

# **ORBITS CYCLING**

## **User Manual**

Version: 1.1.











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		Manual revision history
Version	Date	Amendments
Varaian 11	I. d., 2017	now design and new feetures

Version 1.1. July 2017 new design and new features



## How to use this manual



## Search for Keywords

Search for keywords to find a topic. Press Ctrl+F on Windows or Command+F on Mac.



## **Navigate Topics**

View a complete list of topics in the table of contents. Click on a topic to navigate to that section



## Printing this Document

This document supports high resolution printing.

## Legends



Hints and Tips



Important



Reference

## Download options

Download the manual and install the product software from the MYLAPS site.

https://www.mylaps.com/support/software-firmware/

## About this Manual

This manual is intended for operating and supervisory personnel and provides information on installing and operating the product.

This publication has been written with great care. However, the manufacturer cannot be held responsible, either for any errors occurring in this publication or for their consequences.

The sale of products, services of goods governed under this publication are covered by MYLAPS 's standard Terms and Conditions of Sales and this product manual is provided solely for informational purposes.



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## 1. Orbits Cycling

## The timing & scoring software for cycling events

Orbits Cycling is the timing and scoring software by MYLAPS, specifically designed for cycling (club) races. We developed the easy-to-use software in cooperation with cycling federations, clubs and timekeepers to ensure it fulfills the needs of our customers. The software can be used for multiple forms of cycling, including road cycling, mountain bike racing, track cycling and other cycling disciplines.

MYLAPS' well-known and widely used Orbits software is now available for timing cycling races. Orbits has been used in the world of motorsports for many years and has now been rebuilt for cycling. With Orbits you can easily time your events in 6 sequential steps:

- 1. Setup your events
- 2. Create runs and import participants
- 3. Time your races
- 4. Process results
- 5. Distribute results: print and publish practice and event results and upload results to mylaps.com
- 6. Manage championships

When you order Orbits Cycling (25R030/1) you will get .exe file via a link or USB stick and your personal serial number.

The following components can be ordered from MYLAPS as options for further expanding Orbits Cycling.

Product:	Product code:
Orbits Cycling temporary license (3 months)	25R031
Camera plugin for the operator	
Custom made track set up for your track/velodrome	Contact MYLAPS tech.support@mylaps.com



## 1.1. System requirements

System Requirements	The minimum hardware specifications to run the Orbits Cycling program are:
	<ul> <li>1 GHz 32-bit (x86) or 64-bit (x64) processor</li> <li>1024 MB Memory</li> <li>Approximately 200 MB of hard disk</li> <li>Network adapter</li> <li>Printer and speaker devices</li> <li>Operating systems: <ul> <li>Windows 7</li> <li>Windows 8.1</li> <li>Windows 10</li> </ul> </li> </ul>

Administrator	You need to have administrator rights to install and
	run the program.

### 1.2. Installation

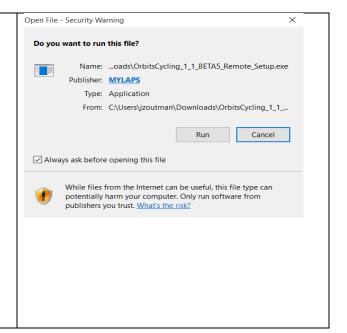
Installation	The program is available after purchase via a
	download link. To install the program:
	You will get the installer (.exe file) via a link or USB
	stick plus your personal serial number.

1.3. Downloading

## Downloading

- Click on the download link and save the program onto your PC
- Click on the downloaded file to start the installation of the program.
- Click on run and follow the instructions of the installation program

Shortcuts to Orbits are added under the Start menu and on your desktop.

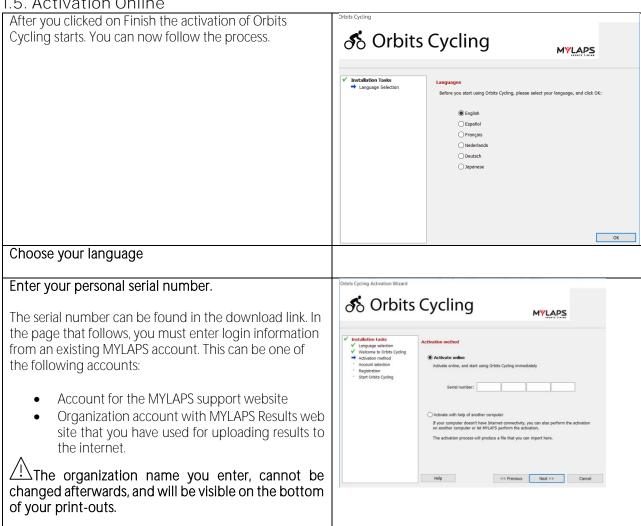




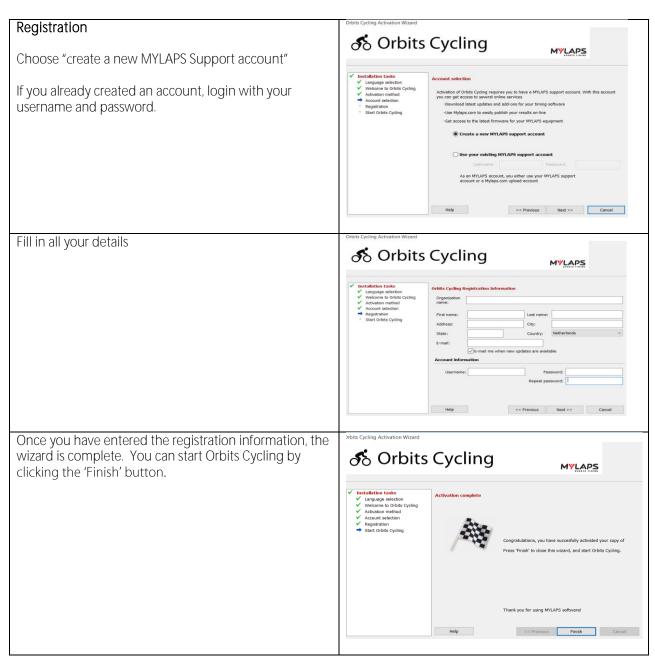
#### 14 Activation

Activate the program	You can activate Orbits in two ways:
	<ul> <li>Activate online &gt; this will perform the activation on the computer Orbits is installed on. This way of activating is recommended.</li> <li>Activate with help of another computer &gt; use this option only, when it is not possible to connect the main computer - the one you installed Orbits on - to the Internet.</li> </ul>

### 1.5. Activation Online









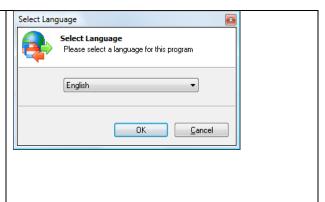
1.6. Activate with another computer

To activate with another computer, **6** Orbits Cycling choose 'Activate with help of another MYLAPS computer' in the 2<sup>nd</sup> step of the wizard and click 'Next'. The wizard will provide you with a **♂** Orbits Cycling computer code that you will need during the activation process. Write down that computer code, and visit http://activate.amb-it.com/ on a computer with Internet connectivity. On the website enter your serial number Import license file: Browse and the generated computer code. The file that contains your license information can be saved on a USB storage device. The website will provide a small license file. With that file, return to the computer with Orbits Cycling, and import the generated file into the wizard by clicking the 'Browse' button. If the file is OK, the Next button will be enabled. Click it to complete the activation process. Orbits Cycling is now fully registered and will be started as soon as you press the finish button



The program supports multiple languages. The choice of language can be changed before, or after the race. The language can be changed by selecting Help – Change Language, followed by selecting the required language from the drop-down list. If your language is not listed, please contact MYLAPS for the availability.

The Orbits Cycling program features an in-depth built-in Windows Help File accessible by selecting Help – Contents or pressing 'F1' in the program.





### 1.7. Start Orbits Cycling

After you activated Orbits Cycling by clicking on "Finish" Orbits Cycling will start. If you already downloaded Orbits Cycling, it can be started by double-clicking the Orbits Cycling shortcut icons on the Windows desktop or via the Windows Start button. Orbits Cycling can be found under Programs -> MYLAPS Sports Timing -> Orbits Cycling.

The Orbits Cycling software consists of two programs, the Orbits Cycling interface and the Orbits Cycling server. The Orbits Cycling server is running in the background and is started automatically when you start the Orbits Cycling program.



The Orbits Cycling server is a separate program running in the background. It handles the communication with the MYLAPS decoder, stores the passings and calculates the results. When the Orbits Cycling server is running, the "red cycling" icon will appear on the Windows taskbar at the bottom right part of your screen. This server should always be running when you use Orbits Cycling.

The visible parts of the program, the Orbits Cycling user interface, are separate from the Orbits Cycling server. This means that if the Orbits Cycling interface is accidentally shut down, the server is still running and decoder records will continue to be stored and processed. After restarting Orbits, the race can be continued without loss of data. The server is started automatically when the Orbits Cycling program is started. When the Orbits Cycling program is shut down, the Orbits Cycling server will keep running. Shutting down the server is possible by clicking the right mouse button on the server icon and selecting **Exit Orbits Cycling Server** or click on the icon when it is requested to shut down after finishing Orbits Cycling.

#### The Interface consists of six sections – six tabs:



**Setup>** In this section you can schedule race events, perform the system setup, monitor the system status and connect to your decoder(s).

**Registration>** In this section you can manage your time schedule and enter competitor data. Orbits Cycling uses a database to store all known competitors.

**Timing>** The timing section gives access to functions that are relevant during different stages of a timed run, e.g. functions related to runs, competitors in a run and passing data.

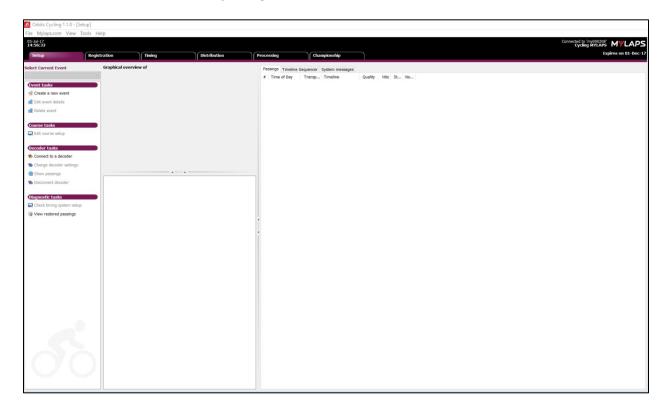
**Distribution>** In this section you can upload your results to MYLAPS.com

**Processing>** This section includes the functionality to organize run results and is used after a run has finished. The processing section hosts different functions like printing results, creating starting grids, assigning points to a run and merging results.

**Championship>** This championship section includes the functionality to organize and manage the championship standings.



## Default overview Orbits Cycling

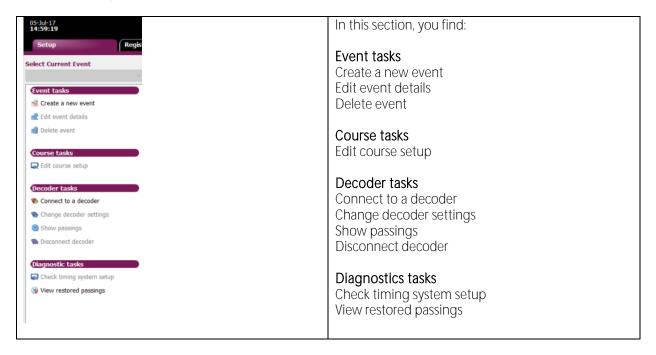




## 2. Setup



## Click on the Setup tab





#### Event tasks

Open the event setup page of the program by clicking on the **Setup tab** at the top of the program or the View menu.

Orbits Cycling program stores the race result per event. This means that prior to each event you hold, a new event must be created in Orbits Cycling. Since an event is run at a course, you also need to specify your timing system setup. The current selected event is displayed at the top left of the screen.



#### 2.1. Create a new event

You can create a new event from the Event Setup page. Click on **Create a new event** to start the 'New Event wizard'. Now the wizard will guide you through this process.

You can specify the following info on the first page of the wizard.

#### **Event Name:**

The name of the event.

#### Begin Date and End Date:

The start and the end date of the event.

#### Event Footer 1, 2, 3, 4

The text that should be displayed on the footer of the printouts.

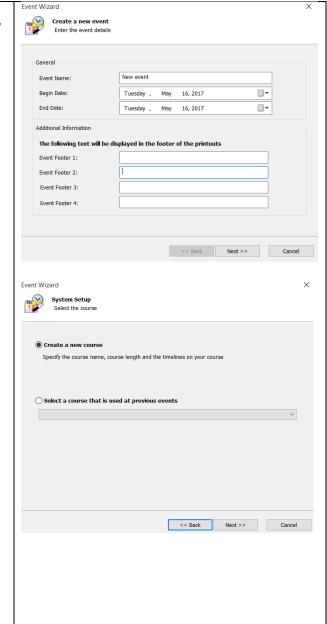
In the event footer, you can add of the organizer, timer, date etc.

The wizard will ask which system setup you are using.

You have the option to

- Create a new course
- Select a setup that is used at previous events.

We start with "create a new course"





Click on "next" and fill in all course details about your event.

General details:

Name of the course
Length

Photocell:

Use photocell Timeout
Photocell Separation

Course Wizard

Course Details
Enter the course details

Finer the course details

Required for displaying the Speed

Photocell Timeout
Photocel Timeout
Photocel Separation

#### Name

The name of the course. E/g you can choose the name of the track or location.

#### Length

The length of the course is used to calculate the speed shown on the qualifying and race results. Depending on unit of the course length specified (km or miles) the speed (during the race and in the results) will be shown in km or miles.

#### **Use Photocells**

Select this option when you want to use photocells as backup time keeping system. Connect the photocells to the start/finish decoder.

