TSR AIR Go Quick Start Guide

Version 4.4
June 2025

10920-04040-APN (Rev. 0)

Contents

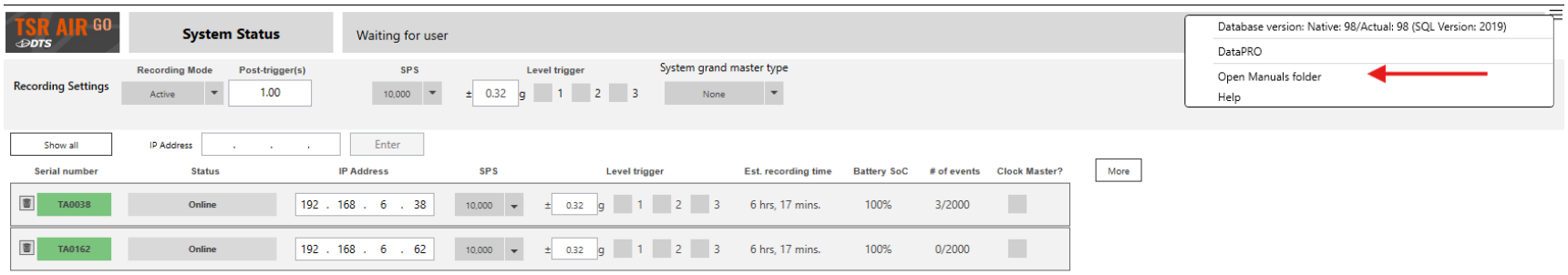
DTS Support

TSR AIR Go is designed to be reliable and simple to operate. If you need assistance, DTS has support engineers worldwide with extensive product knowledge and test experience ready to help. Registered users can access the DTS Help Center web portal at support.dtsweb.com.

Registration also gives you access to additional self-help resources and non-public support information. To register, go to support.dtsweb.com/registration.

Introduction

The TSR AIR Go software package is a simple interface designed to allow you to start using your TSR AIR units as quickly as possible. More information about the TSR AIR hardware can be found on the Help Center in the TSR AIR User's Manual (13000-60401-MAN) or accessed from within the software by clicking on the TSR AIR Go menu icon in the upper-right corner and selecting the *Open Manuals folder*.



Installing

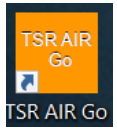
1. **Install** the TSR AIR Go software on a Windows computer by unzipping the software installation package and running **setup.exe**.

By default, the software will be installed at **C:\DTS\DTS.Suite\<version>\DataPRO\DataPRO.exe** and data will be stored in **C:\DTS\DTS.Suite\Data**.

2. Using a TSR AIR Chain Module or other interface and an Ethernet cable less than 10 m, **connect** one or more TSR AIR units to the computer and apply power. (The TSR AIR should be powered from a high-quality power supply.)

Input Voltage	Idle	Ethernet Connected	Armed and Recording
9-30 VDC	<1 W	+0.1 W	<2.5 W

3. **Run** TSR AIR Go using any one of the methods below:

