



LIVETRACKING FOR EVENTS & COMPETITIONS

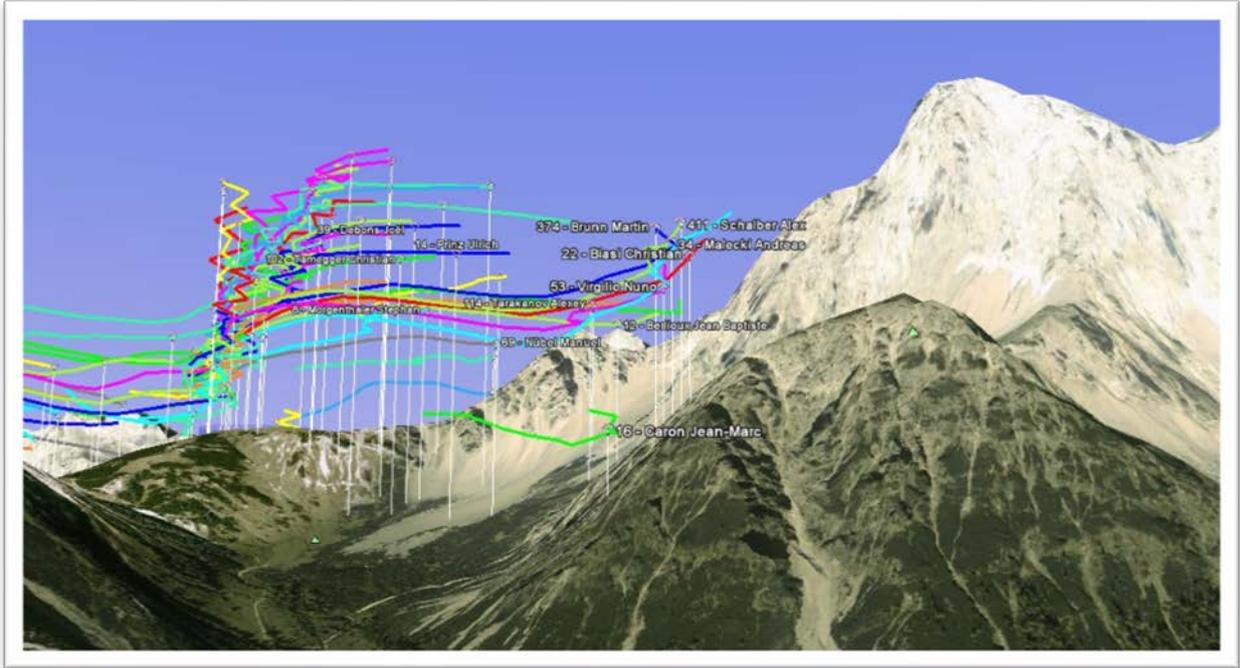


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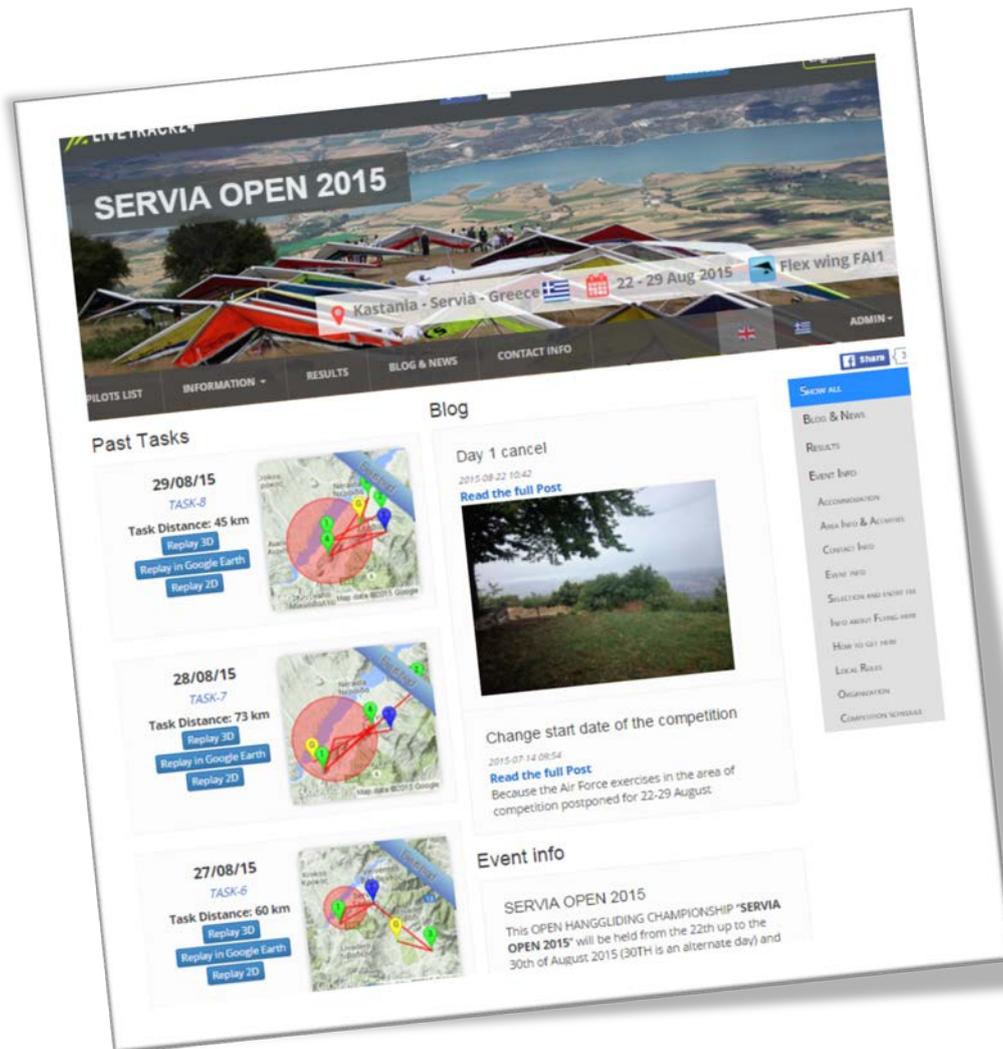
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1 PREFACE