#### Photocell Timeout:

When photocells are connected to the decoder, Orbits Cycling uses the photocell inputs as a backup source for timing. If a competitor with a transponder is passing the finish line, Orbits Cycling will receive both photocell time and transponder time from the decoder, and assign them to the same passing. If a competitor without a transponder passes the finish line, Orbits Cycling only receives a photocell time and will ask you to identify the competitor number.

The photocell timeout is used to set the time Orbits Cycling will wait for a transponder input after receiving a photocell input. The value is default set to 2000msec. The lower this value, the sooner Orbits Cycling will generate an alarm if a competitor without a transponder is detected by the photocell. When you click on default, all settings will be set to the original settings.

#### Photocell separation:

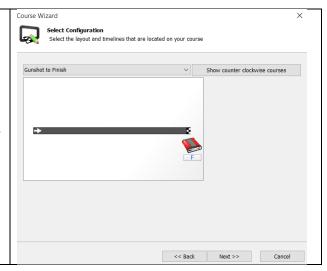
The separation is used by Orbits Cycling to determine whether a photocell time can be assigned to a transponder passing time. The smaller this value, the more accurate Orbits Cycling will be able to detect competitors without a transponder. If the separation is set too small, a competitor with a transponder, passing the finish line, will also generate a photocell time, for which Orbits Cycling will ask you to identify the competitor number.



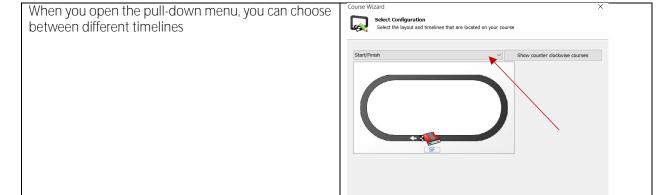
## Select configuration

After you filled in all General details of your course, you must select the course configuration. Depending on the number of timelines on your course you can select your configuration from the list. The following configurations are installed by default.

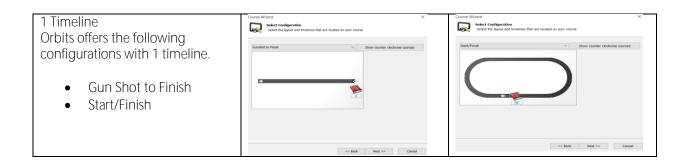
The course layout shows the timelines on the course. Each timeline has a unique name in this configuration. Orbits Cycling has several built-in configurations available. If your configuration is not listed, please contact your local MYLAPS office



#### Choose your timeline



#### The different timelines:



<< Back Next >> Cancel

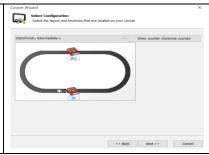


## 2 Timelines

Orbits offers the following configurations with 2 timelines.

- Start to Finish
- Start/Finish, Intermediate





#### 3 Timelines

Orbits offers the following configurations with 3 timelines.

- Start to Intermediate 1 to Finish
- Start/Finish, Intermediate 1, Intermediate 2



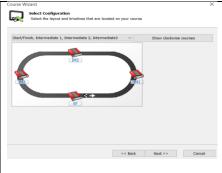


#### 4 Timelines

Orbits offers the following configurations with 4 timelines.

- Start to Intermediate 1 to Intermediate 2 to Finish
- Start/Finish, Intermediate 1, Intermediate 2. Intermediate 3





#### 5 Timelines

- Orbits offers the following configurations with 5 timelines.
- Start to Intermediate 1 to Intermediate 2 to Intermediate 3 to Finish



If you want your track clockwise, you first click on "show clockwise courses" then you select the configuration. You can choose "clockwise" in the configuration step.

The arrow will be shown clockwise.

Show clockwise courses

After you chose your timeline, apply the course set up.



After you select a timeline, click on "next" to fill in the section names and length. Depending on your selected configuration the program will ask you to fill in the section names and section length.

Click on the first section, fill in the section name, short name, display, length and extra.

#### Section name

The description of a logical section.

#### Short Name

The short description of this logical section will be used in the result screens. It can be 6 characters long.

#### Display

For this section, you can choose between "Time, Speed or Time and speed"

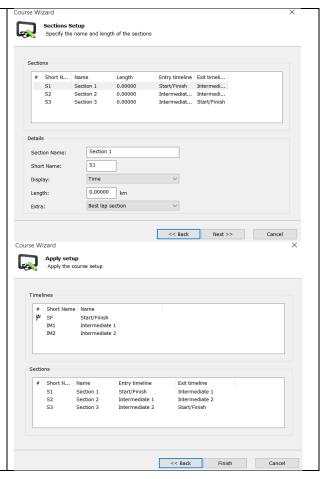
#### Length

Length of the section. This number must be very accurate, as it will be used in speed calculations. This number will either be in kilometres or miles depending on the used length unit (kilometres or miles). The length will be from the first timepoint to the second. From the second to the third etc.

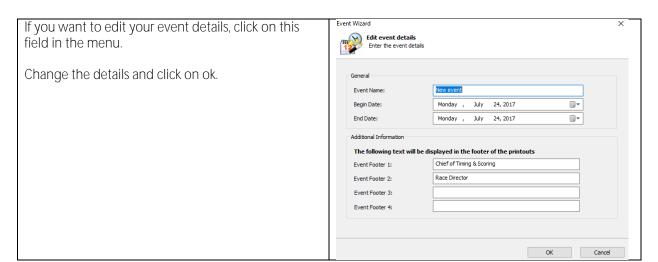
#### **Extra**

For this section, you can choose between "best lap section or none"

An overview of your set up will follow. After clicking "finish" all your settings are applied.



#### 2.2. Edit event details



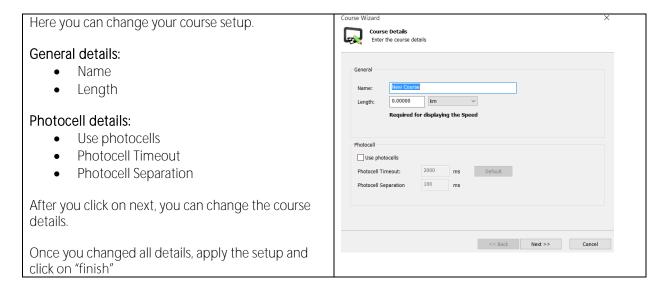


#### 2.3. Delete event



#### Course tasks

## 2.4. Edit course setup



We can arrange a custom-made track set up for your track/velodrome. Please contact us <a href="mailto:info@mylaps.com">info@mylaps.com</a>



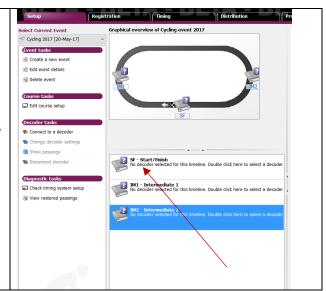
#### Decoder tasks

### 2.5. Connect to a decoder

After you have created your event and configured your timing system setup, you can select your ProChip decoders.

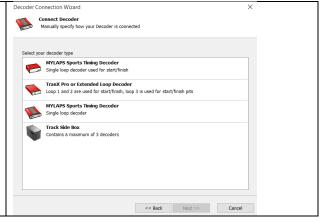
To connect to a MYLAPS decoder, you can double click on a timeline, or choose to register a new decoder from the system setup tasks.

Now the 'Decoder Connection Wizard' will open. The wizard first scans the network for available decoders. On the first page, all decoders that are found in the network are listed on the screen.

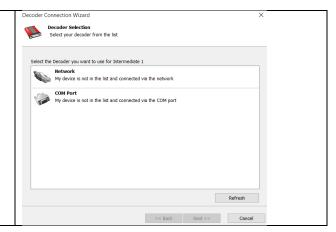


Now the 'Decoder Connection Wizard' will open. The wizard first scans the network for available decoders. On the first page, all decoders that are found in the network are listed on the screen.

Select the decoder you want to use and click on the **Next** button.



If you get this screen, you are not connected to a decoder/no decoder can be found.





#### Network

If your decoder is connected to your network, select your decoder – click next.

If your decoder is connected to your network, but not in your list, you must add the decoder manually by selecting Network option from the selection list and select the type of decoder.

Enter the IP address of the decoder. See connection issues for more info about the decoders IP address

#### **COM Port**

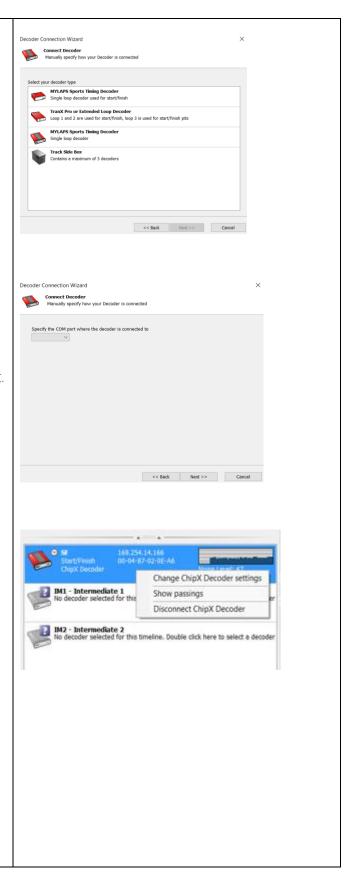
If the decoder is attached to the serial-port of the computer, you must add the decoder manually by selecting the COM Port option from the selection list. Now you need to select the COM Port from the choice list.

Choose your decoder and click to see other settings

- Change ChipX Decoder settings
- Show passings
- Disconnect ChipX Decoder

#### Change Decoder settings:

You will get the same details as when you double click on the selected decoder.





### Show passings:

To analyse the transponders on a timeline you can select the passings tab

- Hits The number of hits of the last passing
- **Strength** The strength of the last passing for that transponder.
- Noise The noise during the last passing.

The background noise in combination with the signal strength is the most important indicator of the performance of the hardware system. If a decoder is connected to the computer, the background noise will be indicated in the timeline status screen.

The average background noise is sent to the computer by the decoder every five seconds.

#### Noise values:

0 – The loop is not detected

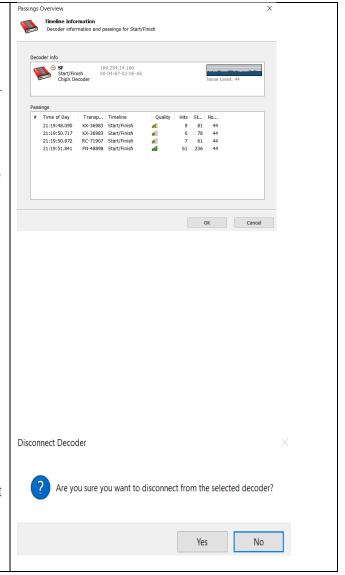
10-30 noise level is ok

30-50 noise level is medium

50+ noise level is high, not reliable detection.

#### Disconnect decoder:

If you want to delete a decoder, click on "disconnect decoder". Select the decoder you want to disconnect and click on yes.





## Graphical overview of your event.

When your decoder is connected, correctly, you see and graphical overview of your event.

If you have more timelines, you can now add other the other decoders to your track.

Make sure every decoder has a green mark.

#### Noise level:

If your noise level is too high, passings might not be detected.

#### Satellites:

The amount of satellites visible for the decoder.

### Settings of ChipX Decoder

If you click on the decoder, you get the settings of Chip X decoder.

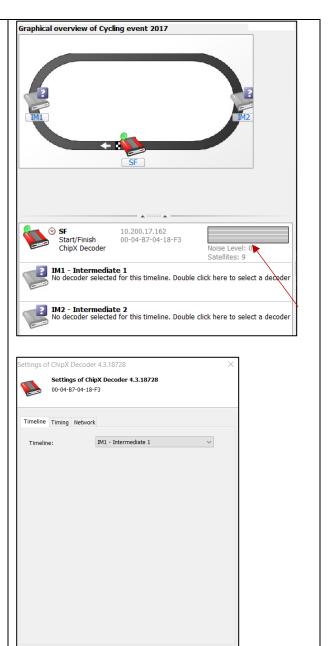
#### You see 3 different tabs:

- Timeline
- Timing
- Network

#### Timeline

You can change your timeline by selecting and click on ok.

You will see the change in the graphical overview.





### Timing: ettings of ChipX Decoder 4.3.18728 Settings of ChipX Decoder 4.3.18728 Different options: 00-04-B7-04-18-F3 Input Settings Photocell 1 Timeline Timing Network Photocell 2 Auxillary 1 External Start Not Used Photocell 2: Use wireless photocells Auxillary 2 External start: A Each input must have a unique setting. Use wireless photocells 100 ms ms Gate time: ms ms Photocell 1 Holdoff: Photocell 2 Holdoff: ms ms ОК Cancel **Timing Settings** Settings of ChipX Decoder 4.3.18728 Squelch Settings of ChipX Decoder 4.3.18728 00-04-B7-04-18-F3 Gate Time Photocell 1 holdoff Timeline Timing Network Photocell 2 holdoff ⚠These setings are "read only" values Photocell 1: Auxillary 1 Not Used Auxillary 1 Photocell 2: Auxillary 2 External start: Use wireless photocells Squelch: - ms Gate time: Photocell 1 Holdoff: 40 ms ms Photocell 2 Holdoff: - ms ОК Cancel



#### Network:

Network settings for a type 3 decoder cannot be changed in this Dialog: Settings are changed on the display of the decoder.

Here you find the details of:

- IP address
- Subnet Mask

#### Serial number is red?

If the serial number is highlighted red, this means you need to upgrade your decoder firmware. To update a decoder, go to the support section of the MYLAPS website or click the button Check for available updates (Online).

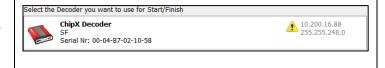


### IP address has a warning icon?

If the IP Address is not in the same network range as the computer a warning icon will appear. This means that you need to change the IP Address of the decoder. You can do this by right clicking on the decoder and select change decoder settings. You can now connect to your decoder by selecting it from the list and hit the Next button.

