



---

**D-FLIGHT**

**User manual**

---



**14<sup>th</sup> VERSION**  
**July 2024**



---

|   |     |
|---|-----|
| 1.1 ACCESS TO THE SITE.....                                     | 5   |
| 1.2 Inscription .....   | 6   |
| 1.2.1 User inscription .....                                    | 6   |
| 1.2.2 Company/P.A. Inscription.....                             | 11  |
| 1.3 USER AUTHENTICATION.....                                    | 15  |
| 1.3.1 d-flight portal access .....                              | 16  |
| 1.3.2 Login.....  | 16  |
| 1.4 MAP NAVIGATION.....   | 18  |
| 1.4.1 Map View.....   | 18  |
| 1.4.2 Map View and Layers for PRO Users only .....              | 21  |
| 1.4.3 NFZ and NOTAM filters for PRO Users only .....            | 23  |
| 1.4.4 Global Slider filters for PRO Users only.....             | 25  |
| 1.5 PROFILE MANAGEMENT .....                                    | 27  |
| 1.5.1 Data management.....                                      | 27  |
| 1.5.2 Change Password.....                                      | 42  |
| 1.5.3 Change Email.....   | 43  |
| 1.5.4 Remove Account.....                                       | 44  |
| 1.5.5 Publishing your data in the UAS Operator List .....       | 44  |
| 1.5.6 Possible UAS Operator Status.....                         | 45  |
| 1.5.7 European Operator Code.....                               | 45  |
| 1.6 Credits AND E-PAYMENT Management .....                      | 47  |
| 1.6.1 Credits.....  | 47  |
| 1.6.2 E-Payment Management .....                                | 47  |
| 1.7 UAS MANAGEMENT .....  | 59  |
| 1.7.1 Access to <UAS Management> .....                          | 59  |
| 1.7.2 UAS Management (Creation/Modification/Cancellation) ..... | 60  |
| 1.7.3 Viewing UAS Models / Manufacturers .....                  | 63  |
| 1.7.4 Activate QR code .....                                    | 66  |
| 1.7.5 Print QR code.....  | 66  |
| 1.7.6 Reading QR-Code through Mobile App .....                  | 67  |
| 1.7.7 Change UAS Status .....                                   | 67  |
| 1.7.8. Declaration .....  | 68  |
| 1.7.9. Possible Declaration Status .....                        | 71  |
| 1.8 UTM Box MANAGEMENT .....                                    | 72  |
| 1.8.1 Access to <UTM Box Management> .....                      | 73  |
| 1.8.2 UTM device (Creation/Modification/Cancellation).....      | 74  |
| 1.8.3 Default UTM box (Creation/Modification/Cancellation)..... | 81  |
| 1.8.4 UTM box Models .....                                      | 84  |
| 1.8.5 UTM box Manufacturers.....                                | 85  |
| 1.9 COMMUNICATION REGISTRY .....                                | 87  |
| 1.9.1 Access to <Communication Registry> .....                  | 87  |
| 1.10 GENERAL .....  | 92  |
| 1.10.1 Access to <General>.....                                 | 92  |
| 1.11 VLOS DRONE OPERATION AREA.....                             | 94  |
| 1.11.1. DOA list .....  | 99  |
| 1.12 MEASUREMENTS .....   | 102 |
| 2 DRONE OPERATION PLAN .....                                    | 103 |
| 2.1 Mission Type.....   | 103 |
| 2.2 Mission Data.....   | 105 |
| 2.3 Pilot Data.....   | 109 |
| 2.4 Authorizations.....   | 110 |
| 2.5 Saving the mission .....                                    | 111 |
| 2.6 Submission and Starting of the mission .....                | 111 |
| 3 TRACKING .....  | 117 |
| 3.1 Tracking_V0 .....   | 117 |
| 3.2 Tracking_V1 .....   | 118 |

---

|   |                                   |     |
|---|-----------------------------------|-----|
|   | 3.3 Clustered track display ..... | 121 |
| 4 | MOBILE APP .....                  | 123 |
| 5 | GNSS REAL TIME MONITORING .....   | 124 |
| 6 | DOWNLOAD UAS GEOZONE .....        | 126 |

---

## INTRODUCTION

The following manual is a guide to the use of basic d-flight services:

- ✓ Inscription
- ✓ User authentication
- ✓ Navigation maps
- ✓ Profile management
- ✓ Credits and E-payment management
- ✓ UAS management
- ✓ UTM-Box management
- ✓ Communication Registry
- ✓ Drone Operation Area
- ✓ Drone Operation Plan
- ✓ Tracking
- ✓ Mobile App
- ✓ GNSS Real Time Monitoring

## 1. GUIDE

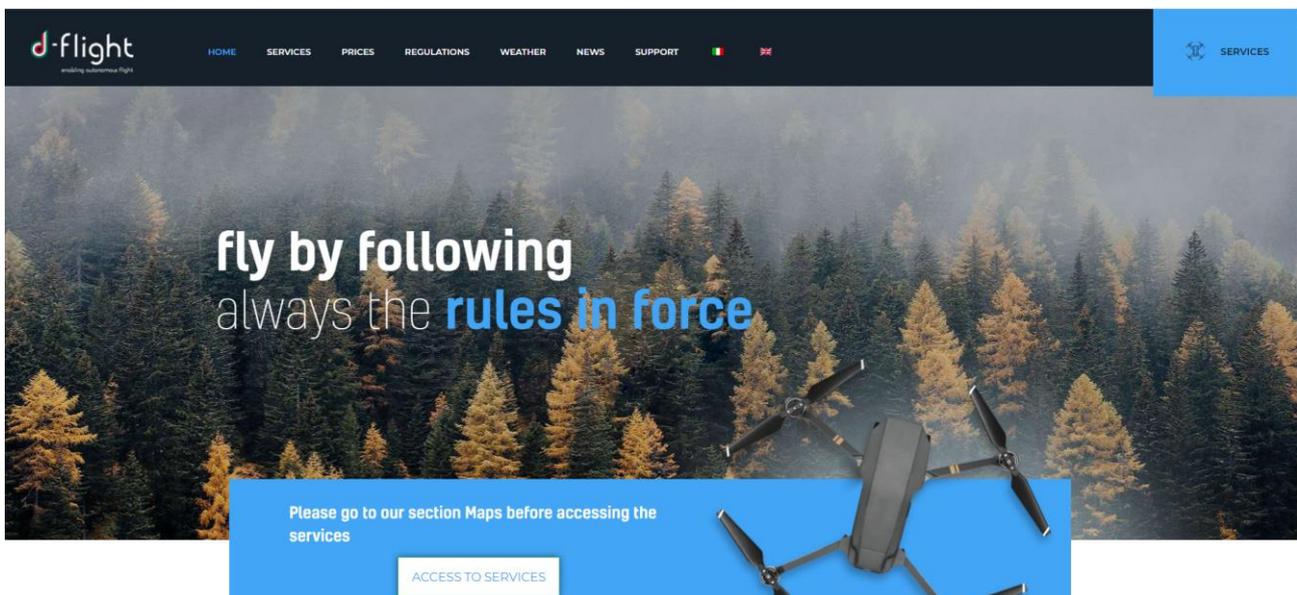
### 1.1 ACCESS TO THE SITE

The URL to access the site is:

[https://www.d-flight.it/new\\_portal/en/](https://www.d-flight.it/new_portal/en/)

The welcome page to the site is shown below.

*Use of the Chrome / Firefox / Safari browser is recommended, please do not use IE. It is advisable to activate the activation link in the time indicated by the system (60 min).*

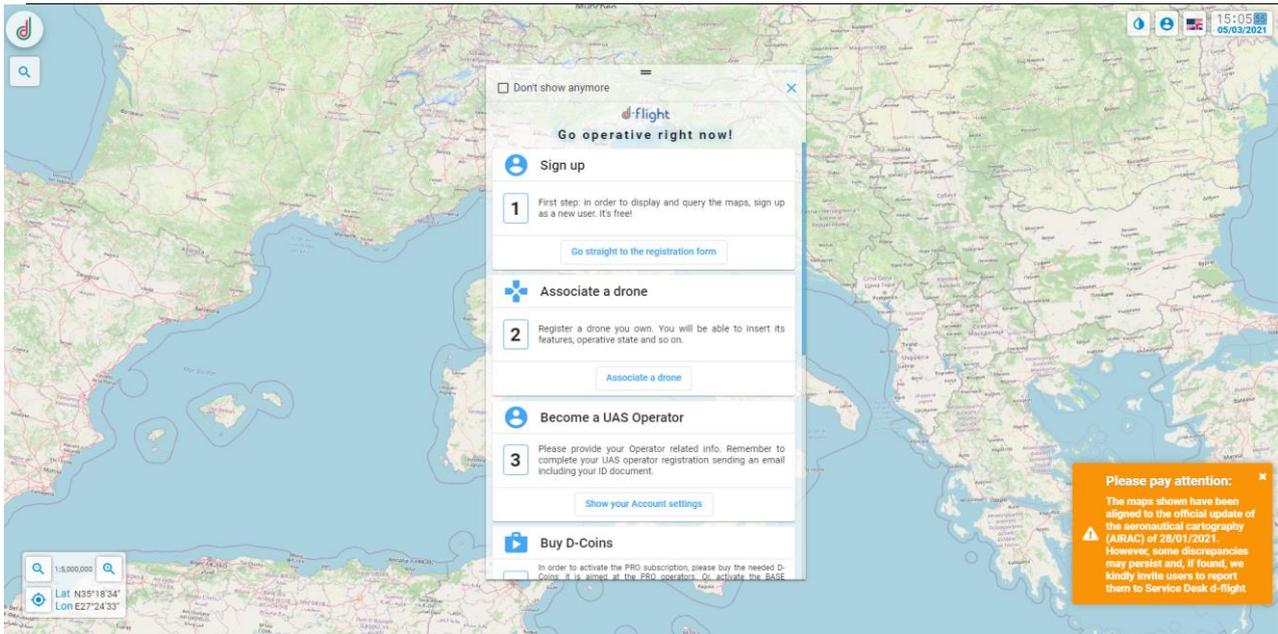


From the welcome page (**HOME**) it is possible to consult the information relating to the **SERVICES, PRICES, REGULATIONS, METEO, NEWS, CONTACTS, LINKS** and **FAQs**.

### ✓ CLICK TO ACCESS THE SERVICES



After the click you have the map available (below) that allows you to access the d-flight **SERVICES**.



## 1.2 Inscription

It is the service through which users can be accredited and authenticated to the portal. User enter its personal data and relevant flight qualifications in possession, qualifications and licenses, to create a "Virtual Curriculum".

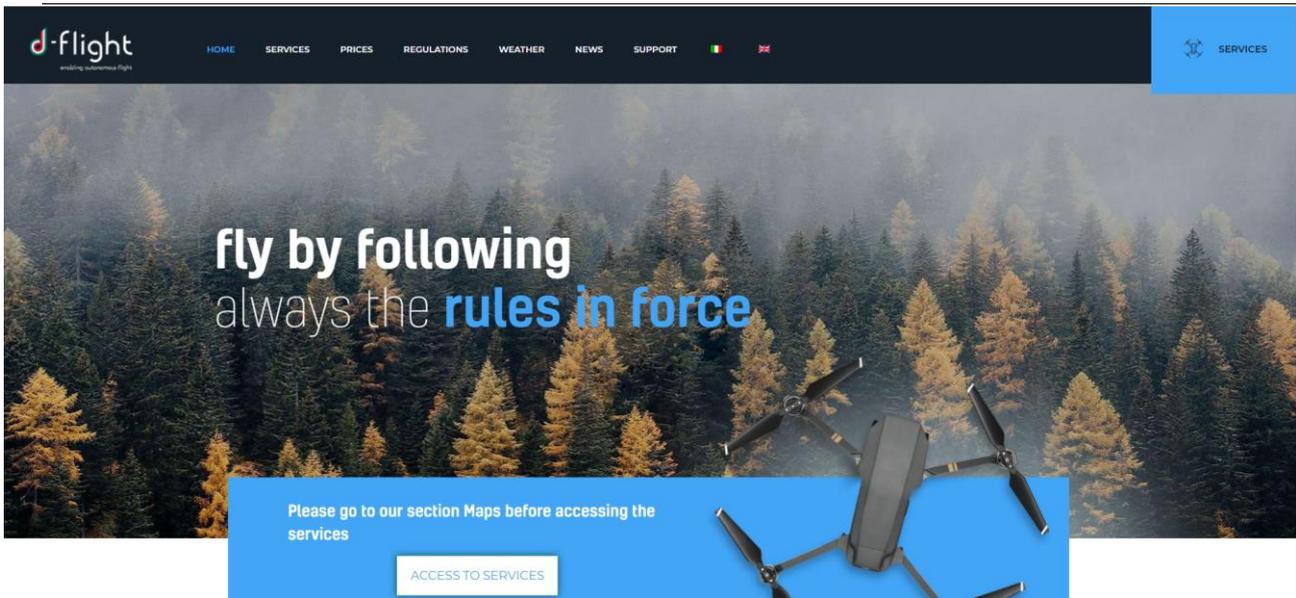
When a user not yet accredited wants to log in to the system, he must enter his credentials to be able to receive a request to confirm his identity via e-mail, with non-certified email address or certified e-mail address.

Then the user will receive the email with the login credentials with a temporary password, to activate it he must open the email received and click on the link provided to confirm the inscription and be able to access the platform with the credentials indicated.

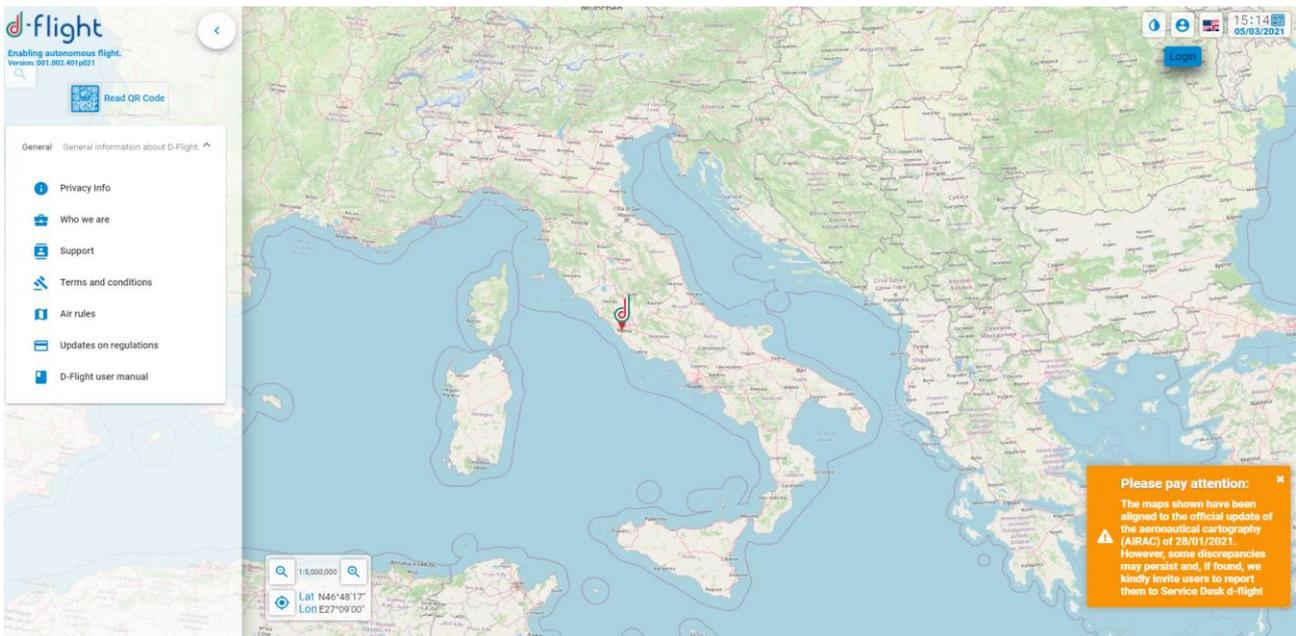
### 1.2.1 User inscription

1. From an internet browser connect to the d-flight website ([https://www.d-flight.it/new\\_portal/en/](https://www.d-flight.it/new_portal/en/)) and select **<ACCESS TO SERVICES>**

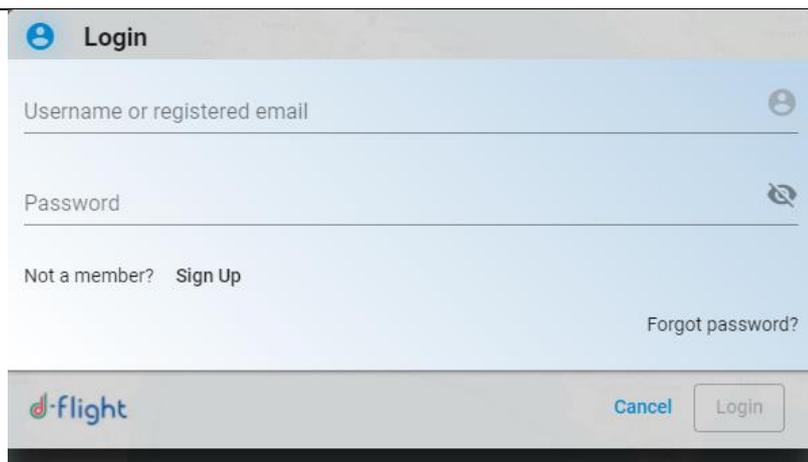
*Warning: the use of Chrome / Firefox / Safari browsers is recommended, please do not use IE*



2. Click on user icon (**LOGIN**) at the top right as shown in the following figure:



3. The following screen will appear and select **<SIGN UP>**



The screenshot shows the 'Login' screen of the d-flight application. It features a header with the 'd-flight' logo and the title 'Login'. Below the header are two input fields: 'Username or registered email' and 'Password'. The 'Password' field has an eye icon to toggle visibility. Below the input fields, there is a link for 'Not a member? Sign Up' and a link for 'Forgot password?'. At the bottom, there is a 'Cancel' button and a 'Login' button.

After clicking on the icon <**SIGN UP**> you have several steps to do.

Step 1 Enter the data related to <**Register Information**>

1. User Typology \* (Private individual, Company/P.A.)

If **Private Individual** has been chosen please insert:

1. Username \* (user ID - nickname) **NB. do not use special characters**
2. Email \*
3. Activate the PEC flag if you want to accredit with certified mail
4. First Name \*
5. Last Name \*
6. Birth country\*
7. Birth province\*
8. Birth place\*
9. Birth date\*
10. C.F./CIF/T.I.N \*
11. Select <Next>.

*Attention, fields marked with an asterisk (\*) are mandatory*

**Create your account**  
Create an account to access to D-Flight services

User Type \*  
Private individual

Username \*      Email \*       PEC

First Name \*      Last Name \*

Birth country \*      Birth province \*

Birth place \*      Birth date (mm/dd/yyyy) \*     

C.F./CIF/T.I.N. \*

Back    Next      Cancel    Create

**Step2** Enter <User data>

**Create your account**  
Create an account to access to D-Flight services

**User Data**

Country of residence \*      Province of residence \*

Place of residence \*      Postal code \*

Address of residence \*      Street number of residence \*

Phone \*      Mobile

Email PEC

Back    Next      Cancel    Create

1. Country of residence \*
2. Province of residence \*
3. Place of residence \*
4. Postal code \*
5. Address of residence \*
6. Street number of residence \*
7. Phone\*
8. Mobile
9. Email PEC
10. Select <Create> to continue with the inscription

(If you want to go back to the previous page select <Previous>)

Attention, fields marked with an asterisk (\*) are mandatory

**Step3** After clicking on <create> you must accept the platform's Terms and Conditions of Use and consent the processing of personal data to complete the inscription.

EN IT

**GENERAL CONDITIONS**

**1 Terms and conditions of use**

1.1. The website "d-flight S.p.A" ([www.d-flight.it](http://www.d-flight.it) below, for brevity, the "Site") is the website owned by d-flight S.p.A. ("d-flight"), with legal headquarters in Rome, Via Salaria 716, Tax Code and VAT Number. 14996981008, registered in the Register of Enterprises of Rome REA No. 1560988. The Site is the portal dedicated to UAS operators for the provision of the Services (as defined below). It allows, among other things, the registration of operators of unmanned aerial systems (UAS) in the Italian database and the assignment of a unique european identification code for each of them (c.d. QR), pursuant to the European Regulation. (EU) 2019/947 published by EASA, the European Aviation Safety Agency, on 24 May 2019 and the UAS-IT Regulation Ed.1 of 4 January 2020 (the "ENAC Regulation") published by the National Agency of Civil Aviation ("ENAC") and available on the ENAC website at the link: <https://www.enac.gov.it/la-normativa/normativa-enac/regolamenti/regolamenti-ad-hoc/regolazione-uas-it>. More generally, this Site aims to provide users with information and services related to the recreational and professional use of unmanned aircraft, otherwise known as UAS, within national airspace, in accordance with applicable legislation.

**INFORMATION ON THE PROCESSING OF PERSONAL DATA**

Pursuant to Article 13 of Regulation (EU) 2016/679

This information is provided by d-flight Spa (hereinafter, the "Company" or the "Data Controller") as data controller pursuant to Regulation (EU) No. 679/2016 (hereinafter, the "GDPR") and Legislative Decree No. 196/2003 and its ss. mm. ii. (hereinafter, the "Code" and jointly with the GDPR, the "Privacy Regulations")

ENAC is the data controller in relation to the provision of services through the platform d-flight ([www.d-flight.it/web-app](http://www.d-flight.it/web-app))

ENAV Spa is the data controller

[Terms and conditions of use of the platform and of the d-flight services](#)  I agree (required)  
**Vers. 01.01 (01/02/2024)**  
In submitting the registration request, I declare that I have read and are aware of the Terms and Conditions of use of the platform and services d-flight shown above and to accept them in full. According to the Italian Civil Code, art. 1341, subsection 2, the user explicitly declares to accept and undersign the following clauses of the General Conditions: i) art. 3.3; ii) 6.8; iii) 6.11; iv) 8.1; v) art. 8.4; vi) art. 9.1; vii) art. 12.

[Consent to the processing of data for marketing purposes](#)  I agree  
**Vers. 01.00 (01/03/2020)**  
I allow d-flight to use my personal data, in particular my e-mail address, for marketing and communication purposes, such as the invitation to events, the presentation of new products and / or services, the periodic sending of newsletters.

Cancel

**Step4** After completing the <User registration> procedure, you will receive the d-flight email containing the **Activation instructions** at the email address indicated.

Click on "ACTIVATE ACCOUNT".

thank you for registering at D-Flight website. Your account is created and must be activated before you can use it.

After activation you may login by using the following link: <https://www.d-flight.it/web-app/> with **username** and **password**:

User Name <user>

Password <password>

To activate the account click on the following link: [Activate Account](#) 

*Please note that passwords are personal and non-transferable to others and that under no circumstances D-Flight will be held liable for damage resulting from the loss of passwords and from incorrect use of the service or from the inability to use the service or part of it. The user of the service accepts that D-Flight may, if needed for security reasons and at its sole discretion, revoke the access privilege (password) and activate a procedure for "reassigning" the access keys after having re-ascertained the identity of the entitled person.*

*The user accepts that the activities carried out on the website after accessing the reserved area may be monitored in order to maintain the performance of the service at an adequate level as well as to ensure the correct use of the service and to protect D-Flight or its users from abnormal use of the service. The content of the Log is confidential and may be exhibited only and exclusively at the request of competent Authorities.*

By clicking on the confirmation link you agree to the Terms and Conditions of Use and the policies applied for the Processing of Personal Data set out in the following links:

**Term and Conditions:** [Term and Conditions](#)

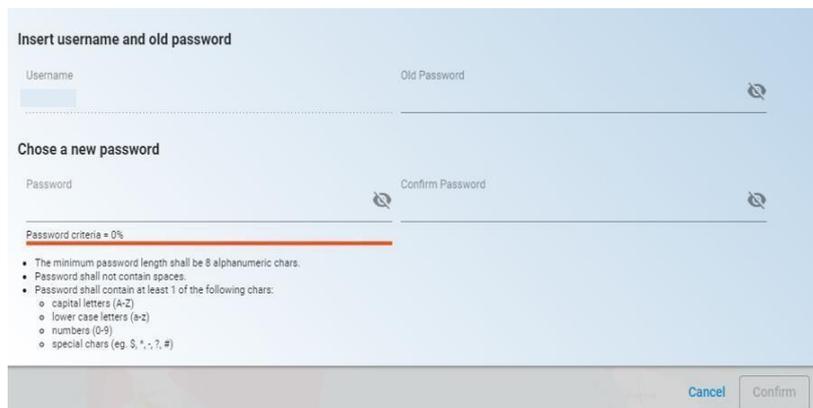
**Privacy Policy:** [Information on the processing of personal data](#)

Link is valid for 60 minutes.

Please remember that:

- after one hour from receiving the account activation email, if the link is not clicked, the account will be disabled and, you need to accredit again, 48 hours after failure to activate.
- to complete the inscription and therefore the creation of the account it is not necessary to attach any document

The account activation link takes you to the home page of the d-flight portal. At the first access it is necessary to change the temporary password received via the confirmation email generated by d-flight.



The screenshot shows a form titled "Insert username and old password" and "Chose a new password". It includes fields for Username, Old Password, Password, and Confirm Password. Below the password fields, there is a progress bar for "Password criteria = 0%" and a list of requirements:
 

- The minimum password length shall be 8 alphanumeric chars.
- Password shall not contain spaces.
- Password shall contain at least 1 of the following char:
  - o capital letters (A-Z)
  - o lower case letters (a-z)
  - o numbers (0-9)
  - o special chars (eg \$, \*, -, ?, #)

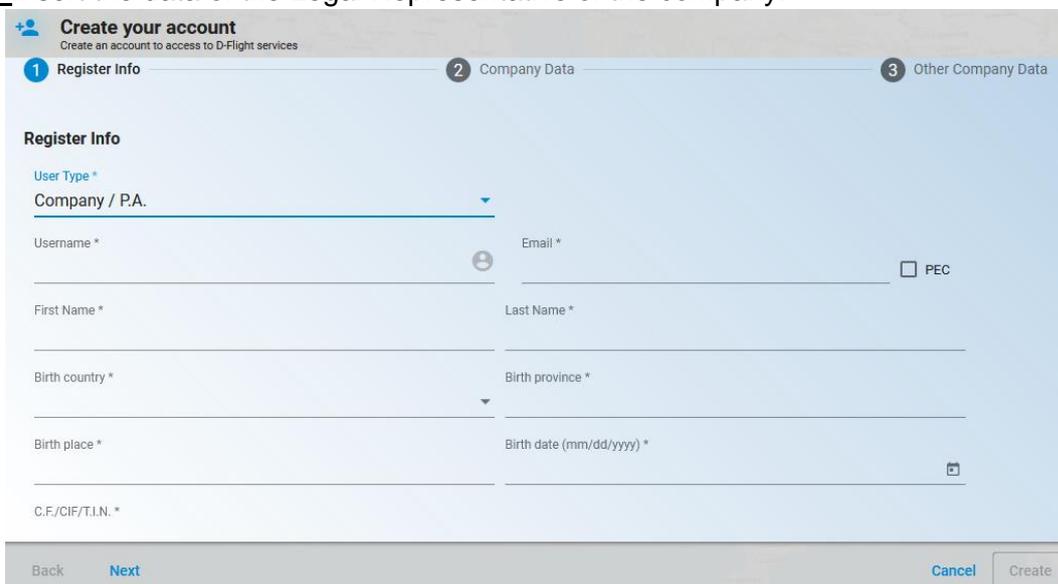
 At the bottom right, there are "Cancel" and "Confirm" buttons.

Enter credentials received via email.  
Enter new password, confirm it and press <Confirm>.

## 1.2.2 Company/P.A. Inscription

If **Company/P.A.** has been chosen :

Step 1 Insert the data of the Legal Representative of the company:



The screenshot shows the "Create your account" form with the following sections and fields:
 

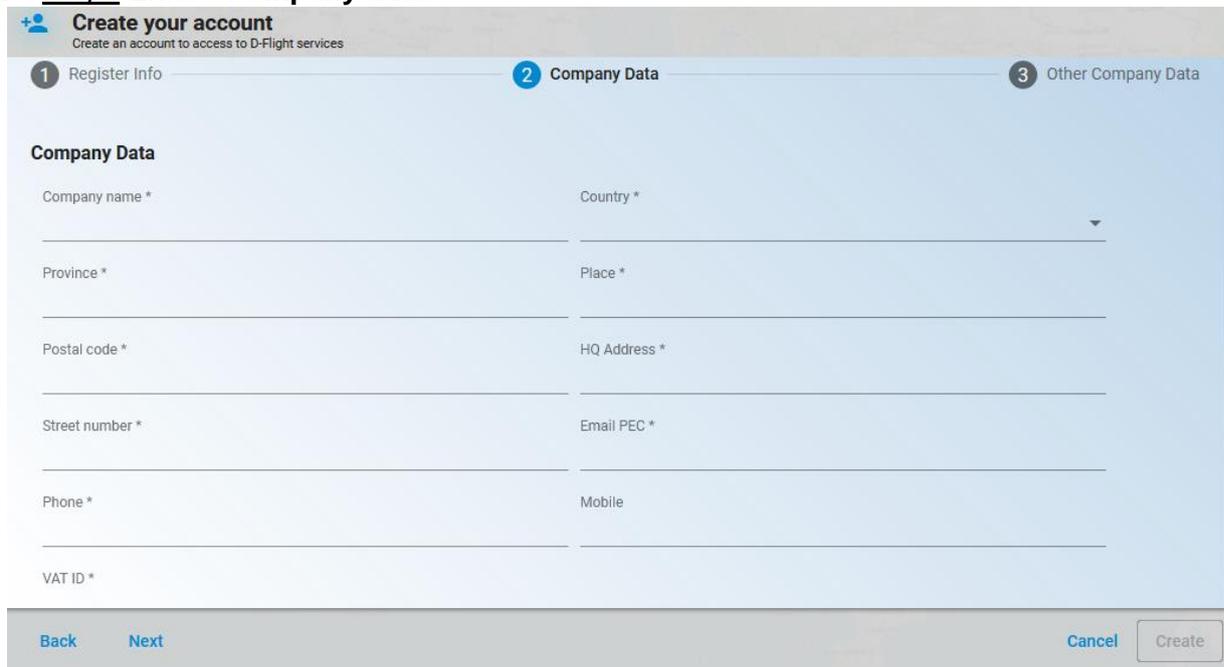
- 1 Register Info**:
  - User Type \*: Company / P.A.
  - Username \*
  - First Name \*
  - Birth country \*
  - Birth place \*
  - C.F./CIF/T.I.N. \*
- 2 Company Data**:
  - Email \*
  - PEC
  - Last Name \*
  - Birth province \*
  - Birth date (mm/dd/yyyy) \*
- 3 Other Company Data**: (No visible fields)

 At the bottom, there are "Back", "Next", "Cancel", and "Create" buttons.

1. Username \* (user ID - nickname) **NW. do not use special characters**
2. Email \*
3. Activate the PEC flag if you want to accredit with the certified mail
4. First name \*
5. Last name \*
6. Birth country \*
7. Birth province \*
8. Birth place \*
9. Birth date \*
10. C.F./CIF/T.I.N \*
11. Select <Next>

*Attention, fields marked with an asterisk (\*) are mandatory*

## 2 Step2 Enter <Company data>



**Create your account**  
Create an account to access to D-Flight services

1 Register Info      2 **Company Data**      3 Other Company Data

**Company Data**

Company name \*      Country \*

Province \*      Place \*

Postal code \*      HQ Address \*

Street number \*      Email PEC \*

Phone \*      Mobile

VAT ID \*

Back    Next      Cancel    Create

1. Company name \*
2. Country\*
3. Province\*
4. Place\*
5. Postal code \*
6. HQ Address \*
7. Street number \*
8. Email PEC \*
9. Phone \*
10. Mobile
11. VAT ID\*
12. Click on <next>

*Warning:*

- The maximum number of characters that can be used to complete the company name is 32, abbreviations can be entered if the number is greater
- The pilot license is associated only to a private user, therefore it cannot be entered by a company / P.A user.

*Attention, fields marked with an asterisk (\*) are mandatory*

**Step 3** Continue by entering <**Other company data**>:

1. Customer type \*
2. Destination code SDI \*
3. IPA code \*
4. Click on <Create>

*Attention, fields marked with an asterisk (\*) are mandatory*

(In case you want to return to the previous page, select <Previous>)

The screenshot shows a web form titled "Create your account" with the subtitle "Create an account to access to D-Flight services". The form is divided into three steps: 1. Register Info, 2. Company Data, and 3. Other Company Data. The current step is "Other Company Data". The form contains three fields: "Customer Type \*" with a dropdown menu showing "Other", "SDI/CIUJ - Destination Code \*" with an empty text input field, and "IPA Code" with an empty text input field. At the bottom of the form, there are four buttons: "Back", "Next", "Cancel", and "Create".

**Step 4** After clicking on <create> you must accept the platform's Terms and Conditions of Use and consent the processing of personal data to complete the inscription.

## GENERAL CONDITIONS

### 1 Terms and conditions of use

1.1. The website "d-flight S.p.A" ([www.d-flight.it](http://www.d-flight.it) below, for brevity, the "Site"), is the website owned by d-flight S.p.A. ("d-flight"), with legal headquarters in Rome, Via Salaria 716, Tax Code and VAT Number. 14996981008, registered in the Register of Enterprises of Rome REA No. 1560988. The Site is the portal dedicated to UAS operators for the provision of the Services (as defined below). It allows, among other things, the registration of operators of unmanned aerial systems (UAS) in the Italian database and the assignment of a unique European identification code for each of them (c.d. QR), pursuant to the European Regulation. (EU) 2019/947 published by EASA, the European Aviation Safety Agency, on 24 May 2019 and the UAS-IT Regulation Ed.1 of 4 January 2020 (the "ENAC Regulation") published by the National Agency of Civil Aviation ("ENAC") and available on the ENAC website at the link: <https://www.enac.gov.it/ia-normativa/normativa-enac/regolamenti/regolamenti-ad-hoc/regolazione-uas-it>. More generally, this Site aims to provide users with information and services related to the recreational and professional use of unmanned aircraft, otherwise known as drones, within national airspace, in accordance with applicable legislation.

## INFORMATION ON THE PROCESSING OF PERSONAL DATA

Pursuant to Article 13 of Regulation (EU) 2016/679

d-flight Spa, with registered office in Rome, via Salaria 716, for the purpose of providing the services assigned to it by the Civil Aviation Authority (ENAC), is sub responsible for the processing of personal data of which Enav Spa is responsible and ENAC is Holder.

d-flight, in the person of its Legal Representative, informs that personal data will be processed in compliance with Italian and European legislation regarding the protection of personal data - EU Regulation 2016/679 - (GDPR) for the purposes it fulfills.

Identity and contact details of the data controller

[Terms and conditions of use of the platform and of the d-flight services and Consent to the processing of personal data](#)

I agree (required)

**Vers. 01.00 (01/03/2020)**

*In submitting the registration request, I declare that I have read and am aware of the Terms and Conditions of use of the platform and services d-flight shown above and to accept them in full. I also consent to the processing of personal data in line with the privacy policy described in detail in the Information on the Processing of Personal Data adopted by d-flight in compliance with the current legislation. According to the Italian Civil Code, art. 1341, subsection 2, the user explicitly declares to accept and undersign the following clauses of the General Conditions: i) art. 3.3; ii) 6.8; iii) 6.11; iv) 8.1; v) art. 8.4; vi) art. 9.1; vii) art. 12.*

[Consent to the processing of data for marketing purposes](#)

I agree

**Vers. 01.00 (01/03/2020)**

*I allow d-flight to use my personal data, in particular my e-mail address, for marketing and communication purposes, such as the invitation to events, the presentation of new products and / or services, the periodic sending of newsletters.*

Annulla

Accetta

**Step5** After completing the <User registration> procedure, you will receive the d-flight email containing the **Activation instructions** at the email address indicated.

