

## BEM Guide to MyLaps Timing & Scoring

### *Document version 31 December 2017*

This paper describes the BEM and BemTrain specific configuration for the MyLaps Timing & Scoring software as an alternative to the no longer supported MyLaps DataCollector software. The Timing & Scoring program has the advantage that it is free though in some aspects, not as good as DataCollector for the BEM interface.

To active the Timing & Scoring software you need to contact MyLaps to obtain a partner login and password. [Software download](#)

This paper is not a replacement for the Timing & Scoring User Manual and should be read in conjunction with that document.

Screenshots taken from:

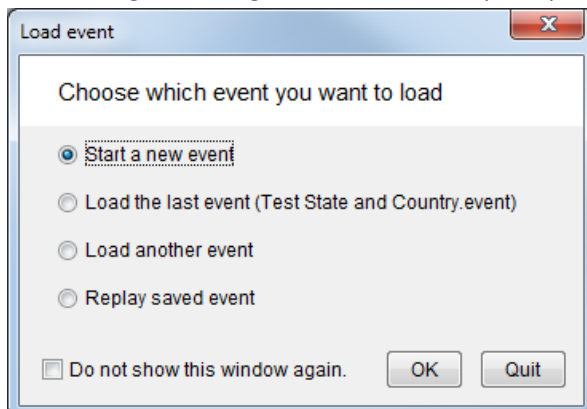
- Timing & Scoring, a mixture from versions 1.2.0 and 2.4.1
- BEM 3.7.0.1

### Initial Setup

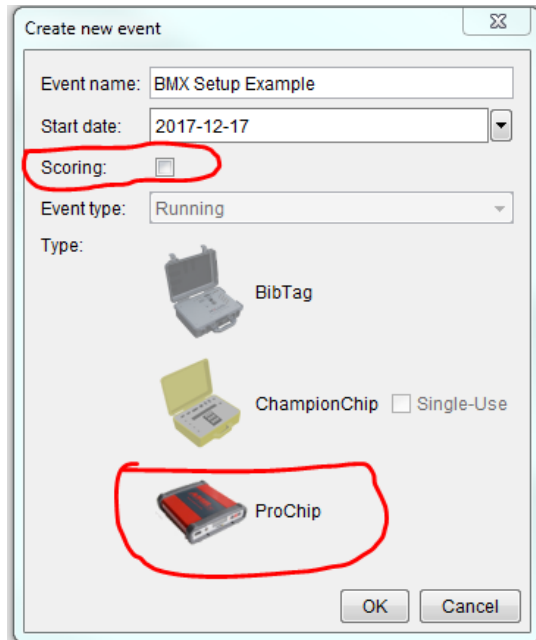
The December 2017 update of this document configures Timing & Scoring to the BemTrain format User Defined File exporter which is backwards compatible for BEM using the earlier BEM DataCollector format and required BemTrain version 3.0.0 or later.

This section details the one off procedures to configure the User Defined File export in Timing & Scoring to replicate that portion of the DataCollector Tab delimited file output that BEM uses so that the DataCollector import into BEM can be used with Timing & Scoring and to set up the most common BMX configuration.

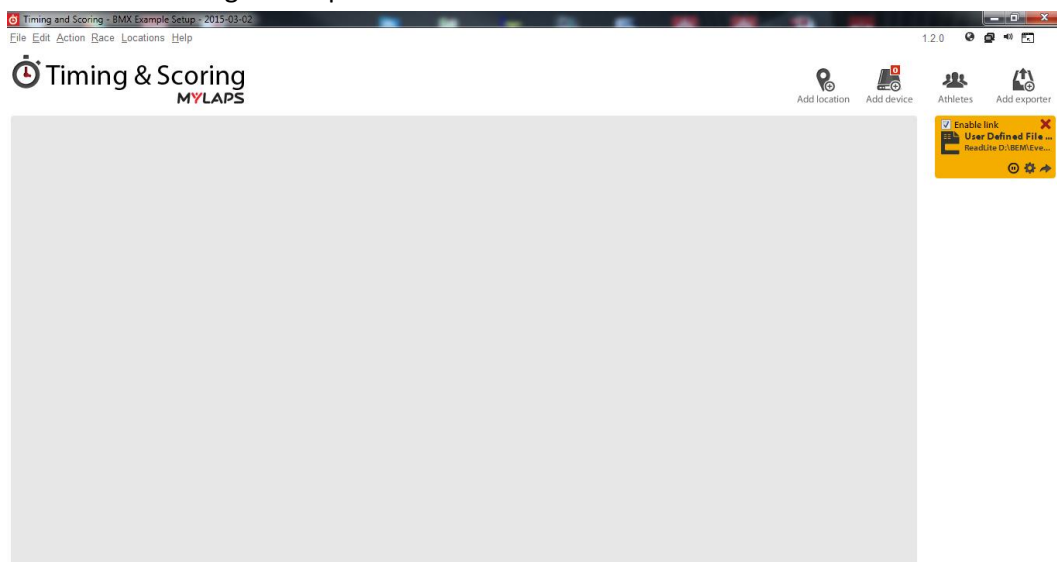
1. Run Timing & Scoring. At the Load Race prompt select **Start a new event** then click **OK**.



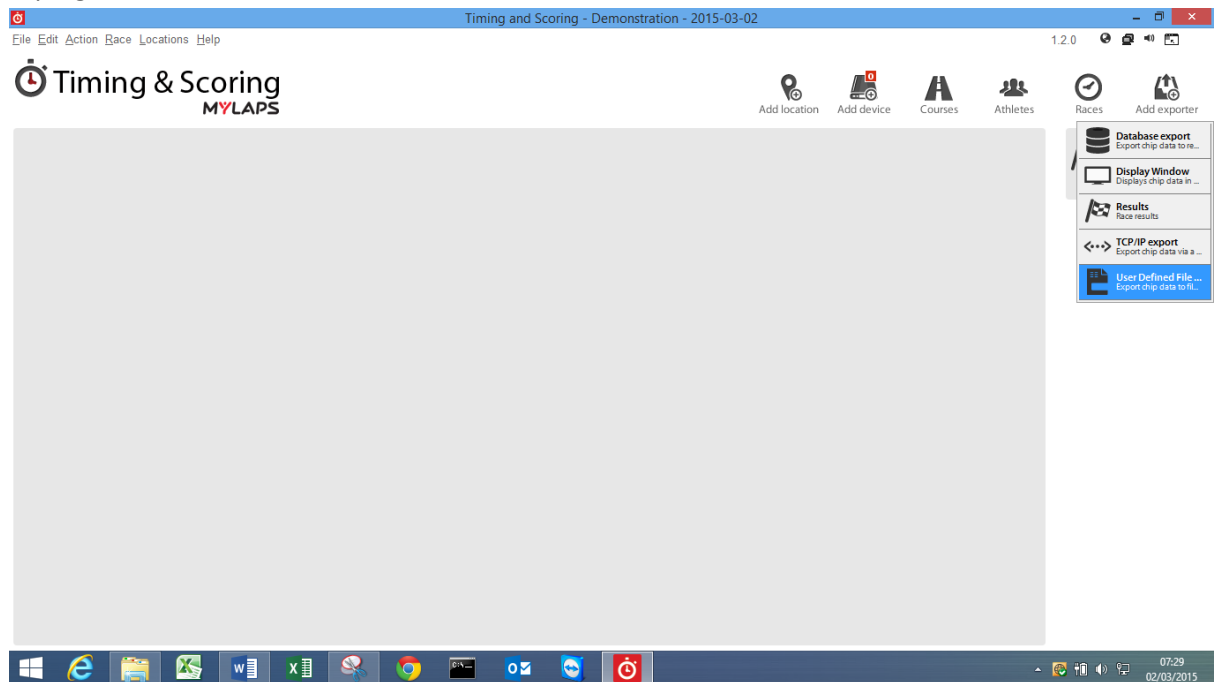
- Note that Event type is not relevant as the Scoring option is not being used.