#### My decoder is not in the list?

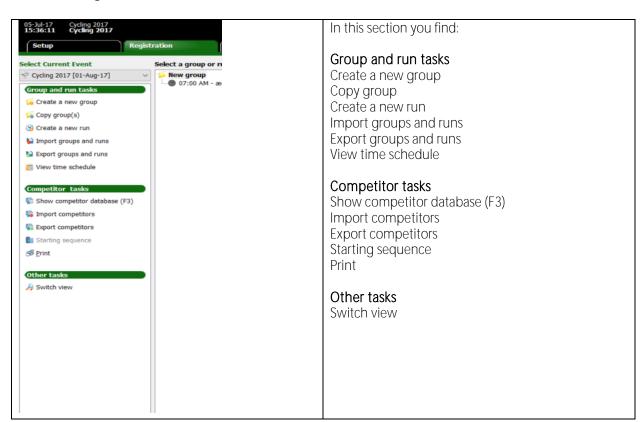
If your decoder is not listed first check if it is powered on and that all connectors are firmly in place. If it still does not connect it is possible that the decoder has an old firmware version. Manually connect to the decoder by selecting the network option and hitting the **next** button. You can now enter your IP Address, hit the **Next** button to connect. If it connects it means that the decoder firmware needs to be updated. It is possible to do timing in compatibility mode, but some new features will not be supported





## 3. Registration





The screen is divided into two main sections:

- The Groups and Runs screen
- The Detailed screen



### Group and run tasks

### 3.1. Create a new group

Start by clicking on "Create a new group" under the group and run tasks.

Now the Group Wizard will start. You first need to enter the group name and group description

Here are some examples of group names.

- Boys
- Girls
- Man
- Woman

After selecting a new group, you can enter the Time schedule for the group. This time is still flexible and can be changed. This is not the actual start time, but an indication.

Each group prepared for an event can hold a series of runs

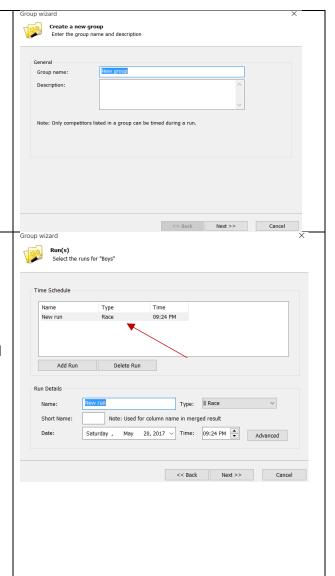
To add a new run to this group, you can click on the **Add Run** button.

Select the "new run"

Give the selected run a name, type, short time, date and start time of the session.

In "type" you can choose:

- Practice
- Race
- Time trial
- Handicap





Click on the **Advanced** button to enter the detailed run settings

- General
- Timing
- Categories

#### General

Here you fill in all general details about your new run.

## 

#### Timing

#### Start Method

This property indicates how the start of the race is defined. The possibilities are:

- Start on Gunshot > the elapsed time is measured from the dropping of the Gunshot. A session can also be started using an external start pulse connected to the photocell 2 input of the MYLAPS decoder. The external start pulse will result in a Gunshot passing to be inserted. Run must be in warm-up mode to activate this function
- Staggered Start > each competitor has his own starting time, triggered by passing the start/finish line.

#### First Passing

- None
- Counts as completed lap
- Counts as completed lap, calculates lap time from gunshot

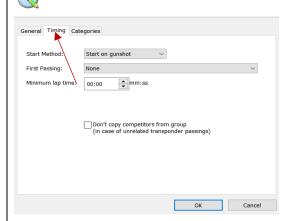
### First passing

Normally the first two passings will count as one lap (one passing for starting and one passing for completing the first lap). If this option is set to Count as completed lap, the first passing of the start/finish line of each vehicle will count as the first completed lap.

Whether to count the first passing is dependent on several factors such as the distance between the starting location and the start/finish line (the detection loop).

⚠You should try to grid the competitors at least 5m/15ft from the detection loop to prevent premature detection.

Minimum lap time:



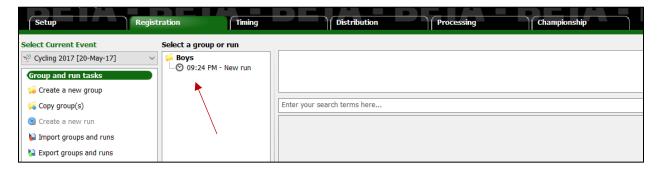


Lap times recorded below the specified minimum lap time will be automatically invalidated and are displayed in red in the passing screen. An invalidated passing will count as a lap, but will not be used for determining best lap time. The minimum lap time value can be changed at any time, also when timing a session.  $\triangle$ Passings with lap times that are faster than 3 seconds will be automatically deleted. Create another group for this event. Group created
The group is successfully created If you want to use the same run details for another group, click on "create a new group" and click to you see "create another group for this event" O Create another group for this event Create a new group using the "create group wizard" The same details will be saved, an extra group has been Finished creating groups and runs made.

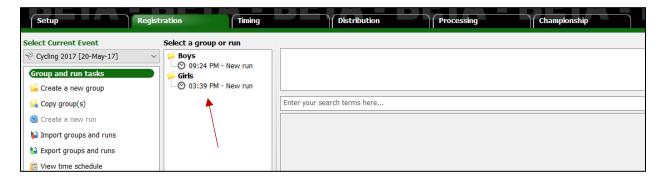
<< Back Finish Cancel



After you created a new run, the run will show in the groups a run screen



An extra group with the same run details.



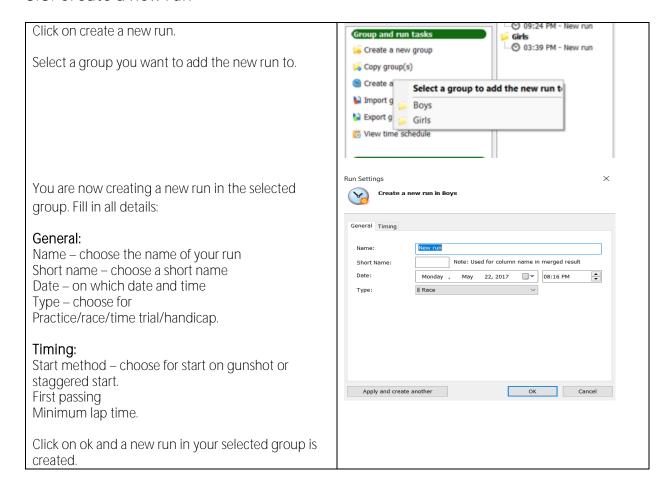


## 3.2. Copy groups

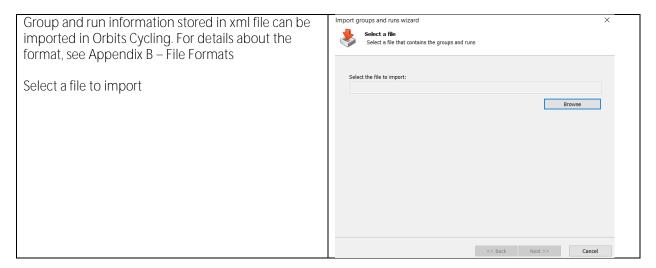
Group(s) from a previous event or the complete Select an event Select the event to copy from schedule including the competitors and merges can be copied in the current event using the Copy group(s) option in the task menu of Group and Run. Select an event to copy from: P Cycling 2017 [20-May-17] << Back Next >> Cancel Copy groups wizard Select groups
Select the groups to copy Select the group(s) and click on next. Options: Select the groups to copy Copy competitors Reset competitors' transponder during copy Merges Copy competitors << Back Next >> Cancel



#### 3.3. Create a new run



### 3.4. Import groups and runs



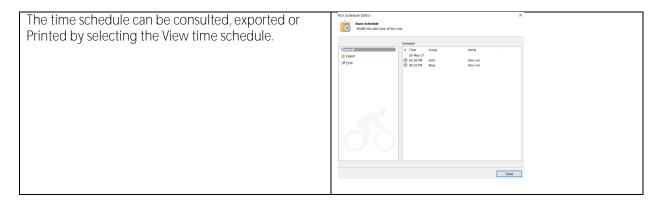


## 3.5. Export groups and runs

Group and run information stored can be exported in an xml format. For details about the format, see Appendix B – File Formats

Select a file to export to.

## 3.6. View time schedule

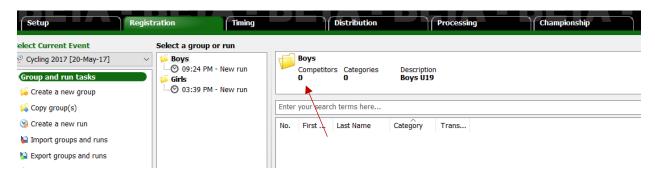




# Competitor tasks

# 3.7. Competitor database (F3)

If you click on group e/g "Boys" you see a detailed screen.



You see no competitors and no categories. How to create competitors and categories?

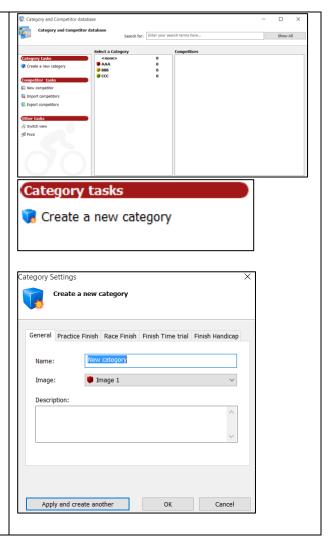
# Competitor database (F3)

In the competitor database, the competitors are stored in categories. A competitor can belong to only one category. If a competitor competes in more than one, he must be entered separately for each category.

When a category is selected (on the left) in the list, only the competitors in that are shown. When multiple categories are selected, the competitors in the selected categories are shown.

When you press **Show All**, all competitors in the database are shown. A category is created automatically when it is entered for a new or existing competitor.

You can also create a category by right mouse clicking on the list of classes and selecting "Make a new category".





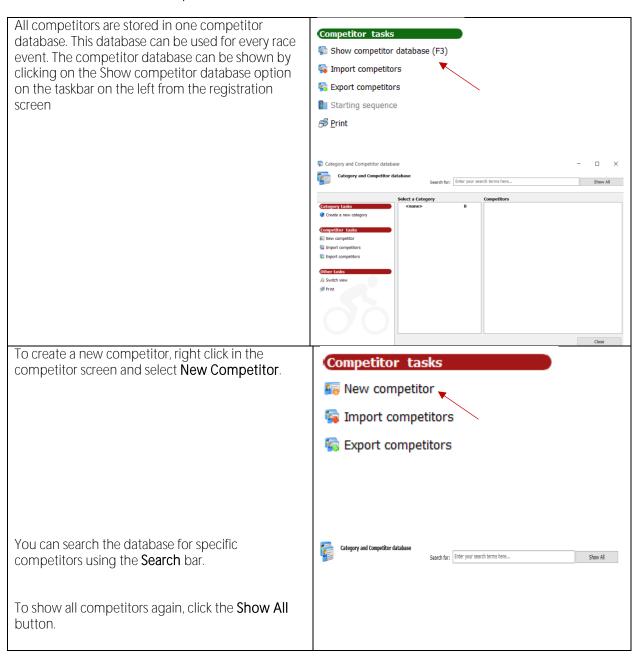
### Make a new category.

To make identification easy, competitors that are in the same category are marked with the same coloured block.

You already created a group e/g Boys In this group, you create a category e/g Boys U19



# 3.8. Create a new competitor

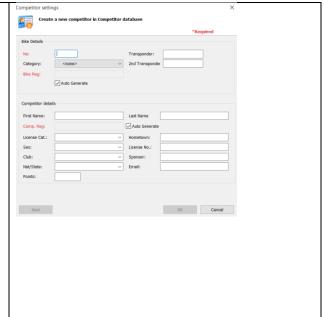




In the competitor database, the competitors are stored in categories. A competitor can belong to only one category. If a competitor competes in more than one, he must be entered separately for each category.

When a category is selected (on the left) in the list, only the competitors in that are shown. When multiple categories are selected, the competitors in the selected categories are shown. When you press **Show All**, all competitors in the database are shown. A category is created automatically when it is entered for a new or existing competitor. You can also create a category by right mouse clicking on the list of classes and selecting **Make a new category**.

To make identification easy, competitors that are in the same category are marked with the same coloured block.





### No

Orbits Cycling accepts 4-digit alphanumeric starting numbers.

### Category

In the category drop down box, all categories from the Competitor Database are listed. If a category was selected on selecting **Add Competitor**, this category will be preselected. You can either select an existing category or fill out a new one.

# Transponder/2nd Transponder – Pro Chip (Flex)

It is necessary to fill out the transponder number(s) of the competitor. The 2<sup>nd</sup> transponder field can be used in case a bicycle is equipped with a new transponder during a session.

### Bike Reg.

The bike registration number is a unique number for a bicycle (e.g. chassis number). If you do not know this number you can let Orbits generate a unique number for you by selecting **Auto generate**.

The combination of bike registration number and competitor registration number is unique for each competitor. It is used by Orbits as a key, and cannot be modified. Therefore, it is important to enter this information accurately.

### First Name/Last Name

The first and last name fields must be filled out carefully to make the sorting on name work correctly. If you want 'Mc Donalds' to be sorted on 'Donalds', please place 'Mc' in the first name field. In the results on screen and on printouts, the full name will be printed as the full name, with first name and last name after each other. If you want the program to first display the last name and then the first name, please enter the last name in the First Name field and vice versa.

