

2020

The Race Director

Timing Locations

[TIMING LOCATIONS]

This document the configuration of Race Director Timing Locations.

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Intro

A Timing Location is defined as a location on the race course where you have a chip reader or chip readers to collect split or finish results. Timing Locations setup is required for the starting line (if used), split points and the finish line. Understanding Timing Locations is very important when you have a complicated race. A race would be considered *complicated* if either of the following applies.

1. There are fewer timing locations than race segments. In this scenario, one or more of your timing locations will have multiple reads for each participant.
2. The number of splits differs from division to division. In other words, races where you use the setting "Segment Definitions Vary by Division" in Tailor -> Options on the Results 1 tab.

A multiple segment race where there is a one to one relationship between timing locations and race segments is considered a simple race. The only impact to these races will be that you need to define the same number of timing locations as you have segments and you must assign a unique timing location to each segment.

On the following pages, you will see some examples of different race setups where Timing Locations come into play.

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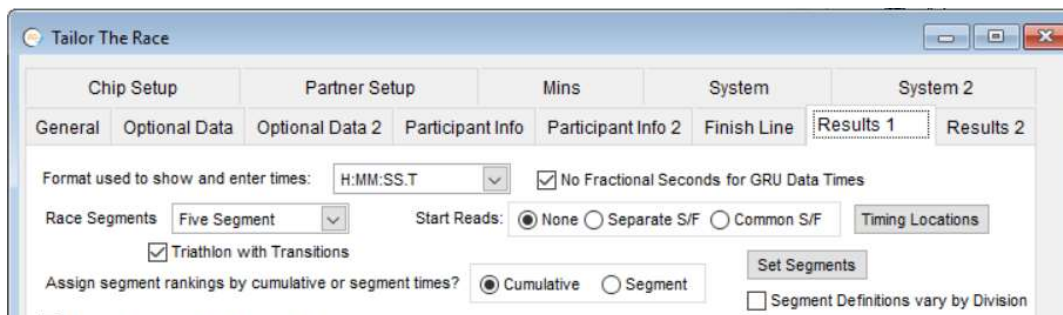
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Example 1

In a triathlon, it is very common to set up the race with 5 reporting segments (Swim, T1, Bike, T2, Run), but often there are fewer Timing Locations. A common setup for a triathlon is to have 3 Timing Locations - two to collect transition times and a third for the finish line. In this triathlon scenario, you would establish the race as a 5 segment race and you would create 3 Timing Locations.

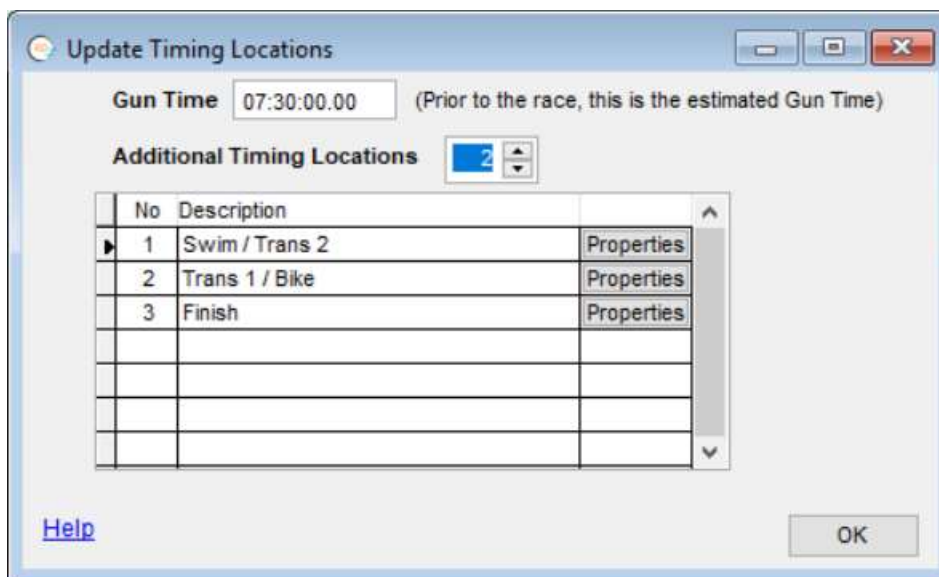
Race Setup

In Tailor -> Options, you will see a new button designed for the setup of the Timing Locations you will have in your race. In this race, we use "Segment Definitions Vary by Division", but only because the distance for each split varies by division.