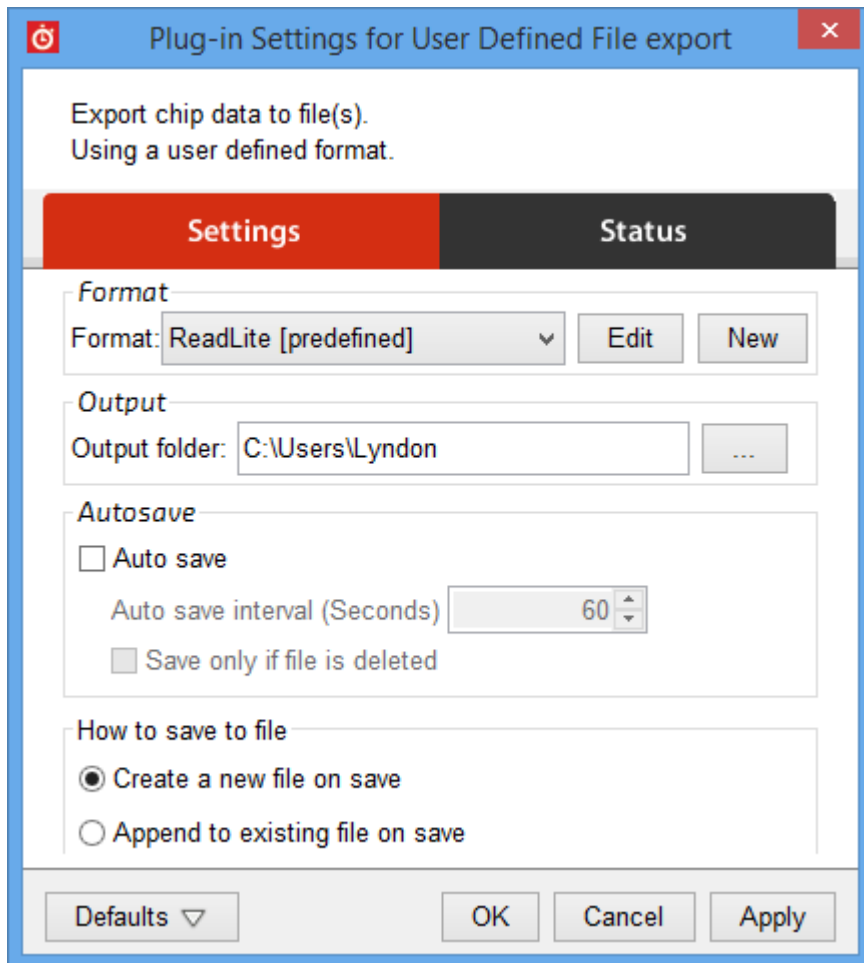
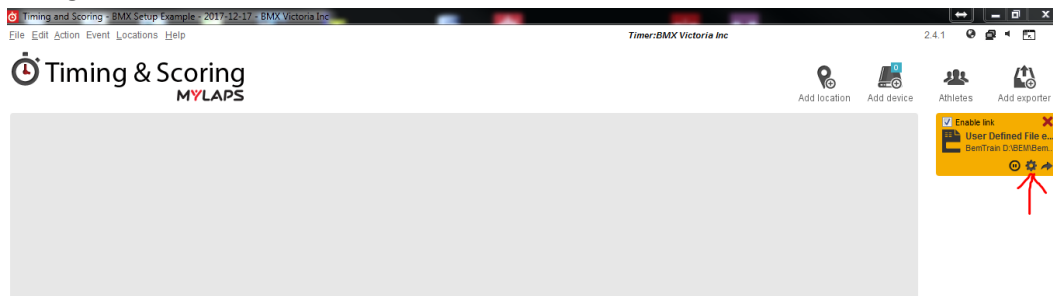
3. If there is a **User Defined File** exporter shown on the right side of the screen as per the screenshot below go to step 5.



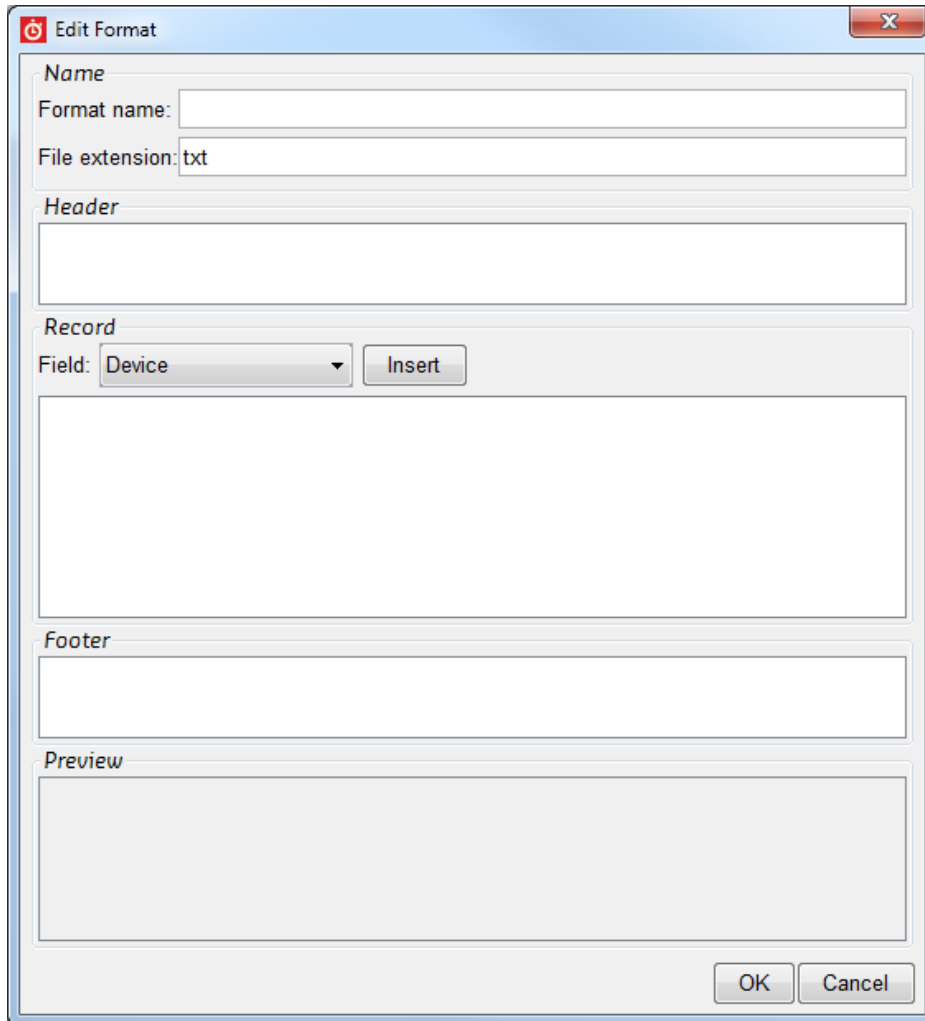
4. Where the User Defined File exporter is not shown, click on the **Add Exporter** icon at the top right of the screen and select **User Defined File**.