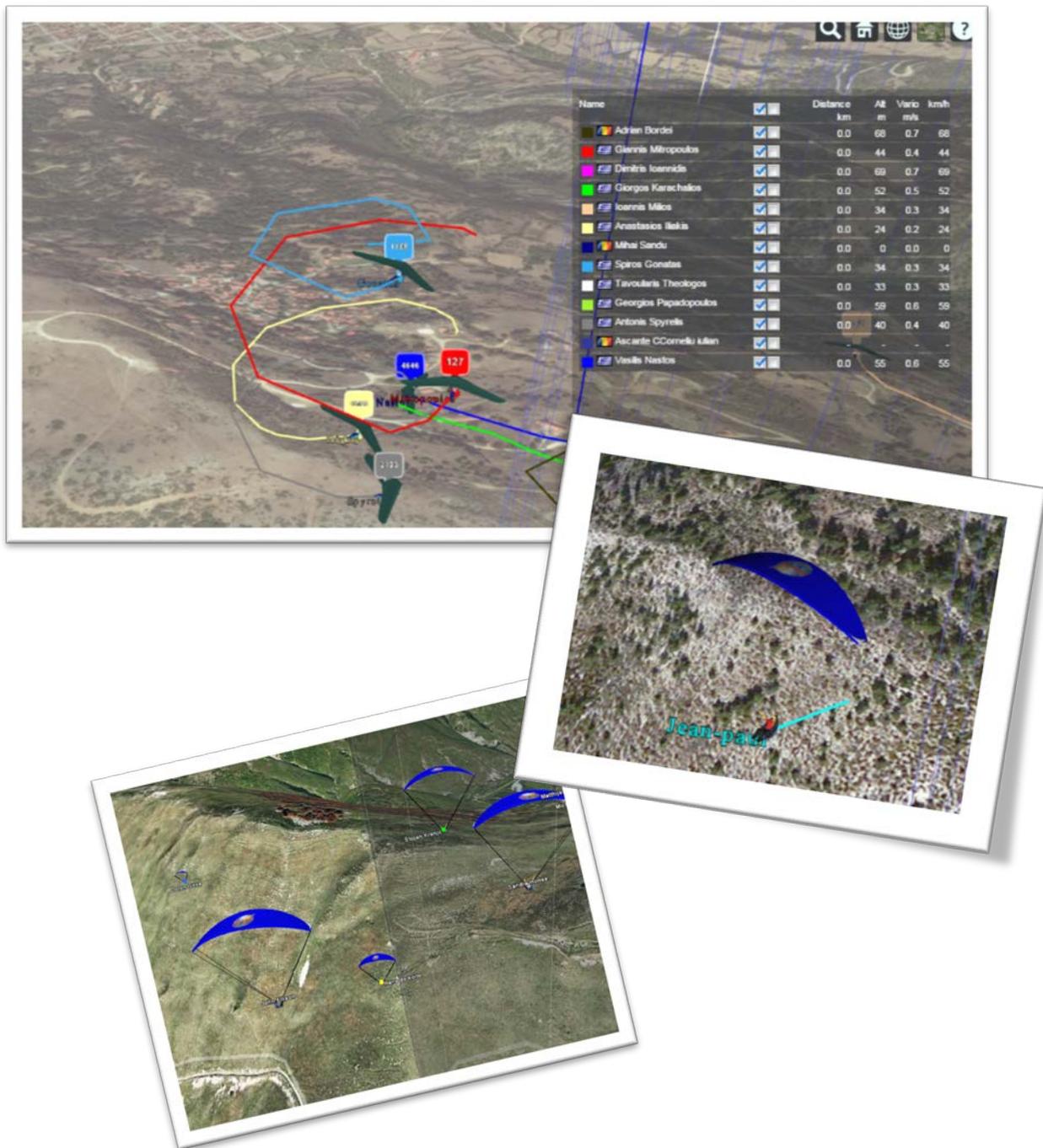


1.1 MAIN FEATURES OF LIVE EVENTS & TASKS

- Professional look web site in minutes



-
- Very easy to setup
- Visual representation of the whole task, with turnpoints, making it easy for viewers to follow the task.
- As in usual LiveTracking, the viewers in Google Earth can enjoy really frequent updates of even down to 10 secs.
- 3D glider models



New 3D tracking interface using Google Earth plugin inside the browser, **1 sec updates for smooth animation of the live tracks!!!**

- Live Scoreboard, that is updated every 1-3 minutes. The Server scores all pilot tracks and produces realtime on the fly scoring. In good GSM signal areas the scoring can be very close to the final scoring produced by the downloaded tracklogs.
- The retrieve cars can be represented on the map and Google Earth with their own unique symbols
- Automatic upload of tracks to the server and auto-scoring. This means temporary live results are available as soon as pilots land and submit their track or end of flight signal

- The autoscoring can be done based on Task definition from an FSDB file OR by using an auto-optimization method of best 3 turnpoints. This makes it possible to set unofficial LiveTasks among a group of friends .
- Ability for the system to send an SMS to the retrieve officer when a pilot lands. Although this person can track all pilots from a PC , still in some cases getting the report via SMS is still needed.
- Task board with visual and interactive representation of the task.