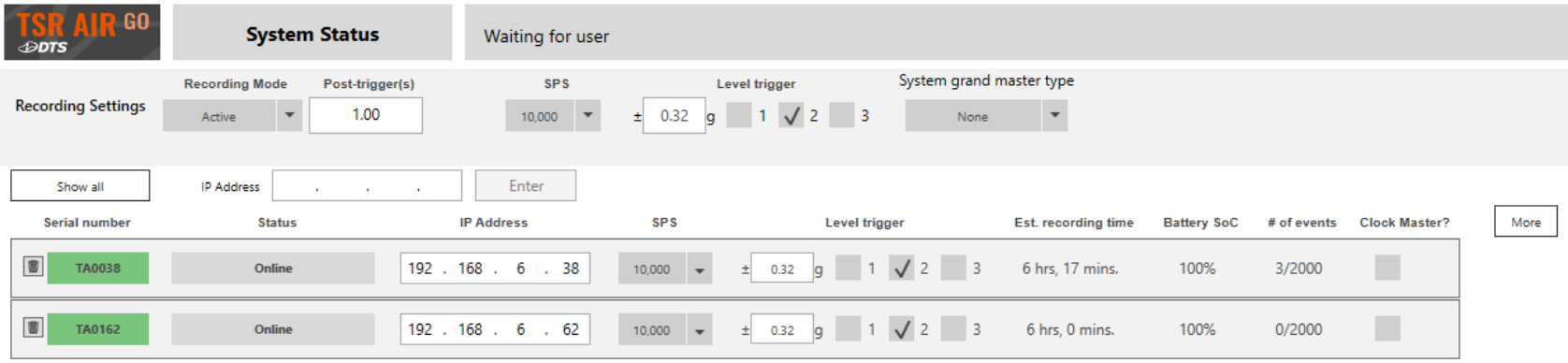
- Double-click on the desktop icon 

, –or–
- Click the Windows *Start* menu, search for TSR AIR Go and select it, –or–

- Double-click on the **C:\DTS\DTS.Suite\<version>\DataPRO.exe** file, –or–
- Right-click on the **C:\DTS\DTS.Suite\<version>\DataPRO.exe** file, then select *Open*.

Connecting

4. The TSR AIR units that are connected will appear in a table on the dashboard that shows the unit's serial number, status and other specifics.

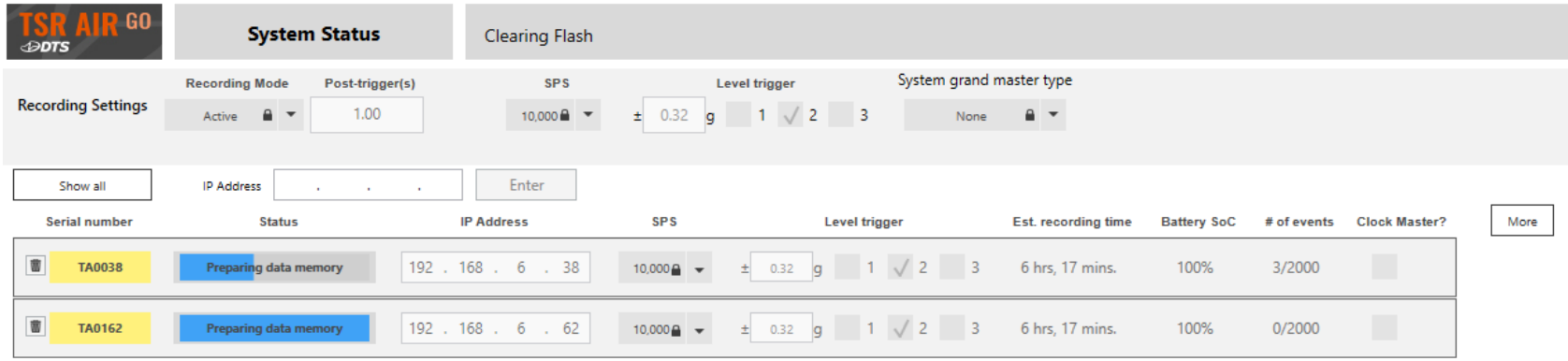


Arming and Collecting Data

There are two modes available for arming and collecting data: **Active** and **Scheduled**. To use **Active** mode, go to step 5. To use **Scheduled** mode, go to step 7.