5. In the user Defined File exporter, click on the Settings (cog wheel) icon to open the Settings dialog



6. In the Format box, click **New** to bring up a blank Edit Format dialog.



The image shows a software dialog box titled "Edit Format". It contains several sections: "Name" with a "Format name:" text box and a "File extension:" text box containing "txt"; "Header" with a large empty text area; "Record" with a "Field:" dropdown menu set to "Device" and an "Insert" button; "Footer" with a large empty text area; and "Preview" with a large empty text area. At the bottom right are "OK" and "Cancel" buttons.

- a. In the **Format name:** box, enter a name for the new file export.  
Suggest that you use **BemTrain** BEM-DataCollector for the description of what this is used to distinguish the earlier BEM-DataCollector format.  
In the **File extension:** box, leave the default **txt** extension.
- b. Leave the Header and Footer fields blank.

- c. To make it easy to configure the data in the Record box, copy and paste into the Record specification, the required text from the **BemTrain User Defined File Format Setup in Timing and Scoring.txt** file from the BEM Transponder and Lynx Guides download at <http://www.bmxsportswa.com.au/scoring/>

Note the following is an example only, not to be used to copy and paste into Timing & Scoring as the conversion into PDF does not maintain the required formatting.

(:Chip code (with dash):) (:Athlete, Plate:) (:Athlete, First Name:) (:Athlete, Last Name:)  
 (:Athlete, Class:) (:Location:) (:Lap number:) (:Chip date:) (:Chip time:)  
 (:Athlete, Country:) (:Athlete, State:)

After a short delay for the program to process this, the record format will be shown in the Preview box and your form should look something like this:

**Edit Format**

Name  
 Format name: BemTrain  
 File extension: txt

Header  
 [Empty text box]

Record  
 Field: Device [Insert]

(:Chip code (with dash):) (:Athlete, Plate:) (:Athlete, First Name:) (:Athlete, Last Name:)  
 (:Athlete, Class:) (:Location:) (:Lap number:) (:Chip date:)  
 (:Chip time:) (:Athlete, Country:) (:Athlete, State:)

Footer  
 [Empty text box]

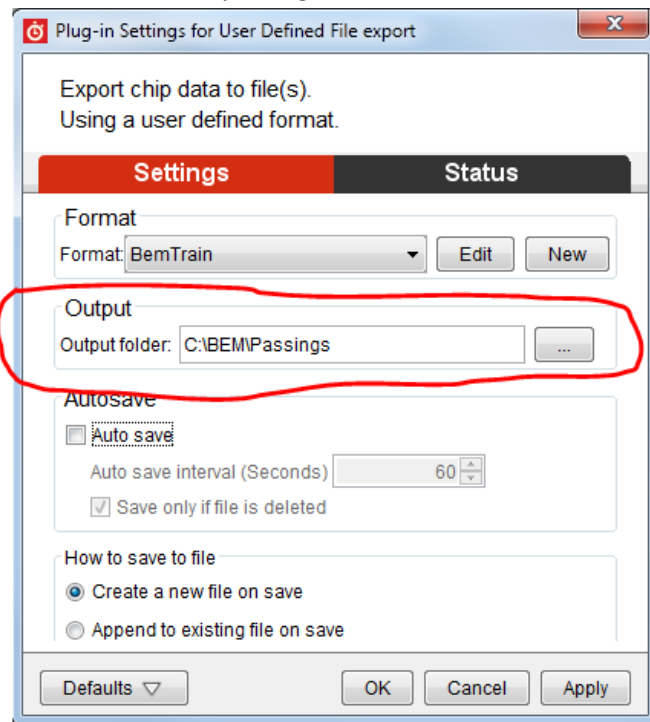
Preview

DR-4YRC9	unknown	unknown	unknown	unknown	unknown	0
2017-12-17 06:49:17.86		unknown	unknown			
DF-9HG2Y	unknown	unknown	unknown	unknown	unknown	0
2017-12-17 06:49:18.07		unknown	unknown			
DR-4YRC9	unknown	unknown	unknown	unknown	unknown	1
2017-12-17 06:49:20.30		unknown	unknown			

OK Cancel

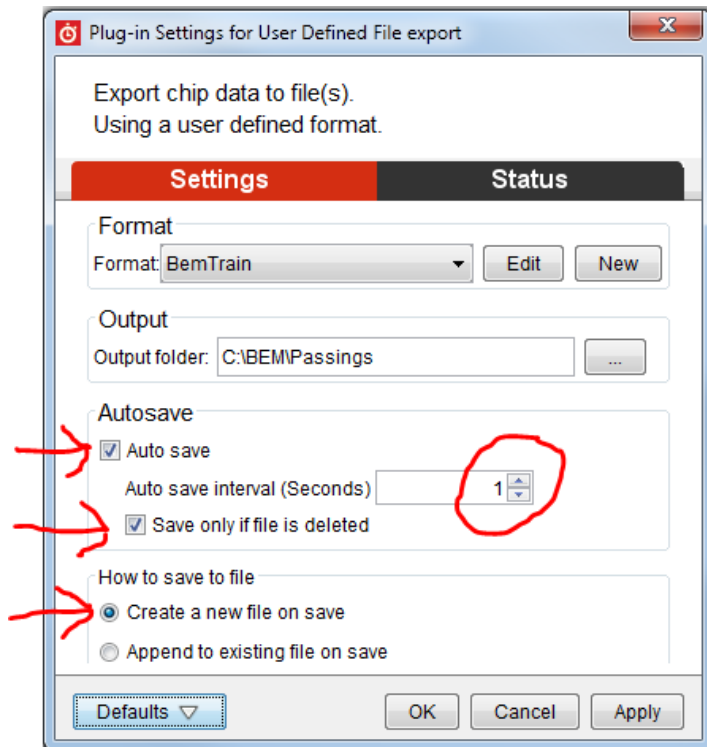
- d. Click OK to save the new User Defined File export.