Bike Details			
No:		Transponder:	
Category:	<none> \</none>	2nd Transponder	
Bike Reg:			
	✓ Auto Generate		
Competitor	details		
First Name		Last Name	
Comp. Reg	ŗ _	Auto Generate	



### Competitor Reg.

The competitor registration number is a unique number for a competitor (e.g. license number). If you do not know this number you can let Orbits generate a unique number for you by selecting Auto generate.

The combination of bike registration number and competitor registration number is unique for each competitor. It is used by Orbits as a key, and cannot be modified. Therefore, it is important to enter this information accurately.

### Additional data fields

select the **OK** button.

In the additional data fields you can enter any necessary additional data on the competitor. Headings for all additional data fields can be named in the General Settings (Tools-> Options... -> General from the main menu). For three of the additional data fields the value can either be entered by hand or selected from a drop-down box, which contains all previous entries.

To enter another competitor, select the **Next** button. Once all competitors are entered

Points will be given after the race.

You now get an overview with all competitors and all categories.







# 3.9. Managing competitors

By clicking the right mouse button on a competitor in the Competitor database a pop-up menu will appear for adding, editing or deleting competitors.

- Add competitors to selected group
- New competitor
- Edit competitor "E/g Joan Neill"
- Delete competitor "E/g Joan Neill"
- Reset transponders
- Select all
- Choose columns

### Add new competitors to selected group:

You have created groups, categories and competitors.

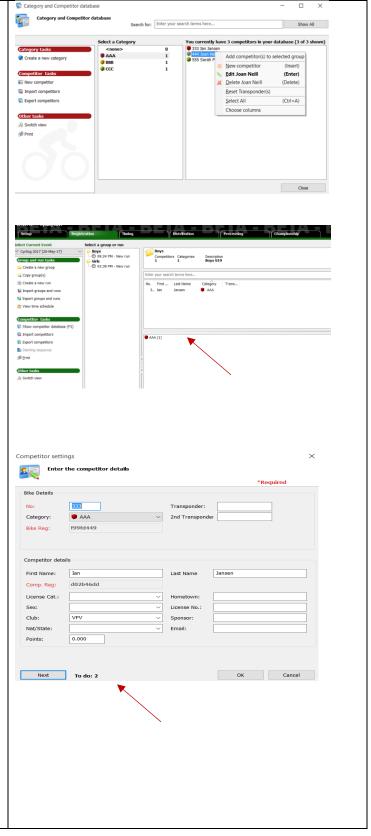
You now going to add competitors to fill the group.

# New competitor.

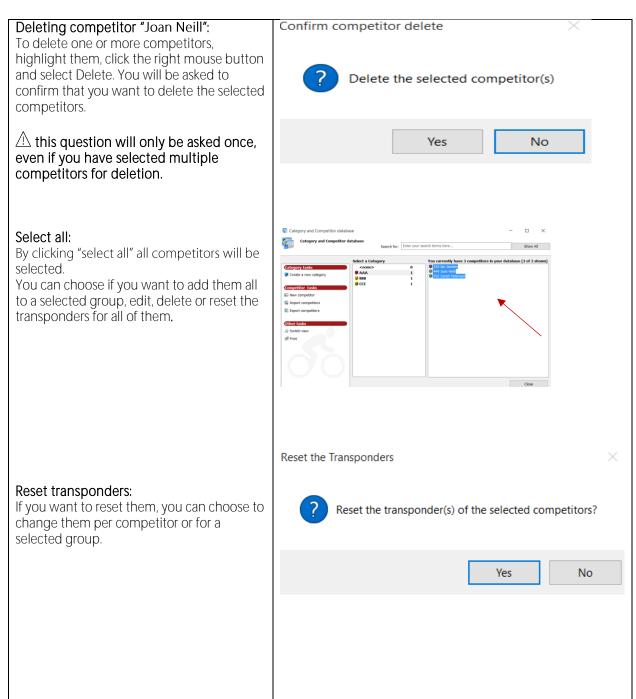
If you want to add a new competitor, click on "add a new competitor" and fill in all details.

E/g Edit competitor "Joan Neill" If you want to edit a competitor, click on the competitor. The competitor screen will popup, so you can change the details.

If you selected multiple competitors to edit, all screens will pop up, but you only see one. On the bottom part of the competitor screen you see how many competitors you should have.

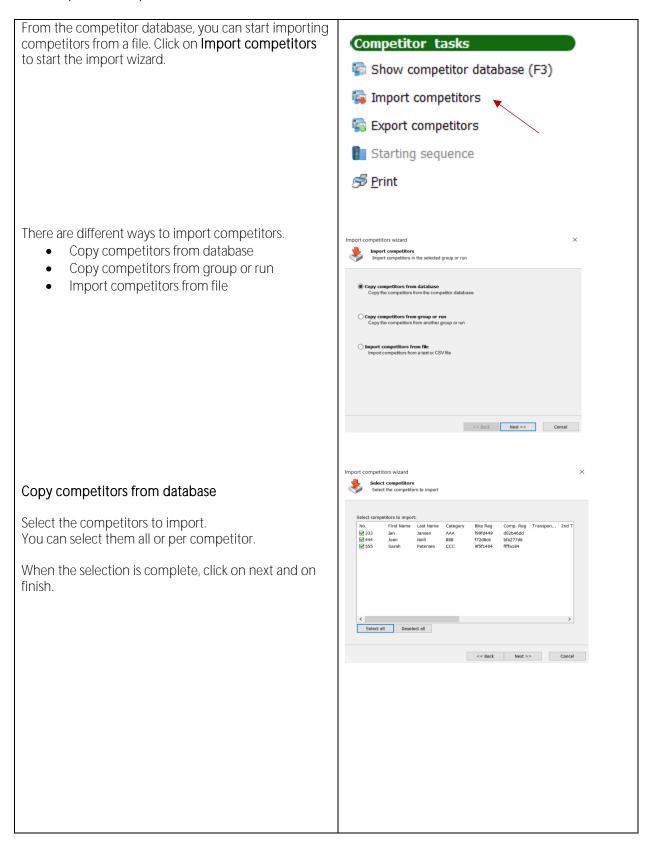








# 3.9. Import competitors





# Copy competitors for group or run Copy the competitors from another run or group. Select the group or run, click on next and finish. Import competitors from file Import competitors from a text or CSV file Click on browse and select the file you want to use. See appendix B for using files.



# 3.10. Export competitors

Click on export competitors and browse to a file you want to export the competitors to.

You can choose between a text or csv file.

Export competitors wizard

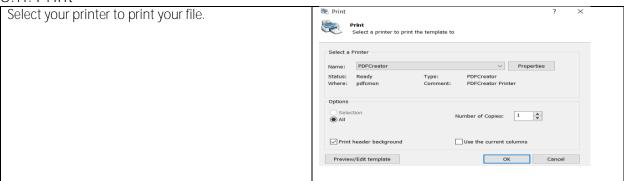
Select the file to export the competitors to:

Select of file to export the competitors to:

Select of file to export the competitors to:

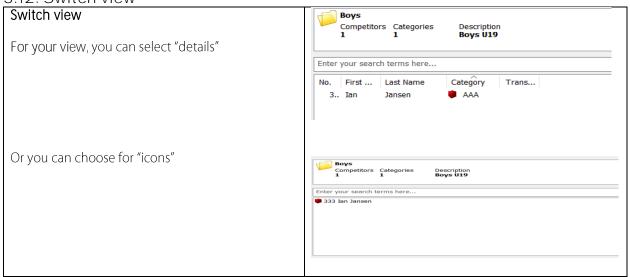
Select of file to export the competitors to:

### 3.11. Print



### Other tasks

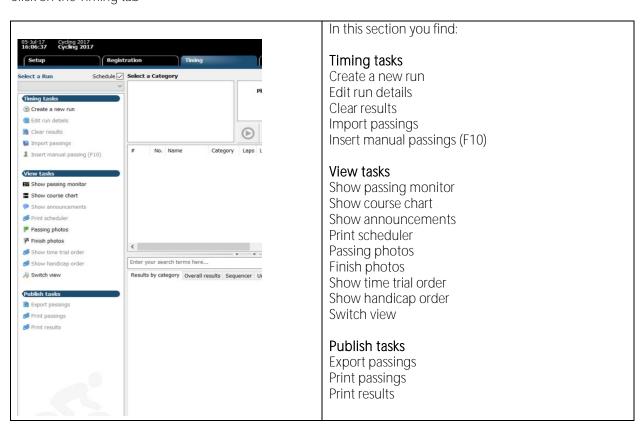
### 3.12. Switch view





# 4. Timing







# Timing Tasks

### 4.1. Create a new run

If you want to create a new run in a group, select the group you want to create a new run in and fill in all details.

Sometimes you need to improvise and schedule a new run during the day.

You can use this menu item.

Run Settings

Create a new run in Boys

Create a new run in Boys

Name:

Short Name:

Date:

Saturday , August 12, 2017 Possion FM

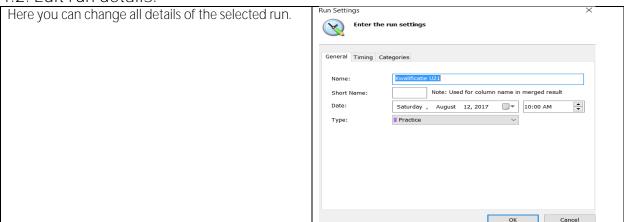
Race

Run Settings

Create a new run in Boys

Apply and create another

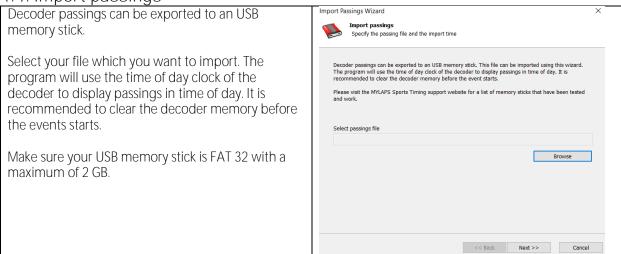
### 4.2. Edit run details.



### 4.3. Clear results

All results will be cleared. After you cleared the results, it is possible to import passings from a new file.

4.4. Import passings





# 4.5. How to start a run

After preparing the race event, you can start racing. This part of the manual describes the process of starting a race and the actual timekeeping activities. All of this takes place in the **Timing** tab of the program. When the **Timing** tab is selected, it will look like the figure below.

The screen is divided into three main sections:

- The Passings screen
- The Results Screen
- The Lap Chart

The screens can be adjusted by selecting the tool and dragging it to the preferred position. You can hide and show the tool by clicking it with the left mouse button.

To start a practice or race session, check if the right track and event are selected in the title bar. To change the selected track and/or event go to the registration screen and select an event from the choice box on the top screen. Before you can start a session you first must open the session. This can be done from the selection box on the top of the timing screen. Select the run from the selection list.

A run can be started and stopped in the Timing tab; passings will be collected and displayed. By pressing the start pistol (or F5 on the keyboard) the timing can be started. By pressing the checkered flag (or F8 on the keyboard) the timing can be stopped. There are two ways to start and stop timing: Each category can be individually started and finished by selecting one category. All categories together can be started and finished by selecting the run.

A single run can have multiple athletes in different categories. In some situations, a category must complete a different number of laps or ride a longer or shorter period than another category. Each category can now have a different start or finish time.



### External start

After starting a session with the Play icon, the Start gun flag will be initialized automatically when the decoder receives a Photocell 2 input from the Auxiliary port. Please check your hardware manual for wiring details.

The start gun, red and finish flag are applicable to all categories in a run when you have selected the run itself. If you have selected just one category out of the ones you have in that specific run, then the start gun, red and finish flag will apply to that specific selected category.

### Start Timing of selected run

Select the play icon to start the timing of the run in warming up mode. When this is active the laps will appear in the Passings Screen, but will not count for the results.

### Start Gun (F5)

Select the Start Gun to start the race or to change from a red flag situation back to a normal race mode. A stopped race can also be restarted by selecting the Start Gun.

### Red flag (F7)

Select the red flag when a red flag situation occurs. During a red flag situation, the lap count is never increased but the passings will still be registered.

### Prime

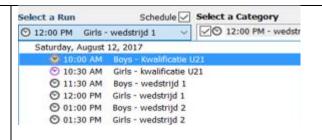
Select the prime button to start a prime

### Finish flag (F8)

After the finish flag is dropped, the next passing by each competitor will be marked as finished and all subsequent passings will be marked as extra and will not affect the race/qualifying result.

### Stop

Select the Stop button to stop the timing and scoring for this run. Once a run is stopped, successive transponder passings will not be registered. The run can be restarted by selecting the green flag (or pressing the F5 hotkey).











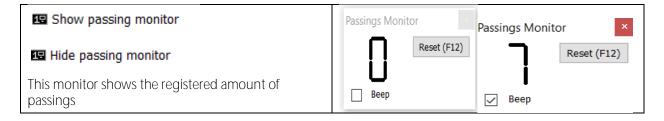






### View Tasks

# 4.6. Show passing monitor



### 4.7. Show course chart

### ₩ Show course chart

### Hide course chart

The Course Chart is a graphical presentation of competitors that are on the course. Each box represents a competitor and displays the following information:

The bike number or initials

The expected time. This bar will update during the lap. If a competitor is expected to pass start finish the bar will be 100 % green. When a competitor is running late, the green bar will become

red. This is an indication that the competitor is in a slow lap, or that he is out of the race.

Result marker, this can be red or green.

If it is grey, the competitor is not active anymore.

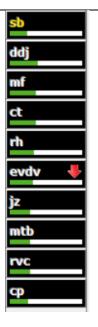
The Course Chart can be sorted in 4 ways.

On course position: This shows the order in which the competitors have passed the detection loop in

the competitors have passed the detection loop in the last completed lap. The leader is the first competitor.

