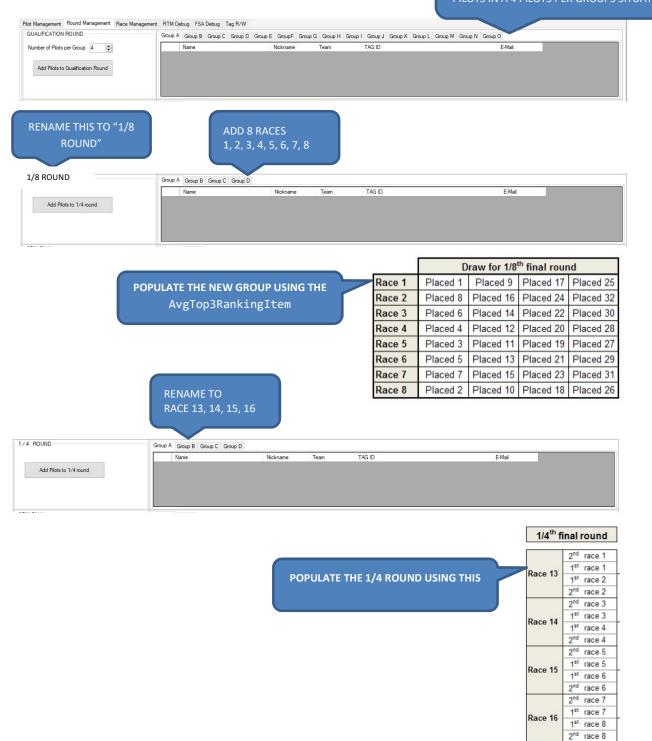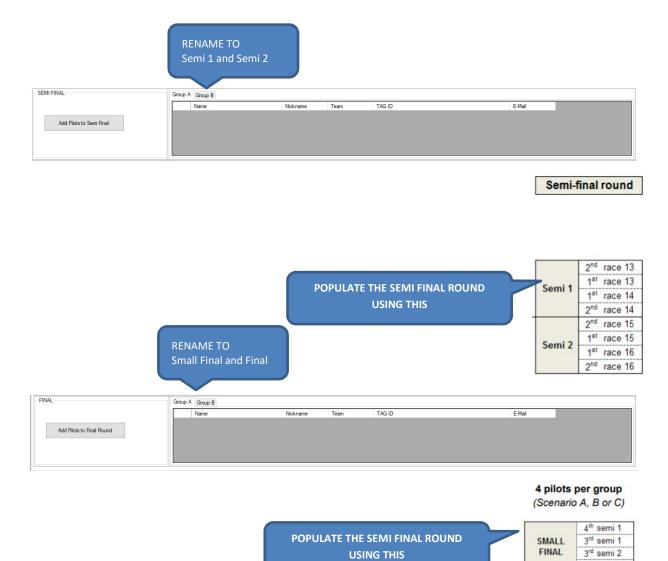**New tab for Round Management 1/8**

USE THE 26 LETTER OF THE ALPHABET FOR THE GROUPS THIS ALLOW TO A MAX OF 104 PILOTS IN A 4 PILOTS PER GROUPS SITUATION

Pilot Management | Round Management | Race Management | RTM Debug | FSA Debug | Tag R/W

QUALIFICATION ROUND

Number of Pilots per Group   4

Add Pilots to Qualification Round

Group A | Group B | Group C | Group D | Group E | GroupF | Group G | Group H | Group I | Group J | Group K | Group L | Group M | Group N | Group O

Name | Nickname | Team | TAG ID | E-Mail

RENAME THIS TO "1/8 ROUND"