Timing Location Setup

When you select the Timing Locations button, you will be presented with a screen where you will define the number of Timing Locations and their descriptions.



No	Description	
1	Swim / Trans 2	Properties
2	Trans 1 / Bike	Properties
3	Finish	Properties

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Using the Properties button, the attributes of each timing location can be set. You will only see a selection for the starting line if you set the start line option on the Results 1 tab to "Separate Start / Finish". Properties that can be set with each timing point include -

Occurrences - This defines the maximum number of passings per participant that will be collected at this location. In the example below, the "Swim / Trans 2" location will hold two results for each participant. All of the other Timing Locations will hold only a single result for each participant.

Gap Fact - This defines the minimum amount of time that must elapse between reads. In the case of the "Swim / Trans 2" location, there must be an elapse of at least 20 minutes between reads. A gap factor is only needed if the Occur Ct is 2 or more. When there are 3 or more occurrences, you can set a single gap factor (Same For All) or you can set a separate gap factor for each split (vary by split).

Collect After – You can set here the time of day (hours and minutes) that you consider this timing point "Live". Any reads collected before this time will be ignored. For the starting line properties, this will be titled "Collect Until" and any reads collected AFTER that time will be ignored.

Check Mat – Use this setting if the times collected at this location are not to be used in scoring. All reads imported for this timing location will be available for a special report just after you do the import. See Race Director Help for more information about how to use check mats.

Import Time Filters – if there are gaps of times where you know that recorded reads should be ignored, you can use this button to establish a grid of multiple time filter ranges.

Set Bib Ranges – If there are specific bib number ranges that you want ignored for this timing point, use this button. When you set the ranges, you'll be setting the bib numbers that are VALID for this timing location.

The screenshot shows a Windows-style dialog box titled "Timing Location Properties" with a subtitle "Swim / Trans 2". The dialog contains the following controls:

- Occurrences:** A numeric spinner box set to the value "2".
- Gap Factors:** Two radio buttons, "Same For All" (which is selected) and "Vary by Split". To the right is a text box containing "20:00".
- Collect After:** A label "HH:MM" above a text box containing "07:35".
- Check Mat:** An unchecked checkbox labeled "This is a Check Mat".
- Action Buttons:** Three buttons at the bottom: "Set Import Time Filters", "Set Bib Ranges", and "Close".

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Segment Setup

Whether you set up the segment definitions once for the entire race or if you set up the segment definition division by division, the setup screen is the same. The major change in new timing methods, is that you must define the Timing Location and Occurrence for each Segment. When you select a Timing Location that is defined as having more than one result occurrence, you must specify which occurrence is used for the segment you are defining. In the example below, the 2 transition area timing locations each have 2 passings for each participant.

Set up segments for situations like biathlons and triathlons where the race is made up of more than one component (segment).

Segment	Report Heading	Timing Location	Occurrence	Distance	Unit	Other Options
1	Swim	Swim / Trans 2	1	15.00000	Swim	
2	Tran 1	Trans 1 / Bike	1	0.00000	None	Skip on Results
3	Bike	Trans 1 / Bike	2	20.00000	Rate	Skip on Results
4	Trans 2	Swim / Trans 2	2	0.00000	Miles	Skip on Results
5	Finish	Finish	1	6.21371	Miles	

[Help](#)

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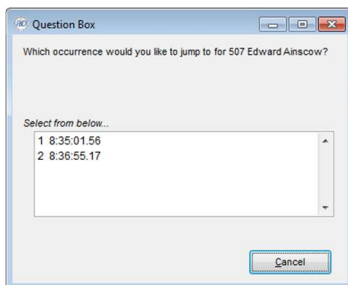
Results Entry

The example below is for a different race where there was a timing location for the bike finish and run start. The “Oc” column indicates which read the time is for.

