according to the default setting)

**LAMINAR**

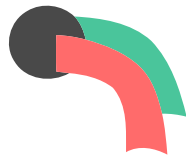


The eTellTale is moving a lot, the sail is not trimmed perfectly



**TURBULENT**

**REST**



The eTellTale is not moving enough to have a defined state

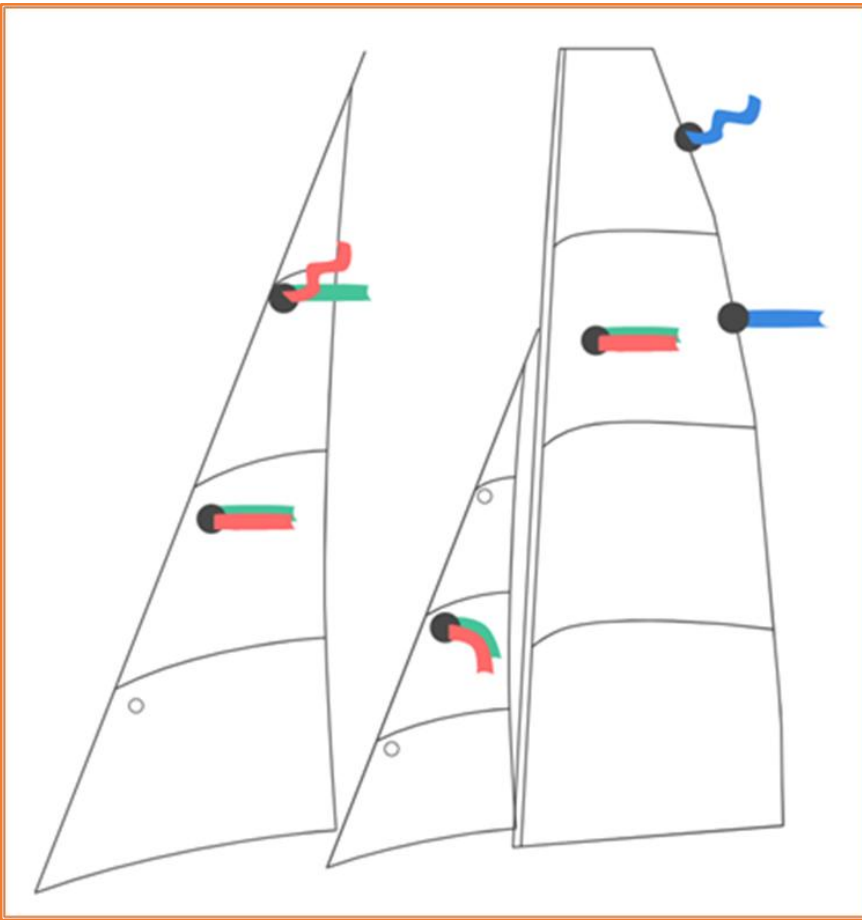


**ENERGY SAVING**



**UNKNOWN**

No signal received by receptor from this eTellTale



MS + J1 + J3 Partially  
equipped

Top intrados of J1 is  
turbulent.  
J3 is furled, so the states  
are on "Rest".

The screenshot shows a settings window for 'Sail J2'. At the top left is a gear icon and the text 'Sail J2'. To the right is an orange button labeled 'Default Settings'. Below this, the 'Number of points (standard deviation)' is set to '20'. Underneath is a 'Thresholds' section with a slider. The slider has two white handles on a blue track, with the left handle at 20 and the right handle at 90. Below the slider, the text reads 'Laminar low threshold : 20 - Laminar high threshold : 90'. At the bottom, there is a warning: 'Warning : those values will be used for all telltales of sail Sail J2'. Two buttons are at the bottom: a red 'Cancel' button and a blue 'Validate' button.

**Standard Deviation** (used to determine the current state):

A higher number will provide a more reliable value, but it will also result in more temporal smoothing.