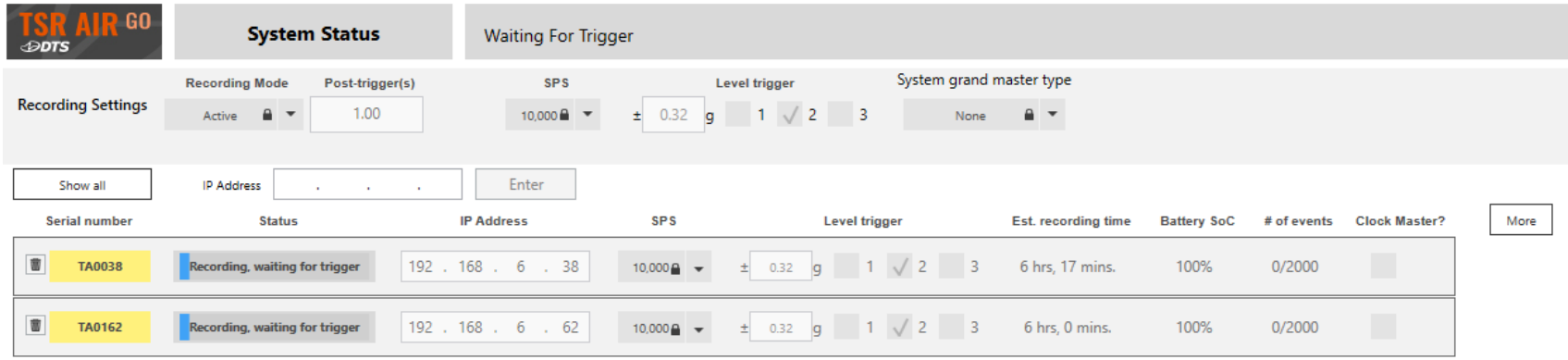
Active Mode

5. To arm the connected units in **Active** mode, set the *Recording Mode*, *Post-trigger(s)* time (in seconds), sample rate (*SPS*), any *Level triggers* and any *System grand master type* (PTP IEEE 1588, IRIG B + 1PPS, IRIG B, or 1PPS), then click the **Arm** button. Setting a control in the *Recording Settings* section will set all units to that value. A unit can be customized by setting a control in that unit's row in the table.



The *System Status* field displays the current state of the arming process. For example, when "**Clearing Flash**", each unit's *Status* field will show the progress of each step prior to being fully armed. In this state, each unit will display, "**Preparing data memory**".

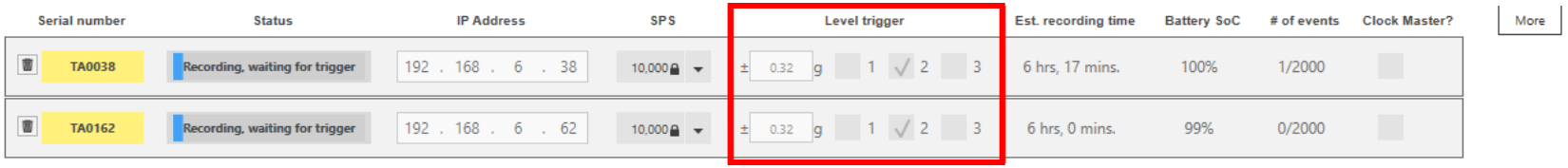
6. When a unit is ready to collect data, the *System Status* field will display, "**Waiting for Trigger**" and the individual unit rows will display, "**Recording, waiting for trigger**".



Whenever an armed unit experiences a trigger, an event is stored in the unit and the unit will re-arm, waiting for another trigger.

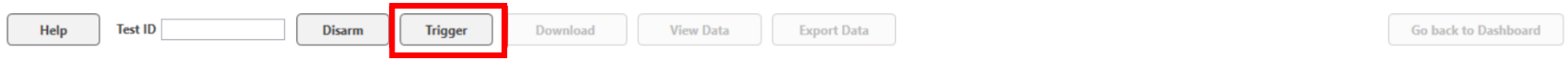
A unit can be triggered by:

1) Experiencing an impact that exceeds the g threshold specified for a **Level Trigger** on that axis, –or–