Pos	Sys Time	Net Time	Wave Time	Bib	Oc	Name	Div
1	8:09:13.31	1:19:02.31	0:00.00	723	1	Tim Marr	2
2	8:10:01.48	1:19:50.48	0:00.00	746	1	Lars Finanger	2
3	8:10:24.14	1:20:13.14	0:00.00	723	2	Tim Marr	2
4	8:10:24.31	1:20:13.31	0:00.00	364	1	Brandon Hearn	20
5	8:11:12.38	1:21:01.38	0:00.00	746	2	Lars Finanger	2
6	8:15:44.70	1:21:32.70	4:01.00	579	1	Marcel Rinzier	13
7	8:16:56.16	1:18:44.16	8:01.00	289	1	Taylor Turner	2
8	8:17:05.66	1:22:53.66	4:01.00	579	2	Marcel Rinzier	13
9	8:17:30.13	1:27:19.13	0:00.00	383	1	Brendan Mims	2
10	8:18:06.51	1:27:55.51	0:00.00	417	1	Andy Baldwin	2
11	8:18:13.73	1:20:01.73	8:01.00	289	2	Taylor Turner	2
12	8:18:19.62	1:28:08.62	0:00.00	721	1	Cassio Debiassi	2
13	8:18:47.82	1:28:36.82	0:00.00	383	2	Brendan Mims	2
14	8:18:58.43	1:28:47.43	0:00.00	366	1	Peter Hickson	2

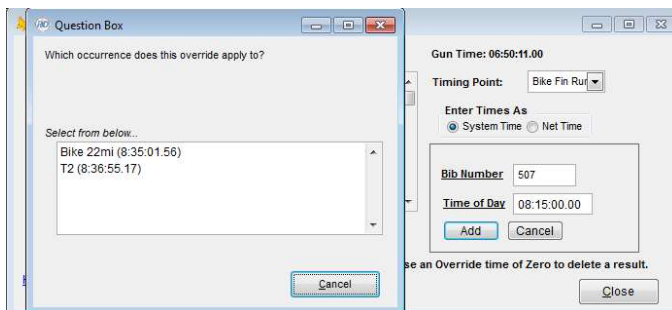
Participant Lookup

When you look up a specific participant and there are multiple reads, you'll be given an intermediate screen showing all of the results for that participant. In this example, we want to find bib number 507.



Overrides

When you enter an override and there are more than one occurrences for a participant for the Timing Location, you must specify which occurrence the override applies to.



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Example 2

In this example, there is a 5K Division and a 15K Division. This race has a common start line and a common finish line for both distances. The 5K is a single segment division - there are no splits, only a finish read. The 15K has 3 segments and uses a timing location that is crossed two different times - one for the 5K split and the second as the 10K split. The final read for the 15K will come from the finish line reader. So, there are 3 timing locations in this example – 1) start line reader to pick up start line reads for both distances, 2) split reader to pick up the 5K and 10K splits for the 15K race and 3) a finish line reader to pick up finish reads for both distances.

This race is set up for 3 Segments. This setting should always be based on the number of segments needed for the division that will have the largest number of splits. Since the segment definition is different for the 5K than it is for the 15K, it is important that the setting for this is checked. When checked, the Segment setup is not done on this screen at the Race level, instead the Segment setup is done in Tailor -> Divisions - once for each division. Notice that for this race we are also collecting start line reads.

Tailor The Race

Chip Setup Partner Setup Mins System System 2

General Optional Data Optional Data 2 Participant Info Participant Info 2 Finish Line Results 1 Results 2

Format used to show and enter times: H:MM:SS.T ☒ No Fractional Seconds for GRU Data Times

Race Segments: Three Segment Start Reads: ☐ None ☒ Separate S/F ☐ Common S/F Timing Locations

Assign segment rankings by cumulative or segment times? ☒ Cumulative ☐ Segment Set Segments

☒ Segment Definitions vary by Division

☐ Calculate Overall Time Back based on overall winners time, not top gender time

When you use this setting, you will see a change in Tailor -> Divisions where you configure the segments. Now, you establish the number of segments by division and only do setup for the number of segments indicated. In this example, the 15K needs 3 segments defined and the 5K has only 1.