The optimal task route is computed and displayed

The screenshot displays a task route on a map of a mountainous region. The route starts at a 'Start' point near 'Prisojnik', goes to 'TAKEOFF' near 'Stol', then through several turnpoints (TP1, TP2, TP3, TP4, TP5) and ends at a 'GOAL' near 'ES'. A table on the right provides the following data:

Name	Radius	Gps Leg Distance km	Task Leg Distance km	Gps Total Distance km	Task Total Distance km
TAKEOFF	400	0.000	0.000	0.000	0.000
Exit	2000	3.305	1.603	3.305	1.603
TP1	800	9.324	9.046	12.629	10.649
TP2	400	6.338	5.380	18.967	16.029
TP3	400	6.018	5.694	24.985	21.723
TP4	400	7.144	6.738	32.129	28.461
TP5	400				
ES	1000				
GOAL	400				

Below the table, there are checkboxes for 'Show Task' and 'Filled turnpoints', and a 'General Info' section with fields for 'Location: Kobarid, Slo', 'Local Timezone: GM', and 'Organizer: BHPA Co Panel'. There are also links for 'Link to web page' and 'Link to results'.

Wedge sector support for Gliding

The screenshot shows a map with a purple wedge-shaped sector. A dropdown menu is open, showing the following options:

- Wedge
- Fixed Value
- Symmetrical
- To Previous Point
- To Next Point
- Fixed Value

2 USING THE LIVETRACK24 SERVICES

LiveTrack24 was designed from the ground up with a focus on the special needs and requirements of air-sports. Manolis Andreadakis a paraglider pilot from Greece is the founder and lead developer and constantly improving the service based on the feedback of pilots and event organizers.

NOTICE: The system is designed to be operated by event organizers and their staff and is as simple as it can get. If you however feel the need, a LiveTrack24 expert is available for hire on your event. He will come, setup the tracker units and take care of all the LiveTracking day to day tasks. The daily rate is 120 EUR with a minimum of 3 days (1 day before the event is required to setup the units) plus transport and accommodation.

Here is how an event organizer can set up the system to be used on his event.

2.1 OPENING UP AN ACCOUNT

Use the **"Sign Up"** link on the home page to create your account.

<http://www.livetrack24.com/register>

Sign up - Join LiveTrack24

Please fill in the information below.
Your email and Mobile phone number **will be kept STRICTLY PRIVATE.**

Username: *
(Use ONLY letters and numbers
No spaces)

Password: *

Please enter
your Password again: *

First Name: *

Last Name: *

Country: *

Sex: * Please Select

Email: *

Mobile Phone Number: *
(Use only numbers +
No spaces - No leading zeros)

Website:

If you already have an account enter your username and password in the login form

<http://www.livetrack24.com/login>

Login

USERNAME

PASSWORD

REMEMBER ME

You must contact us at info@livetrack24.com after registration to get the special access for event organizers

2.2 HOW TO SETUP A COMPETITION TASK

It is pretty easy, there are 3 steps involved:

2.2.1 ADDING A TASK

You start by adding a task using the "Add Task" link on the top right.

Take care to fill in correctly the values in the form because the error checking is very minimal.

Take care with the date format it should be YYYY-MM-DD , some examples:

[2009-03-28](#) (for march 28 , notice the padding zero)

[2009-01-07](#) (for Jan 01 , notice the padding zero)

2.2.2 IMPORTING WAYPOINTS & PILOTS & RETRIEVE VECHILES

Upload the event's Turnpoints file in CompeGPS format, the file should look like this:

```

G                               WGS                               84
U                               1
z                               23.692600,41.134972,24.621620,41.434586
W  LO8060 A 41.4166717529°N 23.8373298645°E 27-MAR-62 00:00:00 594.456299 LANDING
EXOHI
w Blue Flag,0,-1.0,16777215,255,1,7,,0.0,
    
```

2.2.3 ADDING THE PILOTS FROM AN FS DATABASE

You can upload the FSDB file that you used during registration and holds the pilot names along with their competition pilotID and their other info. In order to do that when entering the pilot info in the FS program you must add an extra field in each pilot that will use Leonardo Live.

This field must be called **LiveUsername** (note the uppercase) and should contain the exact username that the pilot uses in LeonardoLive.

After you upload the FSDB , a CSV file will be generated on the server for you.

You can download this file, edit/add some more last minute pilots

You could also add pilots not officially in the comp but ones you would also like to include in the task display. Enter 0 or nothing at their PilotID so LeonardoLive will display them differently.

After editing the CSV file locally you can change the extension to csv re-upload it.

2.2.4 ADDING THE PILOTS FROM A CSV FILE

The format of a CSV file should be like that:

```
id;name;nat;female;birthday;glider;color;sponsor;fai_licence;CIVLID;LiveUsername;phone  
23;Andreadakis Manolis;GR;0;;Gradient Gloden 2 26;Orange – Blue;;;1402;manolis;306947262244
```

Note The first line with the field names must be present.

Note2: If you enter a contact phone for each pilot you will have the possibility to SMS pilots directly from the task HQ page

2.2.5 ADDING / EDITING PILOTS ONLINE

You can also add /edit the pilot list with the use of an ipad /tablet / smartphone even on takeoff, from a special admin page.

The LiveUsername field is actually the number on the tracking devices prefixed by the word Comp1.