7. In the Output Folder selection, select a meaningful folder for your use for Timing & Scoring to use to write the passing files.



Click OK to save the new User Defined File export.

8. Make the same **Autosave** and **How to save to file** settings as shown below  
**Auto save** selected.  
**Auto save interval (Seconds)** = 1. Note that this must be set via the edit box as the spinner only allows a 5 second minimum.  
**Save only if the file is deleted** selected.  
**Create a new file on save** selected.



9. Under the **Default** selections, select **Save as user defaults**.
10. Click **Apply** then **OK** to save the setup.
11. Under the File menu select Save Race and save the Race file with a meaningful name in a meaningful location.




## Race Setup

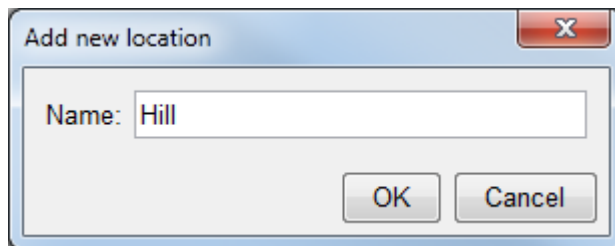
The Race Setup section is a guide to defining timelines and devices for a typical BMX setup with BEM or BemTrain that has decoders for bottom of Hill and Finish line.

1. Add Locations.

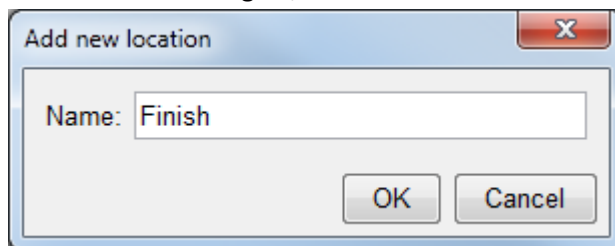
This is where you add the location names of the Timelines.

- a. Click on the Add location icon  .

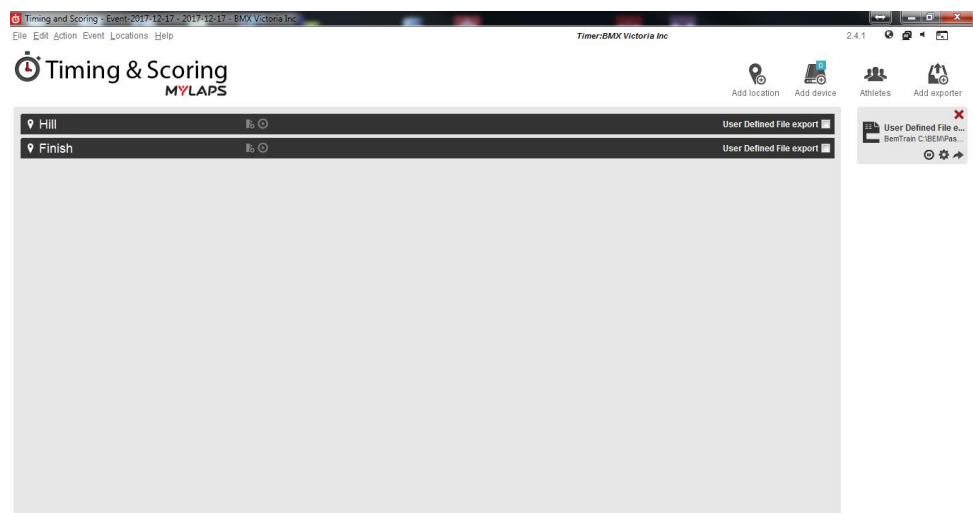
- b. Enter Hill then click OK.



- c. Click Add location again, enter Finish then click OK.



- d. Your screen should now look similar to this screenshot.



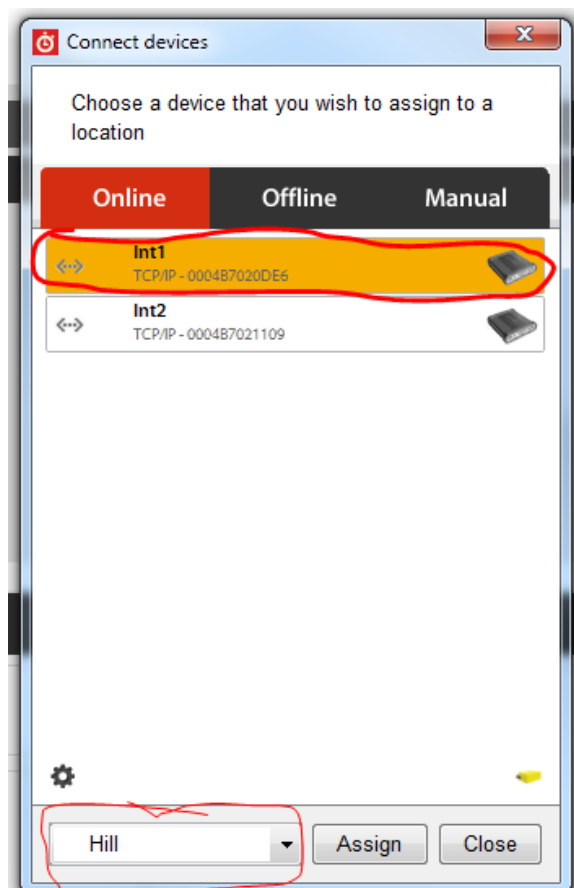
## 2. Add Devices.

This step links a physical decoder to each location and assumes that the decoders are on and connected to the network. Refer to the Timing & Scoring manual for Manual and Offline allocations.