Division Setup

Current Divisions

1 5k
2 15K
99 Unknown Finishers

(Click to select) Participant Count: 3 Browse

Division Number: 1 Short Name:

Division Name: 5k

Distance: 3.10686 ☒ Miles ☐ KM ☐ Rate

Event: Race Name Goes Here

Min Finish Time: Result ID:

How should age group descriptions default?
☒ Male / Female ☐ Men / Women ☐ Other

Setup Events

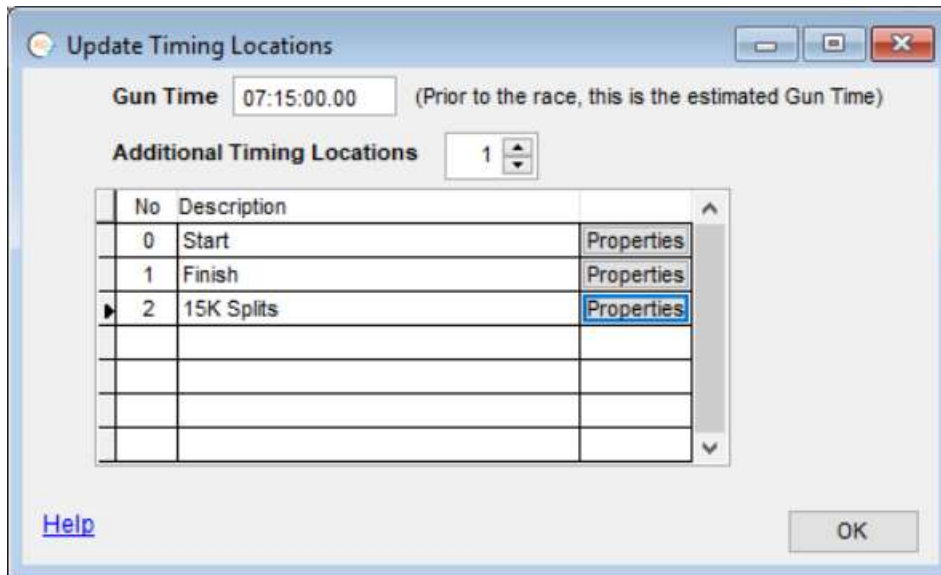
Update Age Groups...

Segments... Segment Count: 1

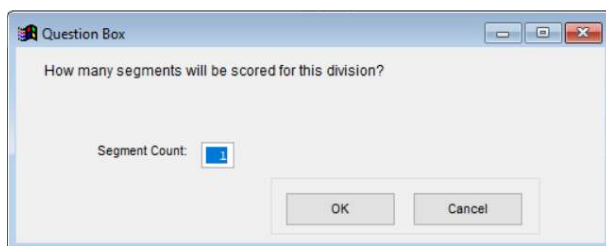
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But, the Timing Location setup is always done at the race level. Below is the Timing Location setup for this race. When you go to the properties for each location, the 5K Check has only a single passing. The 15K Split location is set up for two passings. The Finish location is set up for a single passing.



In Tailor Divisions, let's look at the differences when setting up the 5K and the 15K. When we select the 5K and use the "Segments" button, we'll get the prompt below. Since we only want to collect times for the finish, we'll indicate there is one timing location:



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The segment setup for the 5K is simple:

The screenshot shows the 'Segment Setup' dialog box. At the top, it says 'Set up segments for situations like biathlons and triathlons where the race is made up of more than one component (segment)'. Below this, the title '5k Segments' is centered. To the right of the title is a 'Copy' button. The dialog contains the following fields: 'Seq 1 Report Heading' with the value 'Finish', 'Timing Location' with a dropdown menu showing 'Finish', and 'Occurrence' with a spinner set to '1'. Below these is 'Distance of Segment 1' with a text box containing '3.10685' and a row of radio buttons for 'Miles' (selected), 'KM', 'Rate', 'Swim', and 'None'. At the bottom are 'Clear', 'Save', and 'Cancel' buttons, and a 'Help' link on the left.