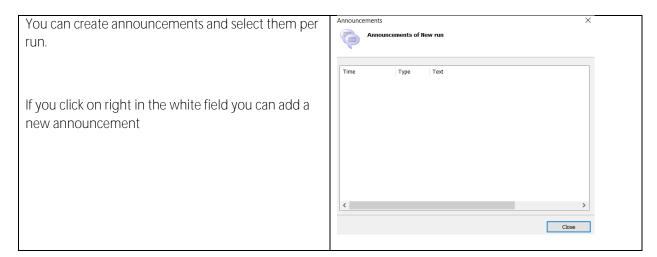
- On result: This shows the order based on the current run results.
- On car number: Competitors are sorted on starting number.
- On expected time: This shows the order in which competitors are expected to pass start finish. The competitor at the top is expected first.

To select the sorting option, right click in the Course Chart screen and choose the desired option.

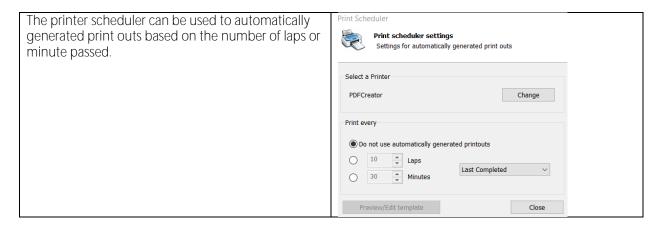




### 4.8. Show announcements



### 4.9. Printer scheduler



# 4.10. Show time trial order





4.1.1. Show handicap order

This shows the order of the categories of the	Handicap start order	×
handicap run.	Next category:	
	supporters	
	Time to start:	
	0:00:22	
	Followed by: catergorie 1 : 0:00:52	

# 4.12. Swich view

The view will change. The results and lapchart screen will switch places.

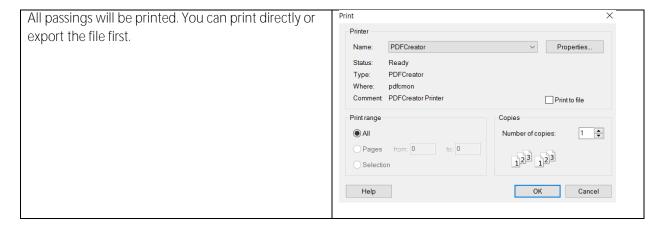


### Publish tasks

# 4.15. Export passings

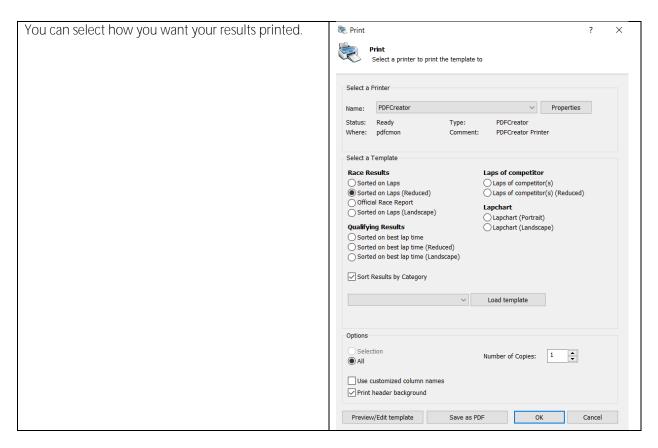


# 4.16. Print passings



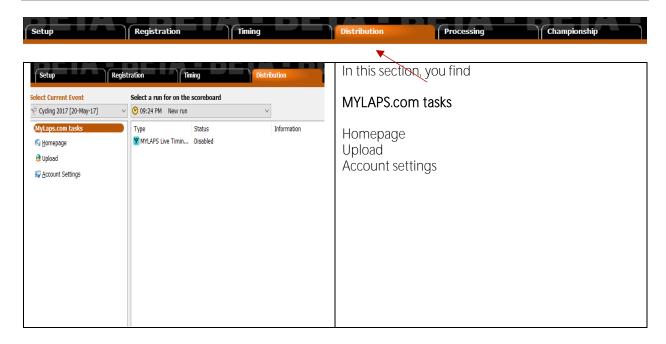


### 4.17. Print results





# 5. Distribution



# MYLAPS.com tasks

# 5.1. Homepage

If you select this, you go to the MYLAPS homepage.



# 5.2. Upload

To upload your results to the MYLAPS SportHive platform, login with username and password of your organization account.

| Select the runs you want to upload. Click on next and your results will be uploaded to the site. | Your results will be shown on the Sporthive website. | | Sporthive website. | Sporthive website. | Sporthive website. | Sporthive website. | Sporthive website. | | Spor



# 5.3. Account settings

If you want to change your account settings, login with your username and password of your organization account.

Mylaps.com Account Settings
Enter the Mylaps.com username and password

In order to use the Mylaps.com services, you must log in with your username and password.

This should be the username and password which are associated with your organization.

Username:

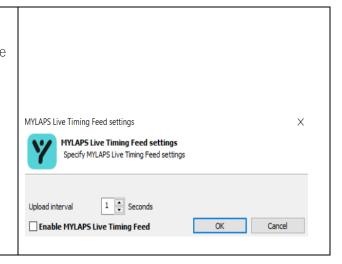
| Not Registered yet?
| Click here to register a new user

5.4. MYLAPS Live Timing Feed

The MYLAPS Live Timing Feed offers a live timing solution in both Speedhive app and website, which is a provisional free service. By enabling the feed, the event will automatically show up in the Speedhive Android or iPhone app.

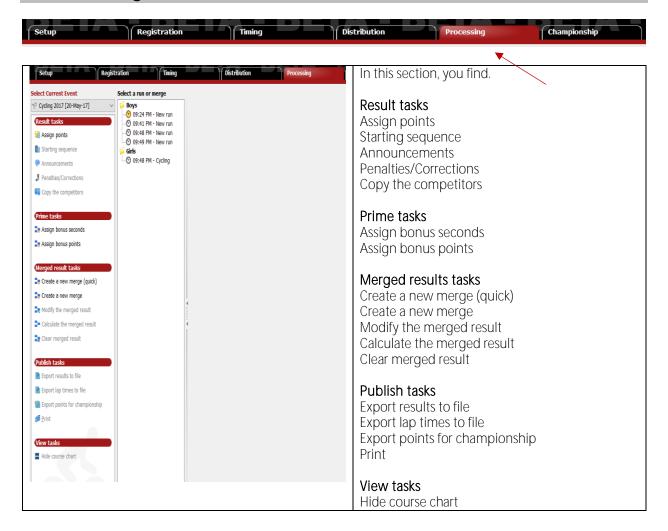
### Enable the feed

The feed is by default disabled. Click on the link to enable the feed. Check the 'enable MYLAPS Live Timing Feed' box and select the upload interval.



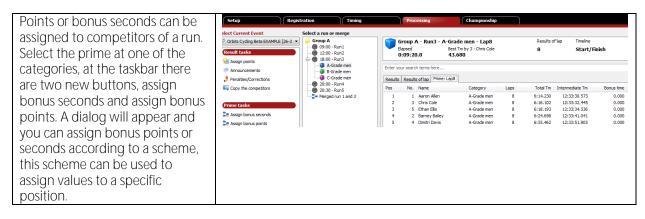


# 6.Processing



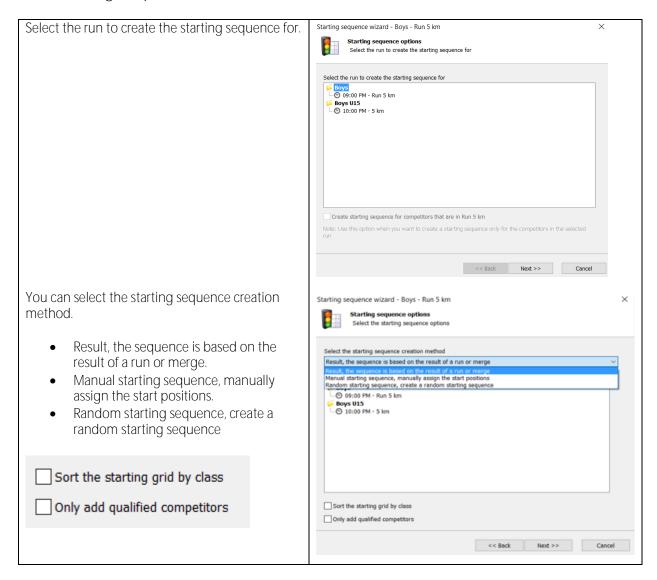
### Result tasks

# 6.1. Assign points

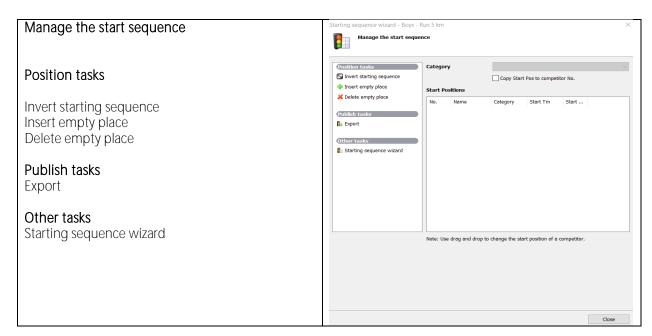




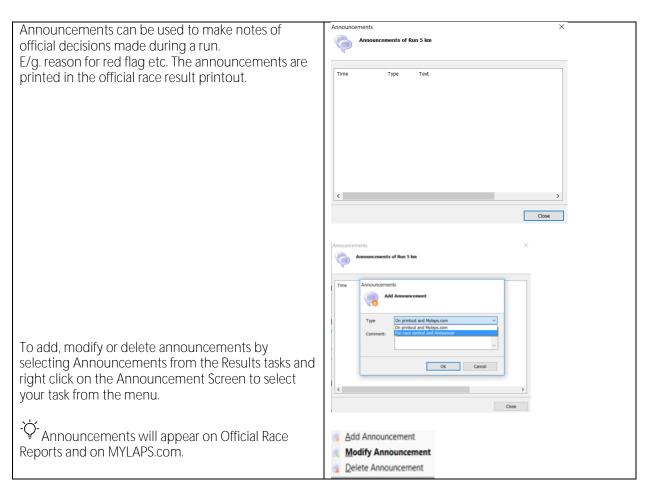
# 6.2. starting sequence







### 6.3. Announcements





### 6.4. Penalties/Corrections

You can add a penalty or correction to a competitor. Click on right to add, modify or delete a penalty/correction.

Penalties of Run 5 km

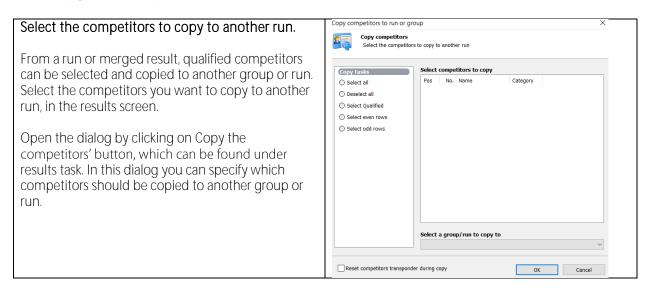
Penalties of Run 5 km

Penalties of Run 5 km

No. Name Best Tm Laps Total Tm Finish time Pos Points

Close

# 6.5. Copy the competitors



### Prime tasks

# 6.6. Assign bonus seconds/points

Points or bonus seconds can be assigned to competitors of a run. Select the prime at one of the categories, at the taskbar there are two new buttons, assign bonus seconds and assign bonus points. A dialog will appear and you can assign bonus points or seconds according to a scheme, this scheme can be used to assign values to a specific position.



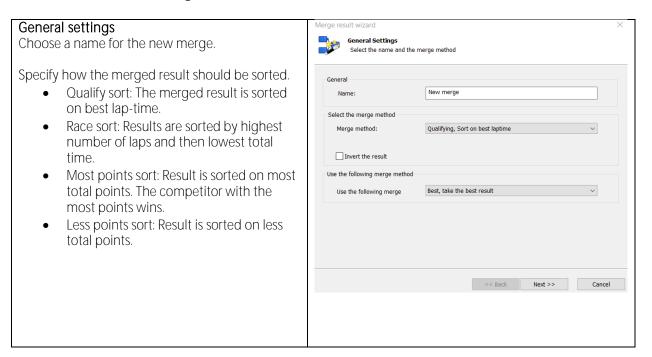


# Merged result tasks

# 6.7. Create a new merge (quick)

### Create a group to add the merge to Select a group to add the merge to Boys Boys U15 You merge groups, to have an overview of all competitors in a same category. e/g you want an overview of all runs in the category U15. Merge result wizard General Settings Select the name and the merge method Select the name and merge method. Choose a name for the new merge. Select how this merge should be sorted Qualifying, Sort on best laptime Select how this merge should be sorted: Select the runs or merges to merge: Qualifying, sort on best lap time Race, sort on laps and total time ■ Boys U15 ■ 0 10:00 PM - 5 km Most points sort Least points sort Select the runs or merges to merge and click on ok. Boys - New merge

### 6.8. Create a new merge





When you use **merge on points**, you can include a **specific tie solver**:

None: no specific tie solver included

**Qualifying:** in case of a tie it will look at the best lap time

Race: in case of a tie it will look at the number of laps and total time

### Invert the result

Check this button when you want to invert the result.

### Merge method

- Best, take the best result. (This is default setting for a merge sorted on best lap time)
- Average, calculates the average result.
- Sum, calculates the sum of the results.
   (This is default setting for a merge sorted on points or sorted laps)

Select all and click on next.

### Select the runs to merge

Select the runs that are going to be merged. By using the arrow buttons, runs can be added to the merge.

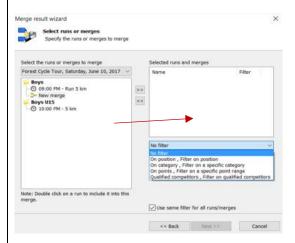
To delete a run from this merge, use the corresponding buttons.