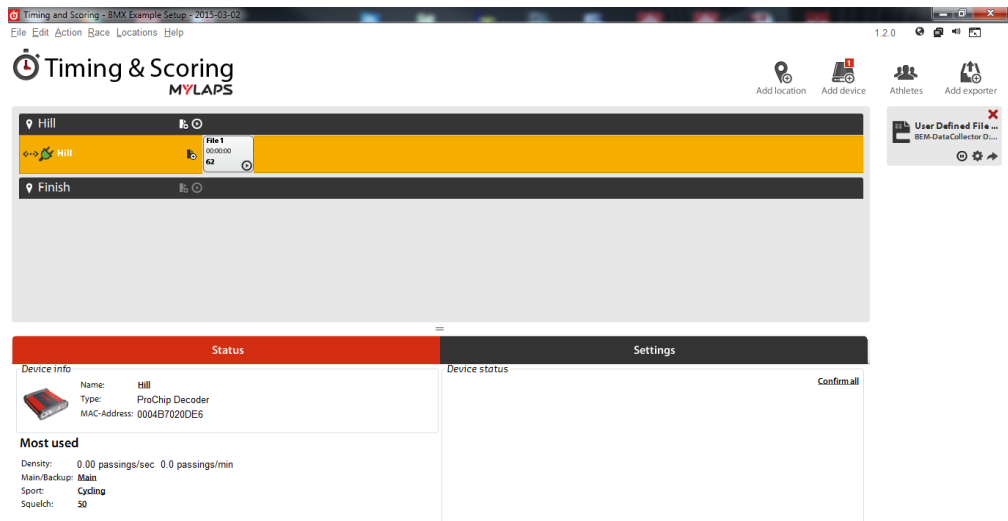


Add device

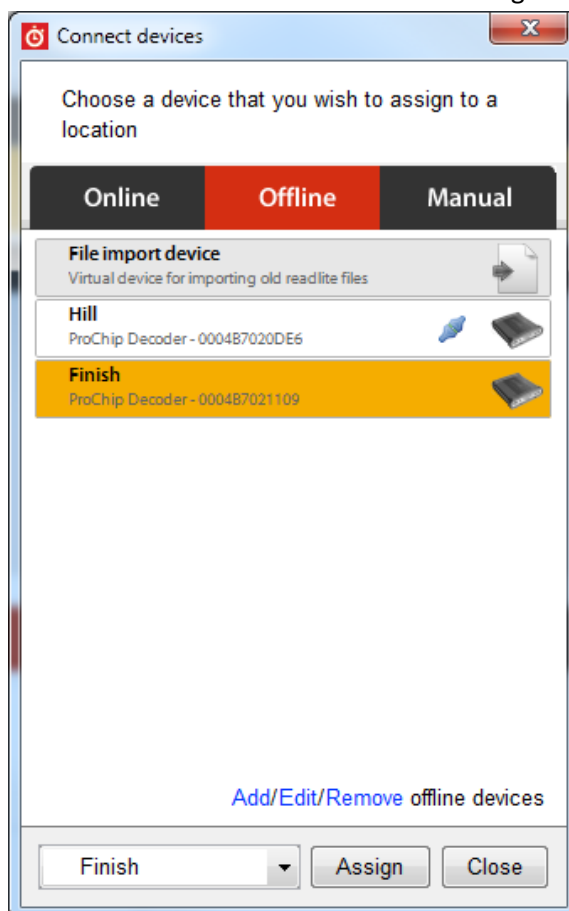
- a. Click on the Add device icon  
Note in this example the 2 in the red background indicating that there are two unassigned devices available.
- b. Select the Decoder to be allocated, Int1 in this example (though you may already have a Decoder configured as Hill)  
Select the Hill timeline at the bottom, and click Assign.



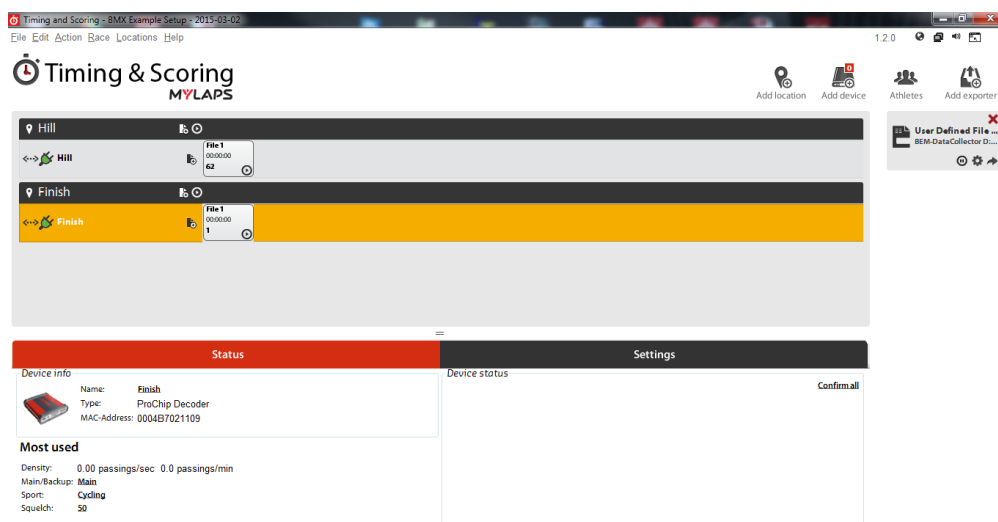
- c. Your main screen should now look similar to this screenshot.



- d. To assign a decoder to the Finish location, click on Add device again then:  
Select the decoder to be assigned to the Finish Location.  
Select Finish as the location then click Assign.



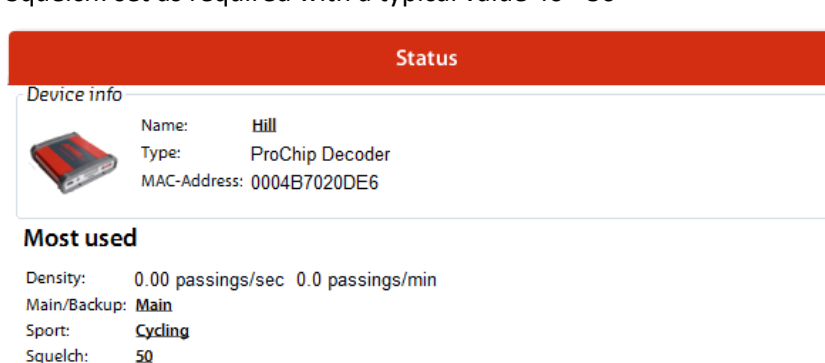
- e. Your main screen should now look similar to this screenshot



- f. Save the Race File.

- g. Notes when adding a device.