**Thresholds** : You can modify the upper and lower limits of the E-Telltale laminar state yourself, either per E-Telltale or for an entire sail.

*Example: Your sail is very well adjusted, but the app indicates turbulent?*

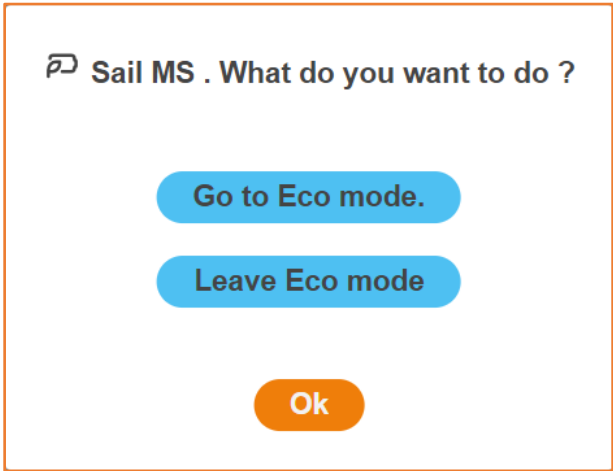
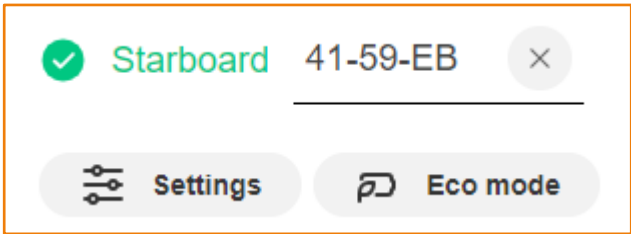
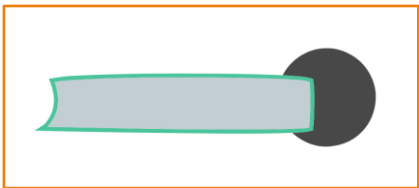
*⇒ Increase the upper limit.*

*You can always return to the original values with the top button.*

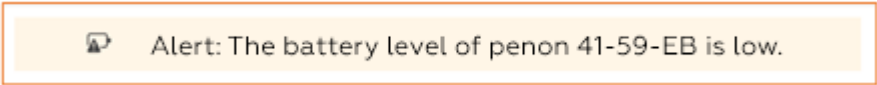


### Power saving mode :

Use this mode to preserve the battery of the device. Especially if it's stored without light.



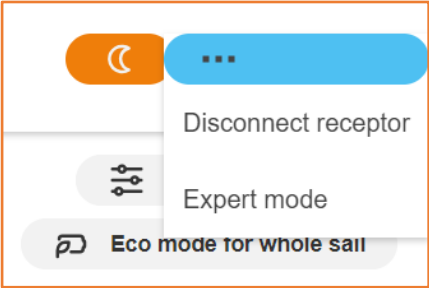
An alert will be displayed if the E-Telltale battery is low. Charging is slow.



# Additional Information

## Reconnect, Communication

It is possible to disconnect or reconnect the receiver from the dropdown menu at the top right corner.



You can observe how your penons communicate with the receiver in the communication tab. The format is the following :

Date Time - \$PENON, frame number, ID, temperature-corrected value, battery voltage, temperature, argument sent, returned argument, raw value \* checksum