ADD 8 RACES
1, 2, 3, 4, 5, 6, 7, 8

1/8 ROUND

Add Pilots to 1/4 round

Group A | Group B | Group C | Group D

Name | Nickname | Team | TAG ID | E-Mail

POPULATE THE NEW GROUP USING THE AvgTop3RankingItem

| Draw for 1/8th final round | | | |
|---|---|---|---|
| Race 1 | Placed 1 | Placed 9 | Placed 17 | Placed 25 |
| Race 2 | Placed 8 | Placed 16 | Placed 24 | Placed 32 |
| Race 3 | Placed 6 | Placed 14 | Placed 22 | Placed 30 |
| Race 4 | Placed 4 | Placed 12 | Placed 20 | Placed 28 |
| Race 5 | Placed 3 | Placed 11 | Placed 19 | Placed 27 |
| Race 6 | Placed 5 | Placed 13 | Placed 21 | Placed 29 |
| Race 7 | Placed 7 | Placed 15 | Placed 23 | Placed 31 |
| Race 8 | Placed 2 | Placed 10 | Placed 18 | Placed 26 |

RENAME TO
RACE 13, 14, 15, 16

1 / 4  ROUND

Add Pilots to 1/4 round

Group A | Group B | Group C | Group D

Name | Nickname | Team | TAG ID | E-Mail

POPULATE THE 1/4 ROUND USING THIS

| 1/4th final round | |
|---|---|
| Race 13 | 2nd race 1 |
| | 1st race 1 |
| | 1st race 2 |
| | 2nd race 2 |
| Race 14 | 2nd race 3 |
| | 1st race 3 |
| | 1st race 4 |
| | 2nd race 4 |
| Race 15 | 2nd race 5 |
| | 1st race 5 |
| | 1st race 6 |
| | 2nd race 6 |
| Race 16 | 2nd race 7 |
| | 1st race 7 |
| | 1st race 8 |
| | 2nd race 8 |

RENAME TO
Semi 1 and Semi 2

SEMI FINAL

Add Pilots to Semi Final

Group A | Group B

| Name | Nickname | Team | TAG ID | E-Mail |

**Semi-final round**

POPULATE THE SEMI FINAL ROUND USING THIS

| | |
|---|---|
| Semi 1 | $2^{nd}$ race 13 |
| | $1^{st}$ race 13 |
| | $1^{st}$ race 14 |
| | $2^{nd}$ race 14 |
| Semi 2 | $2^{nd}$ race 15 |
| | $1^{st}$ race 15 |
| | $1^{st}$ race 16 |
| | $2^{nd}$ race 16 |

RENAME TO
Small Final and Final

FINAL

Add Pilots to Final Round

Group A | Group B

| Name | Nickname | Team | TAG ID | E-Mail |

**4 pilots per group**
*(Scenario A, B or C)*

POPULATE THE SEMI FINAL ROUND USING THIS

| | |
|---|---|
| SMALL FINAL | $4^{th}$ semi 1 |
| | $3^{rd}$ semi 1 |
| | $3^{rd}$ semi 2 |
| | $4^{th}$ semi 2 |
| FINAL | $2^{nd}$ semi 1 |
| | $1^{st}$ semi 1 |
| | $1^{st}$ semi 2 |
| | $2^{nd}$ semi 2 |

IMPORTANT NOTE:

It best at this point to change the groups id to race number as are in the FAI rules, it easy to track then on the code and visualize then on the app.

In the qualification tab we maintain the groups, but after the qualification we change the groups name and id to Race 1, Race 2, …, Semi 1, Semi 2, Small final, final

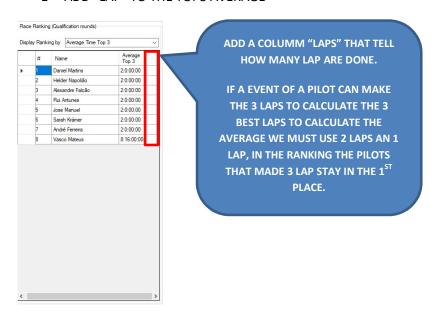**Update by renaming the groups to race in the Round Management 1/4**

| Pilot Management | Round Management | Race Management | RTM Debug | FSA Debug | Tag R/W |