Click on "ACTIVATE ACCOUNT".

thank you for registering at D-Flight website. Your account is created and must be activated before you can use it.

After activation you may login by using the following link: <https://www.d-flight.it/web-app/> with *username* and *password*:

User **Name** <user>

Password <password>

To activate the account click on the following link: [Activate Account](#)

*Please note that passwords are personal and non-transferable to others and that under no circumstances D-Flight will be held liable for damage resulting from the loss of passwords and from incorrect use of the service or from the inability to use the service or part of it. The user of the service accepts that D-Flight may, if needed for security reasons and at its sole discretion, revoke the access privilege (password) and activate a procedure for "reassigning" the access keys after having re-ascertained the identity of the entitled person.*

*The user accepts that the activities carried out on the website after accessing the reserved area may be monitored in order to maintain the performance of the service at an adequate level as well as to ensure the correct use of the service and to protect D-Flight or its users from abnormal use of the service. The content of the Log is confidential and may be exhibited only and exclusively at the request of competent Authorities.*

By clicking on the confirmation link you agree to the Terms and Conditions of Use and the policies applied for the Processing of Personal Data set out in the following links:

**Term and Conditions:** [Term and Conditions](#)

**Privacy Policy:** [Information on the processing of personal data](#)

Link is valid for 60 minutes.

Please remember that:

- after one hour from receiving the account activation email, if the link is not clicked, the account will be disabled and, you need to accredit again, 48 hours after failure to activate.
- to complete the inscription and therefore the creation of the account it is not necessary to attach any document

Attention:

In the case of inscription as a "Public Administration":

- the method of payment for the services exclusively involves the bank transfers (IBAN: d-flight Spa, Banca Intesa SanPaolo IT77W030690339010000002200);
- the invoice will be issued in split payment mode.

The e-mail supportopa@d-flight.it dedicated to the Public Administration is also active for the following aspects:

- issue of a quote / quote order, invoice in advance of the transfer, or any supporting documentation (e.g. internal order, DURC, traceability of financial flows, etc.);
- request for inclusion in the CIG invoice and / or references to the determines / orders.

The account activation link takes you to the home page of the d-flight portal. At the first access it is necessary to change the temporary password received via the confirmation email generated by d-flight.

Insert username and old password

Username

Old Password

Chose a new password

Password

Confirm Password

Password criteria = 0%

- The minimum password length shall be 8 alphanumeric chars.
- Password shall not contain spaces.
- Password shall contain at least 1 of the following chars:
  - capital letters (A-Z)
  - lower case letters (a-z)
  - numbers (0-9)
  - special chars (eg. \$, %, ., -, ?, #)

Cancel Confirm

Write credentials received via email in <Username> and <Old Password> .

Write a new password, confirm the new password by rewriting it in <Confirm Password>.

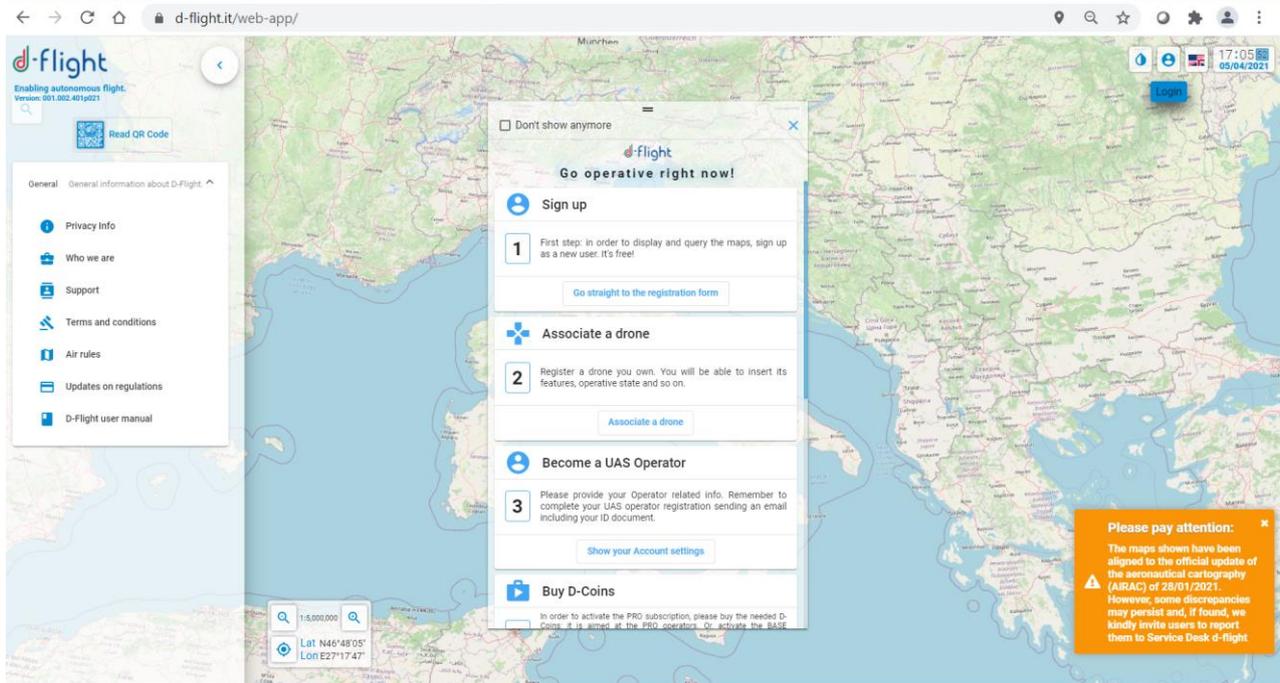
Press <Confirm>.

### 1.3 USER AUTHENTICATION

The USER AUTHENTICATION section provides information for access to the d-flight portal. After accreditation, it is necessary to change the temporary password that is automatically assigned by the system upon account creation.

## 1.3.1 d-flight portal access

From an internet browser connect to the d-flight website (<https://www.d-flight.it/web-app/>)



## 1.3.2 Login

Click on the <Login> icon at the top right of the portal home page.

1. Insert <Username> or <activation email>
2. Insert <Password>
3. Select <Login>

*Attention: to log in to the system you must be signed up*

*If you have forgotten your password, use the link <Forgot Password? > and enter the e-mail address used for account activation*



---

After prolonged inactivity, the system performs an automatic logout.

To access the services, you will need to login again.

When accessing the login, to connect to the d-flight site, as a registered user only, a popup is displayed with the following warning message:

**ATM09** and **'Dangerous Areas'** layers are only available by purchasing a *Basic* or *Pro* subscription.

## 1.4 MAP NAVIGATION

### 1.4.1 Map View

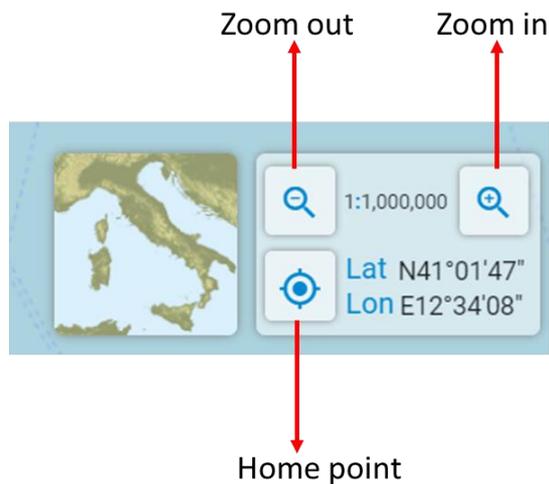
In order to access the map, you must be a registered user on the d-flight platform and have activated a BASIC or PRO subscription.

The cartographic map allows you to view the air rules in the areas of Italy where you would like to fly, it also allows you to view the no fly zones (reserved air areas).

You can move along the map by holding down the left button and moving the mouse at the same time (like "drag and drop").

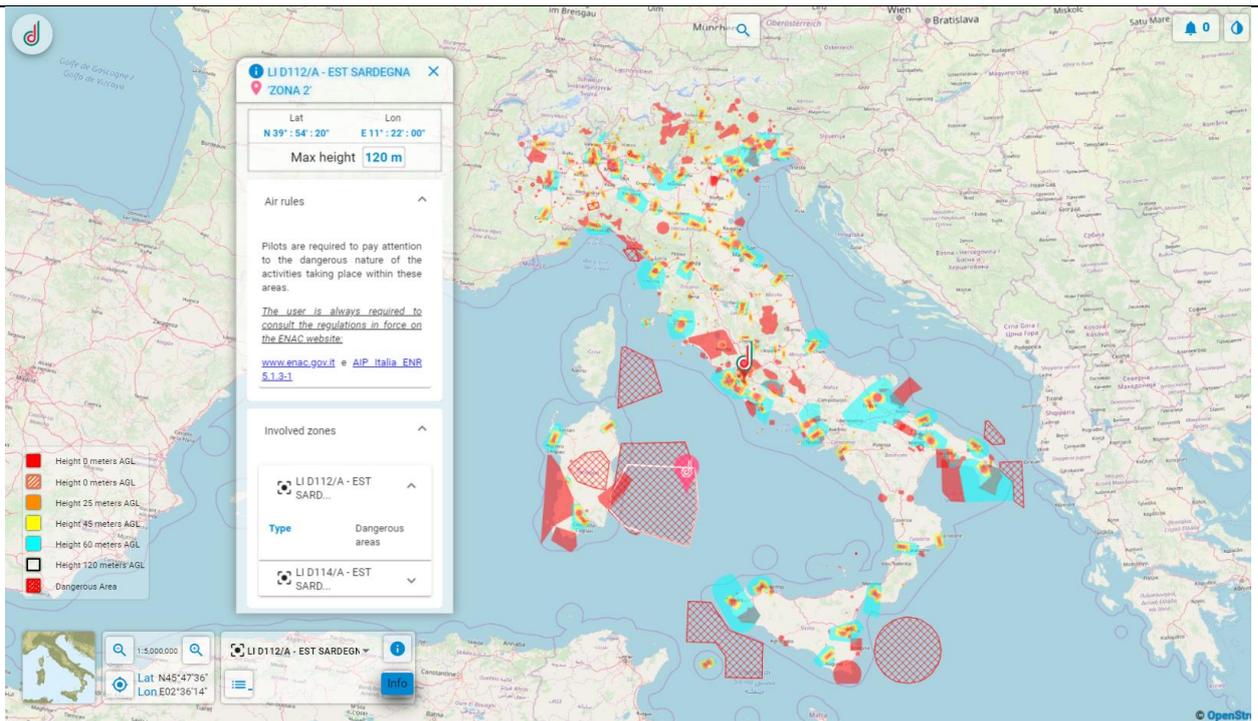
The **map scale** can be changed:

- ✓ Acting on the tabs of zoom in and zoom out (lower left of the screen)
- ✓ Acting on the mouse wheel



**Air rules** can be viewed:

- ✓ With <click left on the map>. The information of the selected point that will activate the corresponding area of interest, will appear briefly in the window below
- ✓ The detail of the information of the selected point will be available with click (left) on the info



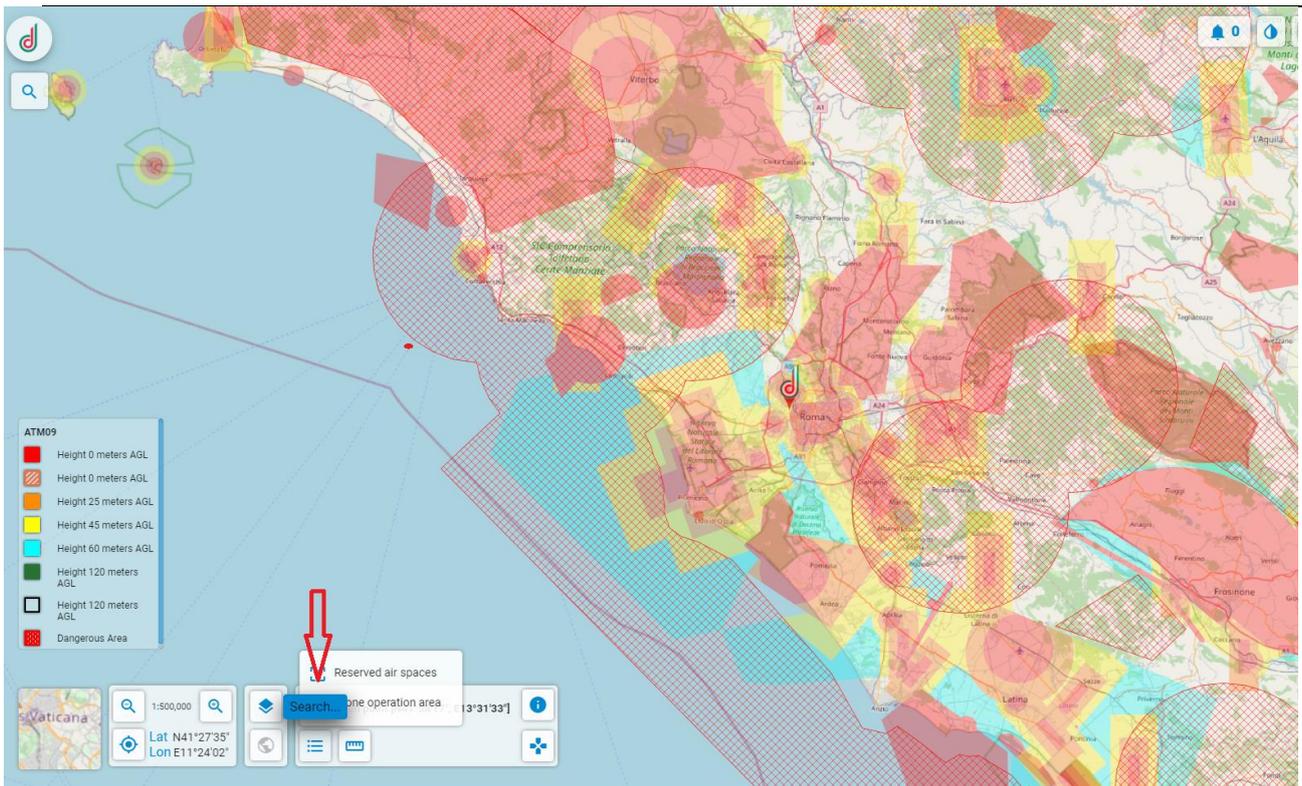
- ✓ With <right click on the map>. The information of the selected point will activate the corresponding zone and it appear in the pop-up.

The <Information on the selected point> window will show the <air rules> and the <zones involved>.

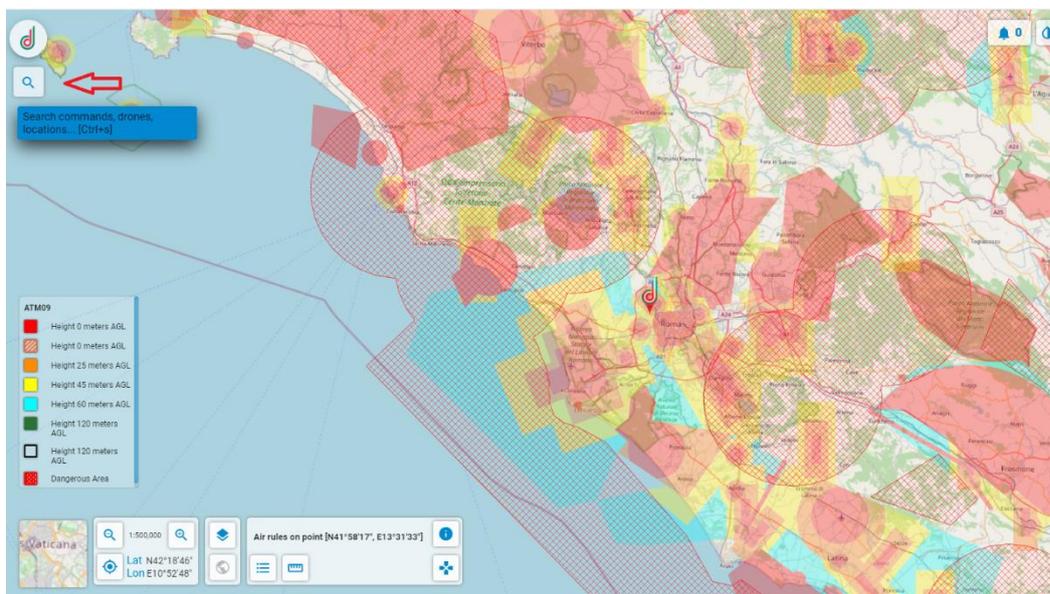
The detail of the rules and zones is available by selecting the drop-down menu.

Information on the representation of the "maximum height" is shown in the legend with different colors.

By clicking on the <Search> icon in the menu at the bottom left, as shown in the following figure, you can view the map and access the list of restricted areas.



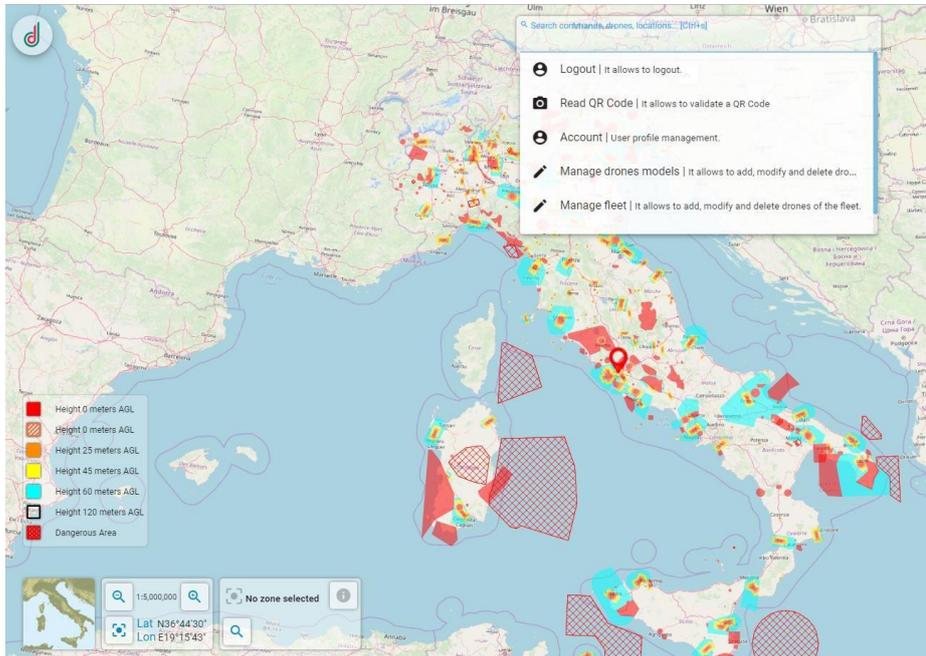
Through the upper left <search> icon it is possible to activate the <search commands or places> window.



Through the <search commands or places> window is possible:

- **Search / Select a site (city) of interest**
- **Access the registration**
- **Read QR**
- **Manage UAS models**

- **Manage fleet**



In order to **look for a site of interest** you can:

1. Write the name of the site you want to look for (a list will appear within the drop down menu)
2. Click on the one you prefer and the system will automatically zoom on the site geographic position.

Or

- 1B. Write the geographical coordinates in WGS 84 format, with lat e lon separated by a space (*example 46.1100 11.3083*)
- 2B. Press enter and the system will automatically zoom on the site

## 1.4.2 Map View and Layers for PRO Users only

On d-flight, in addition to maps which are accessible to all registered users, the following maps and added value layers are instead available to PRO users only:

### Maps

**Aerial** - This map shows orthophotos: geometrically correct and geo-referenced aerial photographs, so that the scale of representation of the photograph is uniform. The map can be considered equivalent to a geographical map

**Road** - This map that displays vectorial images of roads, buildings and geography in a graphic manner. The map can be considered equivalent to a political map.

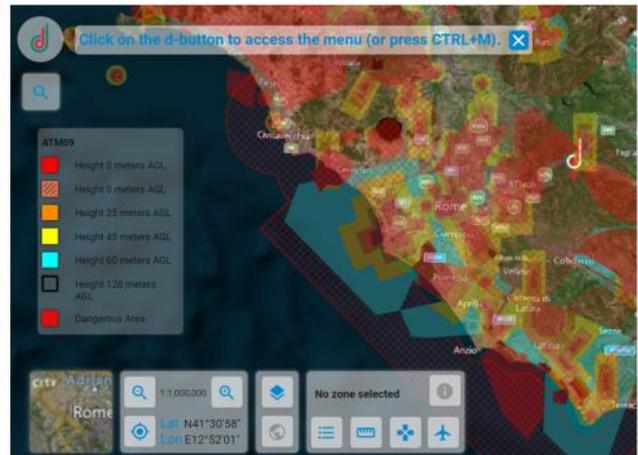
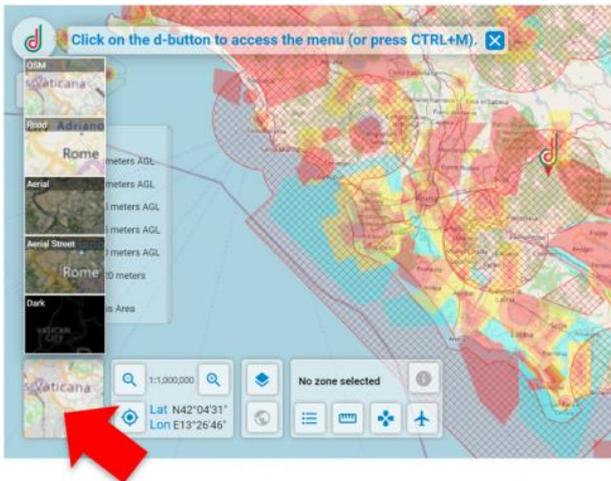
**Aerial Street** - This Aerial map highlights streets and main landmarks for easy identification of places through satellite images (in addition to the openstreetmap, already available on d-flight)

Dark - Map optimized for night viewing

'Aerial', 'Road', 'Aerial Street', 'Dark' Maps include Google Bing data (the data from which the default road map is rendered is licensed by Navteq) and will allow PRO Operators to analyze in more detail the area of operations.

### Activation

To activate Maps, open the Map Selection Panel [Pic. below] and click on the desired Map.



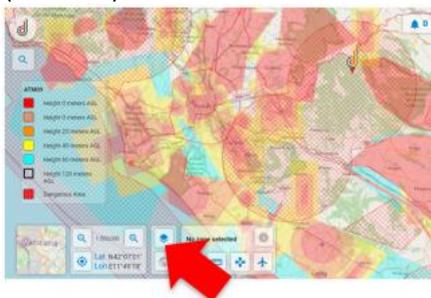
### Layers

- Land use - includes information relating to the environment on some priority issues for the European Union (air, water, soil, land cover, coastal erosion, biotopes, etc.)
- Census - includes information on the number of inhabitants by census section

The 'Land use' layer includes data provided by the CORINE 2018 project (a European program launched in 1985 by the European Commission) and will allow PRO Operators to carry out a preliminary analysis of the ground risk for the preparation of the SORA.

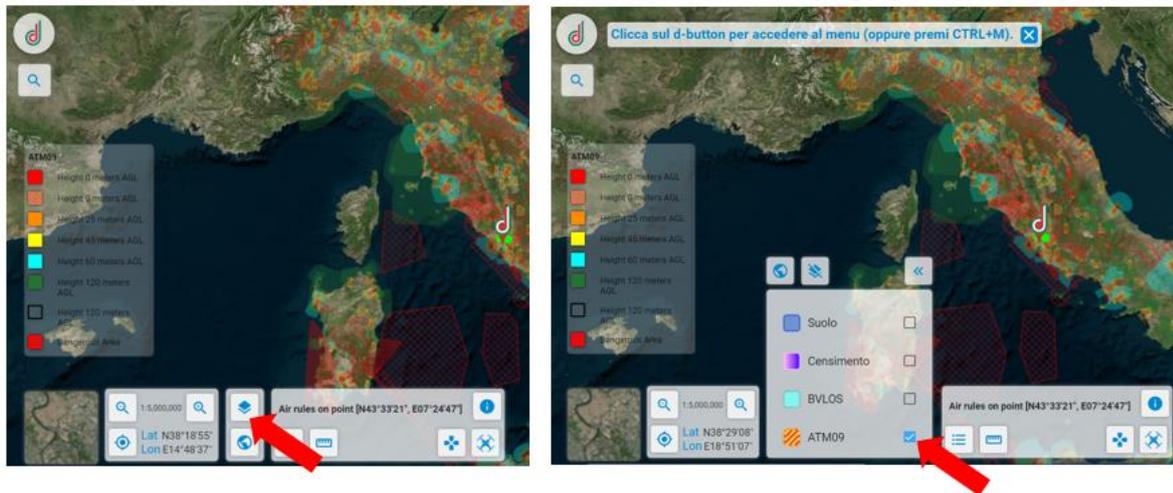
The 'Census' layer includes the ISTAT data from the 2011 census and will allow PRO Operators to carry out a preliminary analysis of the ground risk for the preparation of the SORA

To activate the Land Use and Census layers, click on the 'Show Layers' button and select the 'Soil' and / or 'Census' layer [Fig. 2]. NB. The 'Land Use' and 'Census' layers are visible when the zoom is equal to or greater than 1: 20,000 (Land Use) or 1: 50,000 (Census)



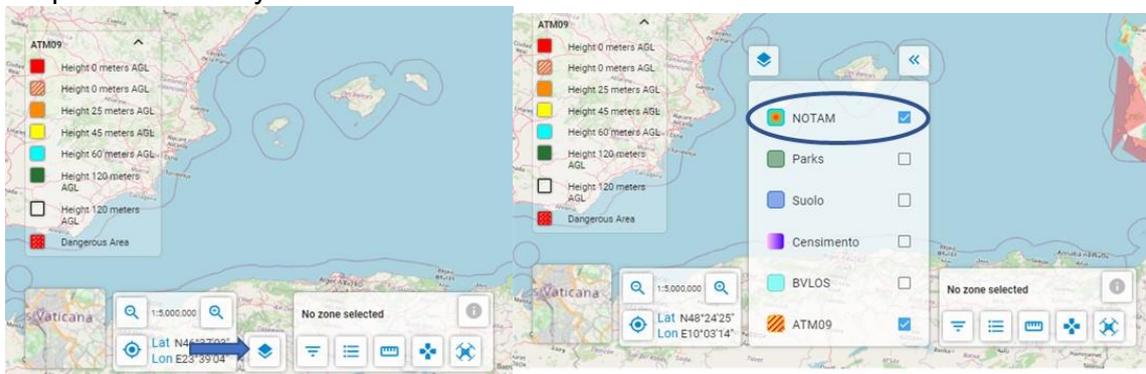
### ATM-09 activated/deactivated

Only for Pro users, the ATM-09 layer can be activated/deactivated. This operation can be done again from the panel 'Show Layers':



### NOTAM activated/deactivated

Only for Pro users, the NOTAM layer can be activated/deactivated. This operation can be done again from the panel 'Show Layers':

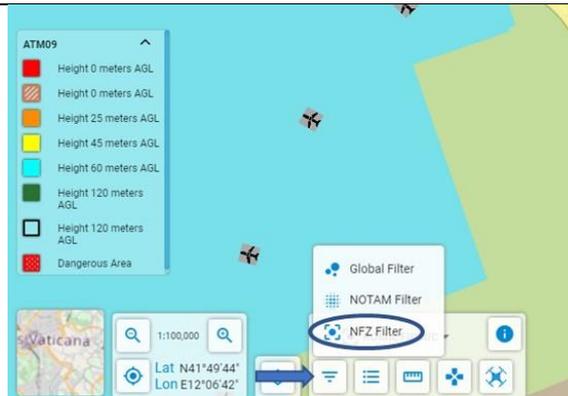


### 1.4.3 NFZ and NOTAM filters for PRO Users only

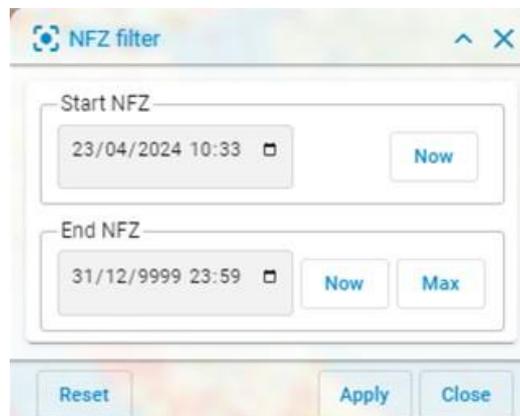
For PRO users it is possible to filter geographical areas with flight restrictions or reserved areas, NFZ and NOTAM on the map, in accordance with their activation times.

#### NFZ filter

To use the map filter relating to NFZs, click on the 'Show Filters' button, shown in the figure below, and select the 'NFZ Filter' filter.



Below is the panel available to the user relating to the NFZ filter



From this panel it is possible to set a time interval by modifying one or more parameter values: NFZ validity start, changeable only from the current date and time onwards, and end dates. The dates of the time interval are accompanied by pre-set buttons that indicate the setting of the current date and time "Now" and the maximum possible date "Max".

As a result of applying the filter you will get the following:

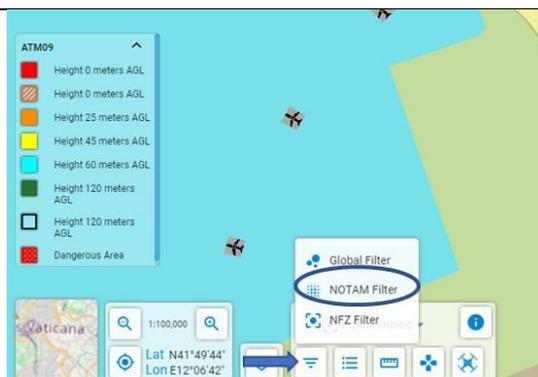
- the NFZ layer is reloaded by applying the set filter, the set of geometries visible on the map changes accordingly;
- only the NFZs whose validity dates satisfy the set time filter are visible on the map;
- at the top left, a message is visible reminding you of the application of a temporal filter different from the default one (the filter applied when the Web-App is opened);

At the top left, the "NFZ" label appears. 

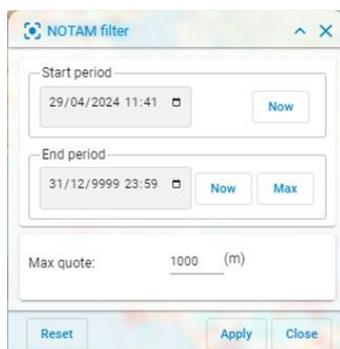
The "Reset" button allows the filter to be returned to its initial value and the NFZ layer immediately reloaded. The dates are restored to default values and the layer returns to showing the NFZs that were seen when entering the Web-App. The notification panel, the one shown at the top left, disappears.

### NOTAM filter

To use the map filter relating to NOTAMs, click on the 'Show Filters' button, shown in the figure below, and select the 'NOTAM Filter' filter.



Below is the panel available to the user relating to the NOATM filter



From this panel it is possible to set a time interval by modifying one or more parameter values: NOTAM validity start, changeable only from the current date and time onwards, and end dates, max quota. The dates of the time interval are accompanied by pre-set buttons that indicate the setting of the current date and time "Now", the minimum possible date "Min" and the maximum possible date "Max".

As a result of the application, the set of NOTAMs visible on the map changes depending on the filter.

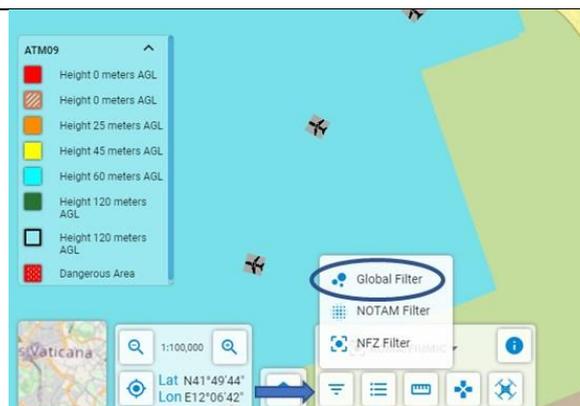
At the top left, the "NFZ" label appears.

The "Reset" button allows the filter to be returned to its initial value and the NOTAM layer immediately reloaded. The dates are restored to default values, as well as the max quote and the layer returns to showing the NOTAM that were seen when entering the Web-App. The notification panel, the one shown at the top left, disappears.

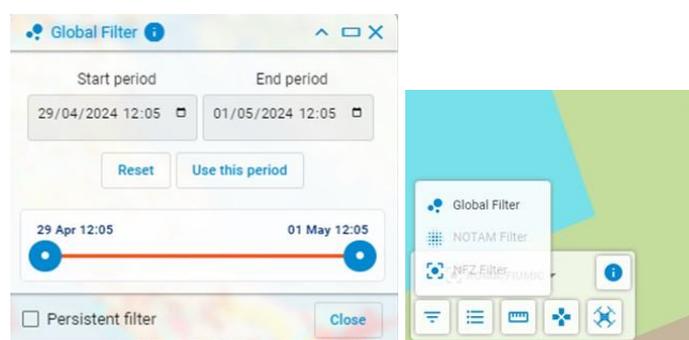
#### 1.4.4 Global Slider filters for PRO Users only

For PRO users it is possible to use a global time filter to filter on the map for the NFZ, BVLOS and NOTAM, in accordance with their activation times.

To use the global filter on the map, click on the 'Show Filters' button and select the 'Global Filter' filter. Once activated, this global filter will deactivate the other temporal filters related to NFZ, NOTAM and BVLOS.



Below is the panel available to the user relating to the Global Filter



The panel offers several filter modes:

- start of period (changeable only from the current date and time onwards), end of period (default two days starting from the current day);
- “Use this period” button to set the chosen period on the slider;
- “Reset” button to reset the filter to initial conditions;
- “Persistent Filter” check box to keep the filter active even after closing the panel;
- The information button (i) shows the following

**Note.** This filter is applied at the same time to NOTAM, NFZ and BVLOS layers and disables the others. Clicking on the checkbox, the filter remains active when closing the panel.

From this panel, using a time period with the slider, the filter is applied on the set of NFZ, BVLOS and NOTAM corresponding to the selected filter. The objects are visible on the map. It is not possible to move the start of the filter period back from the current date and time of application of the filter.

At the top left, the “Global” label appears.

By closing the panel if the "Persistent Filter" check box is not selected, the layers are restored to their initial state. However, if the check box is selected, the set filter is maintained as is the "Global" label at the top left.