For example the device #85 has LiveUsername Comp1085

Please review the service fees here. Contact us on info@livetrack24.com before your event in order to arrange for payment. Thank you

Task Admin Transdromoise 2012 / Transdromoise / 2012-09-24 - 2012-09-28 [Return to Tasks](#)

Basic Info Turnpoints Window Times News CMS **Pilots**

Adding retrieve vehicles: add a normal entry an id as the rest of the entries.
In the field Sponsor you must enter NoLiveScoring

id	name	nat	female	birthday	glider	color	sponsor	fai_licence	CIVLID	LiveUsername	phone	
1	Michel GUICHARD									Comp1138		DELETE
2	Gaetan JUNIQUE									Comp1155		DELETE
3	Alex BARMAN									Comp1161		DELETE
4	Matthieu PENOT									Comp1128		DELETE
5	Vincent TOURANGIN									Comp1126		DELETE
6	Vincent ESPAULE									Comp1171		DELETE

Total entries Unique IDs 6, Unique Usernames 6

ADD PILOT TO THE LIST Apply Changes

[Return to Task Management](#)

2.2.6 ADDING RETRIEVE VEHICLES OR OTHER TYPE OF TRACKING PERSON/VECHILES.

Each entry can have it's own unique defined colors/ vehicle type and also a special selection if this tracking object will be included in the scoring or not.

So a typical example for a retrieve vehicle you should enter "Car" and "No Live Scoring" as shown below

25847	Tomas ZAHORA	CZE	0	1983-02-27	Sky Atis3			1	25847	Comp1079	34A7F0		DELETE
1412	Christakis Ioannoy	CYP	0		Gin Rebel			1	1412	para5	33F1A3		DELETE
1012	Christos Bakoyinis	GRE	0		Mac Marvel			1	1012	Comp1085	9EF133		DELETE
1408	Fotis GRIVAS	GRE	0	1967-12-10	Ozone Enzo			1	1408	Grivas	808080		DELETE
r1	Rescue Team 1	GRE					NoLiveScoring			Comp1075	FFFFFF		DELETE
r2	Rescue Team 2	GRE					NoLiveScoring			Comp3021			DELETE
r4	Rescue Team 4	GRE					NoLiveScoring			Comp3055	FFFF99		DELETE
rt1	Retrieve 1	GRE					NoLiveScoring			Comp3003	CCFFFF		DELETE
rt2	Retrieve 2	GRE					NoLiveScoring			Comp1003	99CCFF		DELETE
rt3	Retrieve 3	GRE					NoLiveScoring			CompGr1003	993300		DELETE

1408	Fotis GRIVAS	GRE	0	1967-12-10	Ozone Enzo			1	1408	Grivas		808080				DELETE
r1	Rescue Team 1	GRE				NoLiveScoring				Comp1075		FFFFFF	16385	1		DELETE
r2	Rescue Team 2	GRE				NoLiveScoring				Comp3021			16385	1		DELETE
r4	Rescue Team 4	GRE				NoLiveScoring				Comp3055		FFFF99	16385	1		DELETE
rt1	Retrieve 1	GRE				NoLiveScoring				Comp3003		CCFFFF	17100	1		DELETE
rt2	Retrieve 2	GRE				NoLiveScoring				Comp1003		99CCFF	17100		Default	DELETE
rt3	Retrieve 3	GRE				NoLiveScoring				CompGr1003		993300			Default Scoring enabled No Live Scoring	DELETE

Follow this procedure:

go to

<http://www.livetrack24.com/admin/tasks/1220/pilots>

click on the

16	FERJOUX Guillaume	CH		CH	D					CompPWCA0016		CCFFFF		1		DELETE
17	GARIN Stéphane	F		F	R					CompPWCA0017		99CCFF				DELETE
20	HEGELBACHER Frédéric	F		F	R					CompPWCA0020		993300				DELETE
21	LETTYR Yannick	CH		CH	R					CompPWCA0021		993300				DELETE

and enter the new tracker number (CompPWCA0034) , press OK and the scroll DOWN and press "APPLY Changes"

IMPORTANT

if a pilot has passed a turnpoint but is not registered in the system because of tracker malfunction you can fix this easily:

go to

<http://www.livetrack24.com/tasks/1220/score>

and click on the "admin" of the pilot you need to adjust

Temporary live task results

#	Pilot Name	Pilot ID	Task Km	Task Time	#Turn Points	Task Result	Live Track?	TrackLog	Upload	Admin
1	RIGAUD Damien	2	5.700	0:00:00	4	LO	YES	Tracklog Re-Score it :: Delete	Upload [0040] Get Live track	Admin
2	GARIN Stéphane	17	5.600	0:00:00	3	LO	YES	Tracklog Re-Score it :: Delete	Upload [9347] Get Live track	Admin
3	BOULENGER Stéphane	3	5.200	0:00:00	3	LO	YES	Tracklog Re-Score it :: Delete	Upload [1034] Get Live track	Admin
4	VERNEREY Philippe	23	4.900	0:00:00	3	LO	YES	Tracklog Re-Score it :: Delete	Upload [6688] Get Live track	Admin
5	MAROLLEAU Fabien	27	4.800	0:00:00	3	L				
6	LETTYRY Yannick	21	4.800	0:00:00	3	L				
7	VURPILLOT Samuel	30	4.800	0:00:00	3	L				
8	VIAL Stéphane	7	4.800	0:00:00	3	L				
9	CADOR Florian	32	4.700	0:00:00	3	L				
10	DUCLOS Vincent	14	4.600	0:00:00	3	L				

Raid Chamois 2013 / Parcours Samedi / 2013-10-26

Action	Name	Radius	Task Distance
-	TAKEOFF	100	0.000
TP OK	Exit	200	0.314
TP OK	TP1	100	2.490
Inject [1473m]	TP2	500	7.131
-	TP3	400	21.210
-	TP4	100	31.064
-	TP5	500	35.153
-	ES	200	39.236
-	GOAL	100	39.312

you then have the option to add a TP to this tracker manually!