2) Manually pressing an external Event switch, –or–

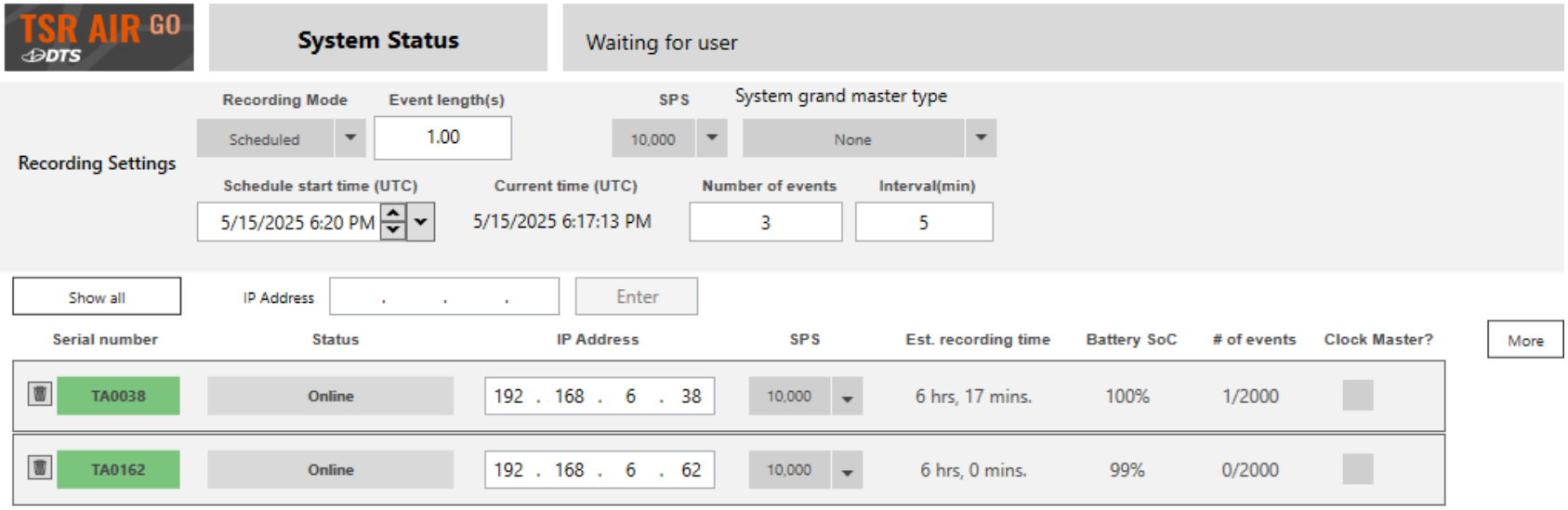
3) Clicking the software Trigger button.



Scheduled Mode

7. To arm the connected units in **Scheduled** mode, set the *Recording Mode*, *Event length(s)* time (in seconds), sample rate (*SPS*), any clock sources (*System grand master type*), *Schedule start time (UTC)*[1], *Number of events* and *Interval (min)*, then click the **Arm** button.

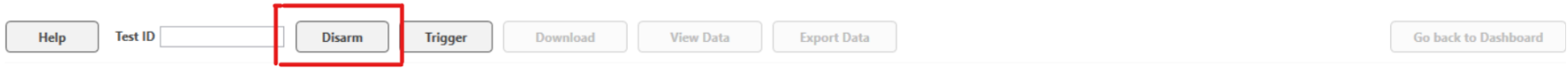
The *Number of events* determines how many events, with the duration specified in *Event length(s)* (in seconds), are collected beginning at the *Schedule start time (UTC)*. The unit(s) will disarm when all events have been recorded.[2]



[1] The *Schedule start time (UTC)* must be at least 2 minutes after the *Current time (UTC)*.
[2] A maximum of 2000 events can be recorded, after which the unit will automatically disarm.

Downloading Data

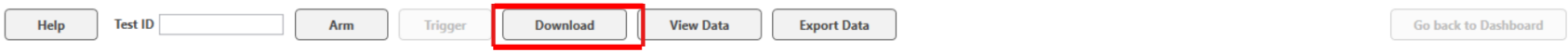
8. To disarm all connected units, click the **Disarm** button:



By default, data is automatically downloaded when all units are disarmed.[3]

The TSR AIR data will be stored in a subfolder **C:\DTS\DTS.Suite\Data\TSRAIR_GO_TEST** that matches the value in the Test ID field when a unit was armed. If the field was left blank, the subfolder is named using the timestamp format "YYYY_MM_DD HH_MM".