## 1.5 PROFILE MANAGEMENT

The PROFILE MANAGEMENT section provides information on the procedures for displaying and modifying your profile:

- ✓ **Data management**
- ✓ **Change PSW**
- ✓ **User Enabling as Operator**

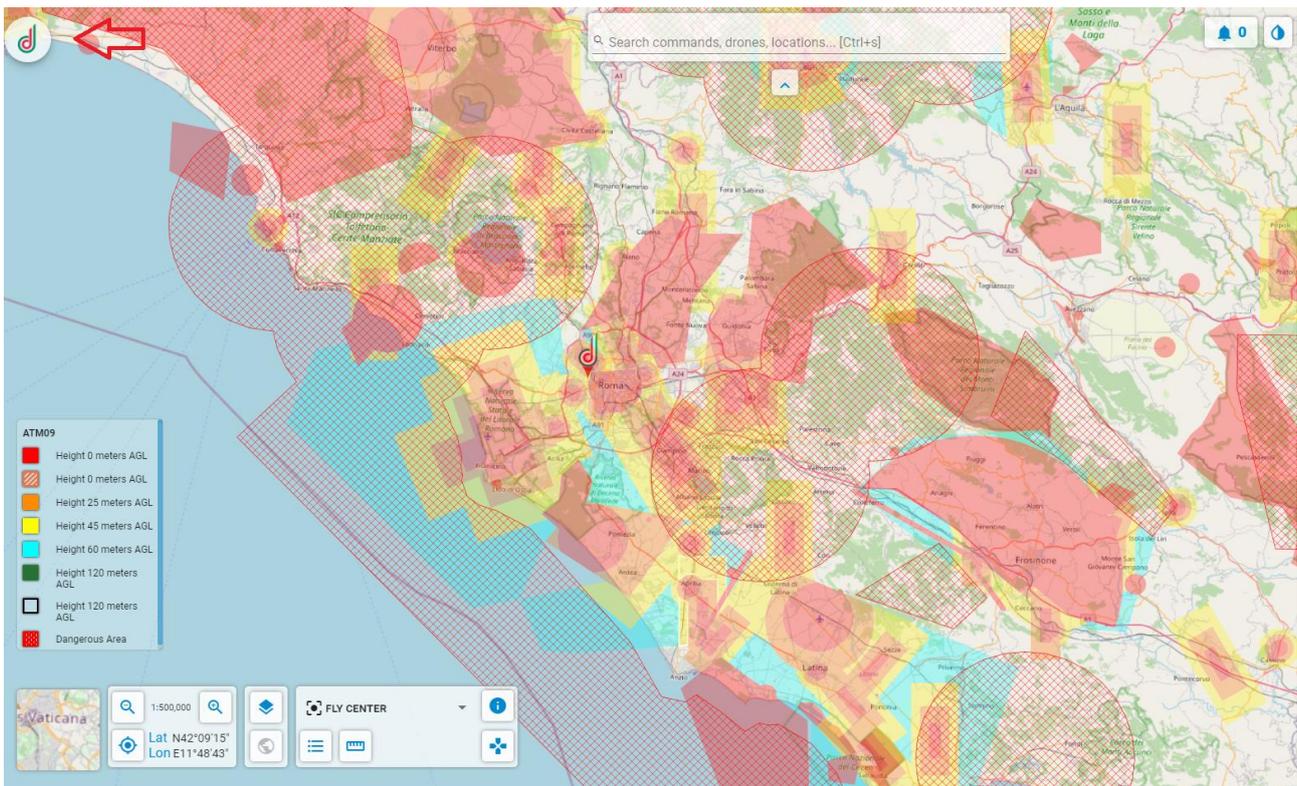
### 1.5.1 Data management

This subsection provides information on the procedures for viewing and editing the profile details of the user.

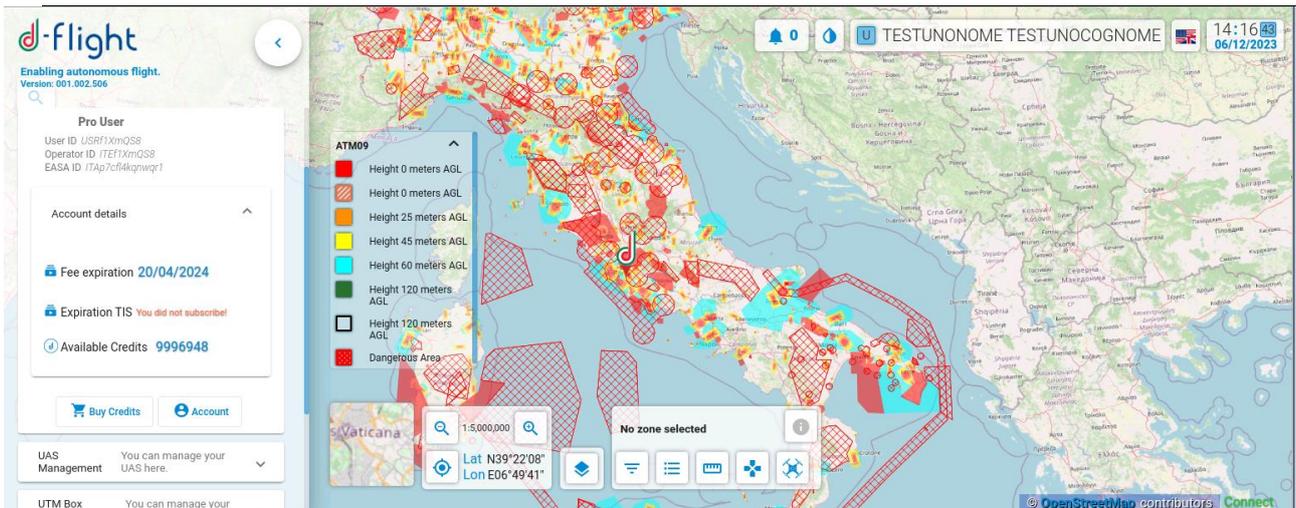
#### 1.5.1.1 View Data

To view the details of your account (Fee expiry and Credits):

Left click on the d-flight icon.

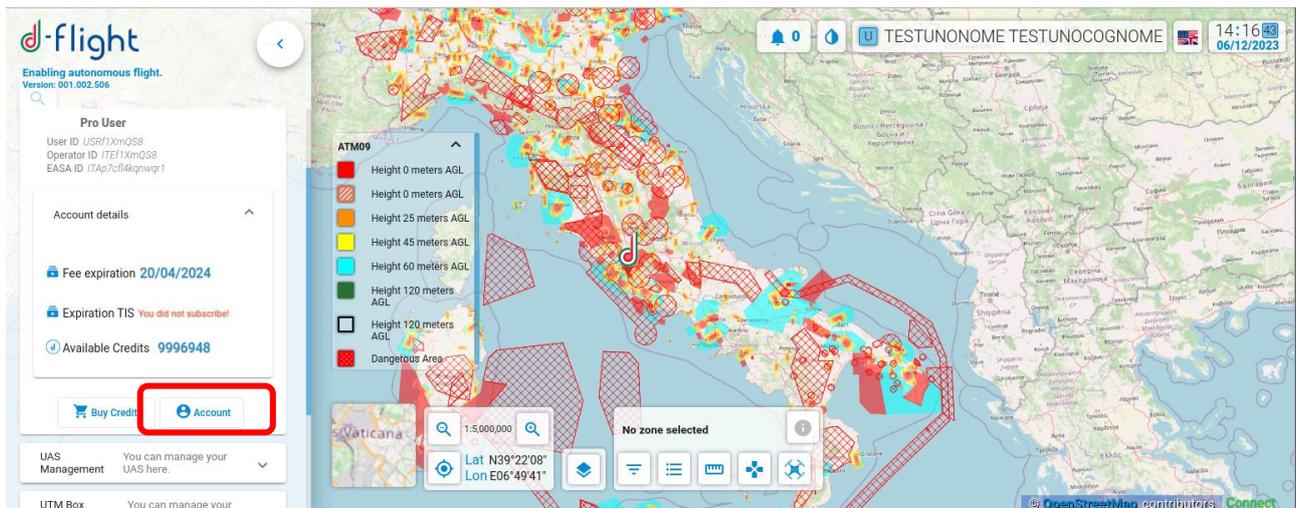


A sidebar will appear with the account details: username, subscription type, User Code, Operator Code, EASA Code, Subscription Expiration and Available Credits.



## 1.5.1.2 Edit Data

To **update** your profile details (left) click on **<Account>**



The **<Account Details>** appears. The following Tabs allows viewing and editing of: inscription information, user data, UAS operator activation, pilot license and special profile activation "Government Operator / Emergency".

**Account Details**

Info
UAS Operator
Pilot Certificate
Government/Emergency Operator

---

**Register Info**

User Type  
Private individual

Username  Email   PEC

First Name  Last Name

Birth country  Birth region

Birth province  Birth place

Birth date (mm/dd/yyyy)  C.F./C.F./I.L.N.

**Consent to the processing of data for marketing purposes**  
Vers. 01.00 (01/03/2020)

I allow d-flight to use my personal data, in particular my e-mail address, for marketing and communication purposes, such as the invitation to events, the presentation of new products and / or services, the periodic sending of newsletters.  Accept

---

**User Data**

Country of residence \*  
Italy

Region of residence \*  Province of residence \*

Place of residence \*  Postal code \*

Address of residence \*  Street number of residence \*

Save Close

### <Information> Tab

Selecting the <Information> Tab will be possible:

- ✓ display the <Account Information>
- ✓ view / modify <User Data>
- ✓ for UAS operators, government/emergency operators, pilots, validate the cell phone number

### <UAS Operator> Tab

By selecting the Tab <UAS Operator> it will be possible to register further as an operator UAS.

Account Details

Info
UAS Operator
Pilot Certificate
Government/Emergency Operator

UAS Operator - CANCELLED

UAS Operator

Document Type \*

Identity Card

Document Id \*

---

Released by \*

---

Released on (mm/dd/yyyy) \*

---

Expires on (mm/dd/yyyy) \*

---

Validate document with sp:d

**Consent to Operator regulatory constraints**

Vers. 01.00 (01/03/2020)

I declare:

- compliance with all applicable provisions of Regulation in force/li>
- adequate insurance coverage will be provided for each flight made on the basis of the declaration, as required by national and Union legislation

Accept \*

**Acceptance of information constraints Presidential Decree 445 of 2000**

Vers. 01.00 (01/03/2020)

By providing the identification data of my person's identity document, I consent to their management pursuant to Presidential Decree 445 of 2000.

Accept \*

**Optional consensus for publishing own personal data**

Vers. 01.01 (03/10/2020)

By providing permission I agree to the publication of my first name, last name, email/email PEC, city of residence on d-flight portal in the PRO operator list.

Accept

**NOTE:**  
 It is not possible to register on behalf of other people.  
 We remind you that false declarations or statements made without the prior authorization by the legitimated subject can be prosecuted according to the provisions of art. 483 and 494 of the penal code.  
 d-flight is not in way responsible and/or liable for the use or the unlawful processing, by any third party which has access to the site, of personal data published on d-flight portal.

Save
Close

It is necessary to:

- check on <UAS Operator>
- insert the personal data (or directly validate the document through spid)
  - Document type
  - Document ID
  - Issuing body
  - Release date
  - Expiration date
- Accept the Consent to the Operator regulatory constraints and to the information constraints Presidential Decree 445 of 2000.

**ATTENTION:**

To be able to register as an Operator is mandatory to have an active BASE or Pro subscription. Before being completely registered as an operator, the user will receive an email with instructions for the activation procedure:

- send by e-mail with which you registered on d-flight to the e-mail address [registration@d-flight.it](mailto:registration@d-flight.it), within two working days, a copy of the identity document, legible and valid, signed, and the operator ID

If you are under the age of 18, you must also attach, still via pdf file, the signed scan of a document of your parent or guardian, valid.

If you are registering a legal personality, and you are not its legal representative, you must also attach, still via pdf file, the proxy of the legal representative and the signed copy of his identity document, currently valid (delegating)

If you are registering a public office or PA, and you are not its Manager in charge, you must also attach, always via pdf file, the proxy of the Manager in charge and the signed copy of his identity document, currently valid (delegating).

It is not possible to register on behalf of other people.

The pilot license is associated only to a private user, therefore it cannot be entered by a company / P.A user.

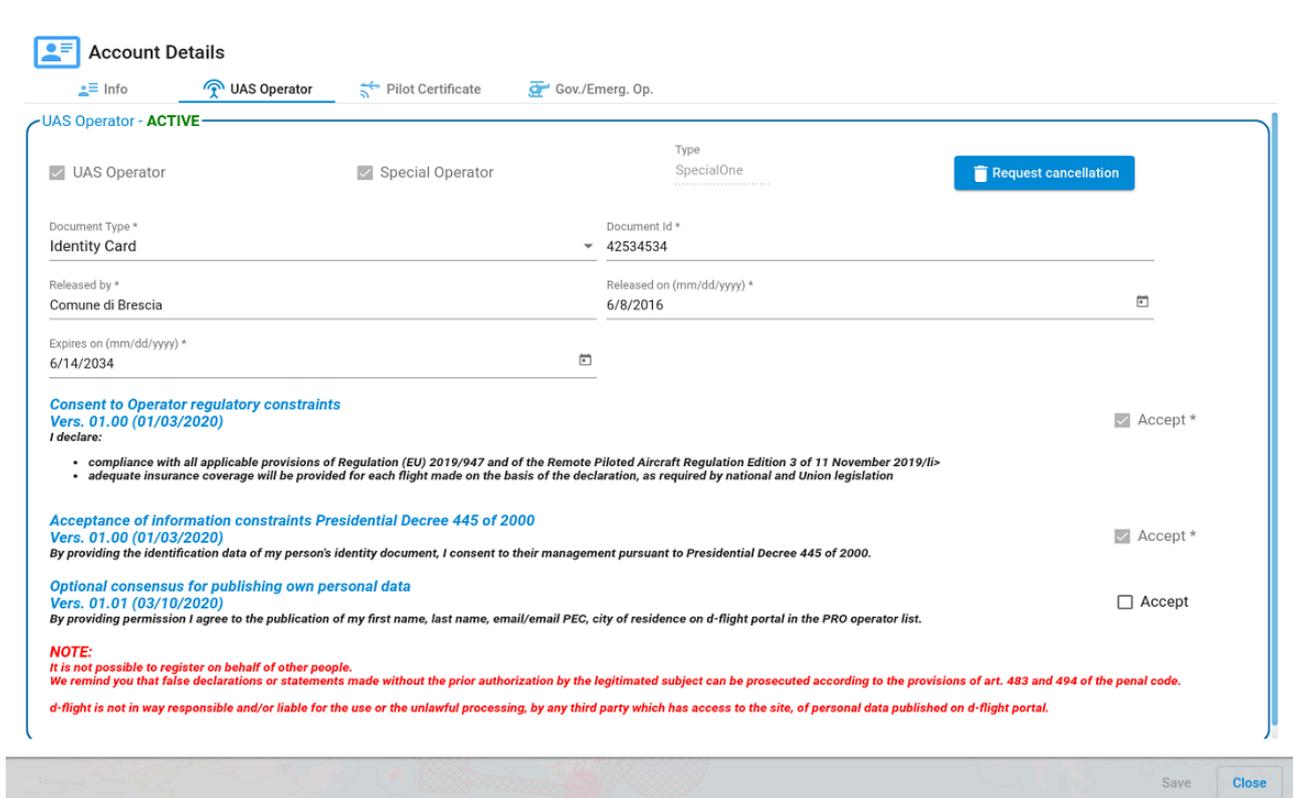
Once the required documents have been sent to the email registration@d-flight.it and received the automatic notification of correct delivery email, **the registration as UAS Operators must be considered immediately effective**; if incorrect and / or incomplete data emerge from the documentary confirmation, d-flight will promptly send evidence for the necessary changes / additions. Alternatively, it is possible to validate your identification document through SPID authentication.

The user can be qualified as Special Operator.

In this case, information about the type of accredited special operator will be displayed.

The Special Operator profile is a profile that is assigned by d-flight.

Once the profile is active, the window appears as it follows:



**Account Details**

Info UAS Operator Pilot Certificate Gov./Emerg. Op.

**UAS Operator - ACTIVE**

UAS Operator  Special Operator Type: SpecialOne [Request cancellation](#)

Document Type \* **Identity Card** Document Id \* **42534534**

Released by \* **Comune di Brescia** Released on (mm/dd/yyyy) \* **6/8/2016**

Expires on (mm/dd/yyyy) \* **6/14/2034**

**Consent to Operator regulatory constraints**  
Vers. 01.00 (01/03/2020)  Accept \*

**Acceptance of information constraints Presidential Decree 445 of 2000**  
Vers. 01.00 (01/03/2020)  Accept \*

**Optional consensus for publishing own personal data**  
Vers. 01.01 (03/10/2020)  Accept

**NOTE:**  
It is not possible to register on behalf of other people.  
We remind you that false declarations or statements made without the prior authorization by the legitimated subject can be prosecuted according to the provisions of art. 483 and 494 of the penal code.  
d-flight is not in way responsible and/or liable for the use or the unlawful processing, by any third party which has access to the site, of personal data published on d-flight portal.

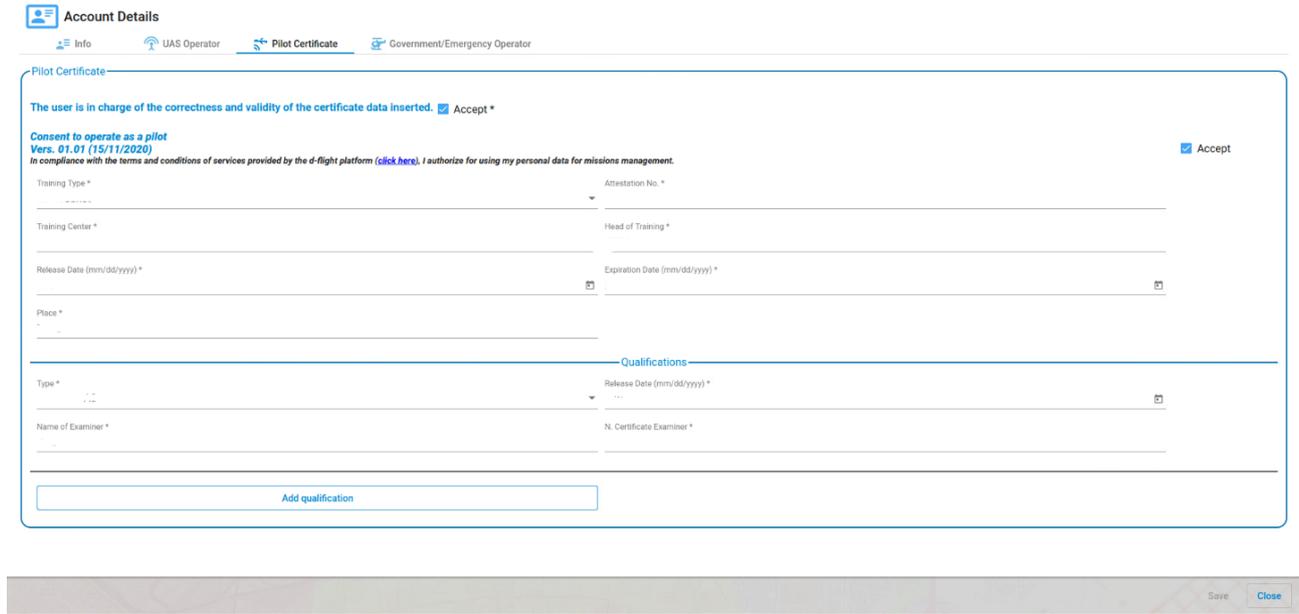
Save [Close](#)

It indicates:

- The state of the operator, that could be ACTIVE, SUSPENDED, REVOKED, CANCELLED
- Any information regarding the special operator profile
- The personal data of the operator
- The option that permits to require the cancellation

### <Pilot License> Tab

By selecting the <Pilot License> Tab it will be possible to **view / modify** the data of your <Pilot License> entered during the registration phase.



The screenshot shows the 'Pilot Certificate' tab within the 'Account Details' section. The form includes a consent statement: 'The user is in charge of the correctness and validity of the certificate data inserted.  Accept \*'. Below this is a section for 'Consent to operate as a pilot' with version '01.01 (15/11/2020)' and a link to terms and conditions. The form fields are organized into two columns: 'Training Type \*' and 'Attestation No. \*' in the top row; 'Training Center \*' and 'Head of Training \*' in the second row; 'Release Date (mm/dd/yyyy) \*' and 'Expiration Date (mm/dd/yyyy) \*' in the third row; and 'Place \*' in the fourth row. A 'Qualifications' section follows, with 'Type \*' and 'Release Date (mm/dd/yyyy) \*' in the top row, and 'Name of Examiner \*' and 'N. Certificate Examiner \*' in the bottom row. An 'Add qualification' button is located at the bottom of the form. At the bottom right of the page, there are 'Save' and 'Close' buttons.

Enter the data required by the form and press the <Save> button.

### <Government/Emergency Operator> Tab

By selecting the Tab <Government/Emergency Operator> it will be possible to request activation of the special Government/Emergency Operator profile.

## Account Details

Info UAS Operator Pilot Certificate **Government/Emergency Operator**

### Government/Emergency Operator

**Not active profile**

Government/Emergency Operator

Organization/Staff/Designation/Business name

.....

The request for access to the special profile "Government/Emergency Operator" is available only for HEMS operators, search and rescue operators, fire extinguishing carried out also on behalf of the Civil Protection or, in any case, to airmen operators (pilots of directly operated vehicles, e.g. helicopters, aircraft, canadair, et cetera) who report to institutions recognized by the Italian State who need to make flights at low and very low altitudes (e.g., the list is not exhaustive, Fire Brigade, State Police, Carabinieri, Coast Guard, etc.) in safe conditions with regard to the flight of "unmanned" drones.

**Other users of the platform are requested not to make accreditation requests in the absence of the aforementioned requirements (UAS Operators, even when under Italian State Institutions, do not meet the requirements).**

After the request, in order to obtain the actual accreditation, it will be necessary to send a PEC to the mail address [protocollogenerale@pec.d-flight.it](mailto:protocollogenerale@pec.d-flight.it), attaching a signed copy of a valid identity document and a short text specifying the following information:

- Name and Surname
- Fiscal Code
- Membership institution or company
- Role and grade/title held (e.g. "heli pilot of CC di Belluno, Major", or "Canadair pilot VVFF Cagliari")
- License (or other certificate relating to the authorization to fly)
- PEC to be used for the reply (if different from the sender's one)
- Telephone number to contact in case of additional or unexpected communications (preferably mobile)

Save **Close**

Enter the requested data.

Click on <Save> to complete the insertion

Click on <Close> to exit without saving

After the click on <Save> an email is sent to the user with the instruction to follow in order to conclude the request

The request for the access to the Government/Emergency Operator profile passes through an evaluation phase:

**Account Details**

Info UAS Operator Pilot Certificate **Gov./Emerg. Op.**

**Government/Emergency Operator**

Profile waiting activation

Government/Emergency Operator

**The request for access to the Government/Emergency Operator profile is being evaluated**

Organization/Staff/Designation/Business name  
dsadsadsa

The request for access to the special profile "Government/Emergency Operator" is available only for HEMS operators, search and rescue operators, fire extinguishing carried out also on behalf of the Civil Protection or, in any case, to airmen operators (pilots of directly operated vehicles, e.g. helicopters, aircraft, canadair, et cetera) who report to institutions recognized by the Italian State who need to make flights at low and very low altitudes (e.g., the list is not exhaustive, Fire Brigade, State Police, Carabinieri, Coast Guard, etc.) in safe conditions with regard to the flight of UAS.

**Other users of the platform are requested not to make accreditation requests in the absence of the aforementioned requirements (UAS Operators, even when under Italian State Institutions, do not meet the requirements).**

After the request, in order to obtain the actual accreditation, it will be necessary to send a PEC to the mail address [protocollogenerale@pec.d-flight.it](mailto:protocollogenerale@pec.d-flight.it), attaching a signed copy of a valid identity document and a short text specifying the following information:

- Name and Surname
- Fiscal Code
- Membership institution or company
- Role and grade/title held (e.g. "heli pilot of CC di Belluno, Major", or "Canadair pilot VVFF Cagliari")
- License (or other certificate relating to the authorization to fly)
- PEC to be used for the reply (if different from the sender's one)
- Telephone number to contact in case of additional or unexpected communications (preferably mobile)

Save Close

If the request is rejected, the Government/Emergency Operator profile continues to be not active and the reason of the rejection appears on the on the page:

**Account Details**

Info UAS Operator Pilot Certificate **Gov./Emerg. Op.**

**Government/Emergency Operator**

Not active profile

Government/Emergency Operator

**The recent request for profile activation was rejected with reason: "non adeguato"**

Organization/Staff/Designation/Business name  
dsadsadsa

The request for access to the special profile "Government/Emergency Operator" is available only for HEMS operators, search and rescue operators, fire extinguishing carried out also on behalf of the Civil Protection or, in any case, to airmen operators (pilots of directly operated vehicles, e.g. helicopters, aircraft, canadair, et cetera) who report to institutions recognized by the Italian State who need to make flights at low and very low altitudes (e.g., the list is not exhaustive, Fire Brigade, State Police, Carabinieri, Coast Guard, etc.) in safe conditions with regard to the flight of UAS.

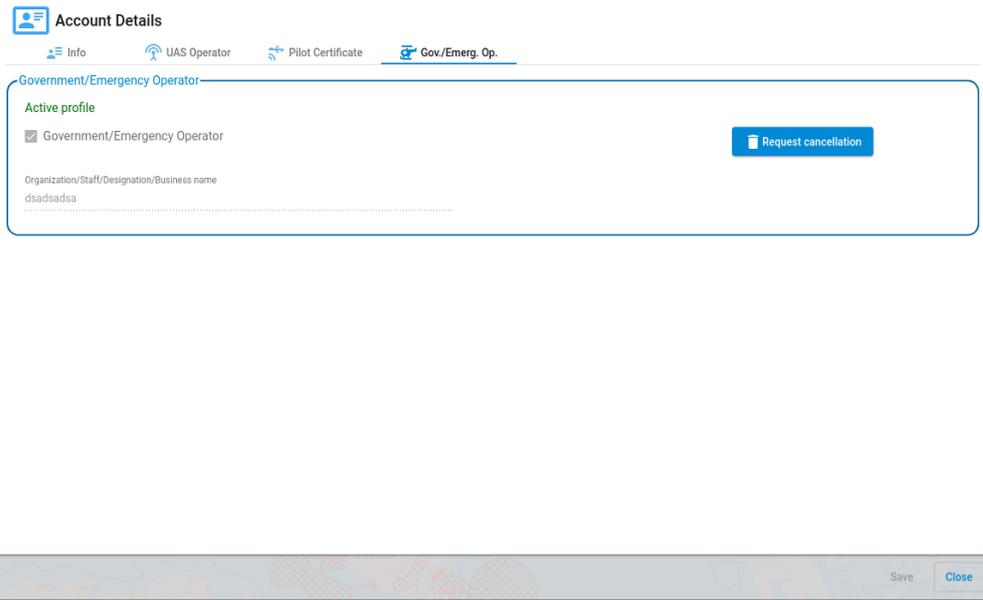
**Other users of the platform are requested not to make accreditation requests in the absence of the aforementioned requirements (UAS Operators, even when under Italian State Institutions, do not meet the requirements).**

After the request, in order to obtain the actual accreditation, it will be necessary to send a PEC to the mail address [protocollogenerale@pec.d-flight.it](mailto:protocollogenerale@pec.d-flight.it), attaching a signed copy of a valid identity document and a short text specifying the following information:

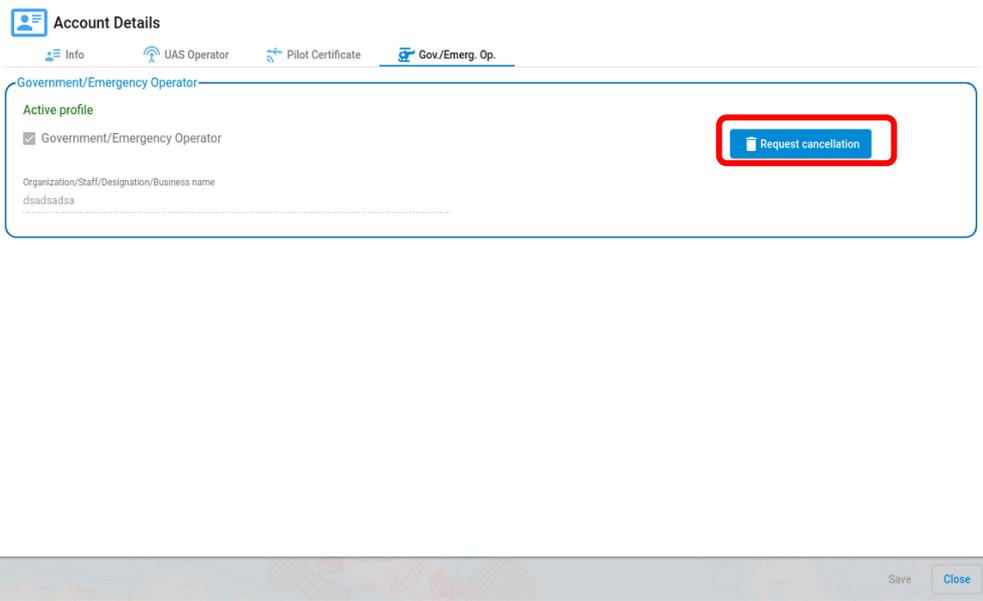
- Name and Surname
- Fiscal Code
- Membership institution or company
- Role and grade/title held (e.g. "heli pilot of CC di Belluno, Major", or "Canadair pilot VVFF Cagliari")
- License (or other certificate relating to the authorization to fly)
- PEC to be used for the reply (if different from the sender's one)
- Telephone number to contact in case of additional or unexpected communications (preferably mobile)

Save Close

If the request is accepted, the Government/Emergency Operator profile is active:



To request the cancellation of the profile click on the icon *<Request cancellation>*



The system asks for confirmation of the cancellation operation.

Select:

- ✓ *<OK>* to confirm the deletion
- ✓ *<Cancel>* to exit without making changes

The request for the cancellation of the Government/Emergency Operator profile passes through an evaluation phase

**Account Details**

Info UAS Operator Pilot Certificate **Gov./Emerg. Op.**

**Government/Emergency Operator**

Profile waiting removal

Government/Emergency Operator

**The request to remove the Government/Emergency Operator profile is being evaluated**

Organization/Staff/Designation/Business name  
dsadsadsa

Save Close

If the request is accepted, the Government/Emergency Operator profile returns not active.

**Account Details**

Info UAS Operator Pilot Certificate **Gov./Emerg. Op.**

**Government/Emergency Operator**

**Not active profile**

Government/Emergency Operator

Organization/Staff/Designation/Business name  
dsadsadsa

The request for access to the special profile "Government/Emergency Operator" is available only for HEMS operators, search and rescue operators, fire extinguishing carried out also on behalf of the Civil Protection or, in any case, to airmen operators (pilots of directly operated vehicles, e.g. helicopters, aircraft, canadair, et cetera) who report to institutions recognized by the Italian State who need to make flights at low and very low altitudes (e.g., the list is not exhaustive, Fire Brigade, State Police, Carabinieri, Coast Guard, etc.) in safe conditions with regard to the flight of UAS.

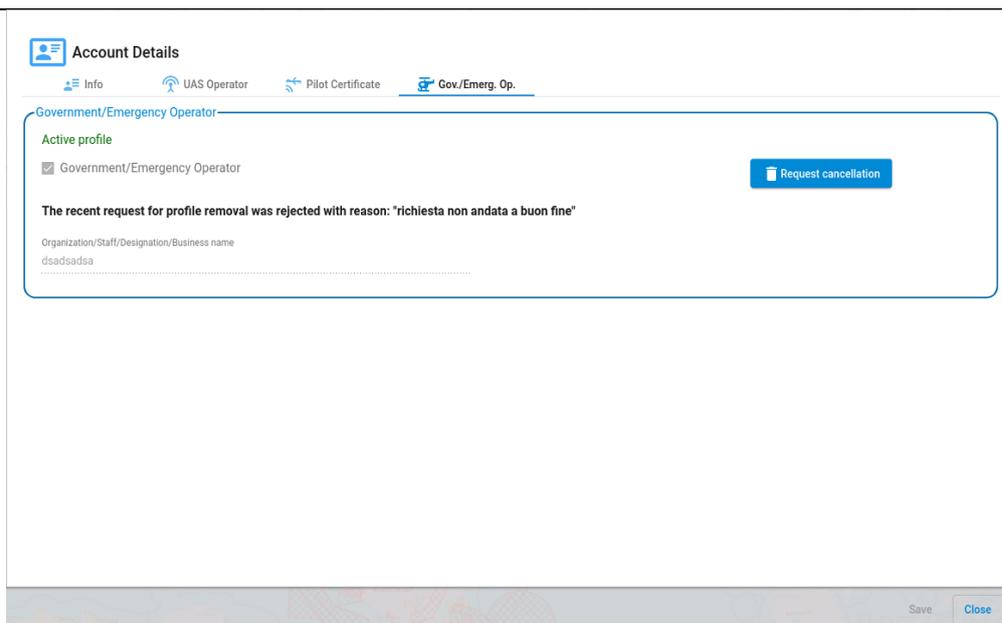
**Other users of the platform are requested not to make accreditation requests in the absence of the aforementioned requirements. (UAS Operators, even when under Italian State Institutions, do not meet the requirements).**

After the request, in order to obtain the actual accreditation, it will be necessary to send a PEC to the mail address [protocollogenerale@pec.d-flight.it](mailto:protocollogenerale@pec.d-flight.it), attaching a signed copy of a valid identity document and a short text specifying the following information:

- Name and Surname
- Fiscal Code
- Membership institution or company
- Role and grade/title held (e.g. "heli pilot of CC di Belluno, Major", or "Canadair pilot WVFF Cagliari")
- License (or other certificate relating to the authorization to fly)
- PEC to be used for the reply (if different from the sender's one)
- Telephone number to contact in case of additional or unexpected communications (preferably mobile)

Save Close

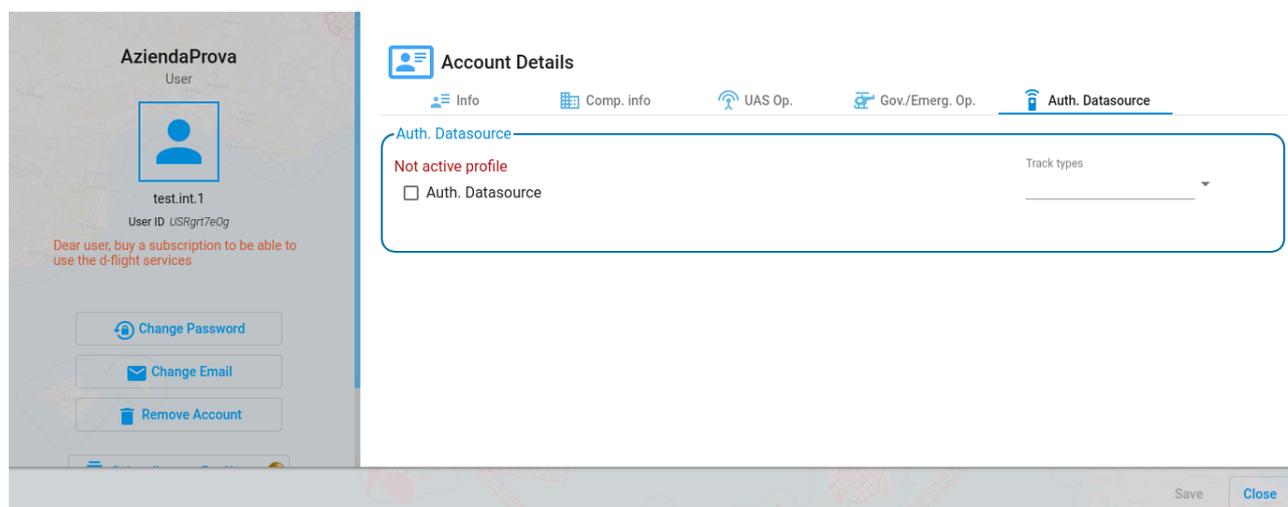
If the request is rejected, the Government/Emergency Operator profile continues to be active and the reason of the rejection appears on the on the page:



### <Auth. Datasource> Tab

If the User Type is Company/P.A it is possible to access to the Tab <Auth. Datasource> where it will be possible to request the activation of a special Auth. Datasource profile.