CAUTION!!!!

you cannot undo this operation so be sure that there are no mistakes!

done ? Lets give some publicity by giving out the URL to our sponsors / public

2.3 EASY URLs TO GET THINGS GOING FOR VIEWERS AND SPONSORS

Lets take for example Day 3 (date:2011-05-31) of the British and Dutch Open Championship 2011

The only thing to note for a task is its unique ID, for this task we have an ID of **196**. The Main livetracking page is:

<http://www.livetrack24.com/tasks/196>

Now the fun begins:

<http://www.livetrack24.com/tasks/196/tp> for the taskboard

<http://www.livetrack24.com/tasks/196/score> for the scoring /uploading of tracks

<http://www.livetrack24.com/tasks/196/ge> for the google earth link

<http://www.livetrack24.com/tasks/196/ge/replay> for the google link for after task replay

<http://www.livetrack24.com/tasks/196/3d> for the new 3d interface

<http://www.livetrack24.com/tasks/196/news> for news / twitter /blog entries

<http://www.livetrack24.com/tasks/196/hq> for the HQ page, helping the retrieve officer
<http://www.livetrack24.com/tasks/196/monitor> for the monitoring page

Nice? there is more !

By putting /embed/ in front of the /tasks/ part in these urls you get a versin that you can use in an iframe

<http://www.livetrack24.com/embed/tasks/196>
<http://www.livetrack24.com/embed/tasks/196/tp>
<http://www.livetrack24.com/embed/tasks/196/score>
<http://www.livetrack24.com/embed/tasks/196/news>

Instead if you put /mobile/ you have a version for mobile phones

<http://www.livetrack24.com/mobile/tasks/196>
<http://www.livetrack24.com/mobile/tasks/196/tp>
<http://www.livetrack24.com/mobile/tasks/196/score>
<http://www.livetrack24.com/mobile/tasks/196/news>

Now for the admin pages:

<http://www.livetrack24.com/admin/tasks/196> The basic task information
<http://www.livetrack24.com/admin/tasks/196/tp> Defining the task
<http://www.livetrack24.com/admin/tasks/196/times> Definng window times and type of task

You are on takeoff and access the task admin pages via your mobile ? No prob!

<http://www.livetrack24.com/mobile/admin/tasks/196/tp>
<http://www.livetrack24.com/mobile/admin/tasks/196/times>

You will be asked to enter the "Task Password" the one you have defined in the basic task Information page. That way you can give the 2 above mobile links to a 3rd party without giving them access to your full account.

Now you are almost done... lets wait for the task briefing.

2.4 FILLING IN TASK DETAILS AFTER THE BRIEFING

After the task is set, someone on the HQ or even right on takeoff must insert the turnpoints into livetrack24. Here is how:

Use the "**Turnpoints**" link on the "**Task Managment**" page on the task you want.

The info you usually have to enter in each row is

- First Select the turnpoint form the List , the fields name,lat,lon are auto completed.
- Enter the type of the Turnpoint "TAKEOFF/START/WPT/ES/GOAL"
- Enter the radius in meters (ie 400)

Do this for all turnpoints of the task.

You should have a list that is like this :

```

TAKEOFF
START          (Start          of          Speed          section)
WPT
WPT
WPT
ES             (End             of             Speed             section)
GOAL
    
```

If the START is also a turnpoint you must enter it again as WPT right after START.

The way the enter/exit Start cylinders is handled is according to the FS convention:

“If after the start cylinder you have the next turnpoint inside it, then the start would always be taken as an Entry Start. Else if you have the next turnpoint after the start, outside of it’s cylinder, then it would be handled as an Exit Start.“

Press submit to store the turnpoints, you should also be informed of the task distance, both GPS distance and also Optimized route of task.

You can come back to this page any time to update the turnpoints (ie if the task changed)

2.4.1 ENTERING THE TASK'S TURNPOINT FROM A MOBILE DEVICE

You can use a very simple version of the above page to enter the turnpoints even from a mobile phone on takeoff if GPRS is available. Before leaving for takeoff you must check on the “Task’s basic Info” page and set a “Task password”.

Then click on the link “What is this?” to see the link that you can access the mobile version of the page.

2.4.2 ENTERING THE TASK'S TURNPOINT VIA AN SMS

You are also able to setup the task by sending a simple SMS with a custom format. Here is a sample SMS:

```

LIVE 99 3333 task 176 1234 7 t1.1 race wo1340 wc+200 so+20 tc1900 d03
b42.ss.r4000 b43 b55 b54 a06.es.r1000 a06.g1.r200
    
```

```

LIVE          →          dont          change
99            →          Your          user          ID
3333 → your Mobile pin, you set this on your user profile page
task          →          dont          change
176          →          the          taskID
1234 → the task password, you set this in the main task edit page
7 → min distance in Km
    
```

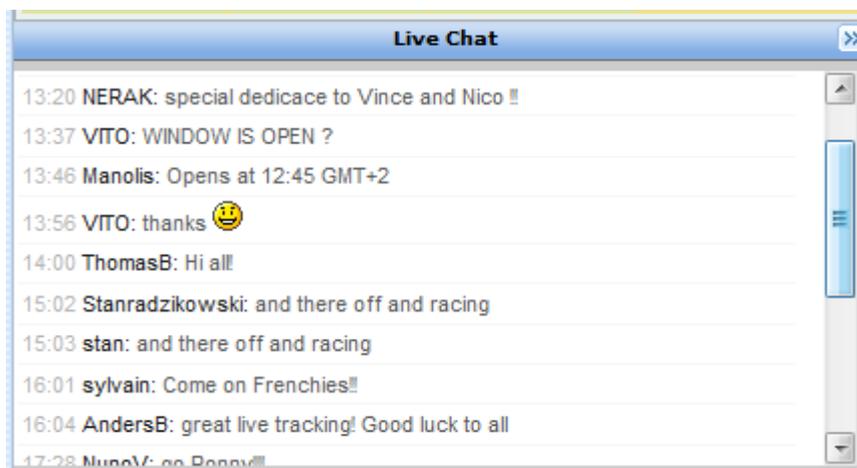
t1.1 → arbitrary string for identifying the task, not used
 race → type of task , currently is not taken into account
 wo1340 → Window Open 13:40 local time
 wc+200 → window Close +2:00 hrs after window open
 so+20 → Start opens +20 mins after Window open
 tc1900 → Task deadline is 19:00
 d03 → takeoff is turnpoint D03xxx (only enter the first 3 chars of the name)
 radius is 400m
 b42.ss.r4000 → Start of speed section is B42xxx with a radius of 4km
 b43 → next tp (if no .rXXXX is defined, then the default radius of 400m is assumed)
 b55 → next tp
 b54 → next tp
 a06.es.r1000 → End of speed section is TP A06xxx with a radius of 1000m
 a06.gl.r200 → Goal is A06xxx with a radius of 200m