**QUALIFICATION ROUND**

Group A | Group B | Group C | Group D | Group E | GroupF | Group G | Group H | Group I | Group J | Group K | Group L | Group M | Group N | Group O

Number of Pilots per Group  4

Name    Nickname    Team    TAG ID    E-Mail

[ Add Pilots to Qualification Round ]

**1/4 ROUND**

Group A | Group B | Group C | Group D

Name    Name    Team    TAG ID    E-Mail

[ Add Pilots to 1/4 round ]

**SEMI FINAL**

Group A | Group B

Name    Nickname    Team    TAG ID

[ Add Pilots to Semi Final ]

**FINAL**

Group A | Group B

Name    Nickname    Team    TAG ID    E-Mail

[ Add Pilots to Final Round ]

| Draw for 1/4th final round | | | | |
|---|---|---|---|---|
| Race 1 | Placed 1 | Placed 5 | Placed 9 | Placed 13 |
| Race 2 | Placed 4 | Placed 8 | Placed 12 | Placed 16 |
| Race 3 | Placed 3 | Placed 7 | Placed 11 | Placed 15 |
| Race 4 | Placed 2 | Placed 6 | Placed 10 | Placed 14 |

**4 pilots per group**
(Scenario A, B or C)

| SMALL FINAL | 4th semi 1 |
|---|---|
|  | 3rd semi 1 |
|  | 3rd semi 2 |
|  | 4th semi 2 |

| FINAL | 2nd semi 1 |
|---|---|
|  | 1st semi 1 |
|  | 1st semi 2 |
|  | 2nd semi 2 |

**Semi-final round**

| Semi 1 | 2nd race 1 |
|---|---|
|  | 1st race 1 |
|  | 1st race 2 |
|  | 2nd race 2 |
| Semi 2 | 2nd race 2 |
|  | 1st race 3 |
|  | 1st race 4 |
|  | 2nd race 4 |

IMPORTANT NOTE:

In the qualification tab we maintain the groups, but after the qualification we change the groups name and id to Race 1, Race 2, …, Semi 1, Semi 2, Small final, final

**Things TODO**

1- ADD "LAP" TO THE TOP3 AVERAGE



Race Ranking (Qualification rounds)

Display Ranking by [Average Time Top 3 ▼]

| | # | Name | Average Top 3 | |
|---|---|---|---|---|
| ▶ | 1 | Daniel Martins | 2:0:00:00 | |
| | 2 | Helder Napolião | 2:0:00:00 | |
| | 3 | Alexandre Falcão | 2:0:00:00 | |
| | 4 | Rui Antunes | 2:0:00:00 | |
| | 5 | Jose Manuel | 2:0:00:00 | |
| | 6 | Sarah Krämer | 2:0:00:00 | |
| | 7 | André Ferreira | 2:0:00:00 | |
| | 8 | Vasco Mateus | 8:16:00:00 | |

ADD A COLUMM "LAPS" THAT TELL HOW MANY LAP ARE DONE.

IF A EVENT OF A PILOT CAN MAKE THE 3 LAPS TO CALCULATE THE 3 BEST LAPS TO CALCULATE THE AVERAGE WE MUST USE 2 LAPS AN 1 LAP, IN THE RANKING THE PILOTS THAT MADE 3 LAP STAY IN THE 1ST PLACE.