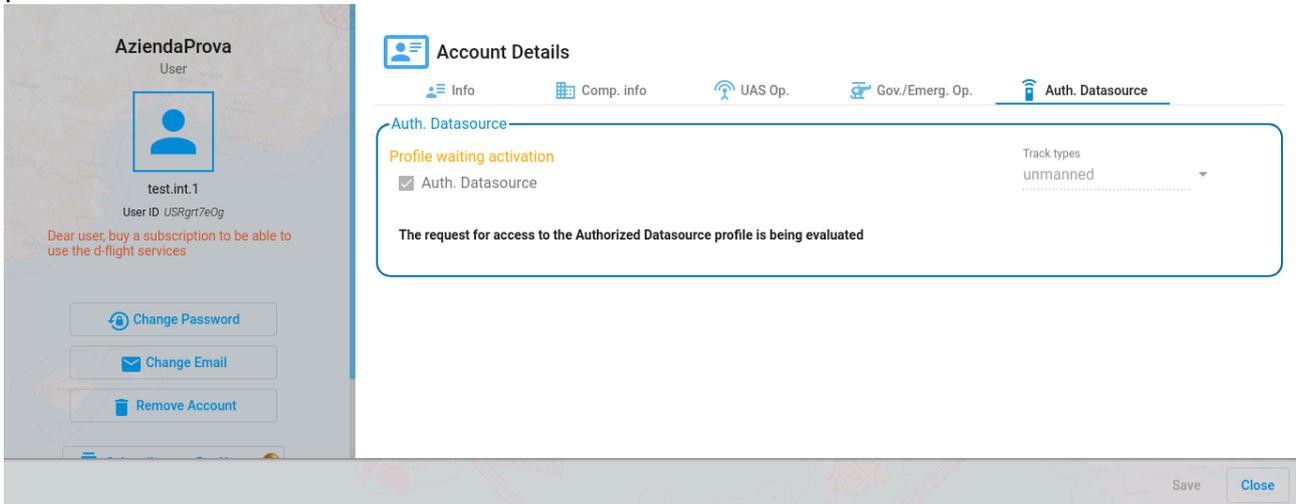
The company/P.A. user, who requests the activation of the Titled Entity profile, represents a company that has already closed an agreement with d-flight for the sending of manned and/or unmanned tracks from its own gateway system to d-flight.



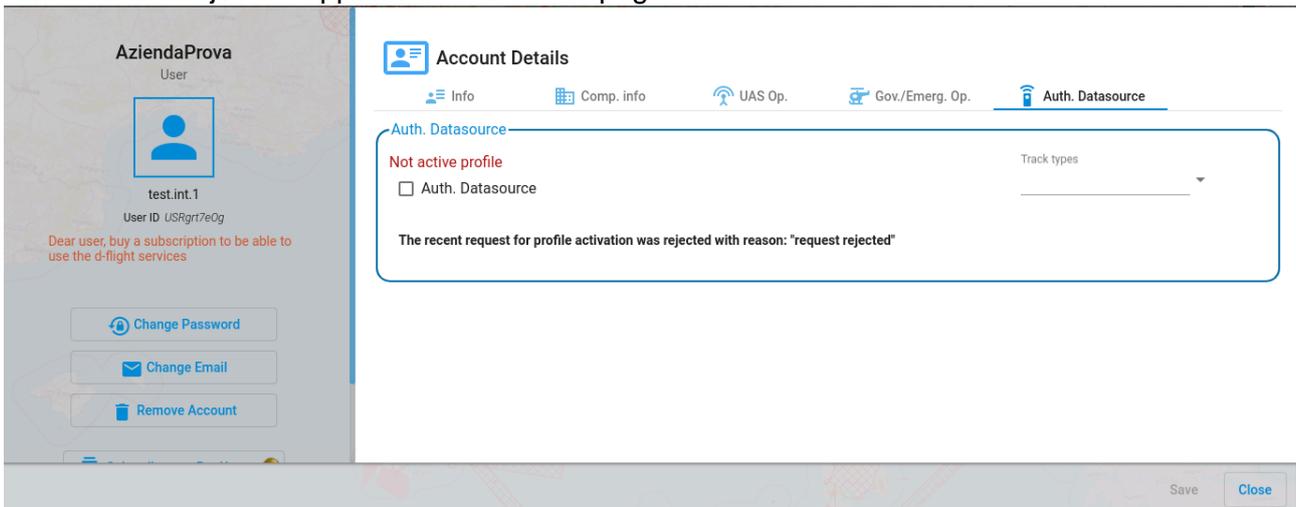
- Enter the requested data.
- Click on <Save> to complete the insertion
- Click on <Close> to exit without saving

After the click on <Save> an email is sent to the user with the instruction to follow in order to conclude the request

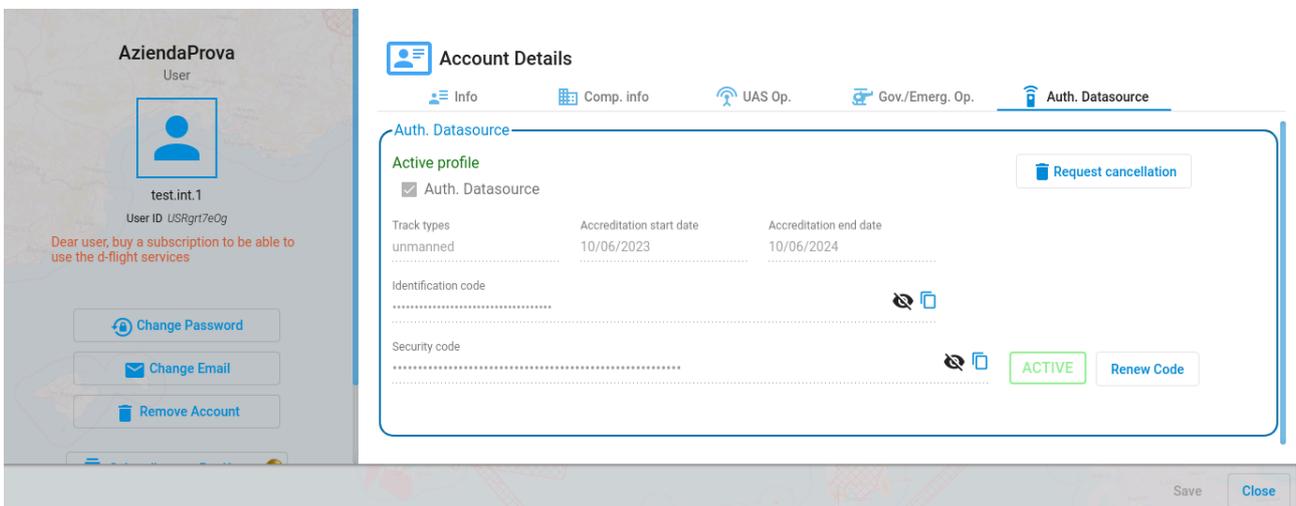
The request for the access to the Auth. Datasource profile passes through an evaluation phase:



If the request is rejected, the Auth. Datasource profile continues to be not active and the reason of the rejection appears on the on the page:



If the request is accepted, the Auth. Datasource profile is active. It is shown in the window the track types, the accreditation start date, the accreditation end date, the identification code and the security code with its state:

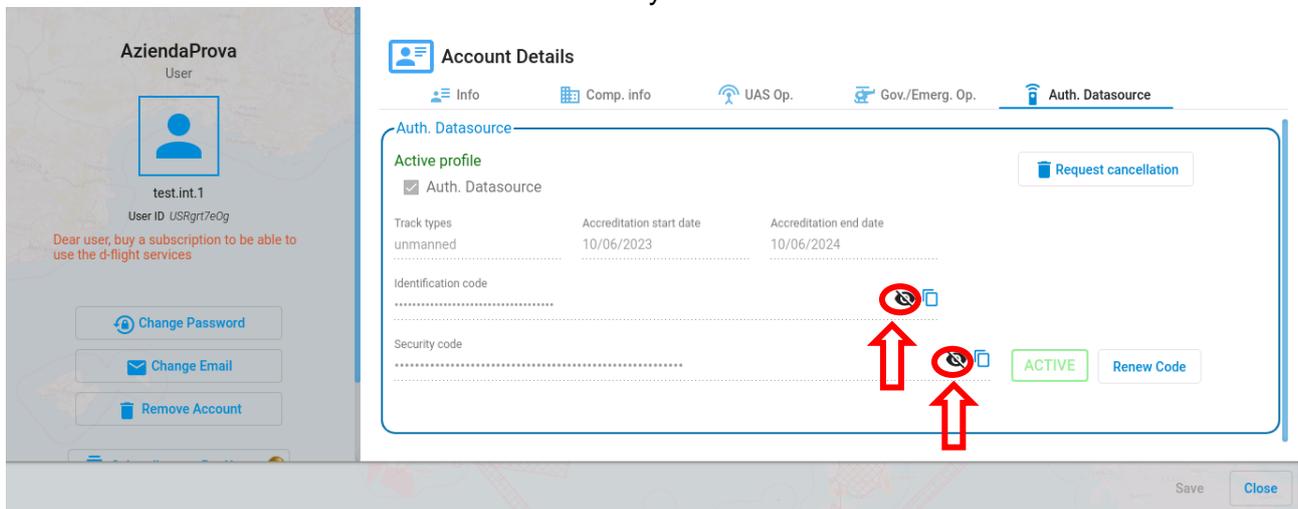


The security code shall be used by the user to configure their gateway system to send traces (for further information refer to the latest ICD document version available on the d-flight website).

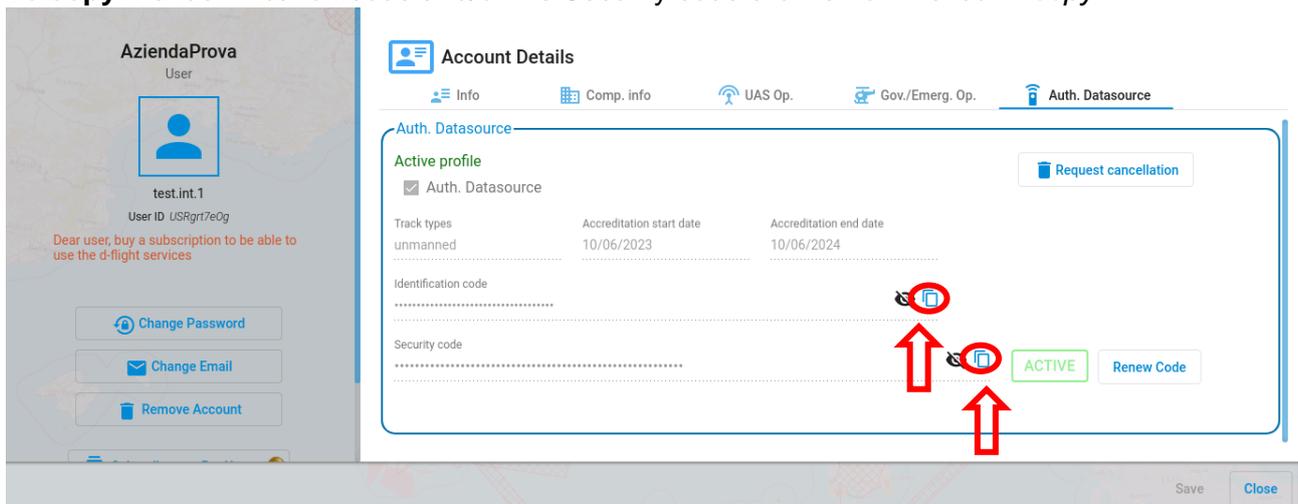
The identification code is a code uniquely assigned only to the user with the active Auth. Datasource profile and represents your company univocally within the system. It must be used to valorise the "sourceld" field of the track as reported and described in the latest version of the ICD document, available on the d-flight website.

Attention! These codes are personal and must not be given to third parties.

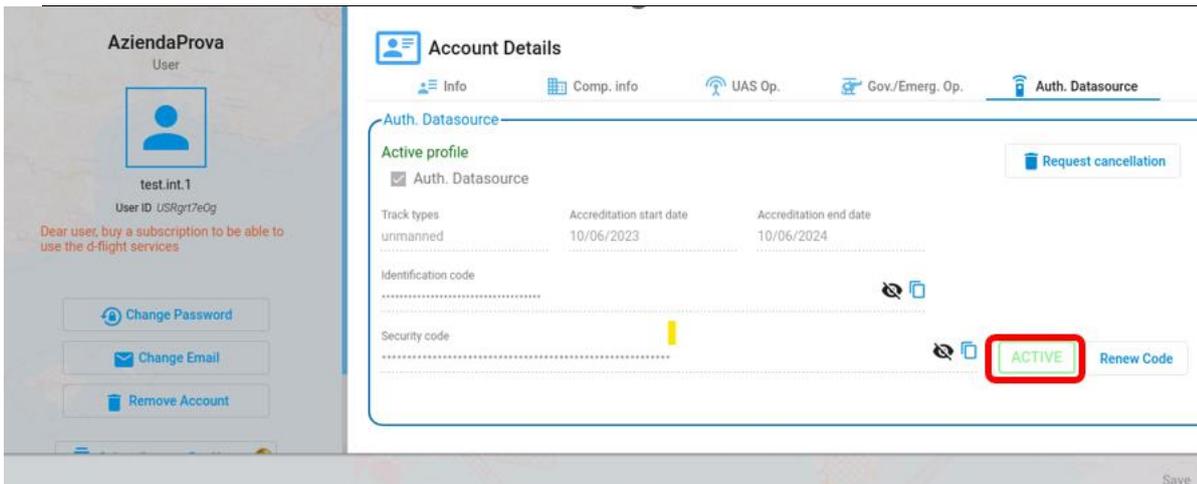
To **view** the Identification code and/or the Security code click left on the icon <view>



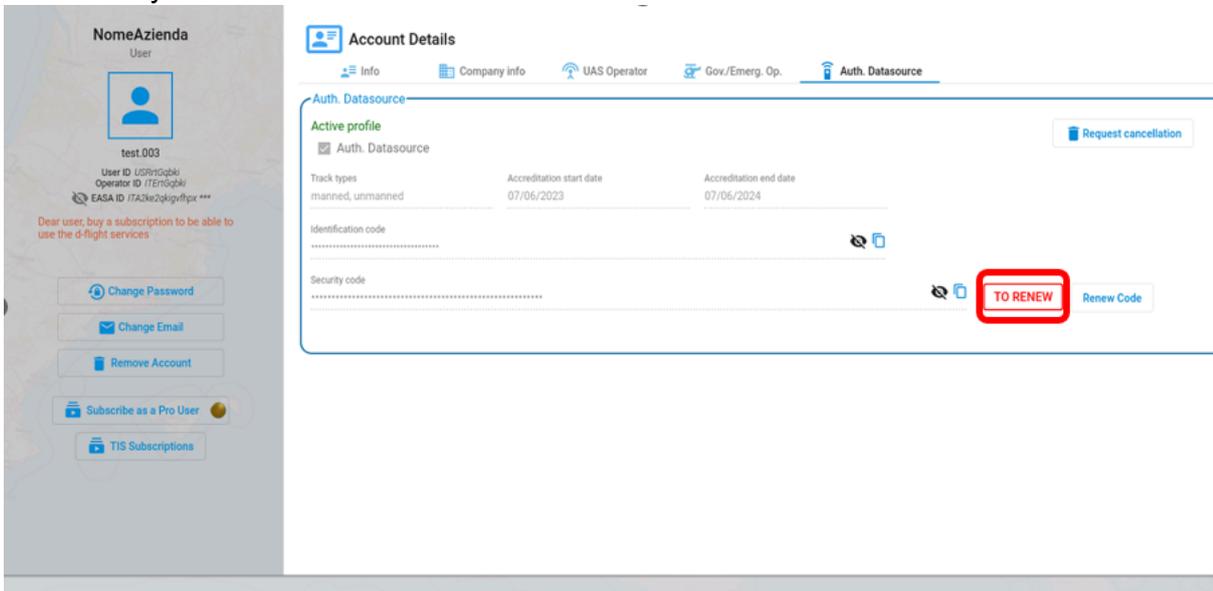
To **copy** the Identification code and/or the Security code click left on the icon <copy>



To Renew the Security code click on <Renew code>:

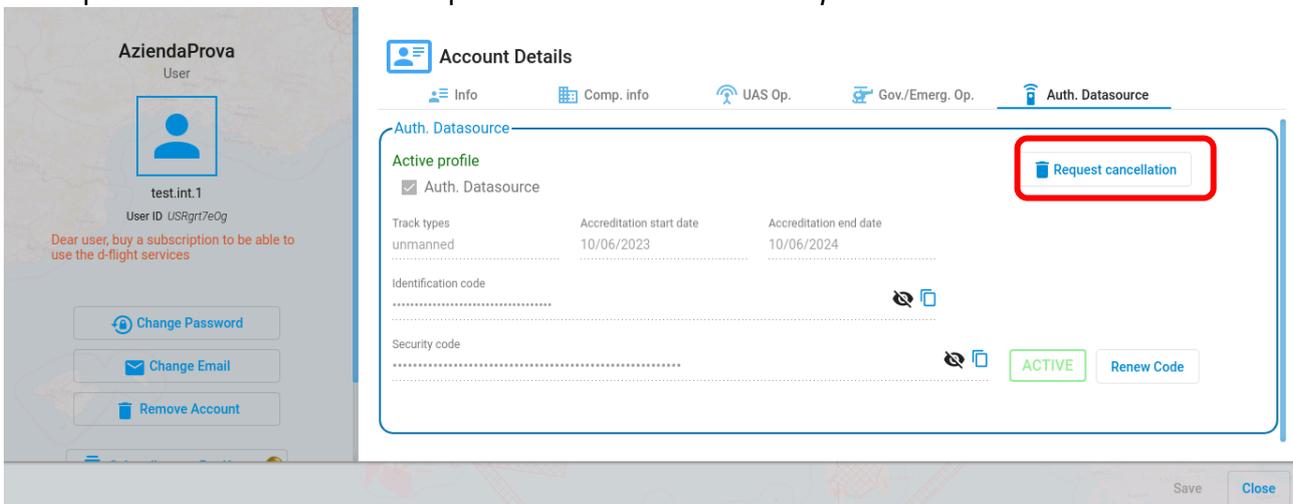


The security code state could transit from “ACTIVE” to “TO RENEW”:



In that case the user must renew the code in order to bring it back to “ACTIVE”.

To request the cancellation of the profile click on the icon <Request cancellation>



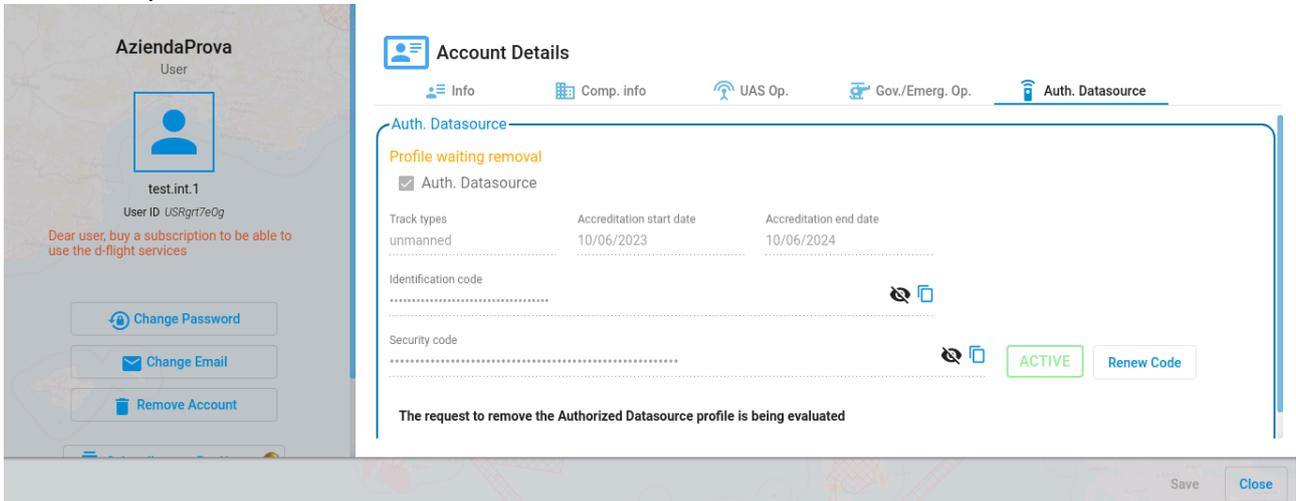
The system asks for confirmation of the cancellation operation.

Select:

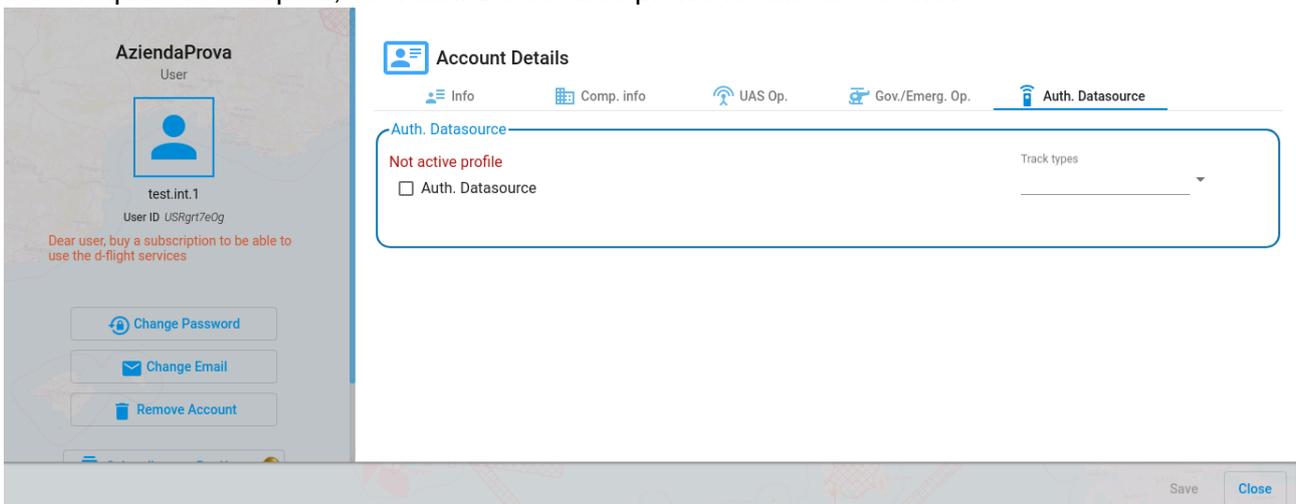
- ✓ <OK> to confirm the deletion

✓ <Cancel> to exit without making changes

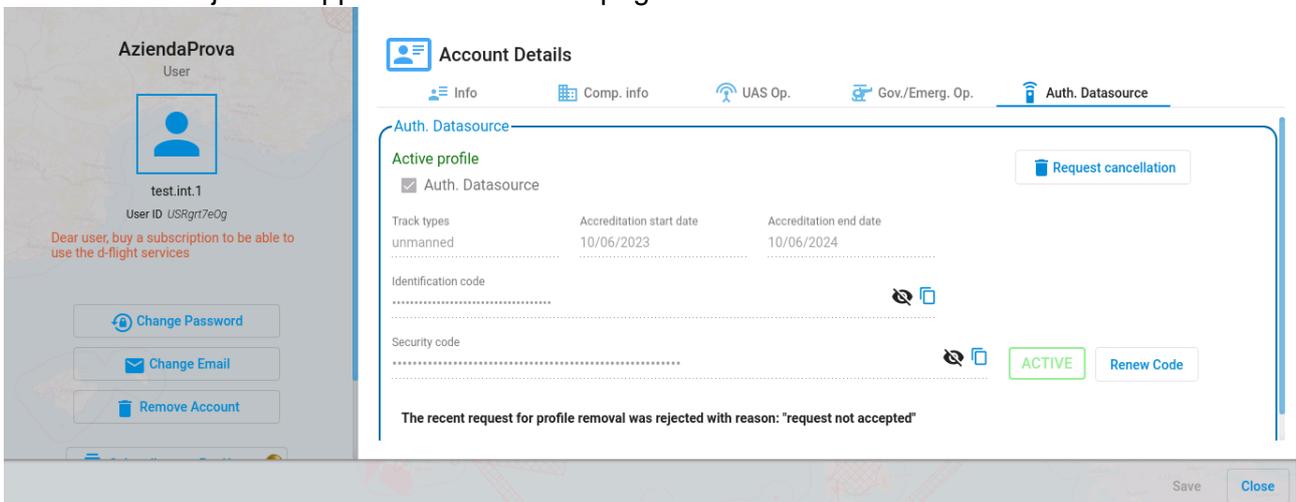
The request for the cancellation of the Auth. Datasource profile passes through an evaluation phase



If the request is accepted, the Auth. Datasource profile returns not active.



If the request is rejected, the Auth. Datasource profile continues to be active and the reason of the rejection appears on the page:



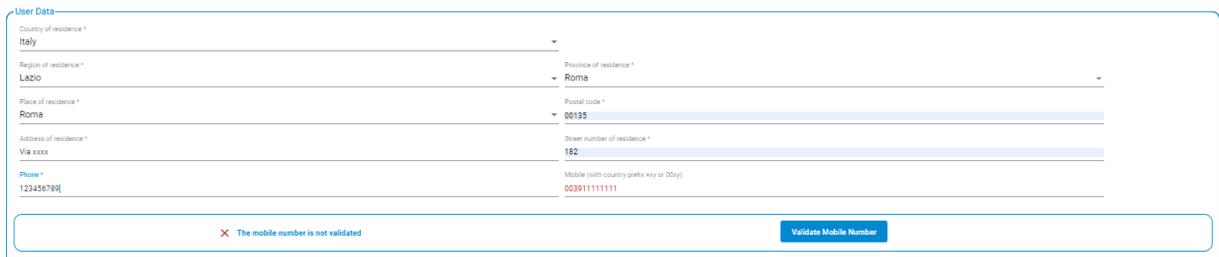
### 1.5.1.3 Validation of the Cellular Phone Number

For the users:

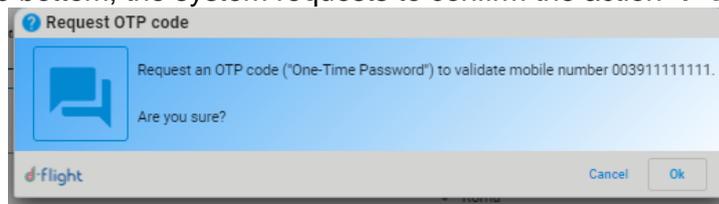
- UAS operators
- Government/emergency operators
- Pilots

It is possible to validate the cell phone number. In the <Account Details> window the system informs the user that the cell number is not validated. In order to validate it:

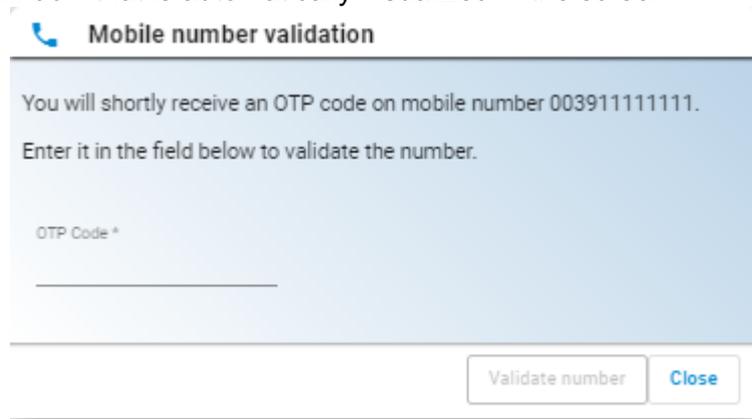
- 1) Click on 'Validate number' bottom, just below the cell number



- 2) Clicking on the bottom, the system requests to confirm the action → click on 'ok'



- 3) The system sends an SMS with the OTP code to the phone number → write this code in the window that is automatically visualized in the screen



- 4) If the code is correct, the cell phone number is validated and in the < Account Details> window, the following message appears: "The number is validated".

### 1.5.2 Change Password

The <Change Password> function is available in the <Account Details> window.

With <Change Password> you can update your password.

1. Enter the old password
2. Follow the pop-up instructions

3. Once all the fields have been updated, select **<Save>** to complete the procedure
4. **<Close>** to exit without making changes

*If they are not followed correctly, the error will be indicated in red*

### 1.5.3 Change Email

The **<Change Email>** function is available in the **<Account Details>** window.

With **<Change Email>** you can change your email.

1. Enter the password
2. Follow the pop-up instructions
3. Once all the fields have been updated, select **<Confirm>** to complete the procedure or **<Close>** to exit without making changes

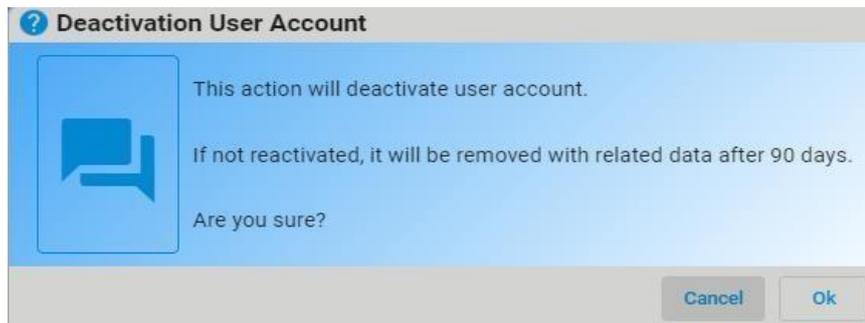
#### 1.5.4 Remove Account

The <Remove Account> function is available in the <Account Details> window.

With <**Remove Account**> it will be possible to DELETE the account created in d-flight

The warning pop-up shown below will appear

1. Select:
  - ✓ <Cancel> to exit without make any changes
  - ✓ <Ok> to cancel



2. Check the receipt of the user de-activation confirmation e-mail
3. Click on the confirmation link

**ATTENTION.** By performing this procedure you will no longer be able to log in to the d-flight system as a registered user

#### 1.5.5 Publishing your data in the UAS Operator List

As an option, PRO users can decide to provide d-flight with their consensus for the publishing of their personal data within the UAS Operator List.

The list is published on d-flight portal and it is accessible to everyone who visits the website.

d-flight is not in way responsible and/or liable for the use or the unlawful processing, by any third party which has access to the site, of personal data published on d-flight portal.

To provide the Consensus for publishing your data, once logged in to d-flight platform:

1. Open your 'Account Detail' page
2. Go to the 'UAS Operator' menu
3. Click on the right box next to "**Optional Consensus for publishing own personal data**"

You can eventually remove the consensus whenever you want, just clicking again on the box and removing the flag. Once the Consensus is removed, your personal data will be removed as well from the UAS Operator List as soon as the List is refreshed (typically any Monday, or the first following working day in case of holiday).

## 1.5.6 Possible UAS Operator Status

---

In the System, each registered Operator can be in one of the following states:

- ACTIVE
  - It is the status assumed by the Operator Account once the related user has performed the “Enable User as UAS Operator” action
  - An “Active” Operator can perform all the “operational” actions like (e.g.) purchase a QR-Code, create a “Declaration” and create a Mission for its UAS.
- SUSPENDED
  - It is the status assumed by the Operator Account if:
    - The user does not provide consensus for Operator's regulatory constraints and do not accept the informative constraints of Presidential Decree 445
    - The Authority performs a “Suspend Operator” action
  - A user with an Operator Account in “SUSPENDED” state must apply the prescriptions received from the Authority (ENAC) in order to obtain the re-activation of its Operator Account; differently, its Operator Account will be “revoked”.
  - If an Operator Account moves in “SUSPENDED” state, also any QR-Code and Declaration associated to such account will automatically move to a “SUSPENDED” state.
  - If an Operator Account is in “SUSPENDED” state, it will move to “ACTIVE” state when the Authority performs a “re-activate Operator” action.
  - If an Operator Account is in “SUSPENDED” state, it will move to “REVOKED” state when the Authority performs a “revoke Operator” action.
- REVOKED
  - It is the status assumed by the Operator Account if the Authority performs a “revoke Operator” action
  - This is a “blocking” state for the Operator Account. Only the Authority can change this status by moving the Operator Account to “CANCELED”.
- CANCELED
  - It is the status assumed by the Operator Account if the linked user decides to perform the “Remove Operator Account” action (which is allowed only if the Operator Account is in ACTIVE state) or the Authority performs a “Remove Operator Account” action in order to unlock an Operator Account in “REVOKED” state.
  - As soon as an Operator Account moves in “CANCELED” state, the user automatically loses all the “Declarations” associated to its UAS.
  - A user with an Operator Account in “CANCELED” state can perform a new registration as UAS Operator but he/she will have to create again all its QR-Codes and all the Declarations for its UAS (as the ones previously created will have been automatically moved in CANCELED state).

A user with an Operator Account in “SUSPENDED”, “REVOKED” or “CANCELED” state cannot anymore perform its operational functions (as in ACTIVE state).

All state transitions are notified to the user by e-mail. Such e-mail will contain the reasons for the state transition and, in case such transition is due to an action performed by the Authority, it will contain the actions required to exit from the “REVOKED” or “SUSPENDED” state (as for “CANCELED” state the user can perform a new registration as Operator).

## 1.5.7 European Operator Code

As per EASA regulation “EU Reg. 2019/947”, each to Operator is assigned a European Operator Code composed by 20 characters (e.g.: ITAaz765d88sfq4z-abc).

Such code is assigned once the enabling procedure (as UAS Operator) is successfully concluded. The code is included in the confirmation e-mail that will be received at the positive completion of the procedure.

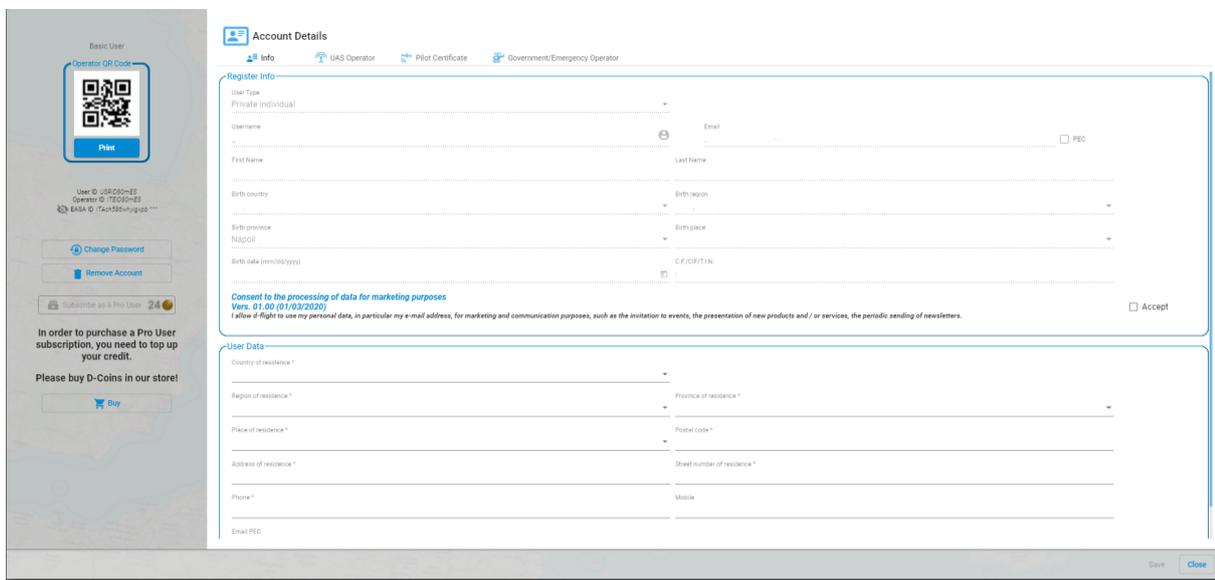
**Note:**

The last three characters of the European Operator Code are considered as “private” and, therefore, are not included in the PDF documents produced by d-flight such as:

- Document for the successful enabling UAS Operator
- UAS declaration for critical operations in standard scenario

The European Operator Code (EASA Id) is shown in the Account details of the user account, in the upper left side, as shown in the following figure.