### Results filter

The result filter allows you to exclude competitors from the merge. The following filters are available:

- On Position: Only include competitors in the merge that are in the specified range. (Minimum position, Maximum position)
- On Category: Only include competitors in the merge that are in the selected category.
- On Points: Only include competitors in the merge that are in the specified range. (Minimum position, Maximum position)
- Qualified: Only include qualified competitors in the merge.

To specify a filter on a result, select a run or merge from the list and choose the filter from the choice list. Check 'Use same filter for all' if you want to apply the filter for all runs in the merge.





### Qualification requirements

This property indicates how competitors can qualify for the merged result.

### The possibilities are:

- None: All competitors appear on the result.
- On best lap time: When selected, you can specify a percentage. To appear on the results, a competitor must achieve a lap time of no more than the specified percentage of the best lap time. This only applies to merges sorted on best lap time.
- On average best lap time of top x: When selected, you can specify a percentage.
   To appear on the results, a competitor must achieve a lap time of no more than the specified percentage of the best lap time. This only applies to merges sorted on best lap-time.
- Maximum number of competitors: When selected, you can specify a position. All competitors from the specified position down do not qualify. This applies to race as well as practice results.

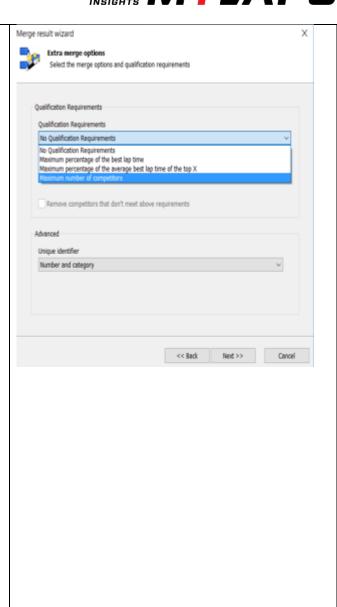
Keep not qualified competitors in the merge

If you apply a Qualification Requirement on this merge, not qualified competitors will appear on the merged result. If this option is off, a not qualified competitor will not appear on the result.

### Unique Identifier

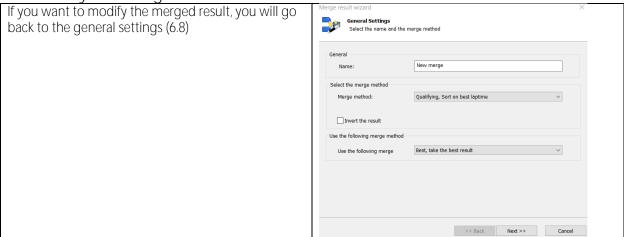
This is used to identify competitors with the same information in the selected field.

Select all details and click on finish.





6.9. Modify the merged result

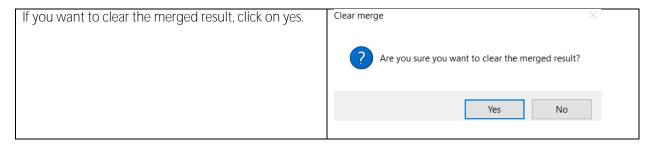


# 6.10. Calculate the merged result

A merged result can be calculated after all runs are finished (and points are assigned).

The merged result is not automatically updated when the result of one of the run changes. Click on 'Calculate merged result' to apply the changes.

# 6.11. Clear merged results





### Publish tasks

# 6.12. Export results to file

### Export result wizard Export results to a text, csv or HTML file Export results Export results to a text, csv or HTML file The results can be exported in three different formats: txt file: The results are exported to a tab delimited text file. Ourrent selected columns csv file: The results are exported to a comma delimited text file. Qualifying columns Show category column html file: The results are exported to a html Show points column file. << Back Next >> Cancel

# 6.13. Export lap times to file

Exporting lap times to TXT, CSV or HTML. To export the lap times of a run, click on Export lap times to file, which can be found under Publish tasks. Now the wizard will guide you through this process.

### The lap times file can be exported in three different formats:

- txt file; The lap times are exported to a tab delimited text file.
- csv file: The lap times are exported to a comma delimited text file.
- html file: The lap times are exported to a html file.

### Section Info

This will export the section times per lap.

### Passing Info

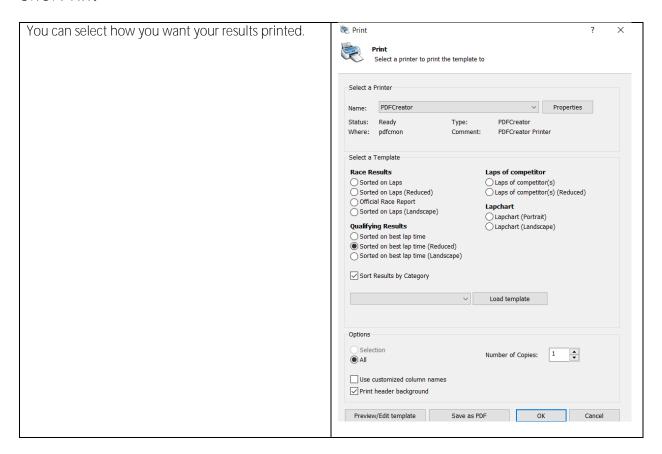
This will export the passing info

### 6.14. Export points for championship





### 6.15. Print





# View tasks 6.16. Hide Course chart

Show course chart

Hide course chart

The Course Chart is a graphical presentation of competitors that are on the course. Each box represents a competitor and displays the following information:

The bike number or initials

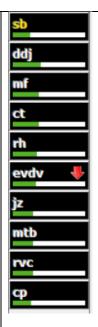
The expected time. This bar will update during the lap. If a competitor is expected to pass start finish the bar will be 100 % green. When a competitor is running late, the green bar will become red. This is an indication that the competitor is in a slow lap, or that he is out of the race.

Result marker, this can be red or green. If it is grey, the competitor is not active anymore. The Course Chart can be sorted in 4 ways.

On course position: This shows the order in which the competitors have passed the detection loop in the last completed lap. The leader is the first competitor.

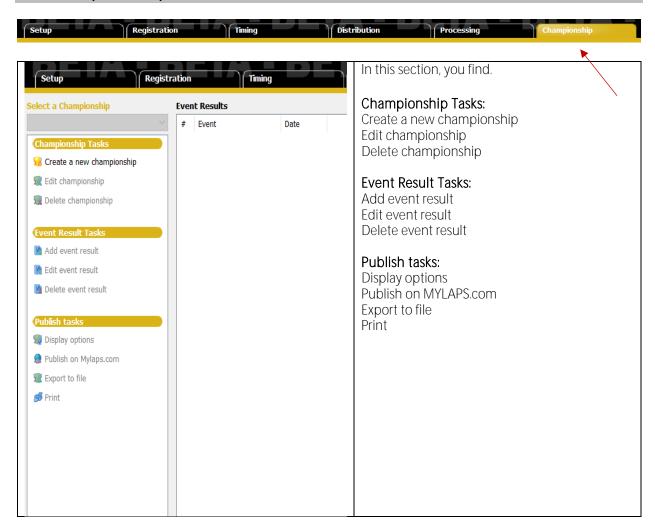
- On result: This shows the order based on the current run results.
- On car number: Competitors are sorted on starting number.
- On expected time: This shows the order in which competitors are expected to pass start finish. The competitor at the top is expected first.

To select the sorting option, right click in the Course Chart screen and choose the desired option.





# 7. Championship





# Championship tasks

# 7.1. Create a new championship

Orbits Cycling organizes the championship per season. The selected championship is displayed on the top of the screen.

A championship consists of many events. Combined these events will form a championship. There is no limit on the number of events per championship

# Click on create a new championship Fill in all details.

### General

Name Season

### How should the championship be sorted?

Here you can choose how the championship should be sorted. There are two options:

**Most points**: The championship will be sorted on most points.

**Least points:** The championship will be sorted on least points.

### In case of a tie - Tie solver

In case of a tie-on points Orbits offers the following Tie solvers:

Most 1, 2, 3 places per run: The competitor with the most 1<sup>st</sup> places will win. In case this is the same, it will look to the most 2<sup>nd</sup> places. Etc. It will look at the run results.

Most 1, 2, 3 places per event: The competitor with the most 1<sup>st</sup> places will win. In case this is the same, it will look to the most 2<sup>nd</sup> places. Etc. It will look at the event results

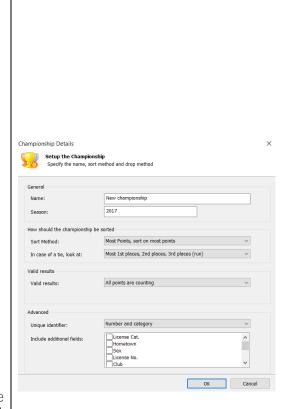
**Result of last run:** The competitor with the best result in the last run will win.

**Result of last event:** The competitor with the best result in the last event will win.

**Points of all events:** The competitor with the best points for an event will win

Points of last event: The competitor with the best amount of points in the last event will win Points of last run: The competitor with the best

amount of points in the last run will win





### Valid results

In case of a tie-on points Orbits offers the following Tie solvers:

All points are counting: The competitor with the most 1st places will win. In case this is the same, it will look to the most 2nd places. Etc. It will look at the run results

**Maximum number of valid runs:** Specify how many runs are counting for the championship. The program will drop the worst result if a competitor appeared in more runs than specified.

Maximum number of valid events: Specify how many runs are counting for the championship. The program will drop the worst result if a competitor appeared in more events then specified.

Advanced

Unique identifier

You can select on:

Number and category Competitor registration code

Name

### Include additional fields

Select the fields you want to sort on.

# 7.2. Edit championship

You can edit your championship in the same screen.

7.3. Delete championship





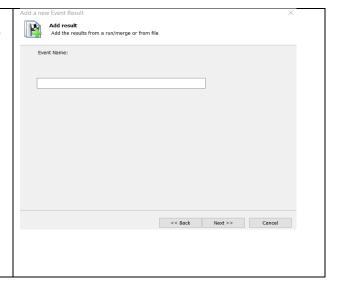
# Event result Task

# 7.4. Add Event results You can add event results Add result Add the results from a run/merge or from file Use points from a result Load the points from file Manually enter the points. Use the points from a run or merge that counts for the championship Load the points from a results file that is exported from another computer O Manually enter the points << Back Next >> Cancel Use points from a result Add result Add the results from a run/merge or from file When this option is selected you need to specify which run or result is counting for the championship. Select a run or merge: Select the run or merge and click next. The points Ronde van Zandvoort, Saturday, August 12, 2017 Noys 11:30 AM - Kwalificatie U21 11:30 AM - wedstrijd 1 10:00 PM - wedstrijd 2 50 Boys wedstrijd 1 en 2 6irle 10:30 AM - kwalificatie U21 10:30 AM - kwalificatie U21 12:00 PM - wedstrijd 1 01:30 PM - wedstrijd 2 will now be added to the championship << Back Next >> Cancel Load the points from file. Add a new Event Result When this option is selected you need to select the Add result Add the results from a run/merge or from file file that contains the points for the championship. Click on next to import the file and add the points to the championship. Browse << Back Next >> Cancel



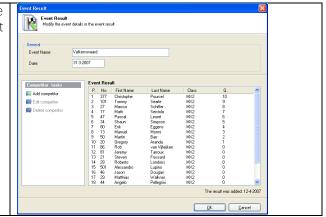
## Manually enter the points.

When this option is selected you need to specify the name of the event. Click on next to manually enter the results of the event.

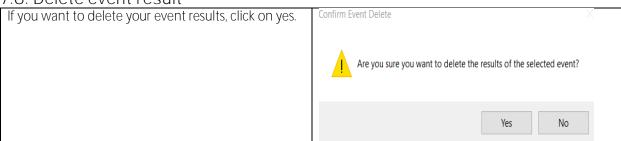


## 7.5. Edit event result

After a result is added to the championship. Select the event from the Event List and click on 'Edit event result' which can be found under Event Result Tasks.



## 7.6. Delete event result





## Publish tasks

## 7.7. Display Options

Display options

How should the championship be displayed?

### Select the layout:

Points per event

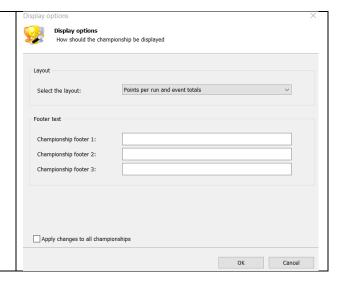
Points per run

Points per run and events totals.

#### Footer text

The text that should be displayed on the footer of the printouts.

In the event footer, you can add of the organizer, timer, date etc.



### 7.8. Publish on MYLAPS.com

To upload your championship standings results to MYLAPS.com, click the Upload to MYLAPS.com button

Now the 'Upload Championship' screen will guide you through this process.

An internet connection is required to publish the championships.

### Login on MYLAPS.com

To use the MYLAPS.com service you must login with the username and password of your MYLAPS.com account. The championship standings will be displayed under this account.

#### Username

Enter the username which is associated with your organization account.

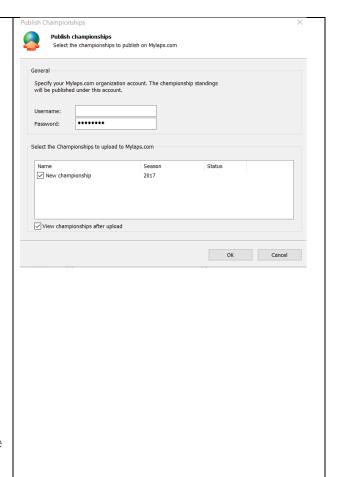
### Password

Enter the password of your organization account.

#### Select the championships to upload

Select the championships you want to publish on MYLAPS.com.

Finally click on Ok to upload the championships. The program makes a connection with the MYLAPS.com server. Once the connection is made the championships are automatically uploaded.





## 7.9. Export to file

The championship standings can be exported to a HTML file. To export the championship standings, click on 'Export to file'. Select the location where you want to save the championship.