Send those SMS to **+306931903827** and if everything is ok you will receive back an SMS saying :

Task set OK , task distance 44123m , GPS distance 48242m

2.5 LIVE CHAT

Viewers can now chat with each other with a small interactive chat box. You can also use this chat box to take part in the conversation and post task info and updates



2.6 SEND NEWS AND UPDATES VIA TWITTER SUPPORT

By setting your Twitter username on the **"Task's basic Info"**, all your tweets will be displayed on the task main page. Also a popup will display them even in the Google Earth 3d interface

Great for online visitors to get the latest news!!!

You can even send photos from takeoff or the task with a simple smart phone

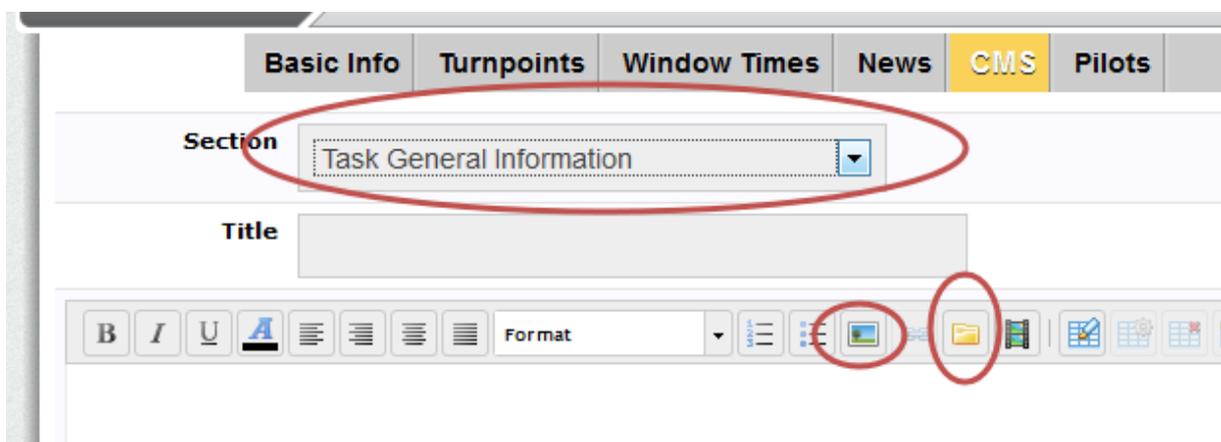
If you dont know what Twitter is, visit www.Twitter.com

2.7 ADD AN INFORMATION PAGE FOR THE TASK



You then have to select the "Task General Information" and fill in info and news about your task.

you can also upload very easily photos by using the icons marked in red



2.8 ADD YOUR SPONSOR'S BANNERS AND LOGOS

You can do this by setting the fields **Link to Custom Html** and **Link to Custom Kml**

The Html page you define will be displayed on the main task page on the right side just below the tweets or the general task info. **NOTE:** The html page **must** be designed to a width of 200 pixels only so to fit nicely to the task page.

The Kml link you define will be included in the Google Earth feed. It can be anything you wish, or multiple items combined into one file. For example all the banners of your sponsors and also your custom live feed of news

2.9 PILOTS CAN UPLOAD THEIR TRACKLOGS THEMSELVES TO THE SITE

Here is a cool feature that can come handy to some events

The pilots can independently download their tracklogs from their normal flying instrument on their PC's and then upload the file to livetrack24.com. Each tracklog file that gets uploaded is scored (only distance points) and a zip file is ready for the scorer to download with all uploaded tracklogs ready to use in a format compatible with FS program. He can then do the normal scoring with the provided tracklogs