The QR-Code associated with the EASA Code can be printed and attached to your UAS.



If you activate a BASE or PRO subscription and register a UAS in your fleet, it is possible to generate dedicate QR code that can be associated to a single UAS (see paragraph 1.7.4).

---

## 1.6 Credits AND E-PAYMENT Management

### 1.6.1 Credits

With the purchase of credits through d-flight Market Place it will be possible to purchase the basic / pro subscription and activate QR-Code.

Each credit has a value of € 1, once the required amount is reached it can be used for the purchase of the basic / pro subscription and therefore for the activation of the services.

In addition, packages associated with the services offered by d-flight are available in the Market place to facilitate the purchase process.

After selecting the packages you want to buy, from d-flight Market Place you are redirected to the page where you can enter the payment methods and finalize the operation. At this point, the credits are available for activate subscriptions and therefore for access to d-flight services.

From the page relating to your user profile, it is possible, through the use of the purchased packages, to be promoted to a base/pro user.

As described in section **1.6.2.2 BASE/PRO Subscription Activation**, the BASE subscription has a cost of € 6, while for the PRO subscription it is necessary to pay the fee of € 24.00. The BASE and PRO subscriptions are valid for one year from the time of subscription.

### 1.6.2 E-Payment Management

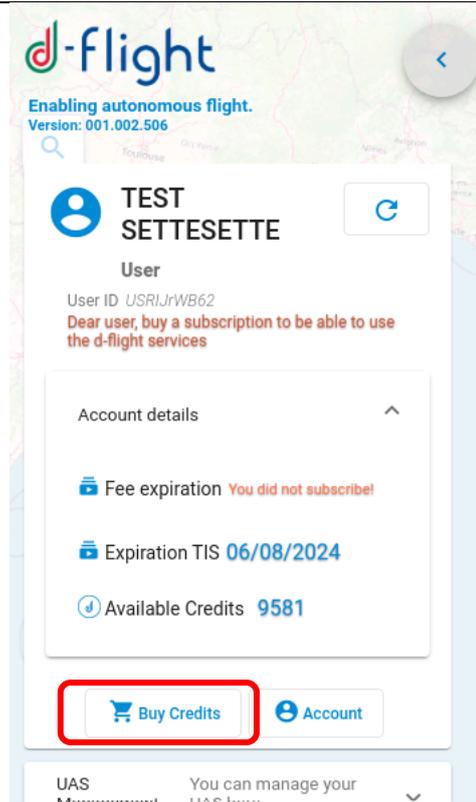
The E-PAYMENT MANAGEMENT section provides information on d-flight Market Place portal access and on how to purchase d-flight products:

- ✓ Access to the d-flight Market Place Service
- ✓ BASE/PRO Subscription Activation
- ✓ E-Payment. Account Management and Order Monitor
- ✓ Purchase QR-CODE

#### 1.6.2.1. d-flight Market Place Service Access

Profile: Accredited User

1. From the "Main Page" select the d-flight icon (top left) and select <Buy Credits>



This allows you to access to the d-flight Market Place WEB page, required for the purchase of credits that can be used to subscribe the subscriptions (basic or pro) and / or to buy QR Code.

0 item(s) - 0.00€

| Drone use          | Registration | Yearly (VAT included) | QR Code (VAT Included) for each drone (OPTIONAL) |
|--------------------|--------------|-----------------------|--|
| Base use           | Free         | 6 €                   | 6 €  |
| Advanced (PRO) use | Free         | 24 €                  | 96 €   |

**ATTENTION!!** The purchase of the credit doesn't activate the services. Once completed the purchase, return to the app and use the credit to activate or renew your annual subscription or to activate the optional QR Code UAS

## Featured

**package for 1-Year BASE Subscription [6 Credits]**

Only for Private accounts Thanks to this package it is possible to have the amount of Credits r...

6.00€  
Ex Tax: 4.92€

**1-Year PRO Subscription [24 Credits]**

Thanks to this package it is possible to have the amount of Credits required to activate (from WebAp...

24.00€  
Ex Tax: 19.67€

**package for BASE QR Code [6 Credits]**

Thanks to this package it is possible to have the amount of Credits required to activate (from WebAp...

6.00€  
Ex Tax: 4.92€

**package for PRO QR Code [96 Credits]**

Thanks to this package it is possible to have the amount of Credits required to activate (from WebAp...

96.00€  
Ex Tax: 78.69€

**package for upgrade from Base to PRO QR Code [90 Credits]**

Thanks to this package it is possible to have the amount of Credits required to upgrade (from WebAp...

90.00€  
Ex Tax: 73.77€

**Ask d-flight**

If you need clarification on the applicability of current legislation, on the procedure to be follow...

29.00€  
Ex Tax: 23.77€

- At this point, after selecting a package that you want to purchase, click on **<Add to Cart>**

0 item(s) - 0.00€

| Drone use          | Registration | Yearly (VAT included) | QR Code (VAT included) for each drone (OPTIONAL) |
|--------------------|--------------|-----------------------|--|
| Base use           | Free         | 6 €                   | 6 €  |
| Advanced (PRO) use | Free         | 24 €                  | 96 €   |

**ATTENTION!!** The purchase of the credit doesn't activate the services. Once completed the purchase, return to the app and use the credit to activate or renew your annual subscription or to activate the optional QR Code UAS

package for 1-Year BASE Subscription [6 Credits]



package for 1-Year BASE Subscription [6 Credits]

Product Code: Subscription PB  
Availability: In Stock

6.00€

Ex Tax: 4.92€

Qty

Add to Cart

Description

Only for Private accounts

Thanks to this package it is possible to have the amount of Credits required to activate (from WebApp) a subscription for access to D-Flight BASE services for one year.

N.b. This item is not suitable for company accounts or P.A. Select PRO Subscription instead

3. Select the shopping cart (top right).

1 item(s) - 6.00€

| Drone use          | Registration | Yearly |
|--------------------|--------------|--------|
| Base use           | Free         | 6 €    |
| Advanced (PRO) use | Free         | 24 €   |

**ATTENTION!!** The purchase of the credit purchase, return to the app and use the subscription or to activate the option

package for 1-Year BASE Subscription [6 Credits] x 6.00€

|              |              |
|--------------|--------------|
| Sub-Total    | 4.92€        |
| IVA (22.0%)  | 1.08€        |
| <b>Total</b> | <b>6.00€</b> |

[View Cart](#) [Checkout](#)

package for 1-Year BASE Subscription [6 Credits]



package for 1-Year BASE Subscription [6 Credits]

Product Code: Subscription PB  
Availability: In Stock

6.00€

Ex Tax: 4.92€

Qty

Add to Cart

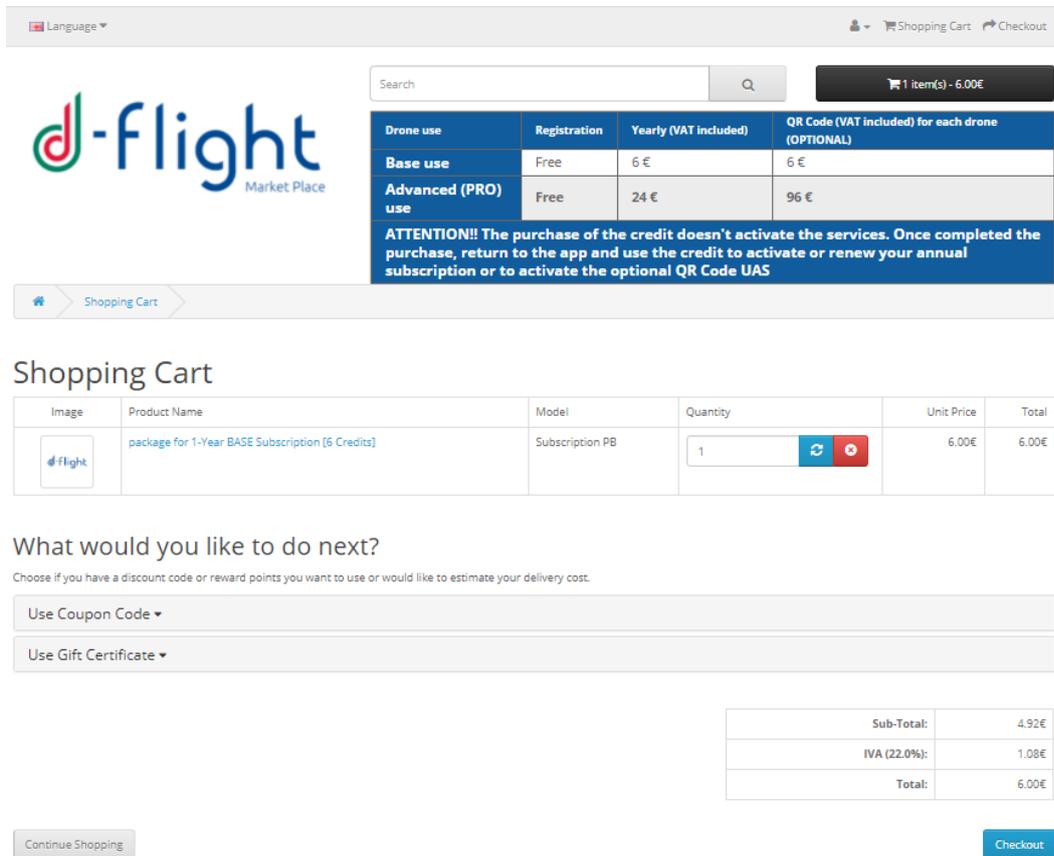
Description

Only for Private accounts

Thanks to this package it is possible to have the amount of Credits required to activate (from WebApp) a subscription for access to D-Flight BASE services for one year.

N.b. This item is not suitable for company accounts or P.A. Select PRO Subscription instead

4. Press <View cart> to get a summary of the order and then proceed with the purchase by clicking on <Buy>



The screenshot shows the d-flight shopping cart interface. At the top, there is a navigation bar with 'Language', 'Shopping Cart', and 'Checkout' links. Below this is a search bar and a cart summary showing '1 item(s) - 6.00€'. A table lists drone usage options:

| Drone use          | Registration | Yearly (VAT included) | QR Code (VAT included) for each drone (OPTIONAL) |
|--------------------|--------------|-----------------------|--|
| Base use           | Free         | 6 €                   | 6 €  |
| Advanced (PRO) use | Free         | 24 €                  | 96 €   |

An attention notice states: 'ATTENTION!! The purchase of the credit doesn't activate the services. Once completed the purchase, return to the app and use the credit to activate or renew your annual subscription or to activate the optional QR Code UAS'. The shopping cart contains one item:

| Image   | Product Name                                     | Model           | Quantity | Unit Price | Total |
|---|--|-----------------|----------|------------|-------|
|  | package for 1-Year BASE Subscription [6 Credits] | Subscription PB | 1        | 6.00€      | 6.00€ |

Below the cart, there is a section 'What would you like to do next?' with options for 'Use Coupon Code' and 'Use Gift Certificate'. A summary table shows the total cost:

|               |              |
|---------------|--------------|
| Sub-Total:    | 4.92€        |
| IVA (22.0%):  | 1.08€        |
| <b>Total:</b> | <b>6.00€</b> |

Buttons for 'Continue Shopping' and 'Checkout' are visible at the bottom.

5. Or press <Checkout> to purchase immediately
6. You will be redirected to the following page, check the credentials with which you are making the purchase, if the credentials are correct select <Access>

Language ▾ Shopping Cart Checkout

Search

1 Item(s) - 6.00€

| Drone use          | Registration | Yearly (VAT included) | QR Code (VAT included) for each drone (OPTIONAL) |
|--------------------|--------------|-----------------------|--|
| Base use           | Free         | 6 €                   | 6 €  |
| Advanced (PRO) use | Free         | 24 €                  | 96 €   |

**ATTENTION!!** The purchase of the credit doesn't activate the services. Once completed the purchase, return to the app and use the credit to activate or renew your annual subscription or to activate the optional QR Code UAS

Shopping Cart Checkout

## Checkout

Step 1: Checkout Options ▾

### Returning Customer

Please enter the same E-MAIL (NO User ID!) and password provided when you registered on the d-flight app.

E-Mail (NO UID)

Password

Step 2: Account & Billing Details

Step 3: Payment Method

Step 4: Confirm Order

*Attention, the Email address to be entered is the one used to register on the d-flight portal*

7. Enter the billing details
8. Select the payment method and accept the "Terms and conditions"

## Checkout

Step 1: Checkout Options

Step 2: Billing Details ▾

**Step 3: Payment Method ▾**

Please select the preferred payment method to use on this order.

Bank transfer (Billing will occur upon receipt of payment)

Add Comments About Your Order

I have read and agree to the [Terms & Conditions](#)  [Continue](#)

Step 4: Confirm Order

9. Click on <Continue>
10. Click on <Order Confirm >
11. If Credit card has been chosen, you are redirected to the following page, where you can enter your credit card details

**DATI ACQUISTO**

|                        |                              |
|------------------------|------------------------------|
| Commerciante           | HOSTD EXPLICIT TEST MERCHANT |
| Paese                  | IT                           |
| Sito web               | http://test.monetaonline.it  |
| Importo                | EUR 6,10                     |
| Riferimento Operazione | predflig53-1-0-0             |
| Descrizione            | 53                           |

**DATI PAGAMENTO**

Numero carta \*

CVV2/CVC2/4DBC \*

Data Scadenza \*  -

Titolare Carta \*

Email per conferma \*

Dichiaro di aver preso visione dell'informativa \*  
[Clicca qui per visualizzare l'informativa sulla privacy](#)

\* Campo obbligatorio

Cookie Policy

*Attention: in the case of payment by web-credit card, please note that only VISA and MasterCard cards are accepted*

12. Click on <Go on> and <Pay>

13. At this point the number of credits available can be viewed from the main page

N.B. if you have chosen to pay by bank transfer:

- send a bank transfer to the following IBAN: IT77W0306903390100000002200
- insert holder: d-flight S.p.a.
- indicate the order ID in the reason for the transfer

Instead if you have chosen the web-credit card currency:

- Enter Card Number
- Insert CVV2 / CVC2 / 4DBC
- Enter the Expiry Date
- Enter the Cardholder
- Enter an email to confirm the order

*Warning: buying a package for a BASE or PRO subscription does not mean being a subscriber. You must proceed with the subscription, as described below.*

#### 1.6.2.2. BASIC/PRO Subscription Activation

Profile: Accredited User

After credits purchasing it is possible to activate a subscription which allows the acquisition of functional privileges valid in the time period in which the subscription is considered valid. The following table shows the privileges in relation to the type of subscription subscribed:

| UAS User          | Registration | Annual Subscription (VAT included) | QR Code (VAT included) for only one UAS  |
|-------------------|--------------|------------------------------------|--|
| <b>Basic User</b> | Free         | 6€                                 | 1 QR code UAS base included (only at the first activation of the subscription)<br><br>6€ to activate other QR codes UAS Base   |
| <b>Pro User</b>   | Free         | 24€                                | 1 QR code UAS base included (only at the first activation of the subscription)<br><br>6€ to activate other QR codes UAS Base<br>96€ to activate other QR codes UAS PRO |

#### < BASIC SUBSCRIPTION >

This subscription allows a User to access basic d-flight services for a cost of 6 €.

With this subscription it will be possible to activate the basic QR Code, the cost of the first BASIC QR code is included in the subscription. Other BASIC QR codes can be activated for a cost of € 6.00 (each).

The basic subscription will be activated once the inscription procedure has been successfully completed.

## < PRO SUBSCRIPTION >

This subscription allows a Pro user to access d-flight services for 1 year for a cost of € 24.00. With this subscription, it will be possible to activate the QR Code BASE and PRO, for a cost of € 6 and € 96 (each ones) respectively. The cost of the first BASIC QR code is included in the subscription.

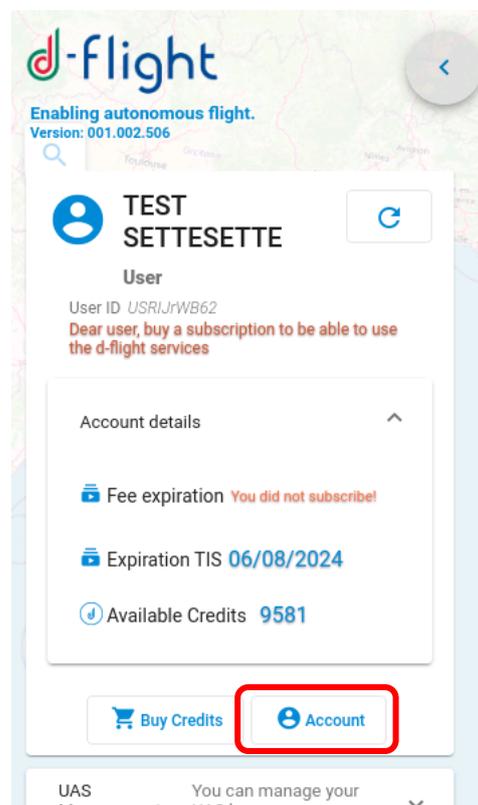
The PRO subscription, unlike the BASE one, will allow the user to make the declaration (BVLOS scenarios) via the d-flight website.

**Attention: the Company/ P.A. users can only subscribe PRO subscriptions.**

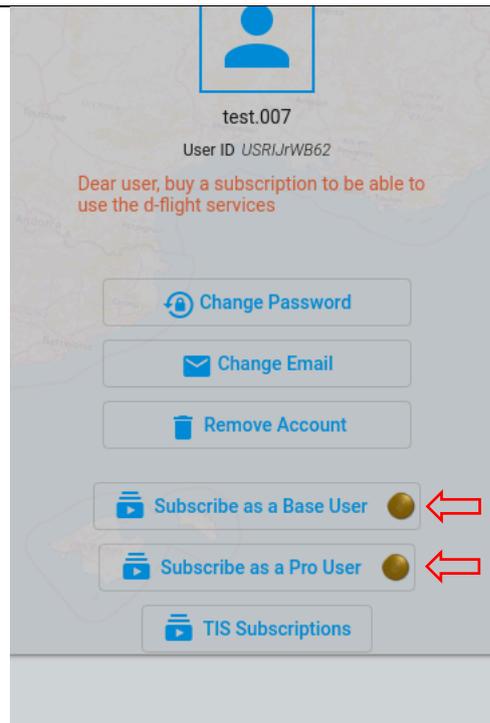
After buying a BASE or PRO subscription, the user can visualize all the tracks near its position.

To proceed with the **purchase of the subscription**:

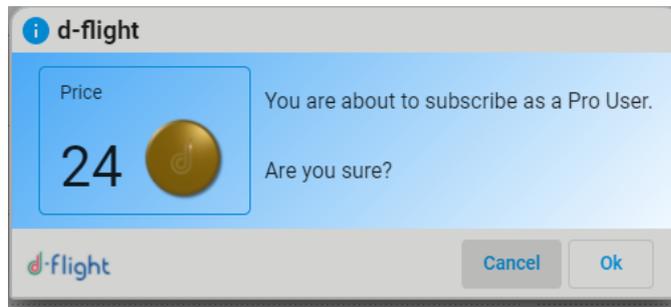
1. Left Click on d-flight icon
2. Left Click on <Account>



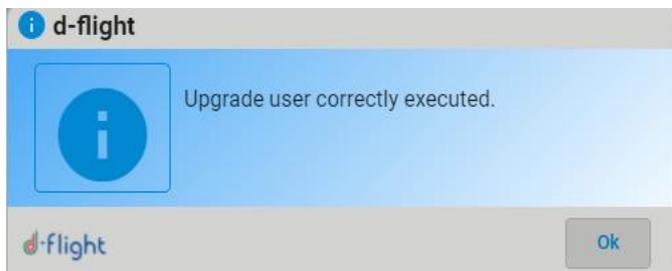
3. After purchasing a package required to sign up for a subscription, the upgrade to a Basic or Pro subscription will be available in the <Account Details> window.



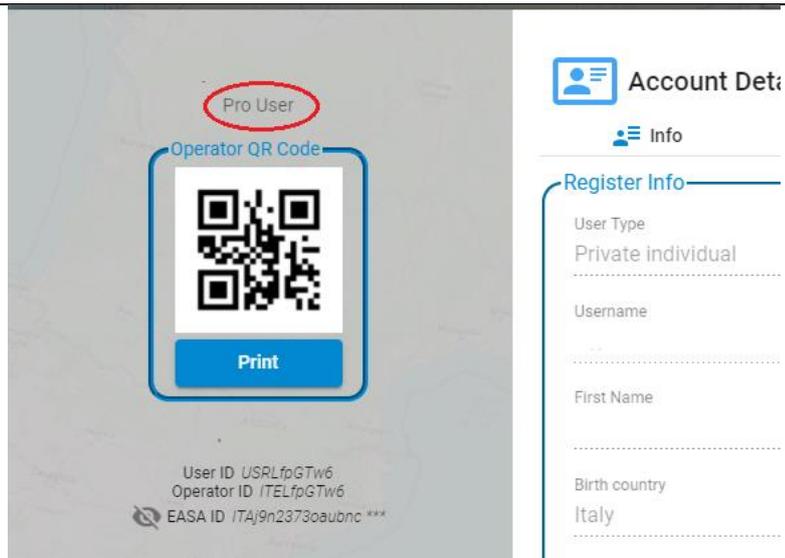
4. Select, for example, **Pro** subscription



5. Left click on <Ok>



The purchased subscription will appear to the left of the < Account Details >



To complete the subscription registration activities, you will receive an email from d-flight CERTIFIED MAIL with confirmation that the subscription has been successfully activated subscription successfully activated.

#### 1.6.2.4 E-Payment. Account Management and Orders Monitor

Profile: Accredited User (Basic/PRO)

After logging in to d-flight Market Place you can view / edit your d-flight Market Place account and view your orders.

1. Click on <Buy Credits>
2. You access the WEB page of d-flight Market Place
3. By selecting <My Account> you will have the possibility to access the menus of:
  - ✓ Change Password
  - ✓ Edit your addresses in the address book, to edit or add address
4. By selecting < My Orders> you will have the possibility to access the menus of:
  - ✓ View the Order History
  - ✓ View your transaction

#### 1.6.2.5. QR-Code Purchasing

After purchasing the credits from d-flight Market Place, you can activate the QR-Codes (see section 1.7.4 Activate QR-Code).

To activate the QR code, you must have signed up for the pro / base subscription.

---

#### 1.6.2.6. Subscription Renewal

The Base, PRO subscriptions are valid for one year. A week before the expiration of a subscription, the user can proceed to renew it by performing the following steps:

- From an internet browser, connect to the d-flight website (<https://www.d-flight.it/web-app/>).
- Authenticate with your credentials.
- Select your username at the top right and click on “account”.
- In the new window that opens, on the left you will have the buttons to renew / activate the subscription.

An expiring subscription notification email will be sent to the user one week before the expiration of the subscription.

## 1.7 UAS MANAGEMENT

It is the service through which a user can record the data of a UAS in his possession with the brand, model, serial number and configuration (UAS).

The UAS operator user can print the QR-Code containing information on the UAS, on the owner, on the operator himself and then fly with the UAS.

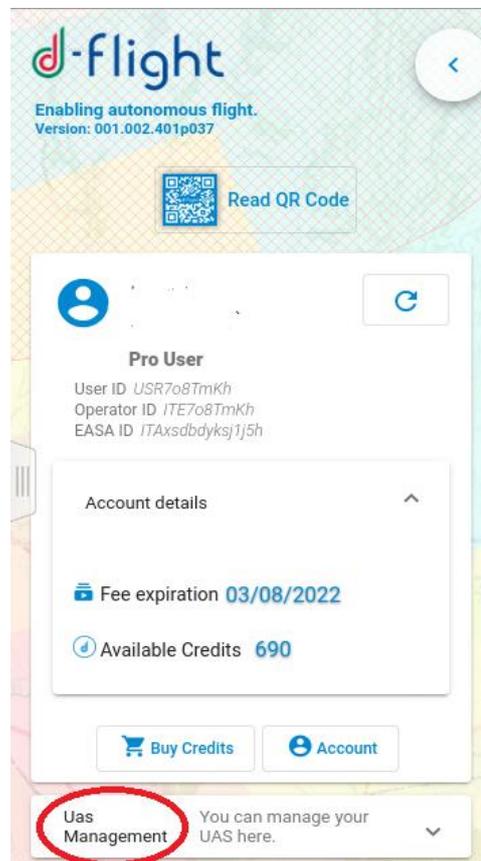
The section also provides information for fleet display and QR-code management, in particular:

- ✓ **Access to <UAS Management>**
- ✓ **UAS Fleet Management (Creation / Modification / Cancellation)**
- ✓ **Enable QR code**
- ✓ **QR code printing**
- ✓ **Reading QR code through mobile app**
- ✓ **Change UAS Status**
- ✓ **Declaration**

### 1.7.1 Access to <UAS Management>

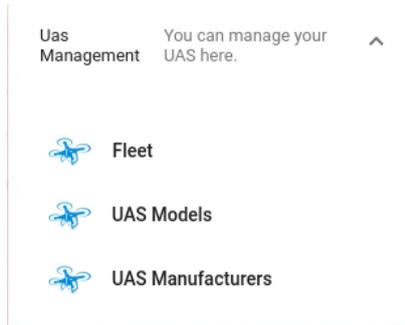
To access the display pages:

1. Left click on d-flight icon
2. Select <UAS Management>

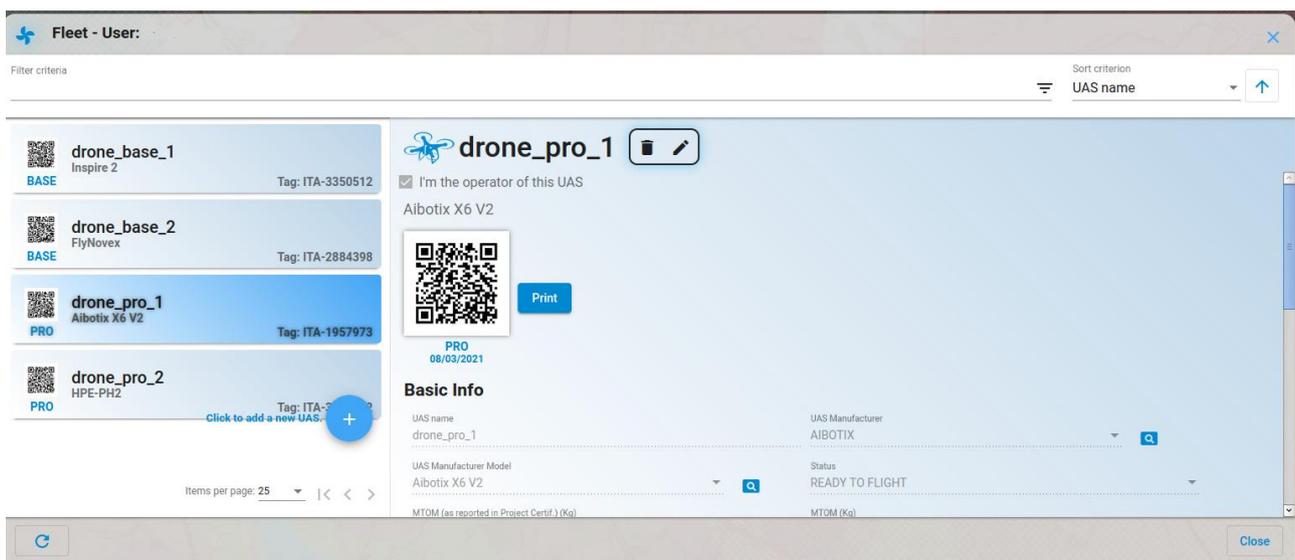


### 1.7.2 UAS Management (Creation/Modification/Cancellation)

From Uas Management page select <Fleet>



<Fleet>: allows viewing, editing and creating UAS on your account. The system retrieves the list of UAS for which the user is the owner. In the case of multiple UAS it is possible to carry out searches with Filter or Sorting



To **create a new UAS** click on the icon create UAS (+) and enter the data related to the UAS.

Declare if you are an operator of the UAS to be included in the fleet (box at the top left).



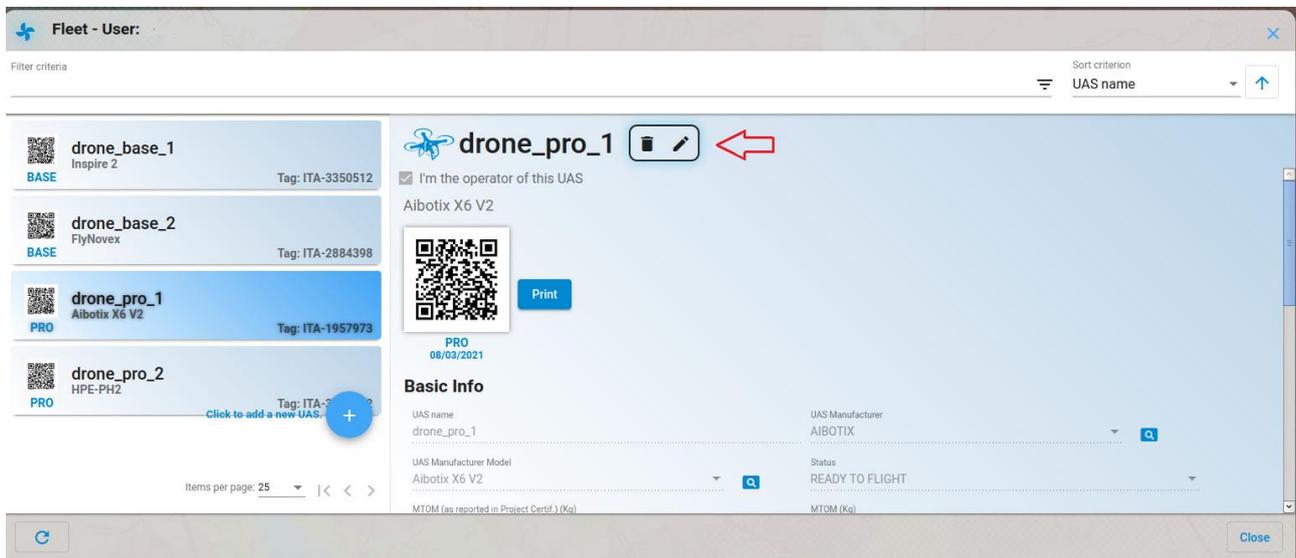
- UAS Manufacturer
- UAS Manufacturer Model
- Status
- Flight Controller
- GCS
- UAV
- Matriculation number **(present only if the model is certified)**
- Insurance Company
- Insurance Name
- Insurance ID
- Insurance Expire Date
- The possibility of modifying or deleting the UAS

Verification of the harmlessness of the UAS can be carried out:

- ✓ for MTOW **less than or equal to 0.3kg**, through the checkbox, pursuant to article 12 paragraph 5.
- ✓ for MTOW **greater than or equal to 0.3 kg and less than or equal to 2 kg**, through the checkbox <This UAS is not offensive> plus the certified harmless entry, pursuant to art. 12 paragraph 1.

Attention, the certificate must be imported at the time of saving

To **modify the data related to created UAS** select the UAS to be modified and click on the edit icon.



The screenshot shows the 'Fleet - User' interface. On the left, there is a list of UAS with columns for QR code, name, model, status, and tag. The 'drone\_pro\_1' entry is highlighted. On the right, the detailed view for 'drone\_pro\_1' is shown, including a QR code, a 'Print' button, and a 'Basic Info' section. A red arrow points to the edit icon (pencil) next to the 'drone\_pro\_1' entry in the list.

| UAS Name     | Model         | Status | Tag         |
|--------------|---------------|--------|-------------|
| drone_base_1 | Inspire 2     | BASE   | ITA-3350512 |
| drone_base_2 | FlyNovex      | BASE   | ITA-2884398 |
| drone_pro_1  | Aibotix X6 V2 | PRO    | ITA-1957973 |
| drone_pro_2  | HPE-PH2       | PRO    | ITA-...     |

**Basic Info for drone\_pro\_1:**

- UAS name: drone\_pro\_1
- UAS Manufacturer Model: Aibotix X6 V2
- UAS Manufacturer: AIBOTIX
- Status: READY TO FLIGHT
- MTOM (as reported in Project Certif.): (Kg)
- MTOM (Kg):

To make changes, select:

- ✓ <OK> to confirm the changes
- ✓ <Cancel> to exit without making changes

To **delete the data related to a UAS created** select the UAS to be deleted and click on the delete icon.

The system asks for confirmation of the cancellation operation.

Select:

- ✓ **<OK>** to confirm the deletion
- ✓ **<Cancel>** to exit without making changes:

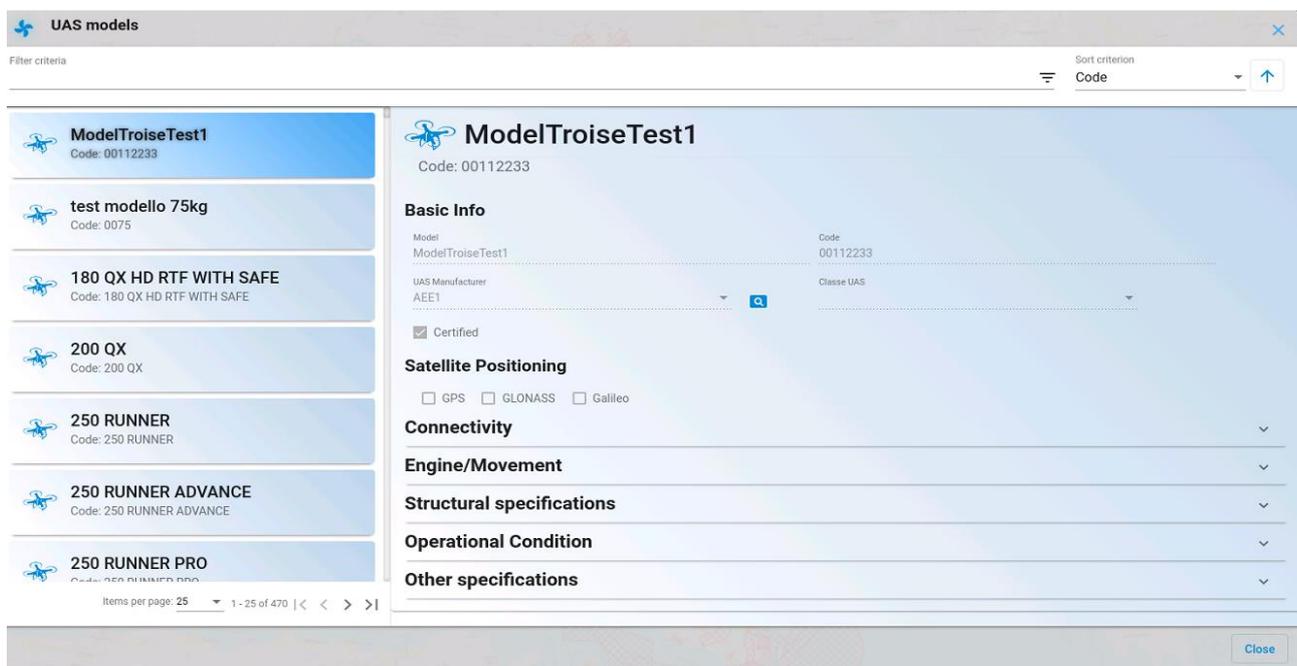
The cancellation of a UAS will result the loss of association with the UTM Device, if any.

### 1.7.3 Viewing UAS Models / Manufacturers

From the UAS Management page select **<UAS Models>** to view UAS models.

The list of UAS Models is displayed on the left side.