## 7.10. Print

The Orbits Cycling program has three pre-defined templates for printing the championship standings. To print the championship, click on 'Print'

## Available layouts

**Points per event:** The program will print a column for each event in the championship.

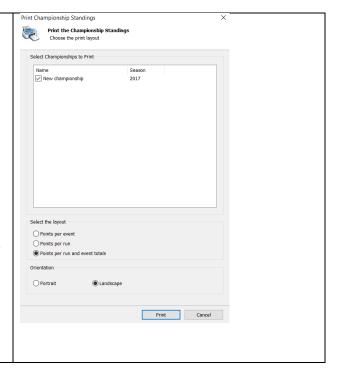
**Points per run:** The program will print a column for each run in the championship.

**Points per run and event totals:** The program will print a column for each run in the championship. It will also print the totals per event.

#### Orientation Portrait:

The championship standings will be printed portrait. Choose this option when you have more than 40 competitors in the championship.

Landscape: The championship standings will be printed landscape. Choose this option when there are many events in the championship



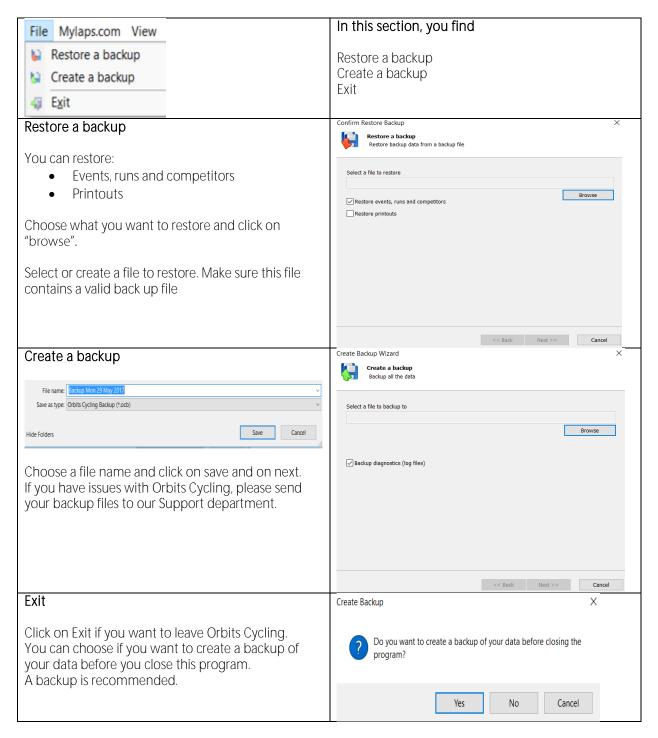


## 8.Taskbar

### 8.1. File

File Mylaps.com View Tools Help

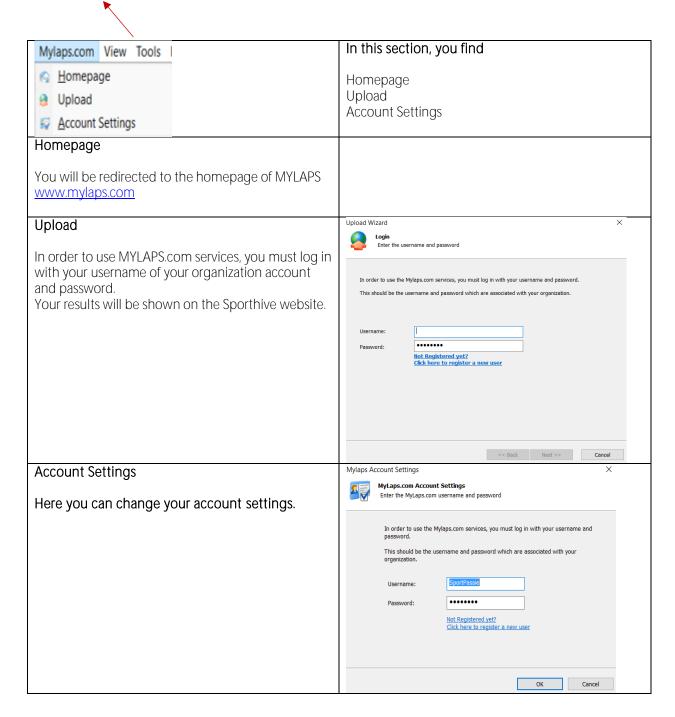






## 8.2. Mylaps.com

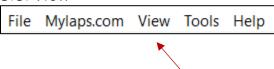




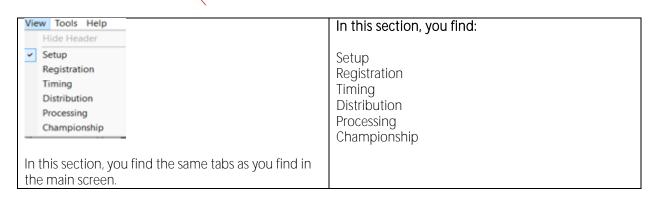


## 8.3. View

Setup



Registration



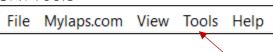
Distribution

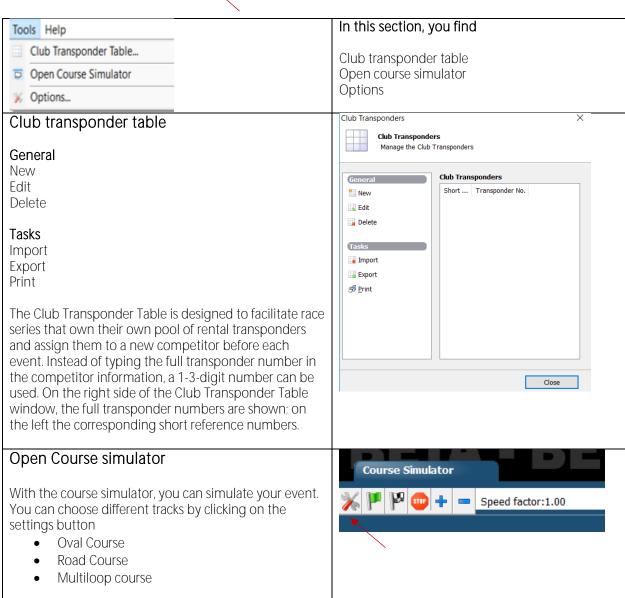
Processing

Championship



### 8.4. Tools







# Course Simulator Settings Select: Course Simulator options Specify the simulation settings Parameters: • Number of competitors Race parameters No. competitors Number of laps 100 Number of laps Retire percentage Course type Oval course Oval course Roade course O Road course Multiloop course Multiloop course Options Click if you use photo cells. Use photocells OK Cancel Oval course



Road course Multiloop race



## Green Flag

If you click on the green flag, the racers will race on the simulation screen.

## Finsh Flag

If you click on the finish flag the racers will start again

## Stop

If you click on stop the racers will stop. If you click again, the racers will continue.

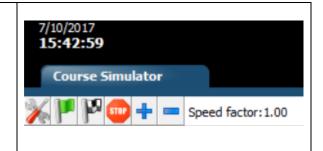
#### + and -

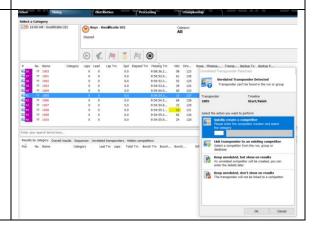
You can change the level of speed; 0.25/0.50/1.0/2.0/4.0

## If you simulate your course, all details will show.

If you have an unrelated transponder detected, you can select the following actions:

Quickly create a new competitor
Link transponder to an existing competitor
Keep unrelated, but show on results
Keep unrelated, don't show on results.







## **Options**

## In this section, you change the settings of:

General

Formatting style

Timing

Run defaults

Category defaults

Endurance features

An overview of the basic settings

#### General:

You can add data field names

## Formatting style:

## Results formatting style

- Default
- UCI
- Australia

### Truncate times, show up to:

Thousandths, hundredths, tenths, seconds, minutes, hours.

### Timing:

## You can mark riders that did not finish (DNF)

- Mark as DNF
- Mark as DNF and move to the bottom

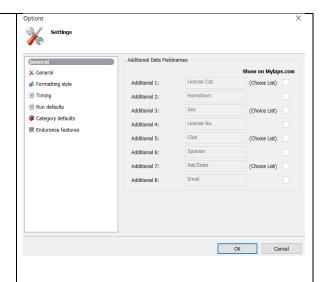
## In case of ties on best lap, look at

- The second-best lap times.
- Who sets the best lap time first.

Enable bunch finish time (timing and merging)

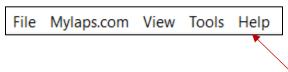
In Run defaults, category defaults, you can edit the run and category.

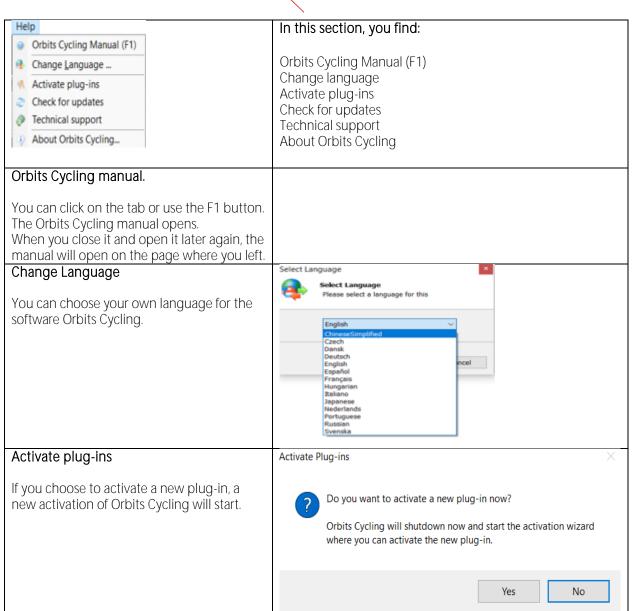
You can enable endurance features.



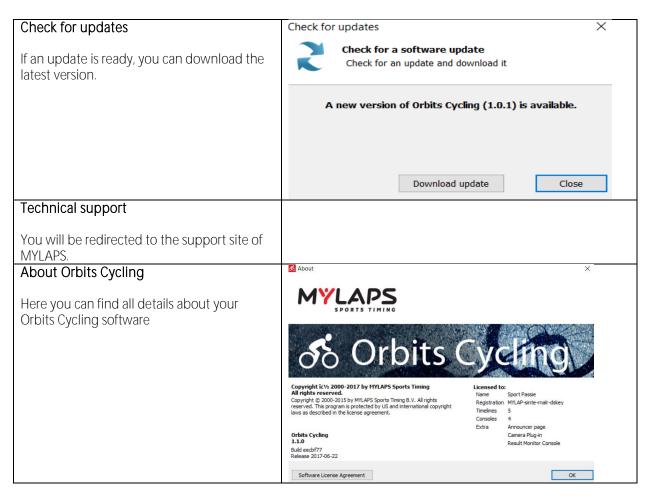


## 8.5. Help











## 9.Appendices

## 9.1. Appendix A - Photocells

For backup purposes photocells and manual time keeping can be used. The photocells can be connected to the decoder. The decoder is triggered each time the light beam of the photocell is interrupted. The transponder and photocell inputs can be related to each other. Note that in Orbits the transponder system is used as primary system and therefore the transponder time is taken for timing and scoring.

When the hardware system is set up properly, the detection loop is located before the actual finish line, in that way that the transponder is in the middle of the detection loop when the front of the vehicle is crossing the finish line.

For a correct match of transponder- and photocell passing times (lap times are not affected) the photocell should be positioned at the finish line. When positioning of the photocells is not possible, the extra time difference should be calculated in the maximum transponder, photocell time separation. Make sure that when the photocells are installed, the batteries are full and that the photocells are aligned and switched on.

### Setting Photocell delay

Each photocell transmitter is equipped with a selector switch for setting the photocell delay. This time defines the maximum interval between two interruptions of the light beam that will be considered as one interruption. This setting is, among others, to avoid multiple interruptions of the light beam generating multiple photocell hits.

#### Connecting Photocells to the decoder

Photocells are connected via a MYLAPS photocell interface cable to the auxiliary port of the MYLAPS decoder. Please refer to the hardware manual of your system for the exact pin specification of the auxiliary connector. For backup purposes photocells and manual time keeping can be used. The photocells can be connected to the decoder. The decoder is triggered each time the light beam of the photocell is interrupted. The transponder and photocell inputs can be related to each other. Note that in Orbits the transponder system is used as primary system and therefore the transponder time is taken for timing and scoring.

When the hardware system is set up properly, the detection loop is located before the actual finish line, in that way that the transponder is in the middle of the detection loop when the front of the vehicle is crossing the finish line.

For a correct match of transponder- and photocell passing times (lap times are not affected) the photocell should be positioned at the finish line. When positioning of the photocells is not possible, the extra time difference should be calculated in the maximum transponder, photocell time separation. Make sure that when the photocells are installed, the batteries are full and that the photocells are aligned and switched on.

#### Setting Photocell delay

Each photocell transmitter is equipped with a selector switch for setting the photocell delay. This time defines the maximum interval between two interruptions of the light beam that will be considered as one interruption. This setting is, among others, to avoid multiple interruptions of the light beam generating multiple photocell hits.

## Connecting Photocells to the decoder

Photocells are connected via a MYLAPS photocell interface cable to the auxiliary port of the MYLAPS decoder. Please refer to the hardware manual of your system for the exact pin specification of the auxiliary connector.



## 9.2. Appendix File Formats

#### Result file format

The exported results file contains the results of the competitors in the selected run.