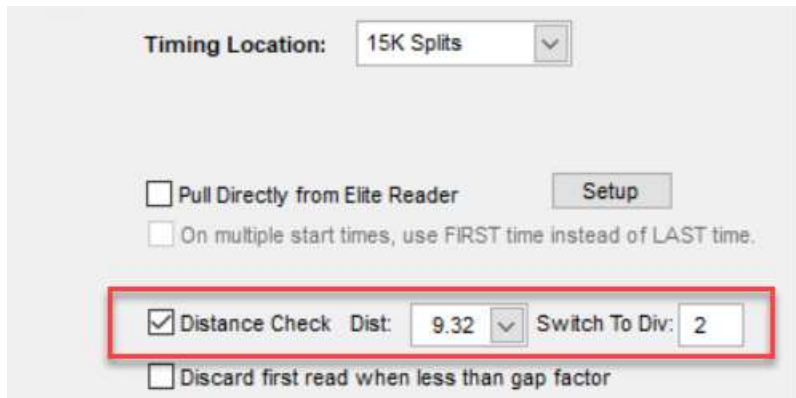
For the 15K, we'll do the setup for three segments. We're using occurrences 1 and 2 for the 5K split and the 10K split and we're using the first occurrence at the finish line for the finish split. Notice that segment distances are entered as the distance of the segment, not the cumulative distance at that specific split point.

The screenshot shows the 'Segment Setup' dialog box for a 15K race. The title is '15K Segments'. It contains three segment configurations. Segment 1: 'Seq 1 Report Heading' is '5K Split', 'Timing Location' is '15K Splits', 'Occurrence' is '1', 'Distance of Segment 1' is '3.10685', and 'Miles' is selected. Segment 2: 'Seq 2 Report Heading' is '10K Split', 'Timing Location' is '15K Splits', 'Occurrence' is '2', 'Distance of Segment 2' is '3.10685', 'Miles' is selected, and there is a 'Skip on Results' checkbox. Segment 3: 'Seq 3 Report Heading' is 'Finish', 'Timing Location' is 'Finish', 'Occurrence' is '1', 'Distance of Segment 3' is '3.10685', and 'Miles' is selected. The 'Clear', 'Save', and 'Cancel' buttons are at the bottom, and a 'Help' link is on the left.

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When we import results for the 15K Split Location, we have the Distance Check processing. With the setting below, we're saying that if the participant is not in a division where the distance is 9.32, they should be automatically switched to Division 2.



Timing Location: 15K Splits

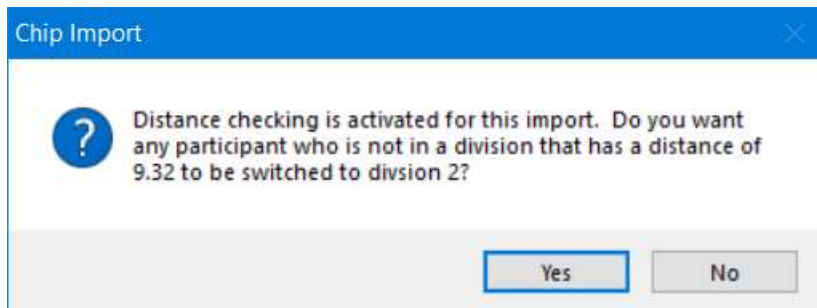
☐ Pull Directly from Elite Reader

☐ On multiple start times, use FIRST time instead of LAST time.

☒ Distance Check Dist: 9.32 Switch To Div: 2

☐ Discard first read when less than gap factor

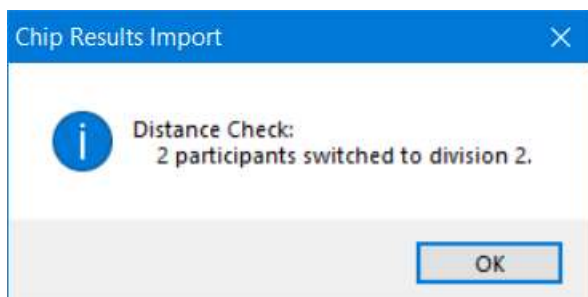
We get this prompt when importing the results for this Timing Location.



Chip Import

Distance checking is activated for this import. Do you want any participant who is not in a division that has a distance of 9.32 to be switched to division 2?

The result is shown below. You're also given the option of printing a report of everyone who was switched.



Chip Results Import

Distance Check:
2 participants switched to division 2.

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Direct Connect

If you are using Direct Connect to capture chip reads, there is a significant (but simple) impact there as well. Prior to this change, you needed to reference a segment name when mapping the results data to the reader. With the new timing methods, you are referring to a Timing Location when mapping to the results data. The sample screen below shows what this would look like for IPICO for the race described in Example 2 above. But, it's the same concept for MyLaps, RFID and Chronotrack.