- i. A File is opened for each decoder and all passings read from the decoder. In the screenshot in step 2.e above, there were 62 passings read from the Hill decoder and 1 from the Finish decoder.
- ii. Information shown in the Status section for the decoder allows for changes to the decoder settings I.e.  
Main/Backup should always be **Main** for BMX – BEM requirements.  
Sport: should always be **Cycling**.  
Squelch: set as required with a typical value 40 - 50

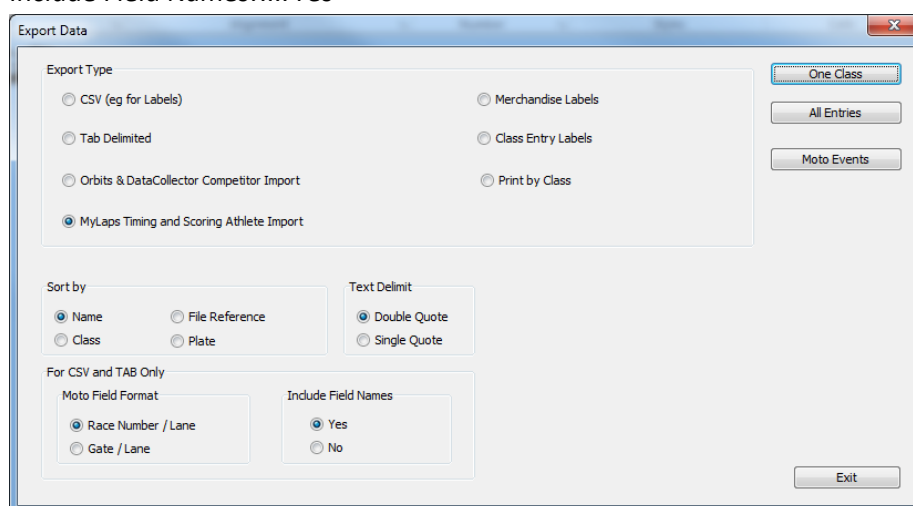


## Importing Athletes (Riders) from a BEM Event.

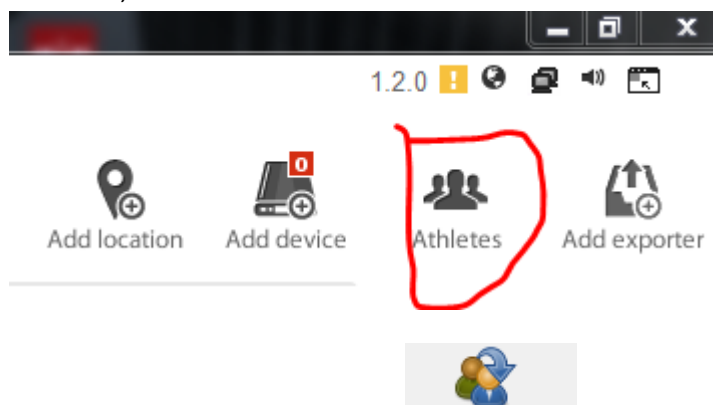
This section describes the process to export riders from a BEM Event and import into Timing & Scoring (Athletes in T&S speak).

Where rider details are not available from a BEM Event file, typically where coaching clinics are being run or for a scoreboard where the event is not being scored with BEM, you can use the **Timing and Scoring Basic Athlete Import.xlsx** file from the BEM Transponder and Lynx Guides download at <http://www.bmxsportswa.com.au/scoring/>

1. In BEM, select Export Data from the Main Menu
2. In the Export Data screen, make the following selections.  
Export Type ..... MyLaps Timing and Scoring Athlete Import  
Sort by: ..... Name  
Text Delimit: ..... Double Quote  
Include Field Names: .... Yes



3. Click All Entries and save the export file with a meaningful name in a meaningful location.
4. In Toolkit, click on Athletes



5. Click on the Import Athletes icon at the top right of the screen.

6. In the Import athlete data screen, select File which will then display the file attributes for selection. Make selections as per the screenshot below:

Column separator: ..... [tab]

Encoding..... UTF-8

Start importing from row..... 1

Use first row as headers..... Selected

The screenshot shows a window titled "Import athlete data". On the left, a teal sidebar contains the heading "Import Athletes" and two instructions: "Select how you want to import your data." (with a database icon) and "Select right CSV, text or Excel file which holds the athlete data." (with a CSV icon). The main area has two radio buttons: "File" (selected) and "Database". Below them is a checkbox for "Auto refresh athletes every minute" and a text input field. To the right of this is a blue "File" button. Further right are three settings: "Column separator:" with a dropdown menu showing "[tab]", "Character encoding set:" with a dropdown menu showing "UTF-8", and "Start importing from row:" with a numeric input field showing "1". Below these is a checked checkbox labeled "Use first row as headers". At the bottom are "Back" and "OK" buttons.

7. Click the file button to select the BEM export file created at step 3 then the Open button to confirm.
8. In the Import athlete data dialog, the OK button will now be enabled. Click OK to import the riders / athletes.

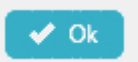

9. The import data structure is now shown as per the screenshot below.

Column name	Example	Is chipcode	Import	Column Type
Tlink	5	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	
License	436004	<input type="radio"/>	<input checked="" type="checkbox"/>	
Plate	4A	<input type="radio"/>	<input checked="" type="checkbox"/>	
Class	16 Girls	<input type="radio"/>	<input checked="" type="checkbox"/>	
Transponder	GG65373	<input type="radio"/>	<input checked="" type="checkbox"/>	
Label		<input type="radio"/>	<input type="checkbox"/>	
First Name	Gillian	<input type="radio"/>	<input checked="" type="checkbox"/>	
Last Name	ANDERSON-FOX	<input type="radio"/>	<input checked="" type="checkbox"/>	
Sponsor		<input type="radio"/>	<input type="checkbox"/>	
Country	AUS	<input type="radio"/>	<input checked="" type="checkbox"/>	
State	NSW	<input type="radio"/>	<input checked="" type="checkbox"/>	
Group	Lake Macquarie ...	<input type="radio"/>	<input checked="" type="checkbox"/>	

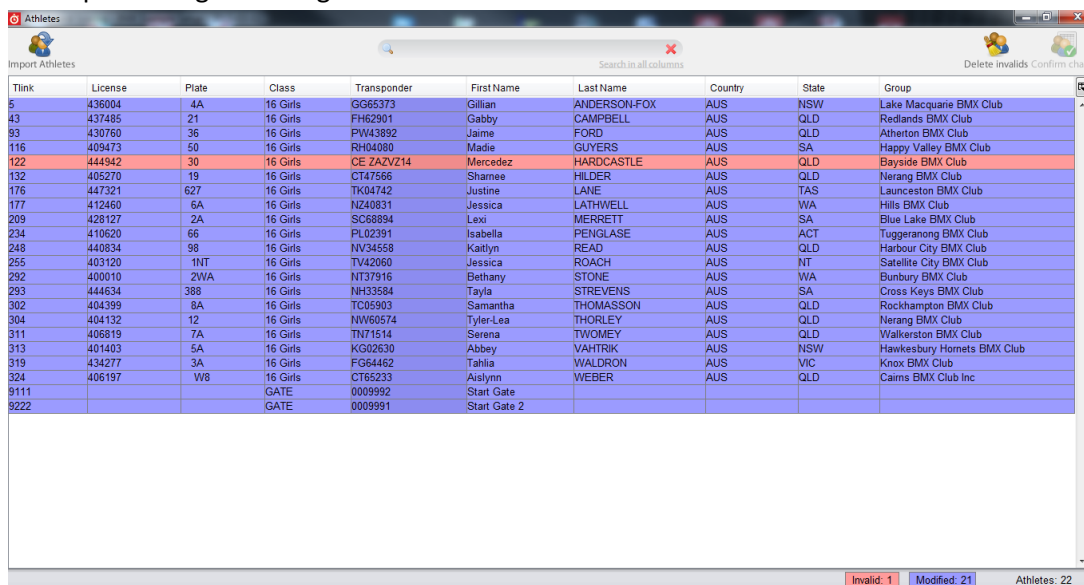
10. Select the Transponder row for the **Is chipcode** selection.