It is possible to carry out searches with filter or sorting criteria

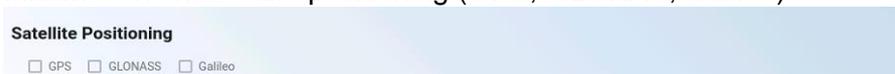


For each model the following are displayed:

- ✓ **Basic Information**



- ✓ **Information on satellite positioning (GPS, GLONAS, Galileo)**



✓ Connectivity

**Connectivity**

|                           |                     |
|---------------------------|---------------------|
| Identification Technology | Connectivity Method |
| .....                     | .....               |

✓ Engine / Movement information

**Engine/Movement**

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Type<br>HEXACOPTER                | Power Supply<br>ELECTRIC          |
| Max Horizontal Speed (m/s)<br>10  | Max Flight Time (min)<br>180      |
| Max Ascent Speed (m/s)            | Max Descent Speed (m/s)           |
| Vertical Hover Accuracy GPS (m)   | Horizontal Hover Accuracy GPS (m) |
| Flight Range (Km)                 | Vertical Hover Accuracy VIS (m)   |
| Horizontal Hover Accuracy VIS (m) |                                   |

✓ Structural specifications

**Structural specifications**

|                  |  |
|------------------|--|
| Weight (Kg)<br>5 | MTOM (as reported in Project Certif.)<br>5 |
| Max Payload      | Width (cm)                                 |
| Length (cm)      | Height (cm)                                |

✓ Information relating to operating conditions

**Operational Condition**

|                             |                            |
|-----------------------------|----------------------------|
| Min Temperature (C°)        | Max Temperature (C°)       |
| Wind Tolerance Steady (m/s) | Wind Tolerance Gusts (m/s) |
| Max Takeoff Altitude (m)    | Max Service Altitude (m)   |
| Max Humidity (%)            |                            |

✓ Other specifications

## Other specifications

FCS Model

GCS Model

GCS Notes

Camera on board

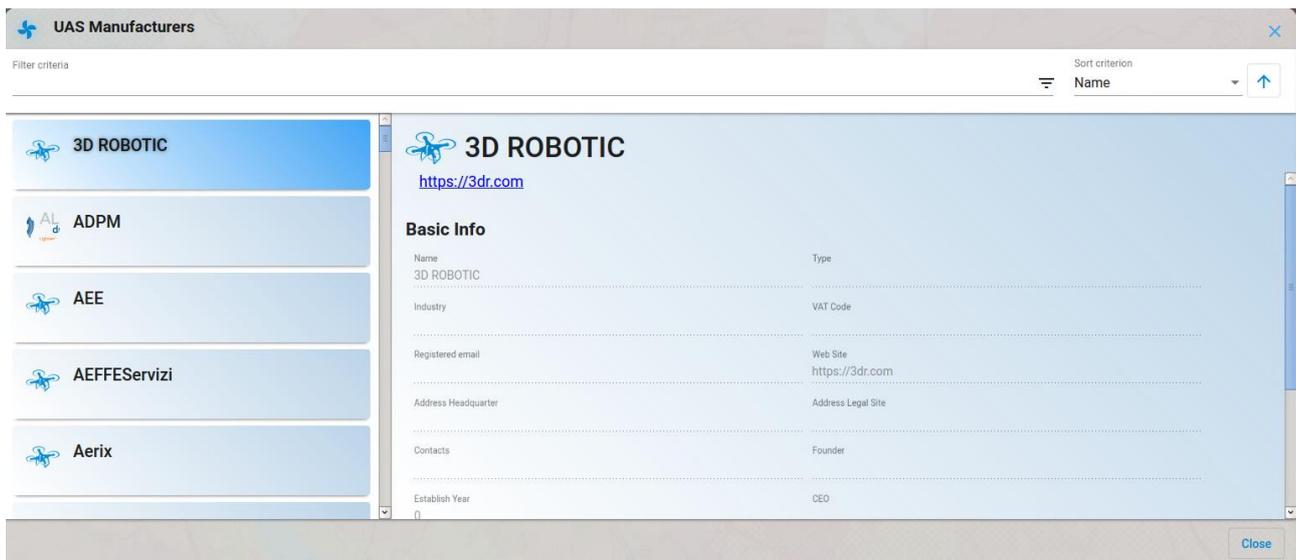
Camera Notes

Connectivity Notes

bah, duplicato???

General Notes

From the UAS Management page select **<UAS Manufacturers>** to view UAS manufacturers



**UAS Manufacturers**

Filter criteria

Sort criterion: Name

| Manufacturer | Name       | Type |
|--------------|------------|------|
| 3D ROBOTIC   | 3D ROBOTIC |      |
| ADPM         |            |      |
| AEE          |            |      |
| AEFFEServizi |            |      |
| Aerix        |            |      |

**3D ROBOTIC**  
<https://3dr.com>

**Basic Info**

|                     |            |                    |   |
|---------------------|------------|--------------------|---|
| Name                | 3D ROBOTIC | Type               |   |
| Industry            |            | VAT Code           |   |
| Registered email    |            | Web Site           | <a href="https://3dr.com">https://3dr.com</a> |
| Address Headquarter |            | Address Legal Site |   |
| Contacts            |            | Founder            |   |
| Establish Year      | 0          | CEO                |   |

Close

It is possible to carry out searches with filter or sorting criteria.  
For each manufacturer the information is displayed:

- ✓ First name
- ✓ Legal form
- ✓ Industrial sector
- ✓ Tax code or VAT number
- ✓ Reference email
- ✓ Web site
- ✓ Headquarters address
- ✓ Registered office address
- ✓ Production year
- ✓ CEO

- ✓ Division
- ✓ Number of employees
- ✓ Quality certification
- ✓ Share capital (KS)
- ✓ Share value (KS)

## 1.7.4 Activate QR code

Profile: User Operator, subscription Basic or Pro

After having purchased enough credits from d-flight Market Place to purchase and activate QR-Codes on their UAS, the following are activated:

1. From the UAS Management page, click on **<Fleet>**:
2. From the list of your UAS **<select the UAS>** for which you want to activate the QR-code
3. Select **<Activate>**
4. Select **<OK>**

Remember that for the activation of the QR-Code it is necessary to have subscribed to a basic or pro type subscription and that it is necessary to flag the box "I am operator of this UAS" (for the UAS you want to activate the QR-Code) after clicking **<modify UAS>**



at the top right of the **<Fleet>** section.

The QR code is activated.

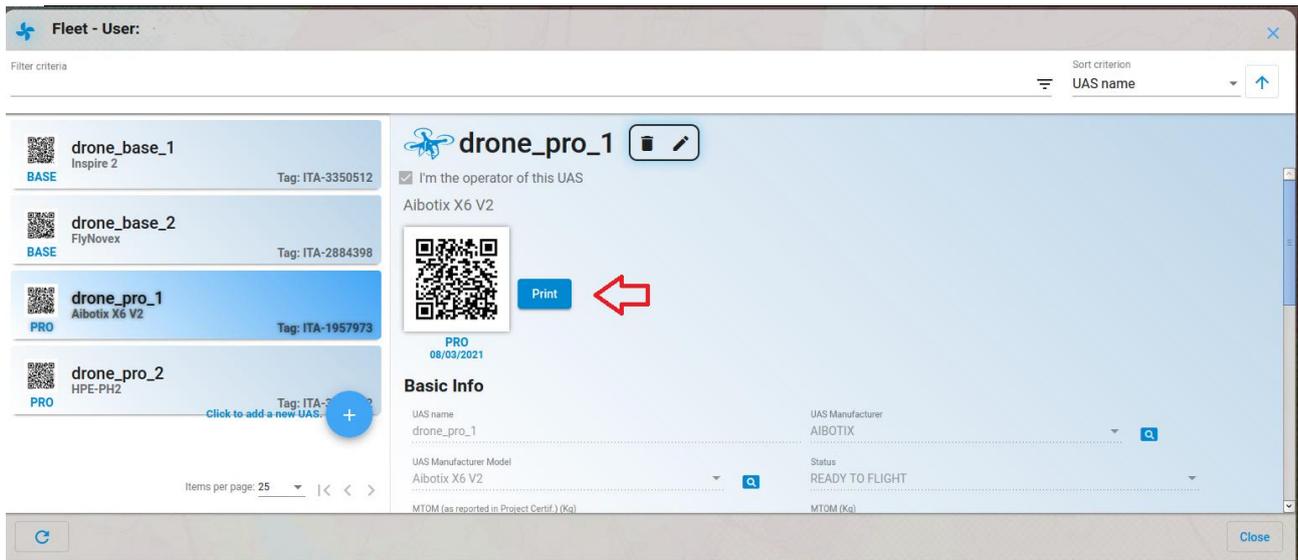
If the UAS is deleted from its list, it is necessary to buy back a new QR Code.

*Warning: users can activate qr-code only if they are registered as UAS operator*

## 1.7.5 Print QR code

Profile: User Operator, subscription Basic or Pro

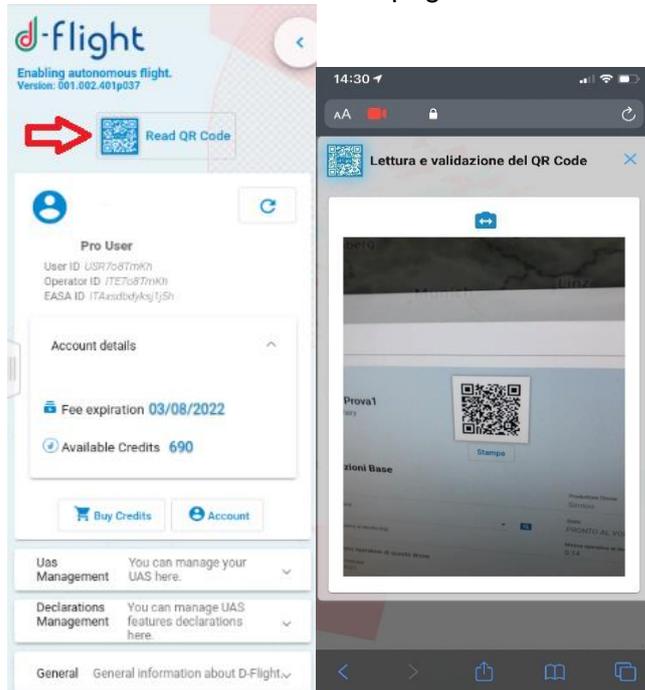
Once the QR-code is activated, the code can be printed by clicking on the **<Print>** icon



### 1.7.6 Reading QR-Code through Mobile App

After accreditation, purchasing and activating the QR Code, it is possible to decode the QR code which is encrypted by scanning with a mobile device:

1. Click on <Read QR-Code>
2. Scan the code on the fleet page with the mobile device



### 1.7.7 Change UAS Status

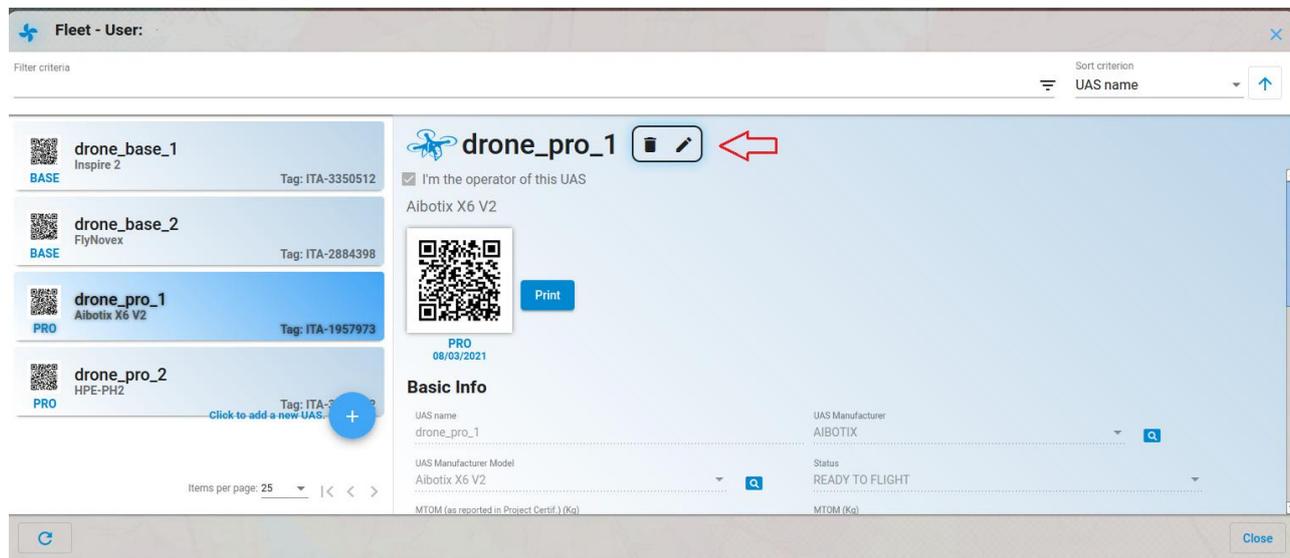
Profile: User accredited

From the <UAS Management> page select <Fleet>

<Fleet>: allows the display, modification and creation of UAS on your account. The system retrieves the list of UAS for which the user is the owner.

To modify the data related to a UAS created select the UAS to modify and click on the

edit icon <Modify UAS> .



To make changes, select:

- ✓ <OK> to confirm the changes
- ✓ <Cancel> to exit without making changes

Among the data that can be changed is the "State" of the UAS.

The possible states are:

- ✓ *READY TO FLY* for a UAS ready to fly
- ✓ *IN MAINTENANCE* for a UAS in maintenance and banned from flying for a short period

### 1.7.8. Declaration

As defined in Art. 10 and Art. 11 of the Regulation, mission Declaration must be made by the UAS operator to ENAC to carry out critical specialized missions in accordance with the standard scenarios defined by ENAC itself.

To make the declaration it is necessary to have already made the declaration foreseen payment to ENAC on the ENAC website, as reported on the Authority's website <https://www.enac.gov.it/sicurezza-aerea/droni/fatturazione-droni>

In order to make the declaration from the d-flight website:

1. Log in to the platform
2. Click on the d-flight logo
3. Access the Management of declarations section and open the drop-down menu

**d-flight**  
Enabling autonomous flight.  
Version: 002.000.016

[Read UAS QR Code](#)

**TESTT ZERODUE** Pro User

User ID USR84j1BLW  
Operator ID ITE84j1BLW  
EASA ID ITAhd2jm2pbdinl

Account details

- Fee expiration **21/09/2024**
- Expiration TIS **You did not subscribe!**
- Available Credits **8313**

[Buy Credits](#) [Account](#)

- UAS Management You can manage your UAS here. ▼
- UTM Box Management You can manage your UTM box here. ▼
- Communication Registry View communication registry. ▼
- Declarations Management** You can manage UAS features declarations here. ▼
- General General information about D-Flight. ▼

4. Click on *<Create declarations>*
5. After clicking, the following page will open

**Fleet - User:**

Filter criteria Sort criterion: Drone name

**abc**  
SOLO  
RECR  
Tag: ITA-7778829

**efg**  
ALTA6  
PROF  
Tag: ITA-3714498

[Click to add a new Drone.](#)

**Basic Info**

Drone name: efg  
Drone Manufacturer: UNKNOWN  
Drone Manufacturer Model: ALTA6  
Status: READY TO FLIGHT  
MTOM (as reported in Project Certif.) (less than 25 kg): 13.6

I'm the operator of this drone

Flight Controller: GCS  
APR:

This drone is harmless

Certificate of harmless: [Import certificate](#) [Remove certificate](#) [Show certificate](#)

Declaration: [Confirm payment](#) [+ Create declaration](#) [Go to Active Declar.](#) [Show declaration](#)

[Close](#)

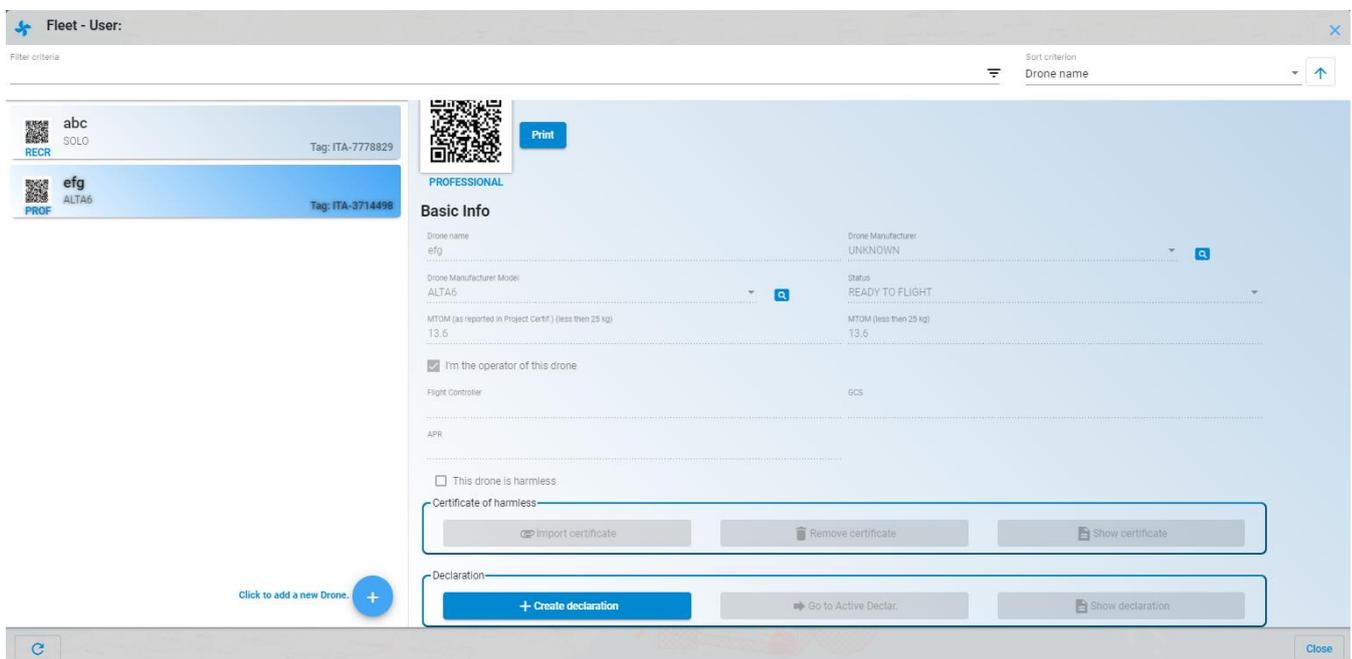
ATTENTION: the declaration can be made only if:

- a pro subscription has been subscribed
- the scheduled tariff was paid to ENAC
- the upgrade to UAS operator user has been carried out
- a QR-Code Pro has been activated
- the UAS for which you want to make the declaration is not harmless
- in the 'Account Details' section - having entered all the necessary information contained on your account page (including the PEC) and having flagged all the required consents.
- in the 'UAS management' section for the selected UAS the check 'This UAS is harmless' has not been ticked

6. To continue with the declaration, click on *<Confirm payment>* and complete the insertion of the required fields as shown in the following figure:

- invoice year
- invoice number

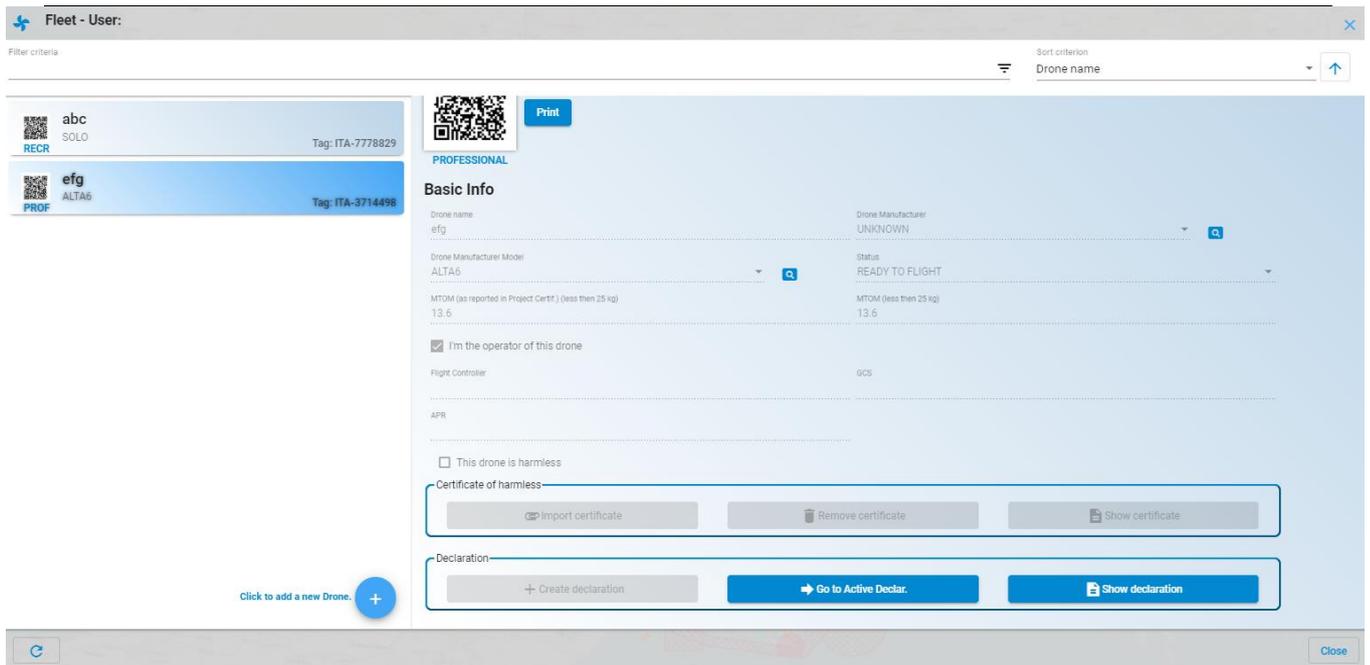
7. Once the payment has been confirmed, it is possible to proceed with the creation of the declaration



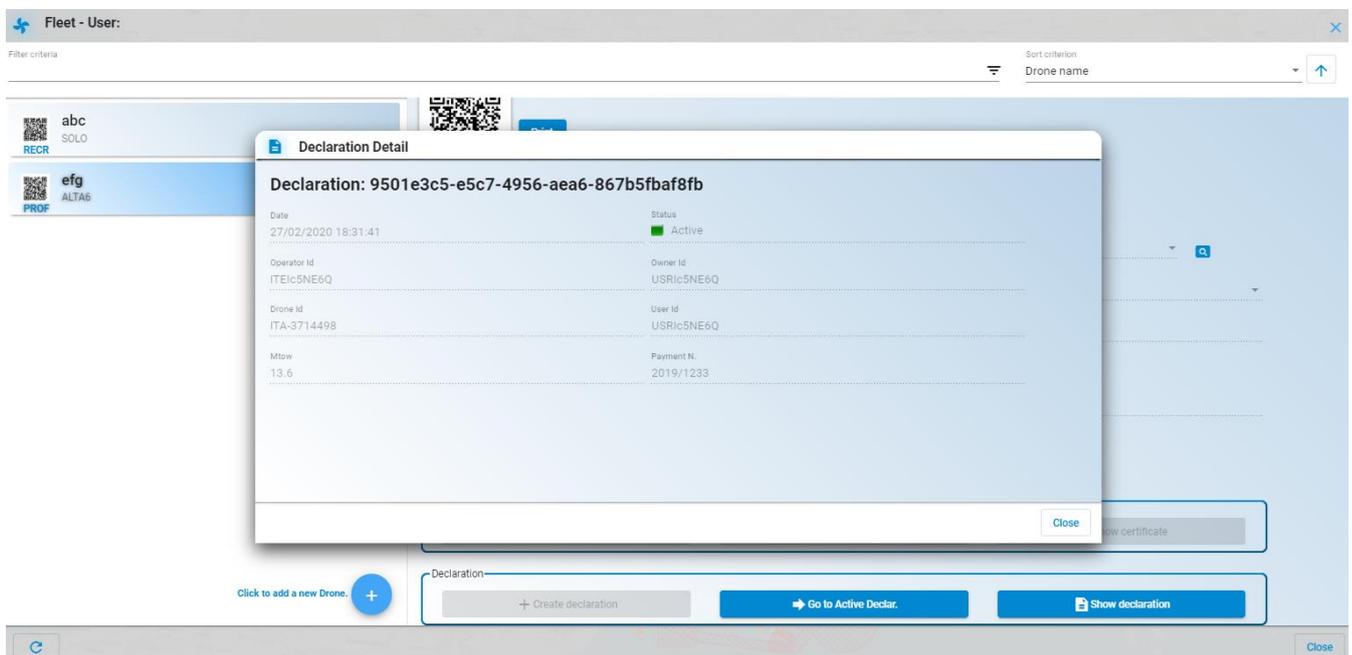
The screenshot shows the 'Fleet - User' interface. On the left, there are two drone cards: 'abc SOLO' (Tag: ITA-7778929) and 'efg ALTA6' (Tag: ITA-3714498). The 'efg' card is selected. The main area displays the 'Basic Info' for the selected drone. The form includes fields for Drone name (efg), Drone Manufacturer (UNKNOWN), Drone Manufacturer Model (ALTA6), MTOM (13.6), Status (READY TO FLIGHT), and Flight Controller (GCS). There is a checkbox 'I'm the operator of this drone' which is checked. Below this, there is a checkbox 'This drone is harmless' which is unchecked. At the bottom, there are two sections: 'Certificate of harmless' with buttons for 'Import certificate', 'Remove certificate', and 'Show certificate'; and 'Declaration' with buttons for '+ Create declaration', 'Go to Active Declar.', and 'Show declaration'.

8. Click on *<Create declaration>* and if you want to continue press *<Ok>* otherwise press *<Cancel>*

9. To view if the declaration has been activated click on *<Go to active declaration>*



At this point the list of active declarations is available .  
 If you want to view the declaration made, click on *<Show declaration>*, at this point the detail of the declaration will open as in the following figure:



### 1.7.9. Possible Declaration Status

Each declaration registered in the system can be in one of the following states. Since each declaration is associated to the “couple” Operator Account-UAS, it can change its status in relationship to a change in the status of the Operator Account and/or the UAS to which it refers:

- ACTIVE

- 
- It is the status assumed by a Declaration after its creation (in relationship to a given UAS). If a Declaration is in ACTIVE state, the UAS Operator is authorized to perform his operational services with the UAS in conformance with what is referred in the Declaration.
  - The state of a Declaration follow 1 to 1 the evolution of the state of the Operator Account to which it is associated but, differently from the Operator Account Status, a Declaration permanently remains in “CANCELED” state (if it reach this state).
  - **SUSPENDED**
    - It is the status automatically assumed by a Declaration in case the Operator Account of the UAS to which it is associated moves in SUSPENDED state.
    - If a Declaration is in SUSPENDED state, the Operator Account of the UAS associated to the Declaration is temporarily not authorized to perform the operational services with that UAS.
  - **REVOKED**
    - It is the status automatically assumed by a Declaration in case the Operator Account of the UAS to which it is associated moves in REVOKED state due to an action of the Authority.
  - **CANCELED**
    - It is the status automatically (and permanently) assumed by a Declaration in case the Operator Account of the UAS to which it is associated moves in CANCELED state or in case the status of the associated UAS (permanently) moves to CANCELED.

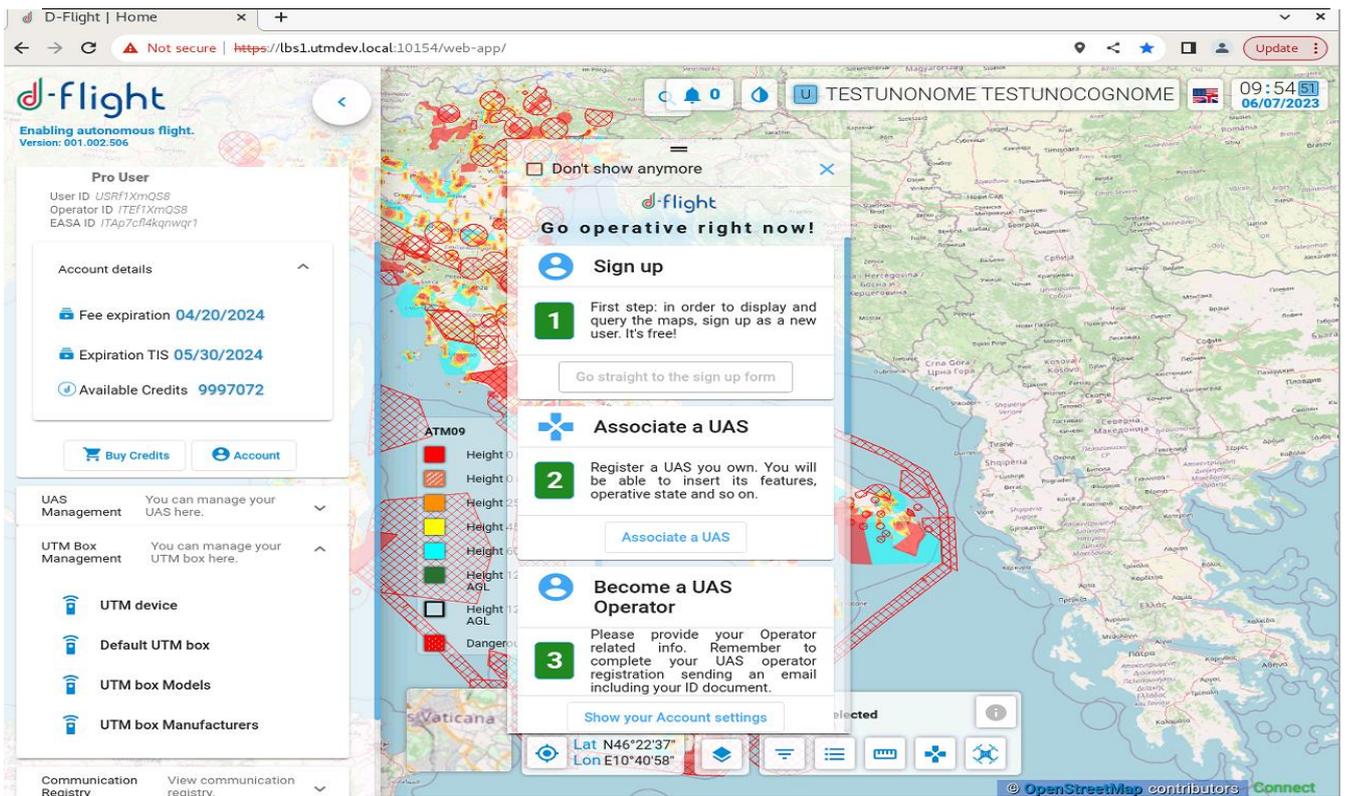
The status of each declaration is indicated in Tab containing its detailed information as illustrated in the figures included in §1.7.8. Declaration.

## **1.8 UTM Box MANAGEMENT**

It is the service through which a user can associate a UAS in his possession with a UTM Box, specifying the manufacturer, the model, the user ID and the device ID.

As shown in the following figure, the user of UAS can access to the following information of the UTM Box:

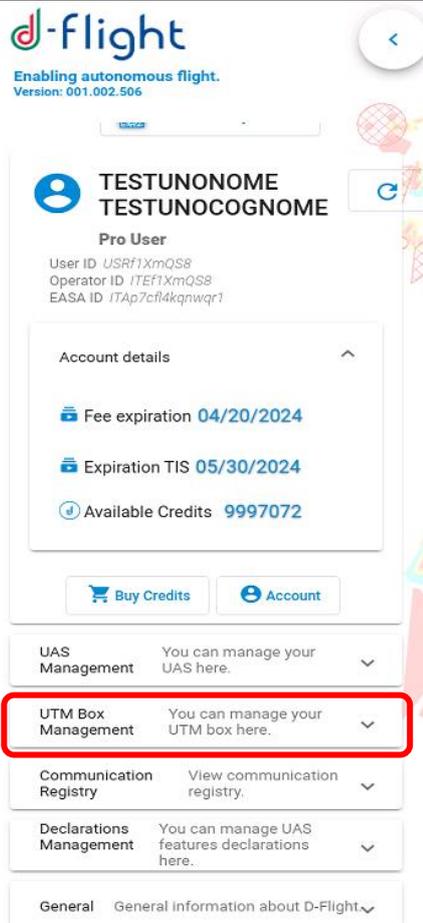
- ✓ **UTM Device**
- ✓ **Default UTM box**
- ✓ **UTM Box Models**
- ✓ **UTM Box Manufacturers**



## 1.8.1 Access to <UTM Box Management>

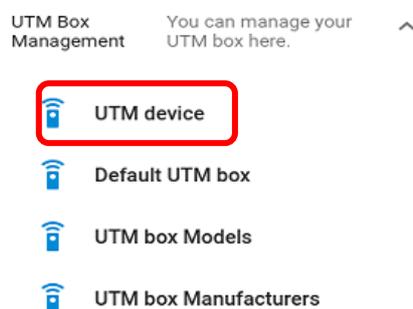
To access the display pages:

1. Left click on d-flight icon
2. Select <UTM Box Management >

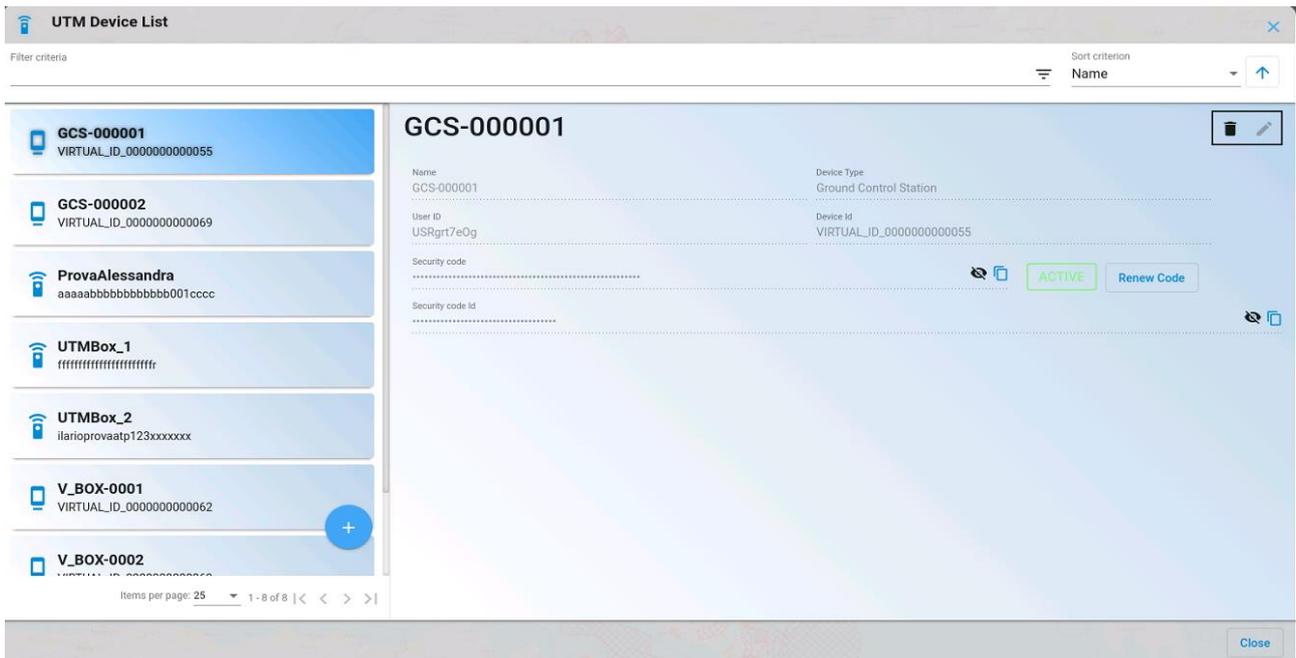


## 1.8.2 UTM device (Creation/Modification/Cancellation)

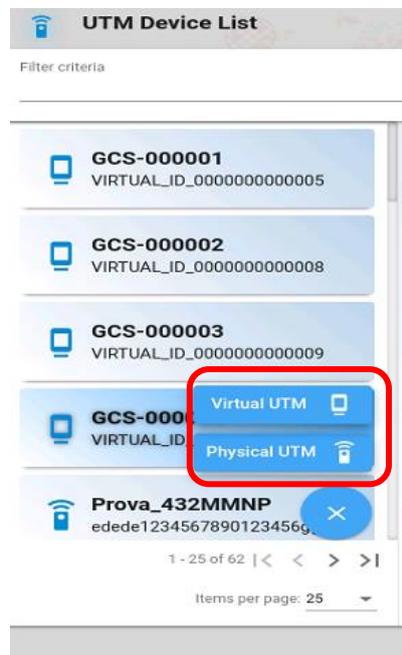
From UTM Box Management page select *<UTM device>* :



**<UTM device>**: allows viewing, editing and creating UTM devices on your account. The system retrieves the list of UTM devices for which the user is the owner. In the case of multiple UTM devices it is possible to carry out searches with Filter or Sorting



To **create a new UTM Device** click on the icon create new UTM Device (+). Two options will appear: < Virtual UTM> and <Physical UTM>.