Received frame from E-telltale 41-59-D5

Value returned

A screenshot of the TrimControl application interface. The top bar shows 'TRIMCONTROL APPLICATION' and 'Communication'. Below this is a 'Récepteur connecté' status with a green checkmark. The main area displays a list of received frames from E-telltale 41-59-D5. The list is scrollable and shows the following data: 31/03/2023 09:43:54 - \$PENON,053,41-59-D5,+3337,2.803,+16.37,+000,+000,+3337\*3D; 31/03/2023 09:43:54 - \$PENON,032,41-59-D5,+3319,2.759,+16.50,+000,+000,+3319\*3E; 31/03/2023 09:43:54 - \$PENON,119,41-59-F5,+3351,2.757,+16.49,+000,+000,+3351\*3F; 31/03/2023 09:43:54 - \$PENON,054,41-59-D5,+3337,2.803,+16.35,+000,+000,+3337\*38; 31/03/2023 09:43:54 - \$PENON,033,41-59-D5,+3317,2.759,+16.51,+000,+000,+3317\*33; 31/03/2023 09:43:54 - \$PENON,120,41-59-F5,+3352,2.758,+16.47,+000,+000,+3352\*34; 31/03/2023 09:43:54 - \$PENON,055,41-59-D5,+3337,2.802,+16.42,+000,+000,+3337\*38; 31/03/2023 09:43:55 - \$PENON,034,41-59-D5,+3318,2.761,+16.47,+000,+000,+3318\*38; 31/03/2023 09:43:55 - \$PENON,121,41-59-F5,+3350,2.756,+16.46,+000,+000,+3350\*3A; 31/03/2023 09:43:55 - \$PENON,056,41-59-D5,+3337,2.801,+16.43,+000,+000,+3337\*39; 31/03/2023 09:43:55 - \$PENON,035,41-59-D5,+3318,2.760,+16.47,+000,+000,+3318\*38; 31/03/2023 09:43:55 - \$PENON,122,41-59-F5,+3349,2.756,+16.44,+000,+000,+3349\*3B; 31/03/2023 09:43:55 - \$PENON,057,41-59-D5,+3337,2.802,+16.47,+000,+000,+3337\*3F; 31/03/2023 09:43:55 - \$PENON,036,41-59-D5,+3318,2.759,+16.47,+000,+000,+3318\*31; 31/03/2023 09:43:55 - \$PENON,123,41-59-F5,+3350,2.756,+16.42,+000,+000,+3350\*3C; 31/03/2023 09:43:55 - \$PENON,058,41-59-D5,+3343,2.801,+16.39,+000,+000,+3343\*3A; 31/03/2023 09:43:55 - \$PENON,078,F2-85-AA,+0302,3.075,+16.23,+000,+000,+0302\*30; 31/03/2023 09:43:55 - \$PENON,037,41-59-D5,+3324,2.760,+16.51,+000,+000,+3324\*3D; 31/03/2023 09:43:55 - \$PENON,124,41-59-F5,+3350,2.759,+16.42,+000,+000,+3350\*34; 31/03/2023 09:43:55 - \$PENON,059,41-59-D5,+3339,2.803,+16.42,+000,+000,+3339\*35; 31/03/2023 09:43:56 - \$PENON,038,41-59-D5,+3318,2.759,+16.49,+000,+000,+3318\*31; 31/03/2023 09:43:56 - \$PENON,060,41-59-D5,+3359,2.802,+16.35,+000,+000,+3359\*3E; 31/03/2023 09:43:56 - \$PENON,039,41-59-D5,+3317,2.761,+16.48,+000,+000,+3317\*3A; 31/03/2023 09:43:56 - \$PENON,126,41-59-F5,+3350,2.756,+16.44,+000,+000,+3350\*3F; 31/03/2023 09:43:56 - \$PENON,061,41-59-D5,+3338,2.802,+16.43,+000,+000,+3338\*3E; 31/03/2023 09:43:56 - \$PENON,040,41-59-D5,+3319,2.758,+16.43,+000,+000,+3319\*35; 31/03/2023 09:43:56 - \$PENON,127,41-59-F5,+3351,2.760,+16.48,+000,+000,+3351\*37. The interface also includes a 'Défilement auto' checkbox, a 'Commande AT' input field, and an 'Envoyer' button.





# TRIMCONTROL<sup>TM</sup>

## SOLUTIONS

THE FUTURE OF TELLTALE

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