Column name	Example	Is chipcode	Import	Column Type
Tlink	5	<input type="radio"/>	<input checked="" type="checkbox"/>	
License	436004	<input type="radio"/>	<input checked="" type="checkbox"/>	
Plate	4A	<input type="radio"/>	<input checked="" type="checkbox"/>	
Class	16 Girls	<input type="radio"/>	<input checked="" type="checkbox"/>	
Transponder	GG65373	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	
Label		<input type="radio"/>	<input type="checkbox"/>	
First Name	Gillian	<input type="radio"/>	<input checked="" type="checkbox"/>	
Last Name	ANDERSON-FOX	<input type="radio"/>	<input checked="" type="checkbox"/>	
Sponsor		<input type="radio"/>	<input type="checkbox"/>	
Country	AUS	<input type="radio"/>	<input checked="" type="checkbox"/>	
State	NSW	<input type="radio"/>	<input checked="" type="checkbox"/>	
Group	Lake Macquarie ...	<input type="radio"/>	<input checked="" type="checkbox"/>	

Note that Column Type settings are not required as they are only used when the Scoring functionality in Timing & Scoring is being used.

11. Click  to read the file data and then  after a visual sanity check.

12. In the Athletes window, any entry that Timing & Scoring believes is invalid will be highlighted with a pink background. E.g.



Tlink	License	Plate	Class	Transponder	First Name	Last Name	Country	State	Group
5	436004	4A	16 Girls	GG65373	Gillian	ANDERSON-FOX	AUS	NSW	Lake Macquarie BMX Club
43	437485	21	16 Girls	FH62901	Gabby	CAMPBELL	AUS	QLD	Redlands BMX Club
93	430760	36	16 Girls	PW43892	Jaime	FORD	AUS	QLD	Atherton BMX Club
116	409473	50	16 Girls	RH04080	Madie	GUYERS	AUS	SA	Happy Valley BMX Club
122	444942	30	16 Girls	CE ZAZVZ14	Mercedeze	HARDCASTLE	AUS	QLD	Bayside BMX Club
132	405270	19	16 Girls	CT47566	Shanee	HILDER	AUS	QLD	Nerang BMX Club
176	447321	627	16 Girls	TK04742	Justine	LANE	AUS	TAS	Launceston BMX Club
177	412460	6A	16 Girls	NZ40831	Jessica	LATHWELL	AUS	WA	Hills BMX Club
209	428127	2A	16 Girls	SC58894	Lexi	MERRETT	AUS	SA	Blue Lake BMX Club
234	410620	66	16 Girls	PL02391	Isabella	PENGLASE	AUS	ACT	Tuggeranong BMX Club
248	440834	98	16 Girls	NV34558	Kaitlyn	READ	AUS	QLD	Harbour City BMX Club
255	403120	1NT	16 Girls	TV42060	Jessica	ROACH	AUS	NT	Satellite City BMX Club
292	400010	2WA	16 Girls	NT37916	Bethany	STONE	AUS	WA	Bunbury BMX Club
293	444634	388	16 Girls	NH33584	Tayla	STREVEN	AUS	SA	Cross Keys BMX Club
302	404399	8A	16 Girls	TC05903	Samantha	THOMASSON	AUS	QLD	Rockhampton BMX Club
304	404132	12	16 Girls	NW60574	Tyler-Lea	THORLEY	AUS	QLD	Nerang BMX Club
311	406819	7A	16 Girls	TN71514	Serena	TWOMEY	AUS	QLD	Walkerston BMX Club
313	401403	5A	16 Girls	KG02630	Abbey	VAHTRIK	AUS	NSW	Hawkesbury Hornets BMX Club
319	434277	3A	16 Girls	FG64462	Tahlia	WALDRON	AUS	VIC	Knox BMX Club
324	406197	W8	16 Girls	CT65233	Aislynn	WEBER	AUS	QLD	Cairns BMX Club Inc
9111			GATE	0009992	Start Gate				
9222			GATE	0009991	Start Gate 2				

Invalid: 1 Modified: 21 Athletes: 22

#### Notes:

- You can edit any athlete data by double clicking on the field.
- All "invalid" data must be corrected or deleted with the "Delete Invalids" icon before competitor details are displayed in the Display Window.
- A rider entered for two (or more) classes with the same transponder or two riders sharing a bike with the same transponder are treated as invalid entries by Timing & Scoring.
- After making changes, click on the Confirm Changes icon.



## Export

There are a few differences between DataCollector and Timing & Scoring with regards to the export of passings.

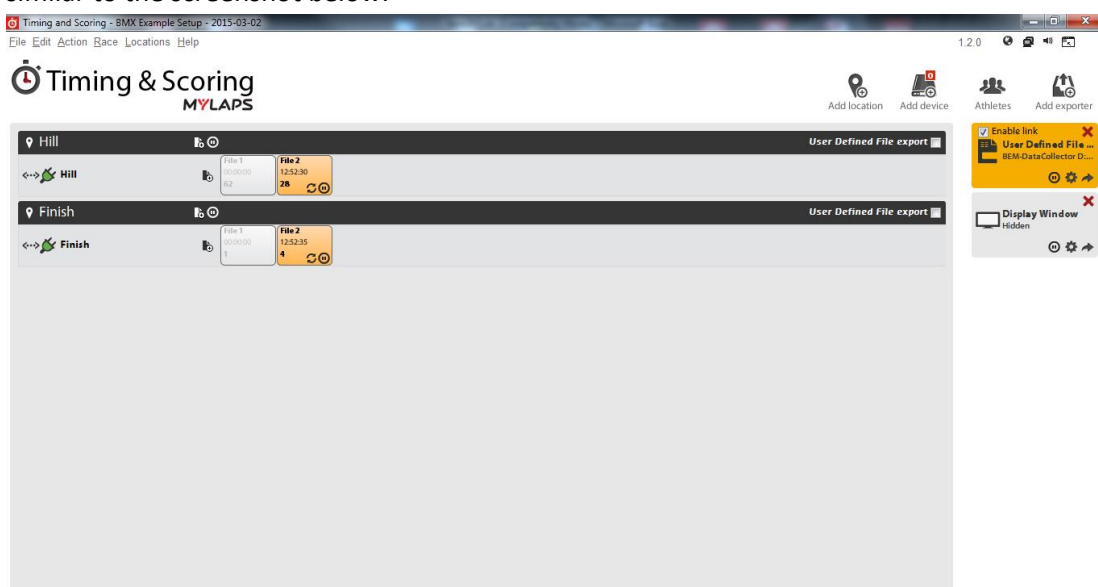
- Each export type has it's own Exporter.
- The Display Window is an Exporter in T&S, not built in as in DataCollector.
- You assign Locations to Exporters.
- Each Timeline is allocated independently to an/each Exporter so you could have different timelines linked to different Exporters.
- Each Timeline has its own file(s)
- There are Pass Through / Pause controls at Timeline, File and Exporter levels.
- A handy feature is the “replay” from each File to re-send all passings in the file to the Exporters.