If the user decides to insert a <Physical UTM>, the following page will appear:

**UTM Device List**

Filter criteria Sort criterion: Name

**GCS-000001**  
VIRTUAL\_ID\_0000000000005

**GCS-000002**  
VIRTUAL\_ID\_0000000000008

**GCS-000003**  
VIRTUAL\_ID\_0000000000009

**GCS-000014**  
VIRTUAL\_ID\_0000000000035

**Prova\_432MMNP**  
edede1234567890123456g

1 - 25 of 62 | << < > >> |

Items per page: 25

**New UTM Device**

Name \*

Manufacturer \*

Model \*

User ID: USRf1XmQS8

Device Id \*

**"Device Id" format: 5 alphabetic characters, 16 alphanumeric characters, 3 alphabetic characters**

Save Close

Enter the requested data.  
 Click on <Save> to complete the entry  
 Click on <Close> to exit without saving

Attention, the data marked with the symbol \* are required

Once the insertion is completed, the new UTM Device will appear on the left side of the panel:

**UTM Device List**

Filter criteria Sort criterion: Name

**GCS-000001**  
VIRTUAL\_ID\_0000000000055

**GCS-000002**  
VIRTUAL\_ID\_0000000000069

**ProvaAlessandra**  
aaaaabbbbbbbbbbb001cccc

**UTMBox\_1**  
ffffffffffffffffffffr

**UTMBox\_2**  
ilarioprovaatp123xxxxxx

**V\_BOX-0001**  
VIRTUAL\_ID\_0000000000062

**V\_BOX-0002**  
VIRTUAL\_ID\_0000000000062

Items per page: 25 | 1 - 8 of 8 | << < > >> |

**GCS-000001**

Name: GCS-000001 Device Type: Ground Control Station

User ID: USRgrt7eOg Device Id: VIRTUAL\_ID\_0000000000055

Security code: ..... ACTIVE Renew Code

Security code Id: ..... 🗑️

Close

If the user decides to insert a <Physical UTM>, other two options will appear: <Virtual Box> and <Ground Control Station>:



If the user decides to insert a <Virtual Box>, a new item identified by V\_BOX\_XXXX will appear in the list on the left. The last four numbers represent the progressive insertion:



If the user decides to insert a <Ground Control Station>, a new item identified by GCS-XXXXXX will appear in the list on the left. The last six numbers represent the progressive insertion:



For each UTM Device created, the system will automatically create and display the security code.

The security code must be used by the user to configure their device to send traces (for further information refer to the latest ICD document version available on the d-flight website).

Each Device will have a different security code from another device. In case of problems, the user can request support from d-flight by reporting the security code ID in the ticket.

Attention! These codes are personal and must not be given to third parties.

It is possible to:

- Visualize the UTM device's data
- Visualize and/or copy the security code and the security code ID

**UTM Device List**

Filter criteria: [Menu] Sort criterion: Name [Dropdown] [Up Arrow]

| Name       | Device Type            |
|------------|------------------------|
| GCS-000001 | Ground Control Station |

User ID: USRgrt7eOg Device Id: VIRTUAL\_ID\_0000000000055

Security code: ..... [Red Arrow] [ACTIVE] [Renew Code] [Red Circle]

Security code Id: .....

Items per page: 25 1 - 8 of 8 [Left] [Right]

Close

- Renew the code

**UTM Device List**

Filter criteria: [Menu] Sort criterion: Name [Dropdown] [Up Arrow]

| Name       | Device Type            |
|------------|------------------------|
| GCS-000001 | Ground Control Station |

User ID: USRgrt7eOg Device Id: VIRTUAL\_ID\_0000000000055

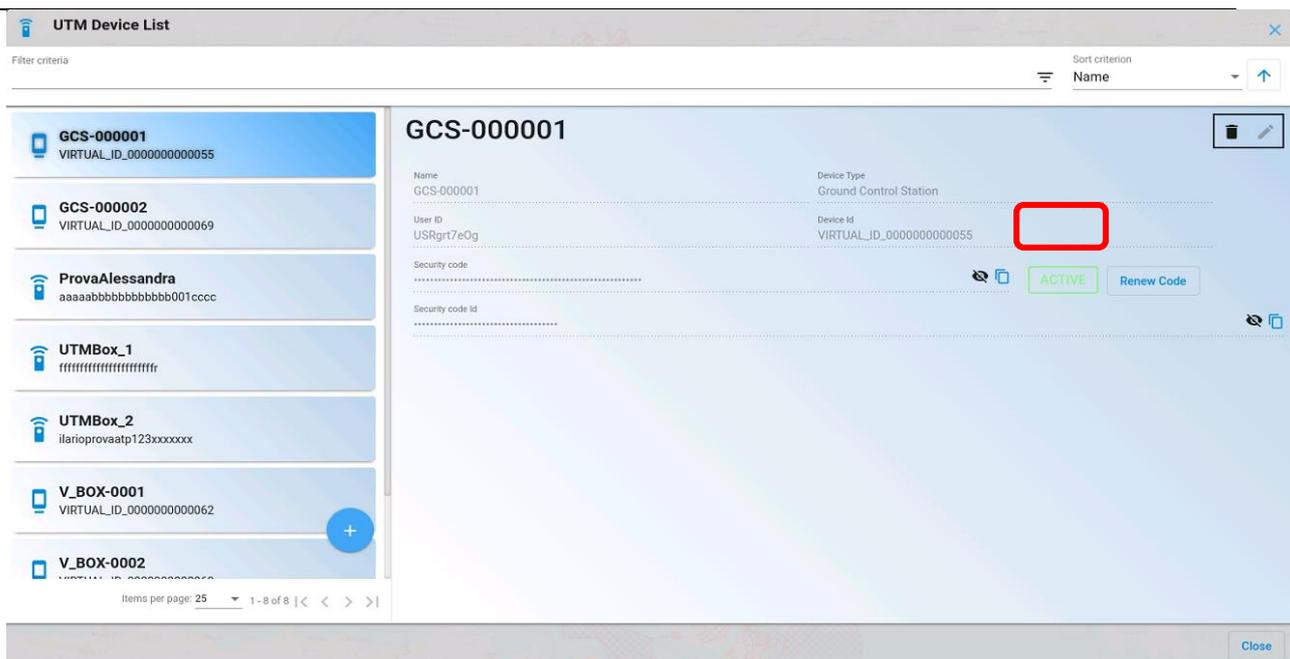
Security code: ..... [Red Box]

Security code Id: .....

Items per page: 25 1 - 8 of 8 [Left] [Right]

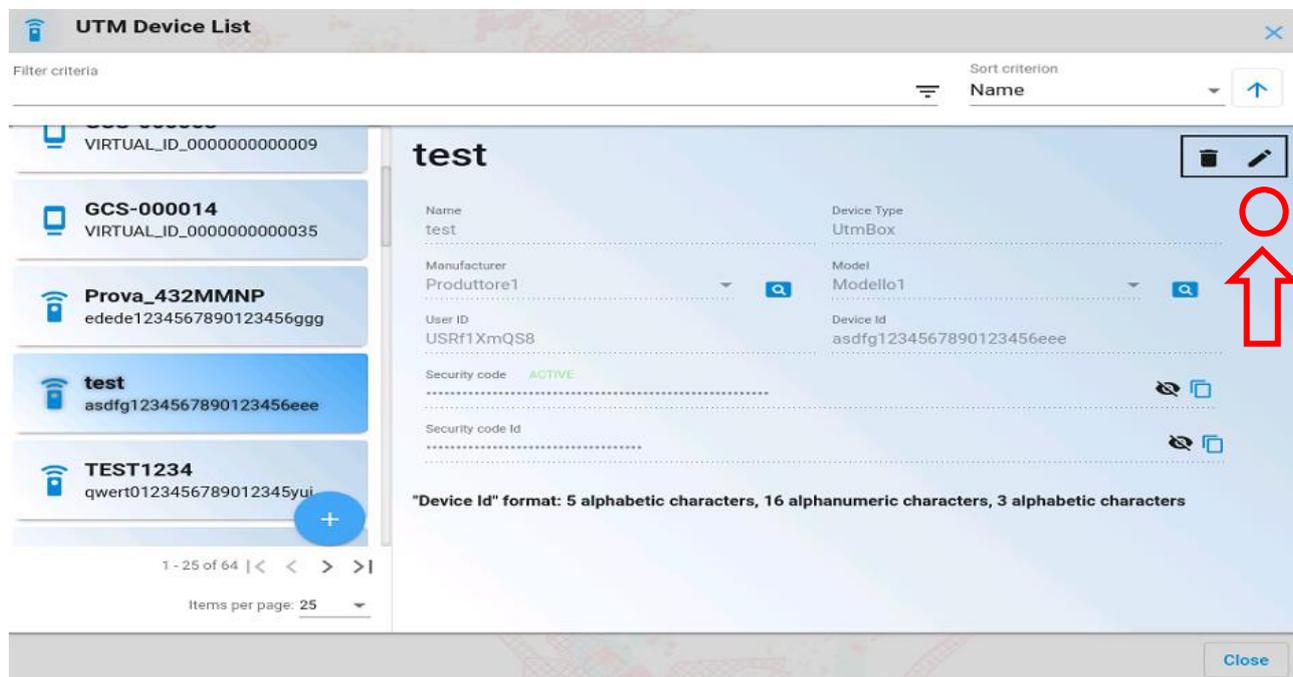
Close

- Visualize the state of the security code that could be
  - Active (in green)
  - Revoked (in red)
  - Suspended (in red)
  - To Renew (in red), that indicates that the user must regenerate the code to make it active again



- Modify or delete the Device.

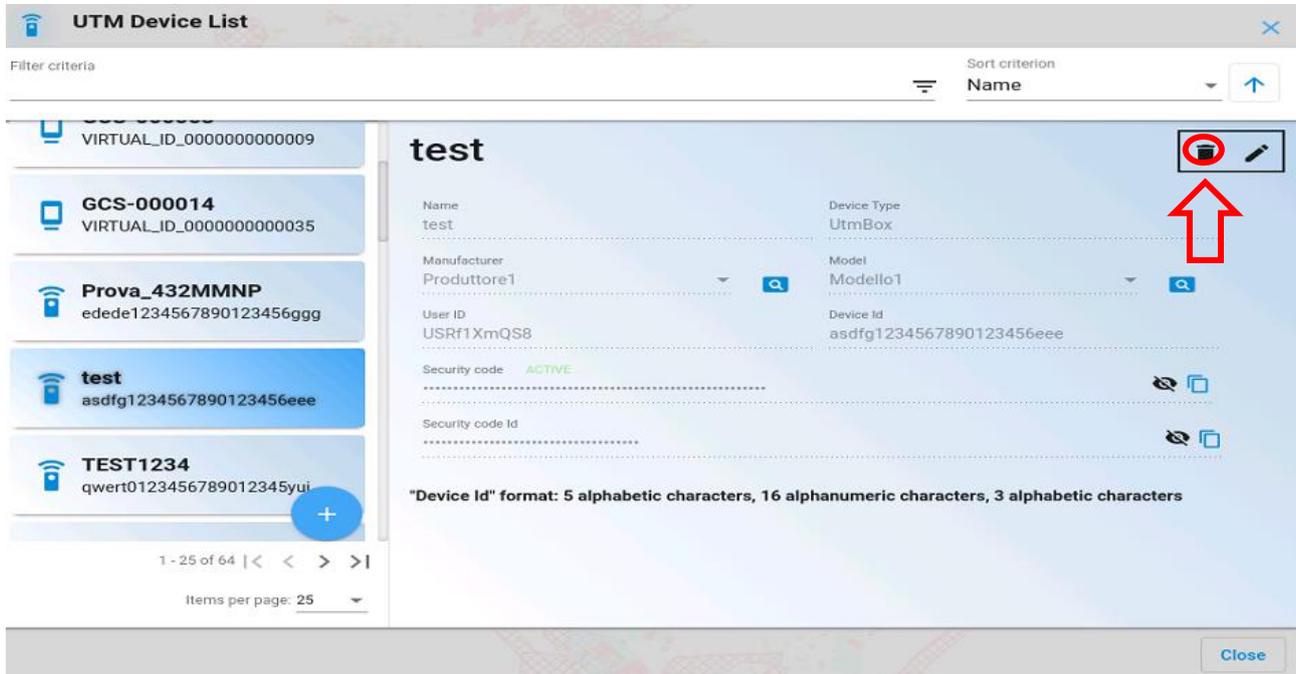
To **modify the data related to created UTM Device** select the UTM Device to be modified and click on the edit icon. Only Physical UTM Device can be modified.



To make changes, select:

- ✓ <OK> to confirm the changes
- ✓ <Cancel> to exit without making changes

To **delete the data related to a created UTM Box Device** select the UTM Box Device to be deleted and click on the delete icon.



The system asks for confirmation of the cancellation operation.

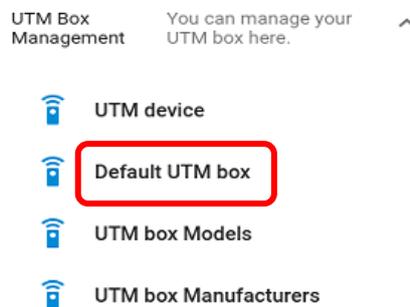
Select:

- ✓ <OK> to confirm the deletion
- ✓ <Cancel> to exit without making changes

The cancellation of a UTM Device will result the loss of association with the UAS, if any.

### 1.8.3 Default UTM box (Creation/Modification/Cancellation)

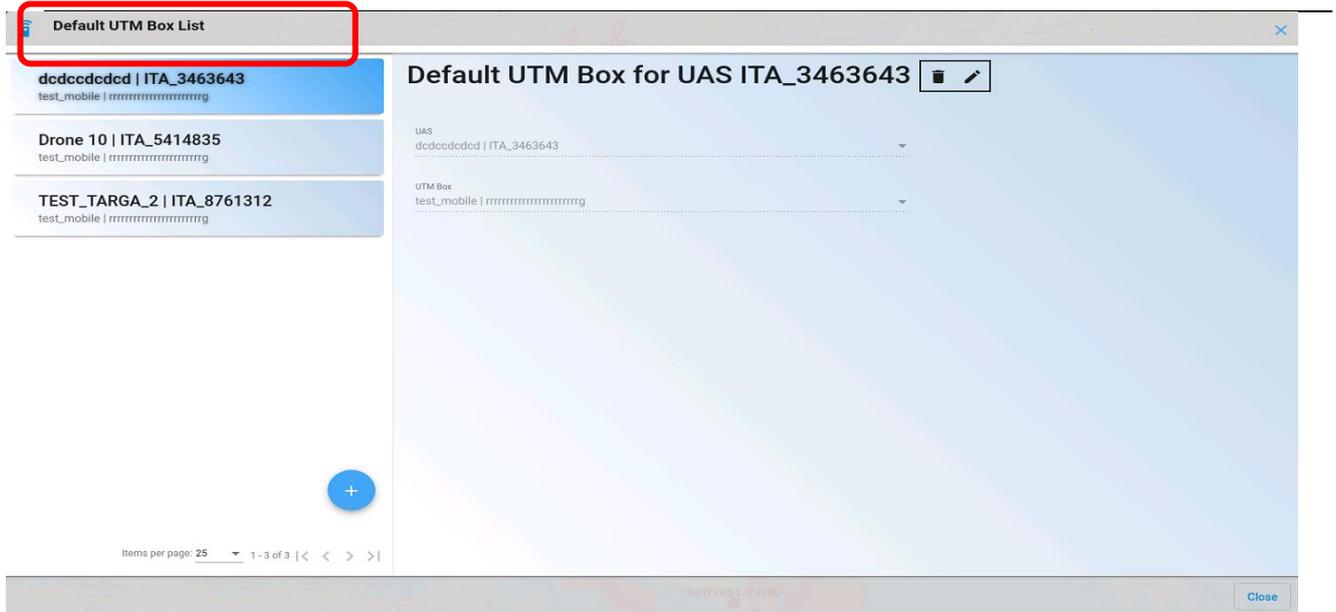
From UTM Box Management page select < Default UTM box > :



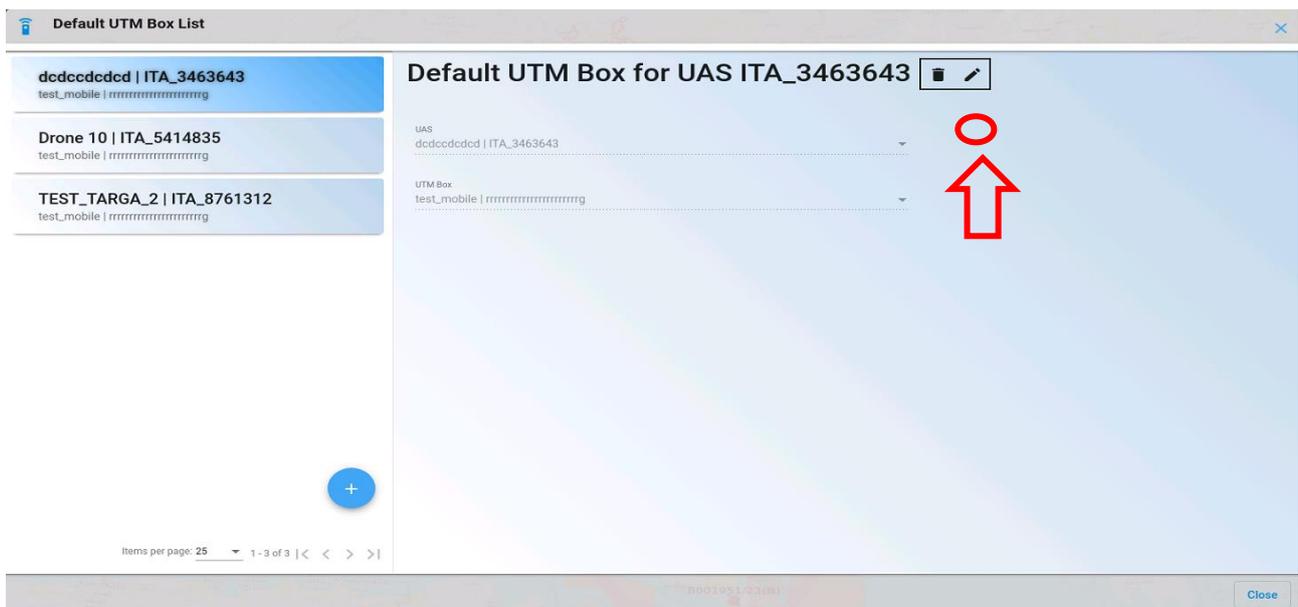
**<Default UTM box>**: allows viewing, editing and creating Default UTM box on your account. A Default UTM box allows the association between an UAS and an UTM Device.

The system retrieves the list of UTM devices for which the user is the owner.





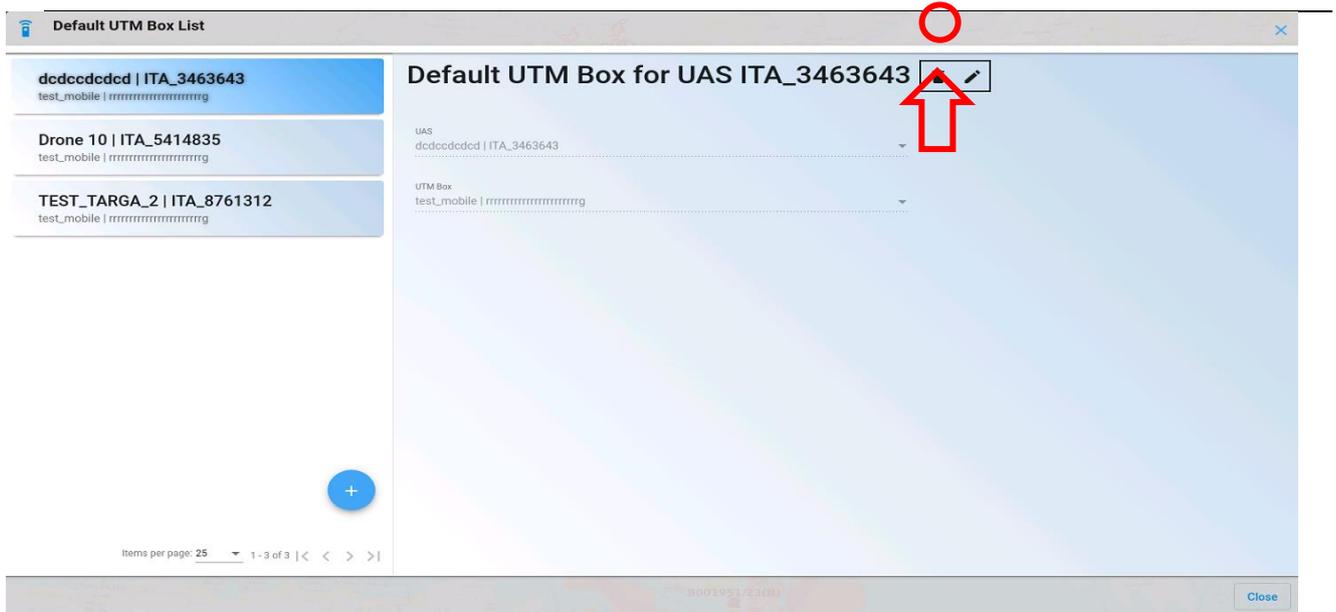
To **modify the data related to created Default UTM box** select the Default UTM box to be modified and click on the edit icon.



To make changes, select:

- ✓ <OK> to confirm the changes
- ✓ <Cancel> to exit without making changes

To **delete the data related to a created Default UTM box** select the UTM Box Device to be deleted and click on the delete icon.



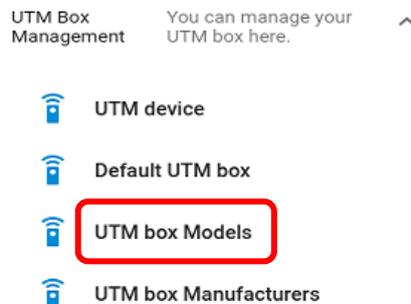
The system asks for confirmation of the cancellation operation.

Select:

- ✓ *<OK>* to confirm the deletion
- ✓ *<Cancel>* to exit without making changes

#### 1.8.4 UTM box Models

From UTM Box Management page select *< UTM box Models >* :



**<UTM box Models>**: allows viewing the models of UTM box on your account.

In the case of multiple models of UTM box it is possible to carry out searches with Filter or Sorting

**UTM Box Models List**

Filter criteria Sort criterion

|                     |                             |                      |
|---------------------|-----------------------------|----------------------|
| <b>Modello1</b>     | <b>Modello1</b>             |                      |
| <b>Modello2</b>     | Name                        | Manufacturer (hours) |
| <b>ModelloNuovo</b> | Modello1                    | Produttore1          |
| <b>AAAA</b>         | Autonomy (hours)            | Radiated power (dBm) |
| <b>MyModelTest1</b> | 65                          | 444                  |
| <b>Modello44445</b> | Transmission Frequency (Hz) | LTE Frequencies (Hz) |
|                     | 6                           |                      |
|                     | Weight                      | Width (cm)           |
|                     | 777                         | 554                  |
|                     | Length (cm)                 | Height (cm)          |
|                     | 3434                        | 3                    |

1 - 18 of 18 | << < > >> |  
Items per page: 25

Close

### 1.8.5 UTM box Manufacturers

From UTM Box Management page select < UTM box Manufacturers > :

UTM Box Management You can manage your UTM box here. ^

- UTM device
- Default UTM box
- UTM box Models
- UTM box Manufacturers**

< **UTM box Manufacturers** >: allows viewing the manufacturers of UTM box on your account.

In the case of multiple manufacturers of UTM box it is possible to carry out searches with Filter or Sorting.

**UTM Box Manufacturers List**

Filter criteria Sort criterion: **Name**

- DEFAULT\_VIRTUAL\_MANUFA**
- Produttore1
- Produttore2
- Produttore3
- Produttore4
- ProduttoreAAA

1 - 7 of 7 | < > |

Items per page: 25

## DEFAULT\_VIRTUAL\_MANUFACTURER

|                                      |                     |
|--------------------------------------|---------------------|
| Name<br>DEFAULT_VIRTUAL_MANUFACTURER | Industry            |
| VAT Code                             | Registered email    |
| Web Site                             | Contacts            |
| Address Headquarter                  | City Headquarter    |
| Province Headquarter                 | Country Headquarter |
| Address Legal Site                   |                     |

[Close](#)

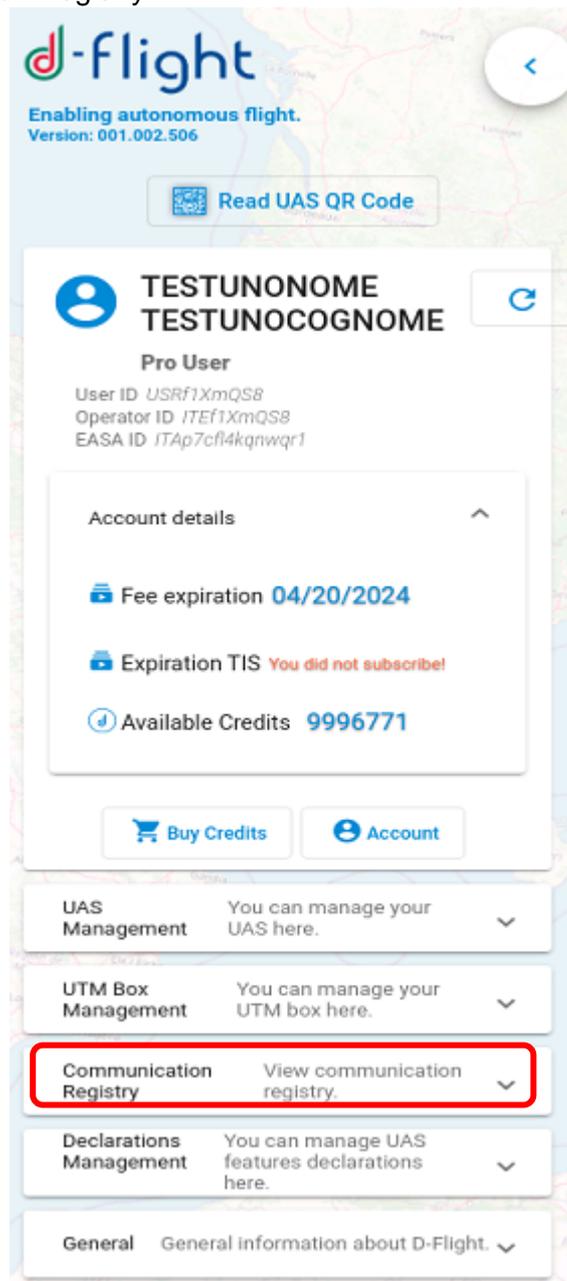
## 1.9 COMMUNICATION REGISTRY

It is the service through which a user can keep track of the communications received during the missions.

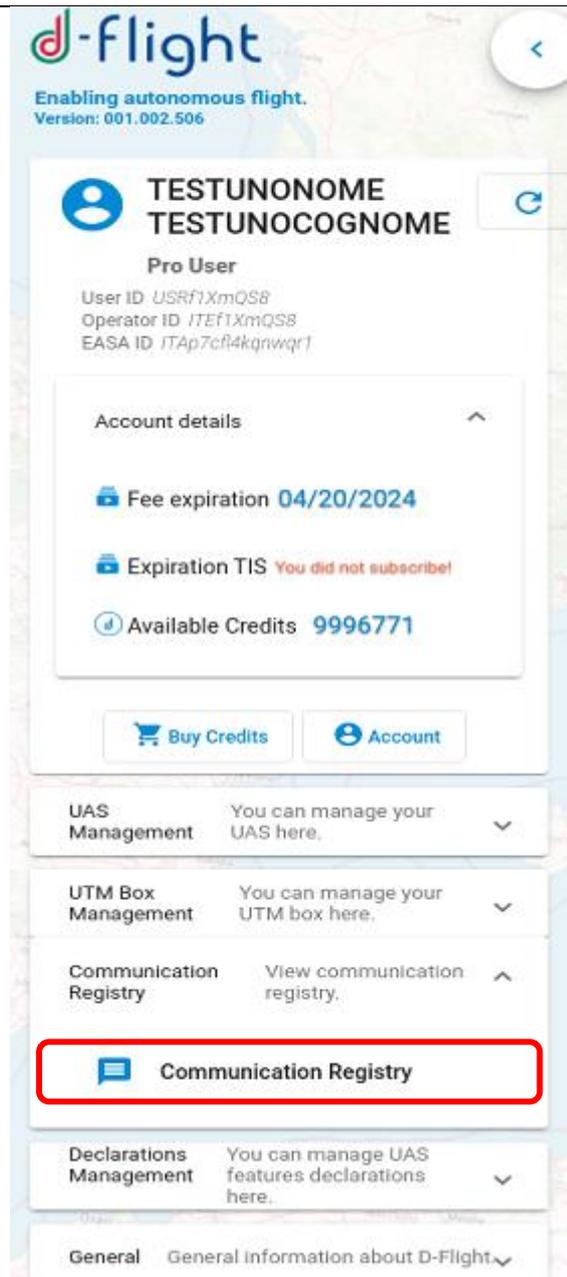
### 1.9.1 Access to <Communication Registry>

To access the display pages:

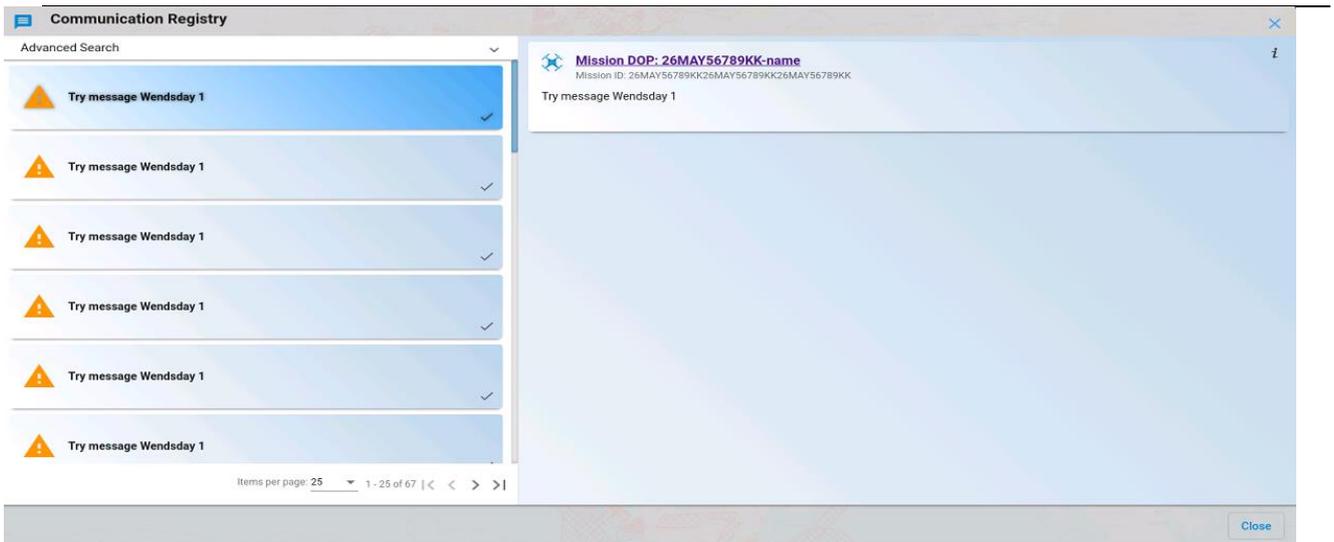
1. Left click on d-flight icon
2. Select <Communication Registry>



From the drop-down menu select < Communication Registry>

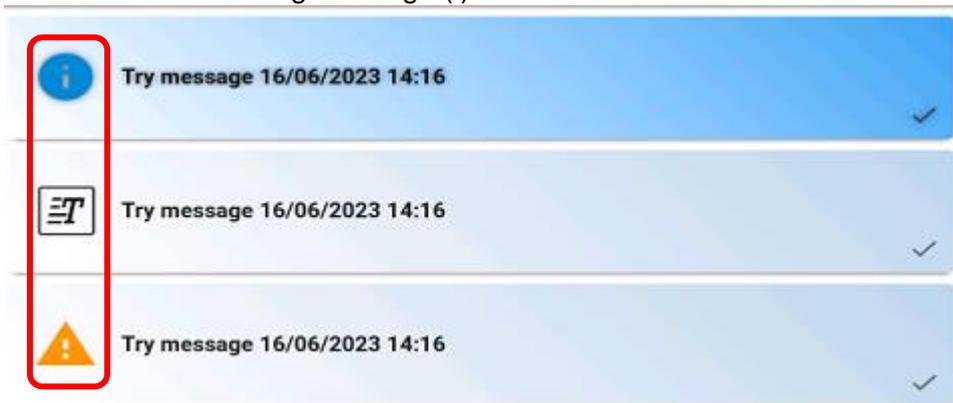


In the panel <Communication Registry> it is possible to visualize all the received message from the user during its missions:



In the left side of the panel, it is possible to visualize all the existing messages divided in pages. For each message there is:

- An icon that specifies the type of received message:
  - o Info message (i)
  - o Free Text message (T)
  - o Warning Message (!)



- The message preview:



- The state of the message:
  - o Not received (✓), when the user has not received the notification of the message during the mission. The message is visible only in the registry.



- o Received (✓✓), when the user receives the notification of the message during the mission but do not open the message. In this case it is also visible date and time of the reception.

Try message Monday

19/06/2023 21:57

- Read (✓✓), when the user has received the notification of the message during the mission and has opened the message. In this case it is also visible date and time of the reception.

Try message Monday

19/06/2023 22:03

Click on <Advanced Search> to carry out searches with Filters based on:

- Start/End date/time of the mission
- Type of message
- Mission ID
- Mission Type
  - DOP
  - DOA

### Communication Registry

Advanced Search ^

Start date/time   End date/time

Type

Mission ID  Mission Type  DOP  DOA

---

Try message Monday 19/06/2023 21:57

Try message Monday 19/06/2023 22:03

Try message Monday 19/06/2023 22:03

Items per page: 25 26 - 50 of 67 |< < > >|

Click on <apply> to apply the desired filters or on <reset> to reset the options.

Once selected a message, in the right side of the panel there are the details of the message and of the respective mission.

This screenshot shows a message card with the following elements: a blue robot icon, the text "Mission DOP: 26MAY56789KK-name" in purple, "Mission ID: 26MAY56789KK" in smaller grey text, and "Try message Monday" in grey. On the right side, there is an information icon (i) and two timestamps with checkmarks: "19/06/2023 21:57 ✓" and "19/06/2023 22:03 ✓".