3 USING THE LIVETRACK24 SERVICE DURING THE TASK

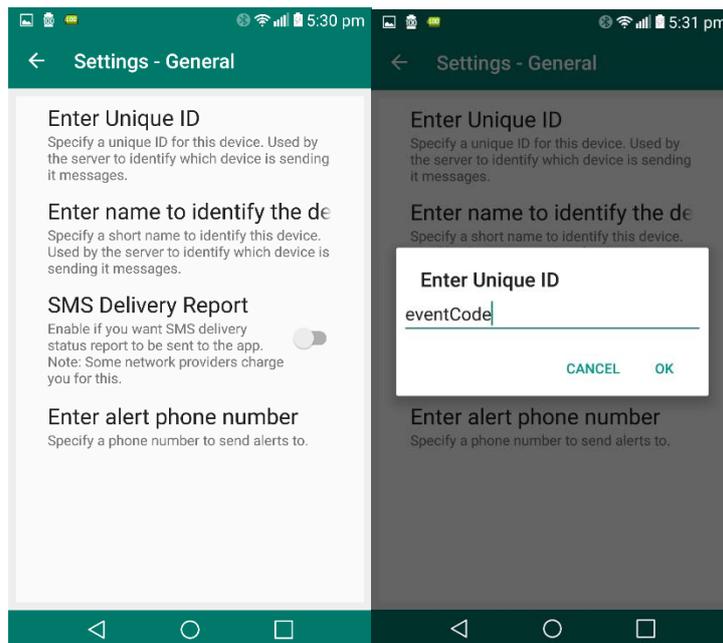
RETRIEVE SYSTEM

SETTING UP THE RETRIEVE SYSTEM

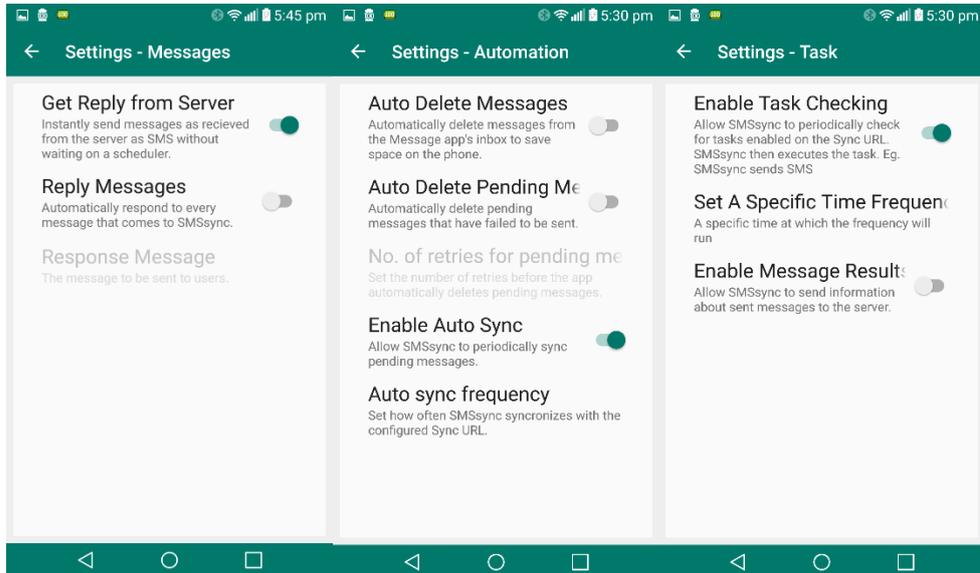
You need an android phone dedicated just to this task. This is the phone number that pilots will send their SMS to. Start by installing the SMSsync app from here <http://smssync.ushahidi.com/download/>

And configure it so that it forwards all incoming SMS to LiveTrack24 server

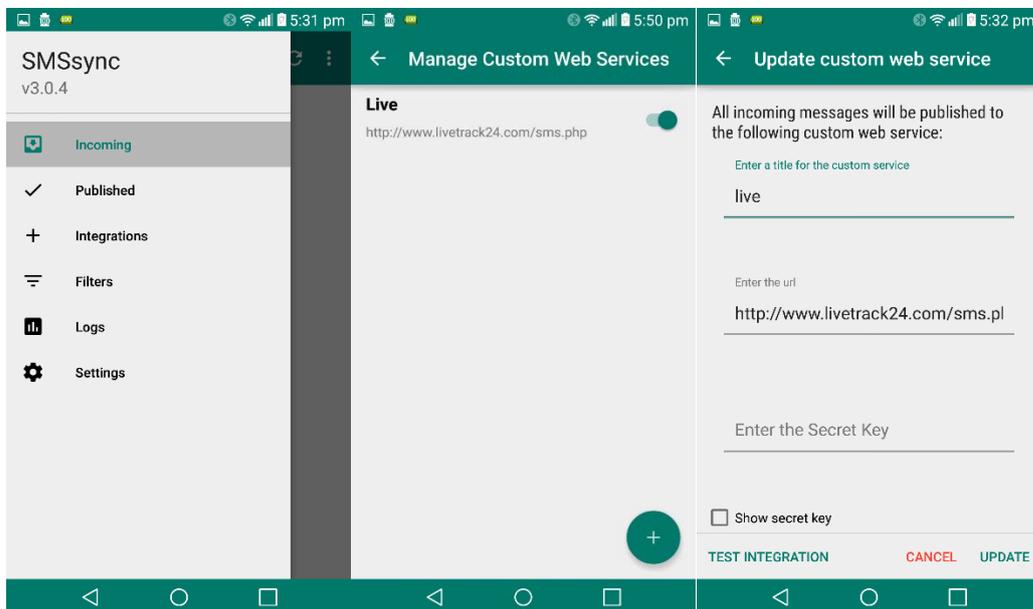
1. Open Settings-> General. Select “Enter Unique ID” and fill in your **EventCode**. You don’t need to enter a name to identify the device nor an alert phone number. Disable SMS delivery report.



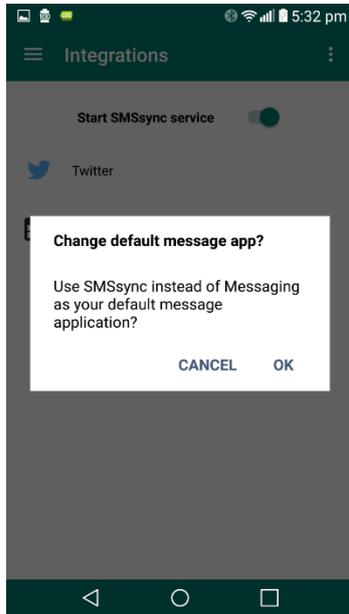
2. Setup the options like in the photos below. Use 1 min interval for all frequencies
 Settings-> Messages: Enable “Get Reply from Server” Leave the Reply messages disabled
 Settings-> Automation: Click “Enable Auto Sync”, set a frequency of 1 minute
 Settings-> Task: Click “Enable Task Checking”, set a frequency of 1 minute



3. Add an integration: The url of the custom webservice is <http://www.livetrack24.com/sms.php>



4. Click on “Start the SMSsync service” If you are running Android 5.0 or newer this dialog will appear. You have to agree in order to continue. This will make the SMSsync app the default app for SMS but the side-effect is that you will not be able to use the normal android app for sending SMS. Have this in mind while provisioning for the event.