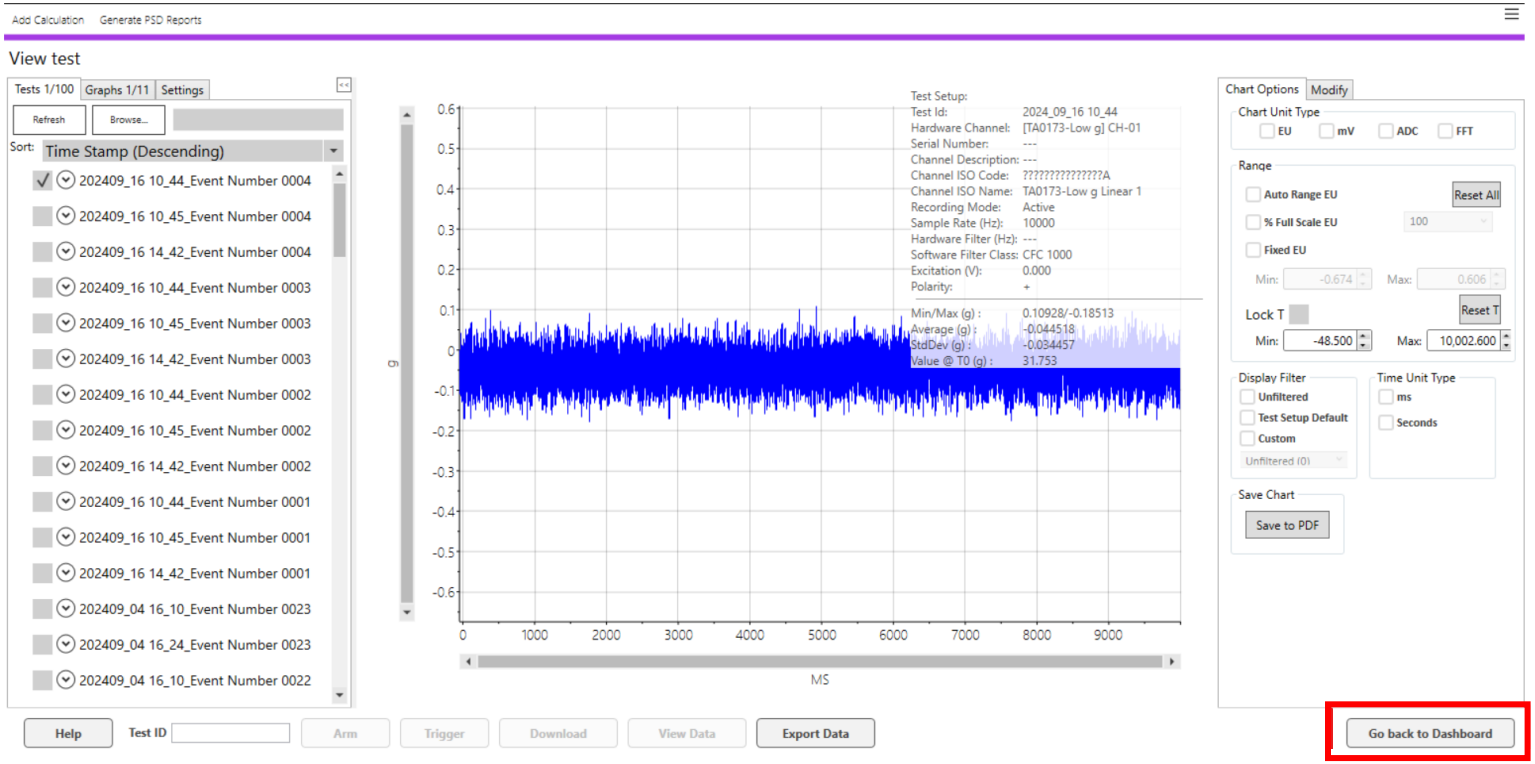
[3] To prevent automatic downloading after units are disarmed, set the *TSRAIRGo_AutomaticallyDownloadAfterDisarm* setting in the DataPRO.exe.config file to False before running TSR AIR Go. To download from all connected units, click on the **Download** button.



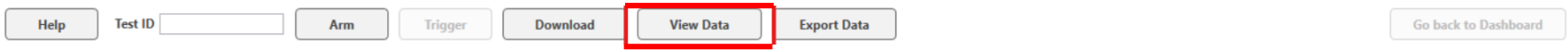
Viewing Data

9. By default, data is automatically viewed after downloading.[4]

The first channel in the sorted list is displayed, but any channel of any test can be selected. Click on the **Go back to Dashboard** button to return to the dashboard.