2- Add the function Time Differential

| | TAG ID | ID Count | RSSI | Freq | LAP1 | LAP2 | LAP3 | Time Diff | Best Lap | Average | Avg Speed, m/s | Distance | Penalty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ▶ | 06 | 0 | | 0 | 0:00:26.567 | 0:00:26.567 | 0:00:26.567 | | 0:00:26.567 | 0:00:26.567 | 18.82 | | |
| | 07 | 0 | | 0 | 0:00:16.567 | 0:00:16.567 | DNF | | 0:00:16.567 | | 30.18 | | |
| | 08 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | |
| | 09 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | |

CALCULATE THE TIME DIFFERENTIAL, USING THE LAST LAP DISPLAYED AND THE PREVIOUS LAP. FOR EXAMPLE

LAP 2 = 28.654

LAP 3 = 26.568

TIME DIFF= -2.086

3 – Add a field laps

| | TAG ID | ID Count | RSSI | Freq | LAP1 | LAP2 | LAP3 | Time Diff | Best Lap | Average | Avg Speed, m/s | | Distance | Penalty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ▶ | 06 | 0 | | 0 | 0:00:26.567 | 0:00:26.567 | 0:00:26.567 | | 0:00:26.567 | 0:00:26.567 | 18.82 | | | |
| | 07 | 0 | | 0 | 0:00:16.567 | 0:00:16.567 | DNF | | 0:00:16.567 | | 30.18 | | | |
| | 08 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | | |
| | 09 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | | |

ADD THE FIELD "LAPS" THIS SHOW HOW MANY LAPS HAVE BEEN DONE

(THIS FIELD WILL BE RECORDED IN THE DB, IT WILL BE USED ON THE VIDEO OVERLAY FEATURE)

4 – Fix this 2 fields they are not working

| | TAG ID | ID Count | RSSI | Freq | LAP1 | LAP2 | LAP3 | Time Diff | Best Lap | Average | Avg Speed, m/s | Distance | Penalty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ▶ | 06 | 0 | | 0 | 0:00:26.567 | 0:00:26.567 | 0:00:26.567 | | 0:00:26.567 | 0:00:26.567 | 18.82 | | |
| | 07 | 0 | | 0 | 0:00:16.567 | 0:00:16.567 | DNF | | 0:00:16.567 | | 30.18 | | |
| | 08 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | |
| | 09 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | |

Note: I've not tested this on the reader, if you already fix it ignore this.

5 – Distance field

| | TAG ID | ID Count | RSSI | Freq | LAP1 | LAP2 | LAP3 | Time Diff | Best Lap | Average | Avg Speed, m/s | Distance | Penalty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ▶ | 06 | 0 | | 0 | 0:00:26.567 | 0:00:26.567 | 0:00:26.567 | | 0:00:26.567 | 0:00:26.567 | 18.82 | | |
| | 07 | 0 | | 0 | 0:00:16.567 | 0:00:16.567 | DNF | | 0:00:16.567 | | 30.18 | | |
| | 08 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | |
| | 09 | 0 | | 0 | 0:00:19.567 | 0:00:19.567 | 0:00:19.567 | | 0:00:19.567 | 0:00:19.567 | 25.55 | | |

For the distance field to be working integrated with the app, in a event of a crahs we need to input a value, assuming that the track as 300m, and 2 pilots crashed one at the 185m and other at 189m, we type this 2 values on the correspondent pilot field and the pilot that have the higher number will pass in front of the other

6 –Automatic update de DB every tag pass

7– Add button and function "Re-Flight"

IT'S NEED TO IMPLEMENT A NEW FUNCIOTN, CALLED "RE-FLIGHT" FOR EXAMPLE IN A EVENT OF A BIG CRASH THAT WE NEED TO INTERRUPT THE RACE, WE NEED TO START THE ROUND AGAIN AND SAVE THE NEW DATA TO THE DB, IMAGINE THAT WE ARE RUNING Q1 – GROUP B AND WE NEED TO STOCK THE RACE AND ALL PILOTS HAVE DONE 2 LAPS, IN A RE-FLIGHT SITUATION ALL THE INFO MUST BE DELETED FORM THE DB REGARDING THAT Q1 – GROUP B AND WE WILL REPEAT THE Q1 – GROUP B

IMPORTANT NOTE:

THERE IS PROABALY A BEST WAY AND SIMPLE WAY OF DOING THAT, IF YOU HAVE ANY IDEIA IT WILL BE GREAT