4 CHARGING THE TRACKER

Every tracker gets charged via the mini-USB plug. You will get the half the amount of Plug chargers and USB cables. The charging cycle is about 3 hours.



5 USING THE TRACKER AND STATUS LEDS

Give every pilot his individual tracker short before or after the task briefing. You can educate them how to switch them on and off or do it on your own. Pressing the power button until the lights begin to flash and pressing the power button for six seconds.

Past competition has shown us, that you never can explain the livetracking to every competing pilot ;-). Means – as less the pilot has to do with the tracker, as better your result.

- If you turn them on before handing out to the pilot – good idea!
- Tell them do not touch anything ;-)
- NEVER, NEVER make a GPS download after task until you received the tracker from the pilot

PLACEMENT OF TRACKERS DURING FLIGHT

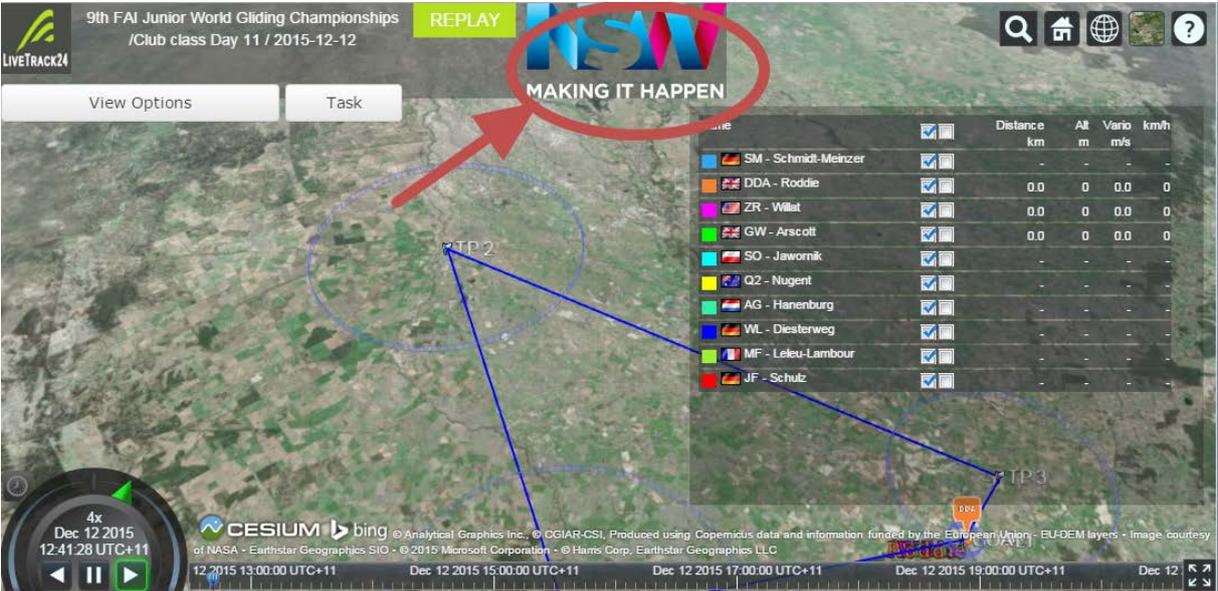
Like every cell phone the tracker can interfere with your flight instrument, but it depends on the flight instruments shielding. For best GPS and GPRS coverage the tracker should not be very deep in the harness but some cm away from the flight instrument.

6 WAYS TO DISPLAY THE LIVETRACKING

Google Earth. To follow the :LiveTracking in Google Earth you need the free google earth application.
Download it here: <http://www.google.com/earth/index.html>

7 SPONSORSHIP

You can include your sponsor's logos on all tracking pages. If you have more than one logo they can rotate (eg every 10 seconds).



8 SERVICE FEES & TRACKER RENTAL

HARWARE TRACKER RENTAL

Rental fee (**INCLUDES SIM + internet**)

For more than 30 trackers discounted prices apply

EURO 15,00 / tracker and event (1-7 days) (no tax) (has to be paid in advance)
+ shipping costs

For Less than 30 trackers

EURO 20,00 / tracker and event (1-7 days) (no tax) (has to be paid in advance)
+ shipping costs

- If the event is scheduled longer than 7 days, 50 % discount for the next 7 days, 14 days ...
- In case of bad weather or other unavoidable circumstances the rental fee will be refunded, if not even one task took place.

Damaging fee:

In case some units get damaged or lost:

EURO 120,00 / Tracker (depending on the organizer rules the participant will probably has to pay in the end).

FOR USING LIVETRACK24.COM SERVICE

Please consult the online version here to be sure to have the latest information

http://www.livetrack24.com/docs/event_pricing

9 SERVICE IS USABLE FOR ALL ACTIVITIES

We have provide our services to a wide variety of sports including:

- Bike and MTB Braces
- Hike & fly X-alps style competitions
- Back country skiing
- Cross country skiing
- Running / Marathon / Mountain running
- Sailing races / Regatta
- Triathlon (with waterproof cases for the trackers)
- Car races

10 RESERVATION

Please book well in advance your hardware trackers. Availability is limited at peak season.

You don't need a reservation in order to use our services online. The service is activated and provisioned in real-time **provided you have already contacted us for giving you access to the Events administration backend.**

You do need to make a reservation for our physical presence to your event or for renting tracking equipment.

Contact Details

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