## Exporting Passings to BEM

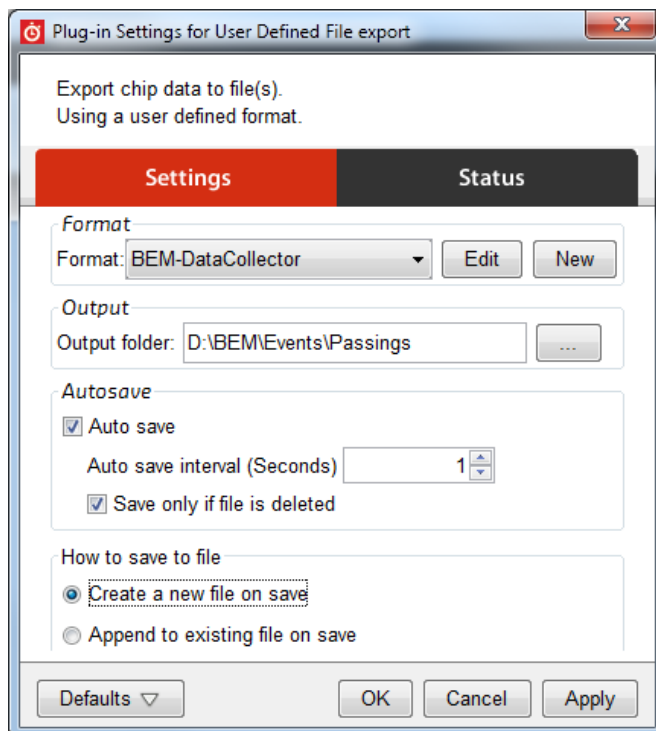
This section describes the steps to enable the passings to be sent to BEM via the User Defined File Exporter and to the Display Window via the Display Window Exporter.

The assumption in this description is that the User Defined File export has been set up in accordance with the Initial Setup section in this document.

1. If not already showing both the User Defined File and Display Window Exporters, click on **Add exporter** to add these Exporters to the control window. The screen should now look similar to the screenshot below.



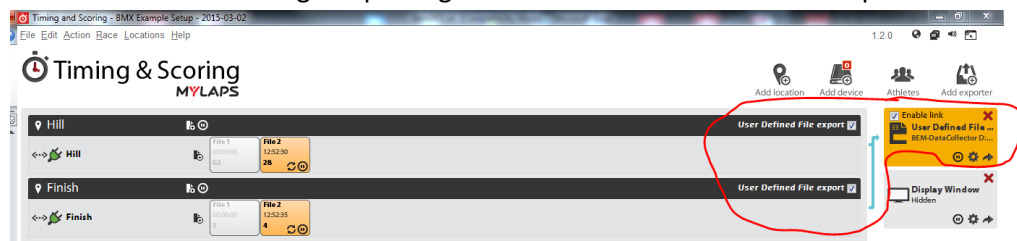
2. Select the User Defined File Exporter.  
Note that the selected Exporter will have an orange background.
  - a. Click on the Settings and if required, configure the Format, Output folder and Autosave settings. E.g.



Note that another difference between DataCollector and Timing & Scoring is that Timing & Scoring creates a folder for each Timeline in the Output Folder. In this example with the selected Output Folder D:\BEM\Passings there will be a Hill and Finish folder created.

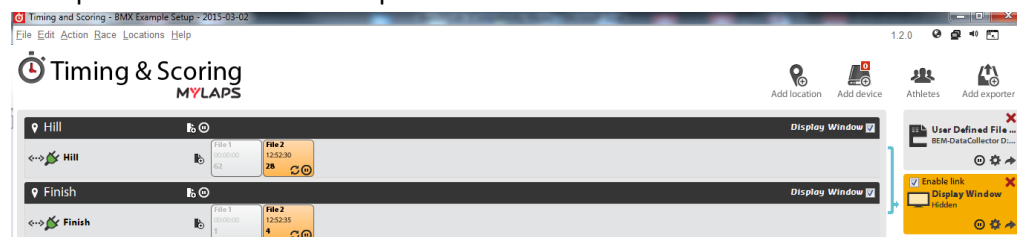
- b. For each timeline, select the User Defined File export and ensure that the Enabled link option is selected in the Exporter.


Note the arrows showing the passings flow from the timelines to the Exporter.




### 3. Select the Display Window Exporter

- a. Enable the Display Window exporter for each Timeline and ensure that the Enabled link option is selected in the Exporter.

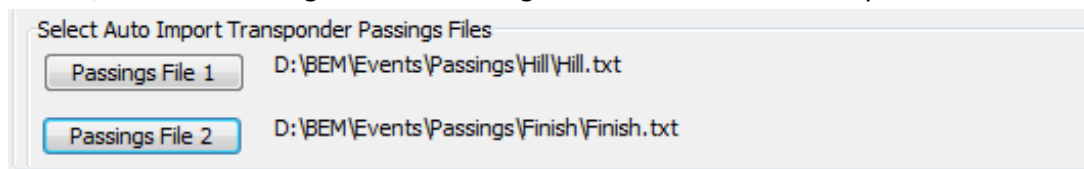


- b. Open the Display Window settings by clicking on the  in the Exporter.
- c. Enable Scroll back in history and set the Row count to the maximum (200).

- d. Click on the Visual settings and select you preferred display format. Suggest if nothing else you take the default Bold setting of in the Font Chooser.
- e. Open the Display Window by clicking on the  in the Exporter and select New Display Window.
- f. In the Display Window, right click and select which fields you wish to have displayed. Suggested fields are Plate, Class, FirstName, LastName, chip, time and location.



4. To test that the Exporters are behaving as expected, create a passing on each timeline.
  - a. Display window will show the passings (earliest on TOP)
  - b. File exporter will have a Hill.txt file in the Hill folder and a Finish.txt file in the Finish Folder.
5. In BEM, select the Passing File 1 and Passing File 2 from the Results Entry Screen.



6. In the Transponder Lap Time Settings in BEM, set the Start Gate Transponder(s) for the different format between DataCollector and Timing & Scoring. E.g.  
 DataCollector, 9992 and 9991  
 Timing & Scoring, 00-09992 and 00-09991