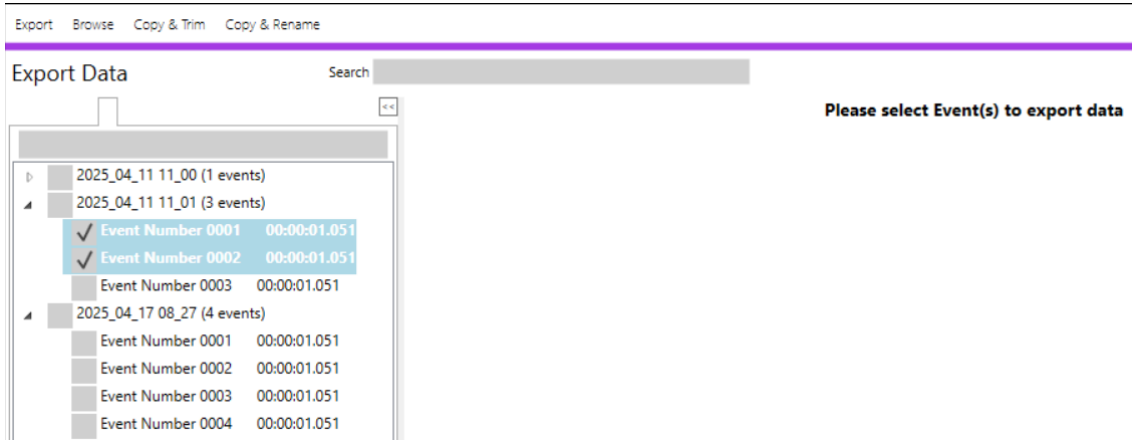


[4] To prevent automatic viewing after data download, set the *TSRAIRGo_AutomaticallyViewAfterDownload* setting in the DataPRO.config.exe file to False before running TSR AIR Go. To view downloaded data, click on the **View Data** button.

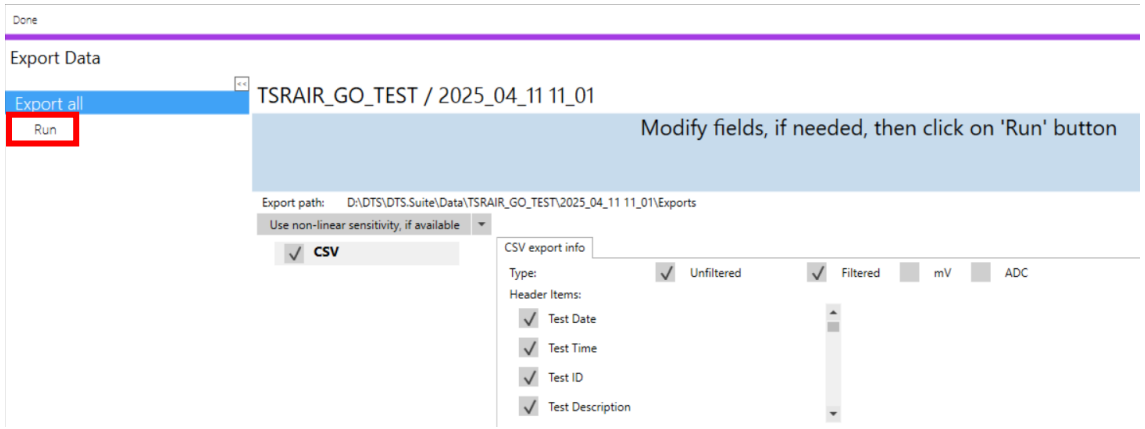


Exporting Data

10. To export data in the CSV format, select the events to be exported. If not all of a test's events are to be exported, tests can be expanded to see event lengths and to select individual events.



11. Click on the **Export** button to display the CSV export options, check the appropriate box(es), then click **Run**.



Revision History

Rev	Date	By	Description
0	15 May 2025	J. Lawrence	Initial release. (Software version 4.4)