## Record layout

Depending on the selected file type the output file has the following record layout:

Txt file: - FIELD - <TAB> - FIELD - <cr/>
Csv file: - FIELD - <COMMA> - FIELD - <cr/>
Csv file: - FIELD - <cr/>
- Comma> - FIELD - <cr/
- Comma> - FIELD - <cr/>
- Comma> -

Fields can be numeric or alphanumeric depending on the field. Fields separator is a comma "," (ASCII code 44 decimal) or a tab (ASCII code 9 decimal). Record separator is a carriage return (cr) plus linefeed(lf).

If you choose to export the selected columns the program will display the columns that are currently selected in the result screen.

## Record format for qualify columns (run only) Export format for a qualify result

Pos Finish position of the competitor, Numeric.

PIC Finish position of the competitor in his category, Numeric. (Only when show class

column is on)

No Bike number of the competitor, Maximum 4, Alphanumeric.

Name of the competitor, Alphanumeric.

Class Category of the competitor, Alphanumeric. (Only when Show class column is on)

Best Tm Best lap time of the competitor, Floating point with 3 decimal places.

Best Spd Average speed of best lap

In Lap Lap the best lap time was set, Numeric.

Differential time or laps of the competitor with the leader, Floating point with 3

decimal places or numeric.

Gap Differential time or laps of the competitor, Floating point with 3 decimal places or

numeric.

2<sup>nd</sup> Best Tm 2<sup>nd</sup> Best lap time of the competitor, Floating point with 3 decimal places.

2<sup>nd</sup> Best Spd Average speed of 2<sup>nd</sup> best lap

2<sup>nd</sup> In Lap Lap the 2<sup>nd</sup> best lap time was set, Numeric. Car Reg Bike registration number of the competitor

Additional Data 1 Additional data 1 of the competitor, Alphanumeric. Additional Data 2 Additional data 2 of the competitor, Alphanumeric.

Points Points the competitor received, Numeric. (Only when Show points column is on)

#### Sample

Pos-TAB>PIC<TAB>No<TAB>Name<TAB>Class<TAB>Best Tm<TAB>Best Spd<TAB>In Lap<TAB>Diff<TAB>Gap<TAB>2nd Best<TAB>2nd Spd<TAB>2nd Lap<TAB>Car/Bike Reg<TAB> Additional 1<TAB> Additional 2<TAB>Points<cr/>r/lf>



Record format for race columns (run only) Export format for a race result

Pos Finish position of the competitor, Numeric.

PIC Finish position of the competitor in his category, Numeric. (Only when show class column

is on)

No Bike number of the competitor, Maximum 4, Alphanumeric.

Name of the competitor, Alphanumeric.

Class Category of the competitor, Alphanumeric. (Only when Show class column is on)

Laps The number of laps of the competitor, Numeric.

Total Tm Total race time of the competitor, Floating point with 3 decimal places.

Differential time or laps of the competitor with the leader, Floating point with 3 decimal

places or numeric.

Gap Differential time or laps of the competitor, Floating point with 3 decimal places or

numeric.

Avg Spd Average speed of race

Best Im Best Iap time of the competitor, Floating point with 3 decimal places.

Best Spd Average speed of best lap

In Lap Lap the best lap time was set, Numeric.

Car Reg Bike registration number of the competitor

Additional Data 1 Additional data 1 of the competitor, Alphanumeric. Additional Data 2 Additional data 2 of the competitor, Alphanumeric.

Points Points the competitor received, Numeric. (Only when Show points column is on)

## Sample

Pos<TAB>PIC<TAB>No.<TAB>Name<TAB>Class<TAB>Laps<TAB>Total Tm<TAB>Diff<TAB>Gap<TAB>Avg. Speed<TAB>Best Tm<TAB>Best Spd<TAB>In Lap<TAB>Car/Bike Reg<TAB>Additional 1<TAB>Additional 2<TAB>Points<Cr/>If>

### Record format for qualify columns (merge only) Export format for a merged qualify result

Pos Finish position of the competitor, Numeric.

No Bike number of the competitor, Maximum 4, Alphanumeric.

Name of the competitor, Alphanumeric.

Class Category of the competitor, Alphanumeric. (Only when Show class column is on)
Overall Best Tm Overall best lap time of the competitor, Floating point with 3 decimal places.

In session The name of the session the best lap time was set.

For each session in the merge the following column(s) will be included

Best Tm

Best lap time of the competitor in this session, Floating point with 3 decimal places.

2nd Best Tm

Best lap time of the competitor in this session, Floating point with 3 decimal places.

Car Reg Bike registration number of the competitor

Additional Data 1 Additional data 1 of the competitor, Alphanumeric. Additional Data 2 Additional data 2 of the competitor, Alphanumeric.

Points Points the competitor received, Numeric. (Only when Show points column is on)

#### Sample with 3 runs in the merge

Pos<TAB>No.<TAB>Name<TAB>Class<TAB>Overall BestTm<TAB>In Session<TAB>Best: Run 1<TAB>2nd: Run 1<TAB>Best: Run 2<TAB>Best: Run 2<TAB>Additional 1<TAB>Additional 2<TAB>Points<cr/>Cr/lf>



Record format for race columns (merge only) Export format for a merged race result

Pos Finish position of the competitor, Numeric.

No Bike number of the competitor, Maximum 4, Alphanumeric.

Name Name of the competitor, Alphanumeric.

Class Category of the competitor, Alphanumeric. (Only when Show class column is on)

Laps The number of laps of the competitor, Numeric.

Total Tm Total race time of the competitor, Floating point with 3 decimal places.

In Session Session where the result was set

For each session in the merge the following column(s) will be included

Laps The number of laps of the in the specific run/merge, Numeric.

Car Reg Bike registration number of the competitor

Additional Data 1 Additional data 1 of the competitor, Alphanumeric. Additional Data 2 Additional data 2 of the competitor, Alphanumeric.

Points Points the competitor received, Numeric. (Only when Show points column is on)

### Sample with 3 runs in the merge

Pos<TAB>No.<TAB>Name<TAB>Class<TAB>Laps: Run 1<TAB>Laps: Run 2<TAB>Laps: Run 3<TAB>Car/Bike Reg<TAB>Additional 1<TAB>Additional 2<TAB>Points</ri>

### Point columns for points (merge only) Export format for a merged point result

Pos Finish position of the competitor, Numeric.

No Bike number of the competitor, Maximum 4, Alphanumeric.

Name of the competitor, Alphanumeric.

Class Category of the competitor, Alphanumeric. (Only when Show class column is on)

Total Points Total points, Numeric.

For each session in the merge the following column(s) will be included

Points Points for this session, Numeric.

Car Reg Bike registration number of the competitor Additional Data 1 Additional Data 2 Additional data 2 of the competitor, Alphanumeric.

Points Points the competitor received. Numeric. (Only when Show points column is on)

### Sample with 3 runs in the merge

Pos<TAB>No.<TAB>Name<TAB>Class<TAB>Total Points <TAB>Points: Run 1<TAB>Points: Run 2<TAB>Points: Run 3<TAB>Car/Bike Reg<TAB>Additional 1<TAB>Additional 2<TAB>Points

#### Competitor file format

The competitor file contains competitors from a run, group or from the database.

#### Record layout

Depending on the selected file type the output file has the following record layout:

Txt file: - FIELD - <TAB> - FIELD - <cr/>Csv file: - FIELD - <COMMA> - FIELD - <cr/>/IF>

Fields can be numeric or alphanumeric depending on the field. Fields separator is a comma "," (ASCII code 44 decimal) or a tab (ASCII code 9 decimal). Record separator is a carriage return (cr) plus linefeed(If). Alphanumeric data is started and ended with quotes. The first line of the export file contains the header information.



## Record format for competitor

No Bike number of the competitor, Maximum 4, Alphanumeric.

Class Category of the competitor, Alphanumeric. (Only when Show class column is on)

First name First name of the competitor, Alphanumeric. Last name Last name of the competitor, Alphanumeric.

Car Reg Car registration number of the competitor, Alphanumeric.
Driver Reg Driver registration number of the competitor, Alphanumeric.
Transponder 1 1st transponder number, can be numeric or Alphanumeric.
Transponder 2 2nd transponder number, can be numeric or Alphanumeric.

Additional Data 1 Additional data 1 of the competitor, Alphanumeric. Additional Data 2 Additional data 2 of the competitor, Alphanumeric. Additional data 3 of the competitor, Alphanumeric. Additional Data 3 Additional data 4 of the competitor, Alphanumeric. Additional Data 4 Additional data 5 of the competitor, Alphanumeric. Additional Data 5 Additional Data 6 Additional data 6 of the competitor, Alphanumeric. Additional data 7 of the competitor, Alphanumeric. Additional Data 7 Additional Data 8 Additional data 8 of the competitor, Alphanumeric.

## Sample

"No"<TAB>"Class"<TAB>"FirstName"<TAB>"LastName"<TAB>"CarRegistration"<TAB>"DriverRegistration"<TAB>"Transponder1"<TAB>

## Groups and Runs file format

The groups and runs file contains competitors from a run, group or from the database.

The 3<sup>rd</sup> party import allows 3<sup>rd</sup> party software to import groups runs and competitors via an XML file. The XML file should be utf-8 encoded.

The following sections describe how the XML file should be formatted.

#### Prolog

The XML file should be preceded by the following prolog.

<?xml version="1.0" encoding="utf-8"?>

<sup>&</sup>quot;Transponder2"<TAB>"Additional1"<TAB>"Additional2"<TAB>"Additional3"<TAB>"Additional4"<TAB>"Additional6"<TAB>

<sup>&</sup>quot;Additional7"<TAB>"Additional8<cr/lf>"



## XML basic structure

The XML document should contain the "groups" root node and the attributes listed below.

Elements	Description	Number
groups	The root element	1
group	Group	0*
competitors	Group of competitors	1
runs	Group of runs	1
run	Run element, a practice, qualify or race	0*
competitor	Competitor, a participant	0*

### Example:

```
<groups>
<group name="MX1" description="test">
        <competitors>
                <competitor no="12" class="MX1" registration="033133"/>
                <competitor no="19" class="MX1" registration="033153"/>
        </competitors>
        <runs>
                <run name=" Free Practice" date="12-03-2009" time=" 16:00"/>
        <competitors>
                <competitor no="12" class="MX1" registration="033133"/>
                <competitor no="19" class="MX1" registration="033153"/>
        </competitors>
                <run name=" Qualify" date="12-03-2009" time=" 17:00"/>
                <run name=" Race" date="12-03-2009" time=" 17:00"/>
        </runs>
</group>
</groups>
```

#### Notes

For groups and runs, the name is the unique identifier. For competitors, the driver registration code is the unique identifier.

This means that if a group is imported already exists in the selected event, the program will update the group instead of creating a new one. The same applies for runs and competitors.

### Attribute explanation

name	Bold	Means Unique identifier
name	Normal	Means Required field
name	Italic	Means optional field



Element	Attributes	Values	Description	Example
group	name	string	The name of the group	MX1
	description	string	Description of the group	All MX1 sessions
run	name shortname	string string	The name of the session The venue (or short name) of the	10cc practice 10p
	date	date (yyyy-mm-	session	2009-01-01
	time	dd)	The date the session starts	12:00
	type	time (hh:mm)	The time the session starts	qualify
		options.	The type of session	
		practice,	Practice session	
		singlecarqualify,	Single car qualifying session	
		qualify, race	Qualifying session Race session	
	startmethod	race	Nace session	flag
	Startifictifica	options.	Session start method	nag
		flag,	Start race on the green flag	
		firstpassing,	Start the race on the first S/F	
	minimumlaptime	staggered	passing	01:00
	countfirst	time (mm:ss)	Staggered start	none
		options.	The minimum lap time	
		none,	Count first passing as	
	standackrad	lap,	Do not count first passing on S/F	truo
	stopclockred countlapsred	laptimefromgreen boolean	Count first passing Count lap time from green flag to	true false
	copyfromgroup	boolean	first passing on S/F	true
	autofinishmethod	boolean	Stop the race clock during red	timeorlaps
		options.	flag if true	
		none	Count laps during red flag if true	
		time	Copy competitors from group in	
		laps	case of unrelated transponders	
		timeandlaps	Auto finish after	
		timeorlaps	Don't use auto finish	00.15.00
	autofinishtime	individualontime individualonlaps	Completing race time (of leader) Completing a number of leader	00:15:00 10
	autofinishlaps	time (hh:mm:ss)	laps	max-positions
	qualificationtype	integer	Completing race time and a	παλ ροσποπο
	7	options.	number of laps	
		none	Completing race time or a	
		max-position	number of laps	
		max-best-laptime	Completing individual race time	
		max-avg-best-	Completing a number of	
		laptime	(individual) laps The race time of this session	
		min-laptime min-leader-laps-	The race distance of this session	
	qualificationvalue	up	1116 1466 GISTAILICE OF THIS 353310H	107,3
	gaameattorivalae	min-leader-laps-	Don't use the qualification type	107
		down	Max. Number of competitors (all	
		min-laps	sessions types)	
		string	Max. percentage of best lap time	
			(practice, qualify)	
			Max. percentage of avg. best lap	
			time top x (practice, qualify)	



			Minimum lap time (practice, qualify) Min. percentage of total leader laps rounded up (race) Min. percentage of total leader laps rounded down (race) Min. number of laps (race) Depends on the qualification type: Time (mm:ss.nnn) in case of minlap time Number (%), number (top x) in case of max-avg-best-lap time Number (%, competitors, laps) for other requirement types	
competitor	no driverregistration registration class firstname lastname  points transponders drivers additional1 additional2 additional3 additional5 additional6 additional7 additional8	integer string string string string string integer list list string	The competitor number The unique driver registration The unique registration Competitor class Competitor first name (or team name in case of driver id) Competitor last name  The points of this competitor A comma separated list of transponders A comma separated list of drivers Free text field	1 123456 123456 Juniors John Doe 42 123456, AA- 12345 John Doe, Max



## 10. Support

In case you encounter any issues, please contact your sales offices:

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MYLAPS 24/7

Only in cases of direct needed support for event organizers and companies.

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