It is possible to read:

- Mission name

This screenshot is identical to the previous one, but the text "Mission DOP: 26MAY56789KK-name" is highlighted with a red rectangular box.

It is possible to click on it to view all the details of the mission. (add mission part)

- Mission ID. Click on the <info> icon (i) to copy it.

This screenshot is identical to the previous ones, but the "Mission ID: 26MAY56789KK" text and the information icon (i) are highlighted with red rectangular boxes.

-the complete text of the message

This screenshot is identical to the previous ones, but the text "Try message Monday" is highlighted with a red rectangular box.

Date and time of reception and reading of the message (only present if the message has been received and/or read)

This screenshot is identical to the previous ones, but the two timestamps "19/06/2023 21:57 ✓" and "19/06/2023 22:03 ✓" are highlighted with a red rectangular box.

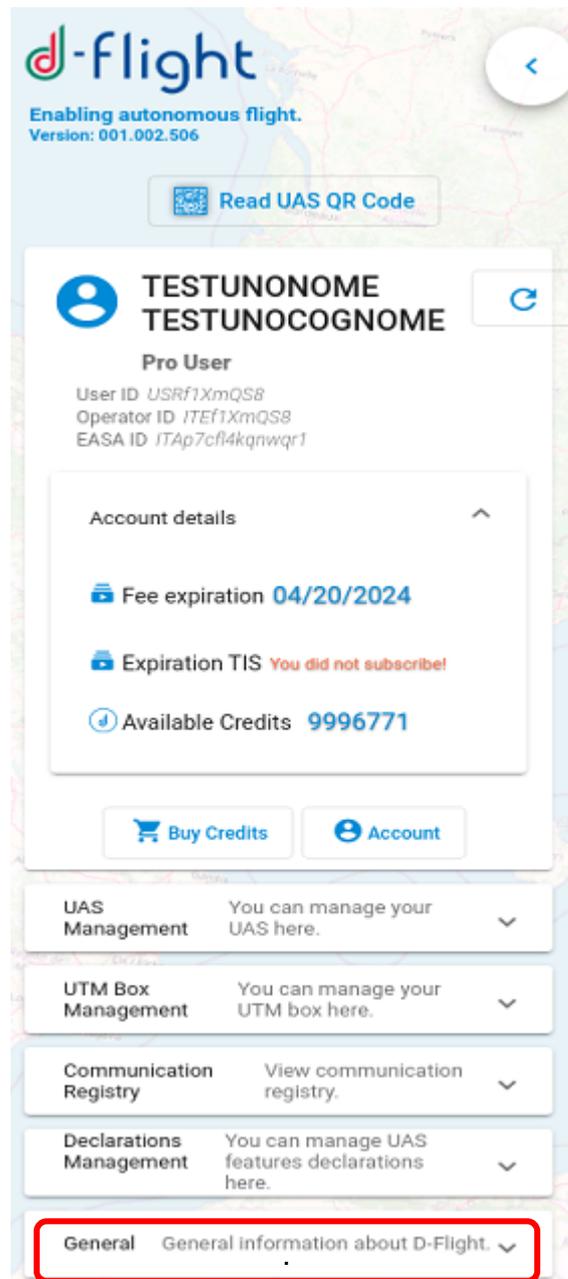
## 1.10 GENERAL

It is the service through which a user obtain general information about d-flight.

### 1.10.1 Access to <General>

To access the display pages:

1. Left click on d-flight icon
2. Select <general>



It appears a drop-down menu with the following Tabs:

-  [Privacy Info](#)
-  [Who we are](#)
-  [Support](#)
-  [Terms and conditions](#)
-  [Air rules](#)
-  [Updates on regulations](#)
-  [D-Flight user manual](#)

---

## 1.11 VLOS DRONE OPERATION AREA

This service allows the declaration of a NON-CRITICAL VLOS mission by a accredited user and subsequently its activation / deactivation, allowing the user to plan and activate their VLOS mission and make it visible to all users logged on the portal. This service constitutes an important contribution to situation awareness regarding the flight zone in which the user is interested, allowing him to find out if there are already active VLOS missions at the same time and in the same space.

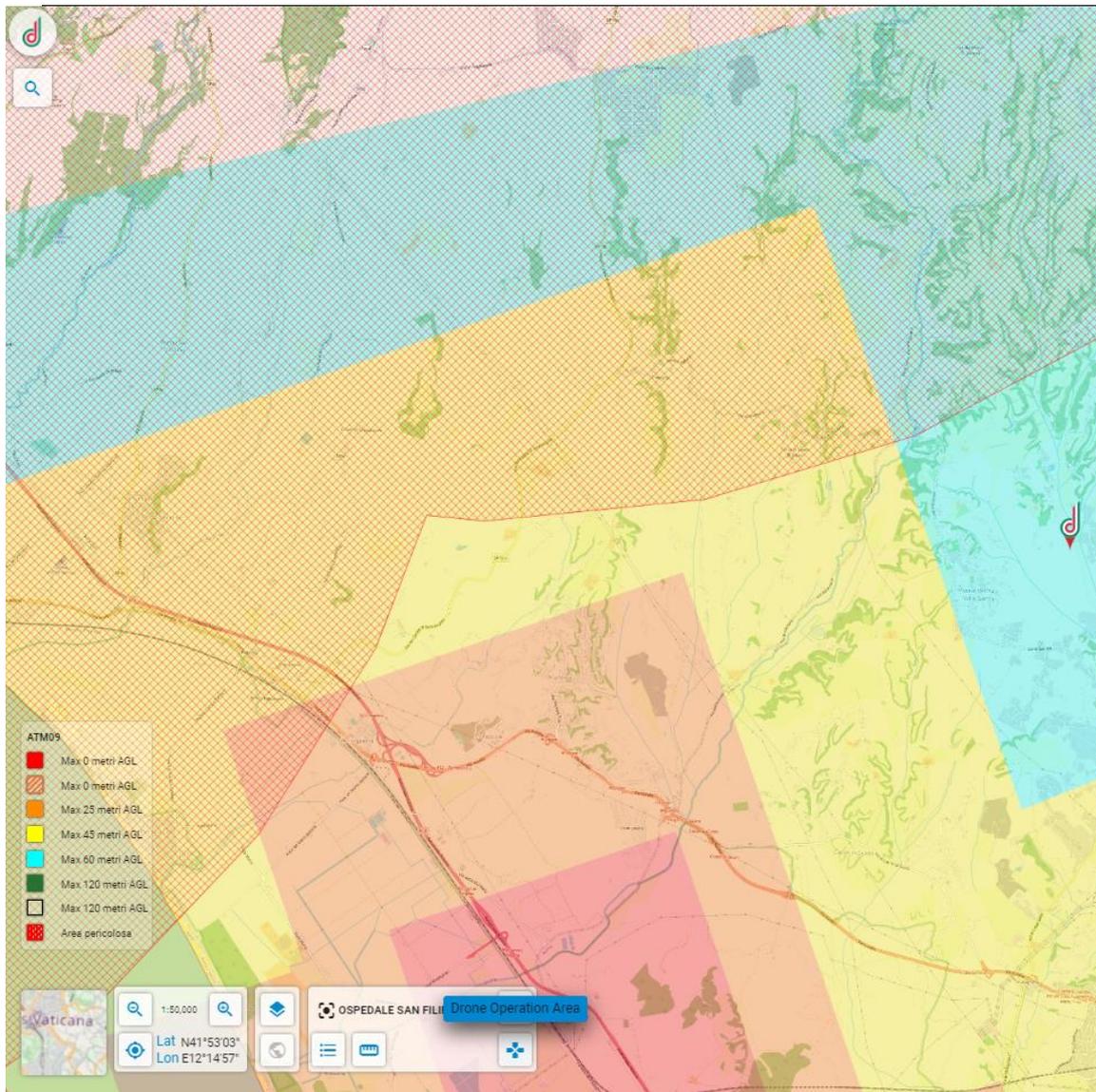
The service allows the user to draw on the map the area where he will want to carry out his VLOS-type mission. The mission will be plannable if it respects the flight rules in the area concerned. Immediately before starting the flight, the pilot must have activated localization on the device used and sharing with the browser and will have to start the mission; only at that moment will the area he designed become visible on the map to all d-flight users present at that moment on the portal. The visualization will be anonymous, as the system will not present any data concerning the user (including UAS) who planned and activated the mission.

At the end of the mission, the pilot will have to "end" the mission, and the planned area will no longer be visible otherwise the system will remove this area automatically after a timeout time from the start.

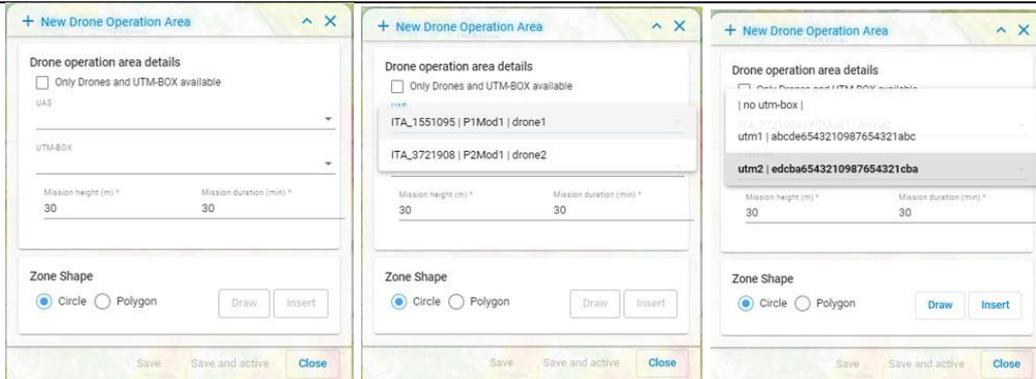
In order to access the VLOS Drone Operation Area it is necessary to be registered on d-flight as **UAS operators**, to have a UAS with **active Qr-Code** and in a **ready-to-fly status**.

An operator user must:

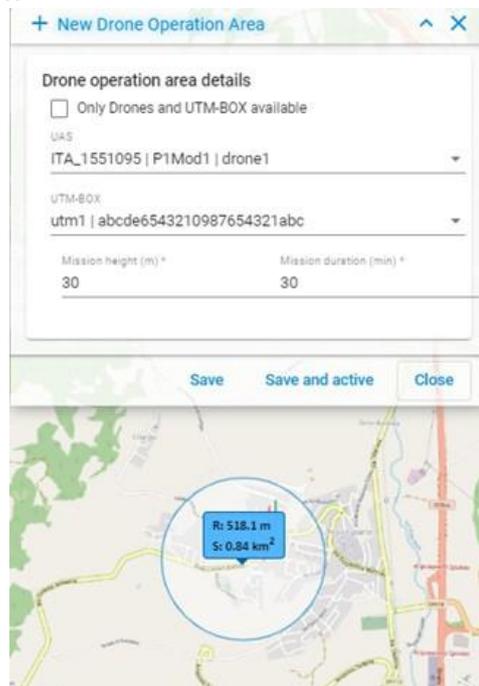
1. log in to the d-flight portal
2. select the VLOS - Drone Operation Area - flight declaration addition button ().



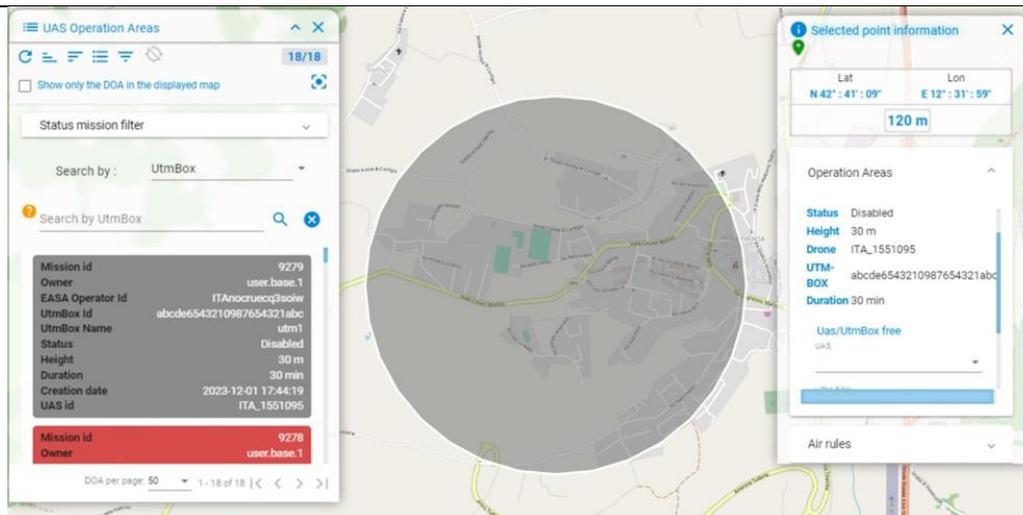
3. The application presents a panel with the mandatory data of the mission:
  - “Only Drones and UTM-BOXes available” check box: if checked then only UASs and UTM-boxes not engaged in another active mission are shown
  - UAS Details: Drone details with which to perform DOA
  - Choice of UTM-BOX to associate with the DOA: UTM-BOX associated by default in bold, "No UTM-box" for no association
  - Maximum flight height of the mission, maximum 120 m
  - Mission duration in minutes
  - Type of geometry: circle or polygon



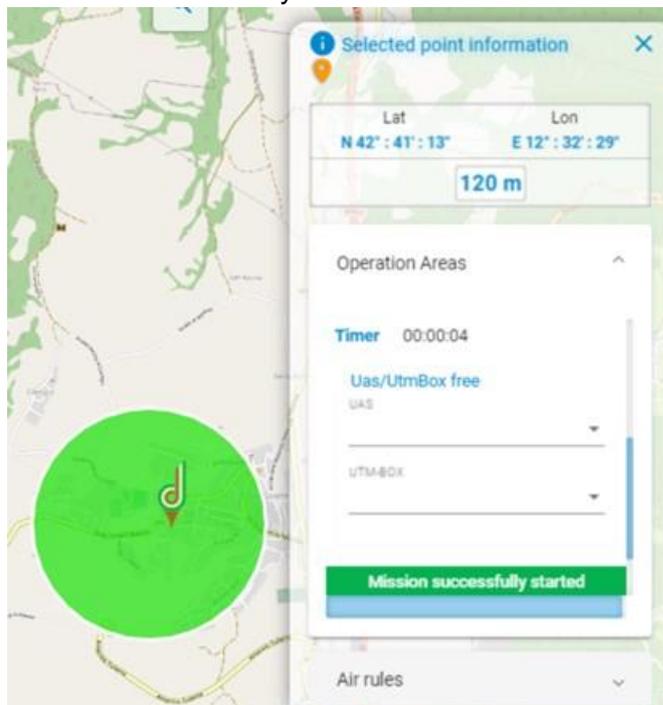
4. select the *<draw>* button and start defining the area that will interest you with your VLOS mission



5. save pressing on the button. The system verifies that the declared area does not intersect controlled areas and adjusts the maximum flight altitude or blocks the saving of the mission if it is in prohibited areas. Presents a warning for dangerous areas. After saving, the mission remains visible, flashing green, for a configurable number of minutes, including for other users. Once the mission has been saved it is in the "DISABLED" state, the declared mission is displayed on the map only for the user creator with a grey color, in a special information window.

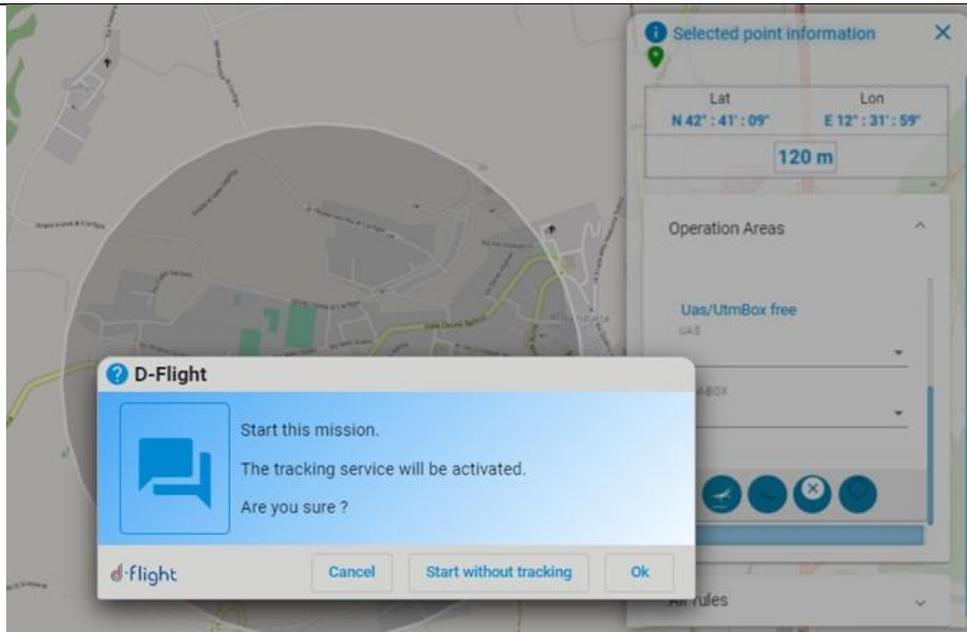


- To activate the mission, select the grey area that represents the geometry of the DOA which is highlighted with a white border
- Click on the icon with the letter "i" which opens the Info panel and scroll the panel until you see the "Uas/UtmBox free" section and the icons below. In this section it is possible to modify the choice of UAS and/or UTM-BOX. Only those not engaged in other missions are shown.
- Click on <Start> and then on <Ok>. At this point, the activation time is saved, the polygon changes color to green and is visible to all users in green. The detailed information panel will be visible only to the user who created the mission.

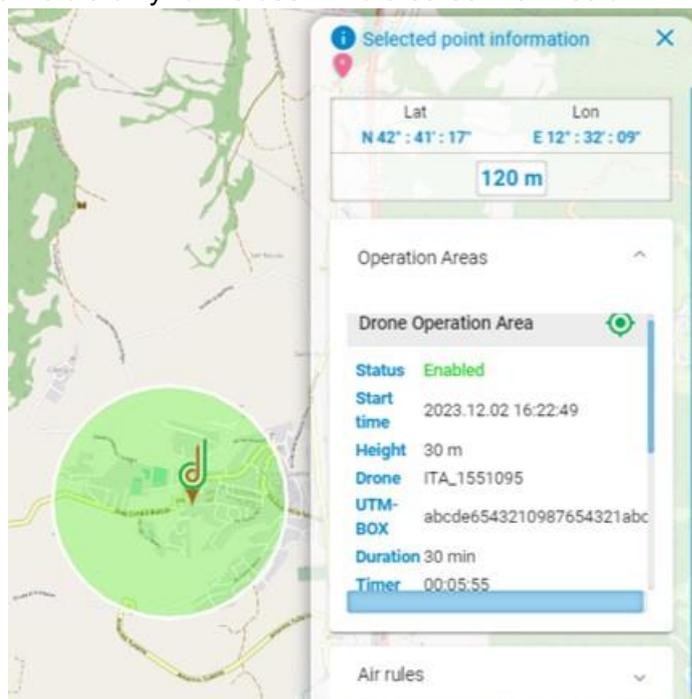


**ATTENTION.** The user must be inside the area declared to **ACTIVATE** the mission, having activated the location on the device used and sharing it with the browser

- on the other hand, the user can *save and start* the mission directly with the appropriate button. Press <Ok> to start the mission with operator tracking; press <Start without tracking> to start the mission without operator tracking.

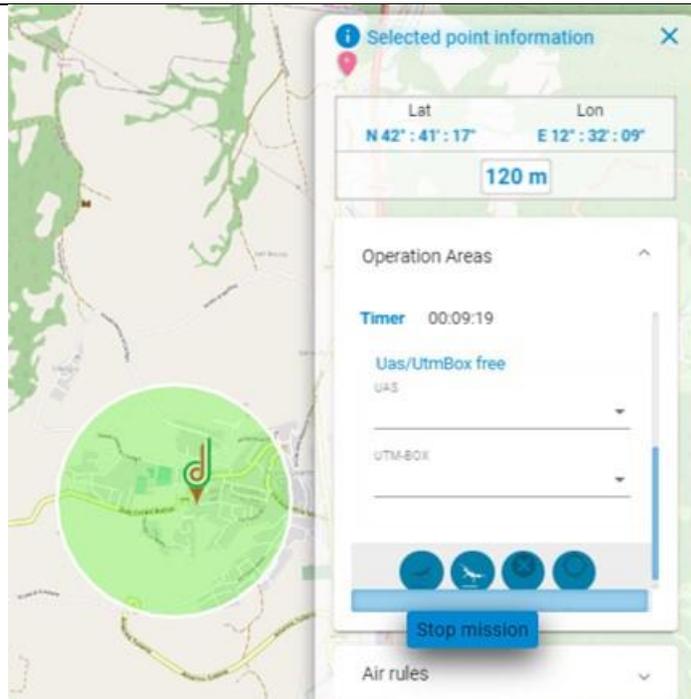


- The mission is "ACTIVE", the activation time is saved, and the drawn polygon will become green and visible to all users in pink, while the detailed information panel will be visible only to the user who created the mission.



**ATTENTION.** The user must be inside the area declared to **ACTIVATE** the mission, having activated the location on the device used and sharing it with the browser

- select the *<Stop mission>* button on the information panel to end the mission



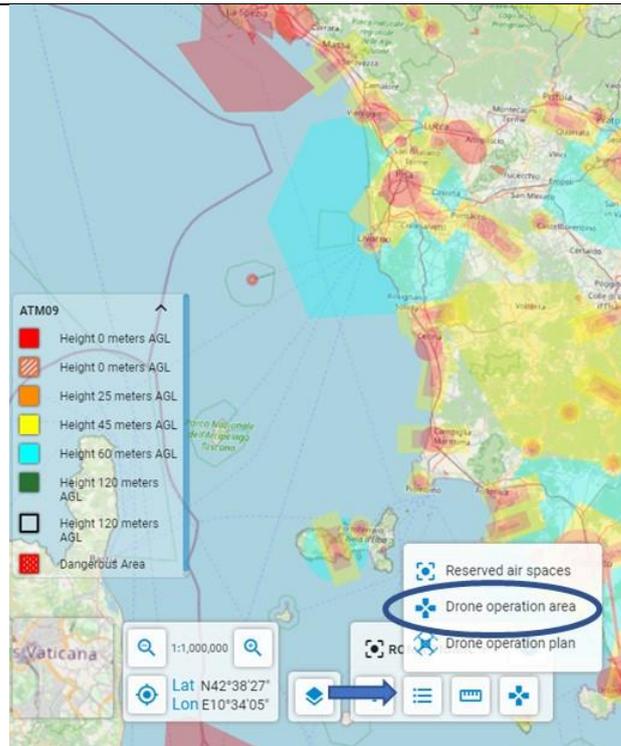
ATTENTION. If the user, after starting a mission, does not terminate it, the system automatically ends the mission after a time of 10 minutes in addition to the number of minutes entered during the declaration phase starting from the moment of start.

#### ATTENTION:

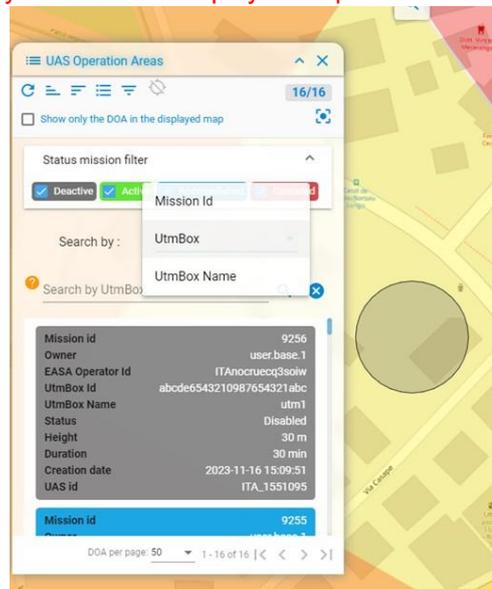
- Each user can declare only one mission at a time.
- The designed area must be outside of regulated and forbidden areas.
- The maximum height must be compatible with that of the most restrictive area intersected by the declared area (the system automatically updates the maximum height).
- The user must be within the area declared for the mission, having activated location on the device used and sharing it with the browser.
- The size of the area has a maximum extension of 1km, the user can move during the flight as long as he always keeps the UAS in VLOS.

#### 1.11.1. DOA list

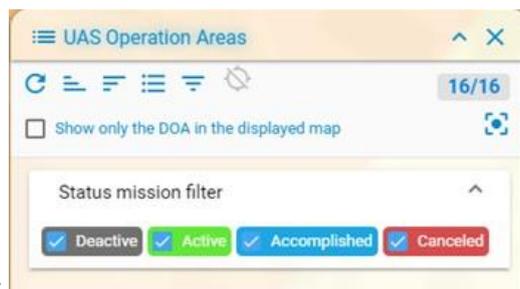
You can access the list of your own disabled, enabled, accomplished and cancelled Drone Operation Area missions by clicking on the button  where on the Drone Operation Area you can view the list mentioned above:



ATTENTION: only the DOAs in the geographical area displayed on the screen are displayed if the “Show only DOAs in the displayed map” check box is selected.



Red shows cancelled missions, blue accomplished missions, grey deactive ones. It is possible to search faster for the desired mission by activating the filters available in the toolbar:



"Status Mission Filter" toolbar

"Search by": "Mission ID" or "UtmBox" or "UtmBox Name"

Note associated with the search:

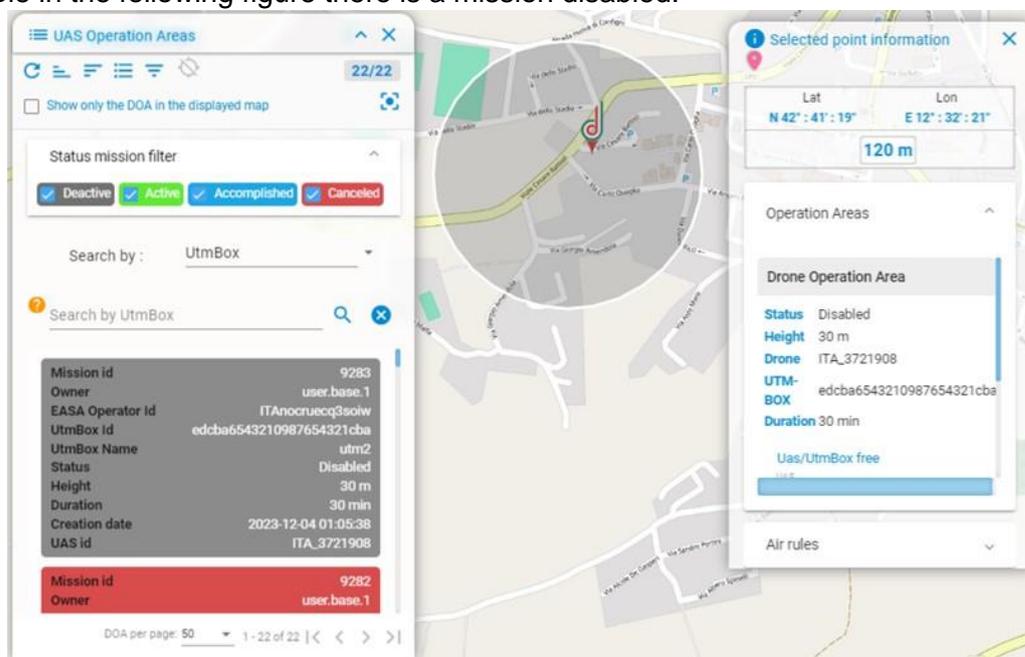
In the text field, enter the user name to search for or a utmbox id or a utmbox name, or a search pattern.

You can use the special characters '?' (exclamation point) and '\*' (asterisk); the exclamation point represents any alphanumeric character, the asterisk any sequence, possibly empty, of alphanumeric characters.

To search only for missions without utmbox you need to insert the special value [null], instead if the value is an empty string no filter will be applied on utmbox, and if the value is not empty the missions without utmbox will be excluded.

In any case, the search is not case-sensitive.

When selecting a DOA in the list, the cursor points directly to the chosen area, in the example in the following figure there is a mission disabled:



It is possible to select the number of DOA to be visualized in the list.

In the list there are counted, but not visualized by default, the DOA in state "canceled". Those can be visualized, opening the "Status Mission Filter" toolbar and flagging the state "canceled".

It is also possible to activate DOAs in a deactive state:

1. click with the right button inside the area to which you are redirected or click on the information icon after selecting the area with the left mouse button



2. click the start mission icon
3. At this point the selected area will turn green and the mission will be "Enabled"

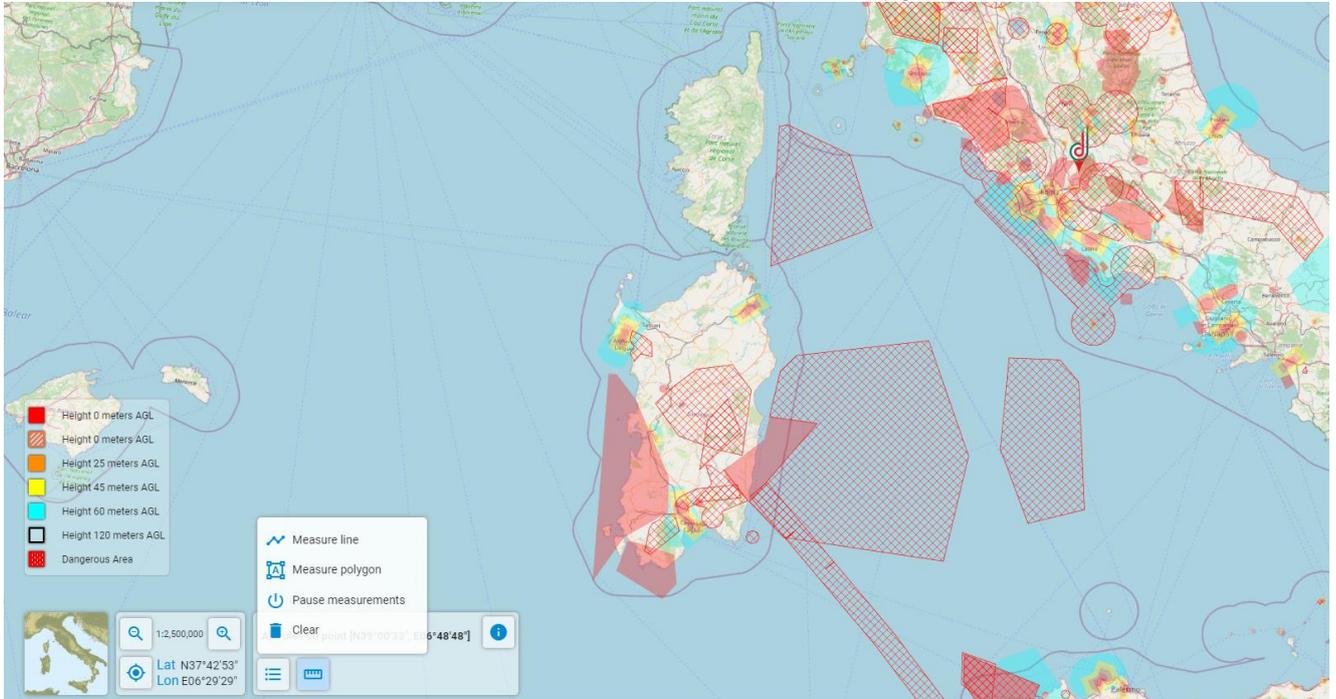
## 1.12 MEASUREMENTS

This service allows the user to measure the length of a line and the area of a polygon.



You can access the service by clicking on the icon

The user can choose whether to measure a line or the area of a polygon.



To make a measurement:

1. Click on "**line measurement**" or "**polygon measurement**"
2. Draw the line or polygon
3. Click with the left mouse button on the last drawn point

At this point, the line or area of the drawn polygon will be measured.



4. To delete the measurements made, click on the "**Clear**" button.

## 2 DRONE OPERATION PLAN

Users can access the Mission Planning & Validation service only if they:

1. are accredited
2. have signed a Pro subscription
3. are upgraded to UAS operator user
4. have an active QR-Code (BASE and / or PRO)
5. have at least one UAS ready to fly

We recommend to use a device equipped with a mouse for easier editing the mission geometry.

Entering and submitting of a mission is NOT available from the Mobile App.

The Drone Operation Plan (DOP) service allows the user who meets the above characteristics to plan a mission.

Below panel by panel the instructions on data entry.



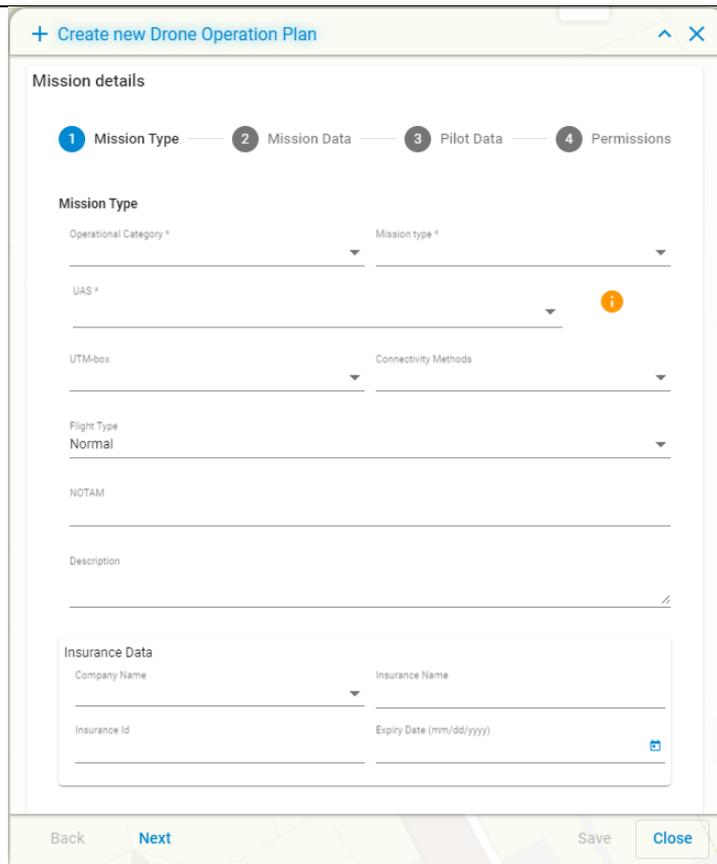
To access the service, click on the **<DOP>** icon

After clicking, you can enter all the details relating to the mission:

1. Mission type
2. Mission data
3. Pilot data
4. Authorization

### 2.1 Mission Type

Once clicked on the **<DOP>** icon, the following panel appears:



the user should fill the parameters:

- A. Operational category\*:
  - CERTIFIED
  - OPEN
  - SPECIFIC
- B. Mission Type\*: it depends on the Operational category:
  - For CERTIFIED:
    - EASA-G-01
  - Per OPEN
    - OPEN
  - For SPECIFIC
    - BVLOS-NO-STD
    - EASA-G-02
    - IT-PDRA-03
    - IT-PDRA-04
    - IT-PDRA-05
    - IT-PDRA-06
    - IT-STG-01
    - IT-STG-02
    - VLOS-NO-STD
- C. UAS\*: UAS ready to flight
- D. UTM-Box: UTM-Box owned by the user
- E. Connectivity Method: it depends on the previous selections.
- F. Flight type: it depends on the previous selections
- G. NOTAM: it is possible to specify the NOTAM ID
- H. Description: it is possible to insert a description

- I. Insurance Data: after selecting the UAS from the user fleet, the system retrieves the details of the insurance policy defined in the UAS database, displaying the information:
- Name of the insurance company
  - Name of the insurance package
  - Policy ID
  - Expiry date

The user can:

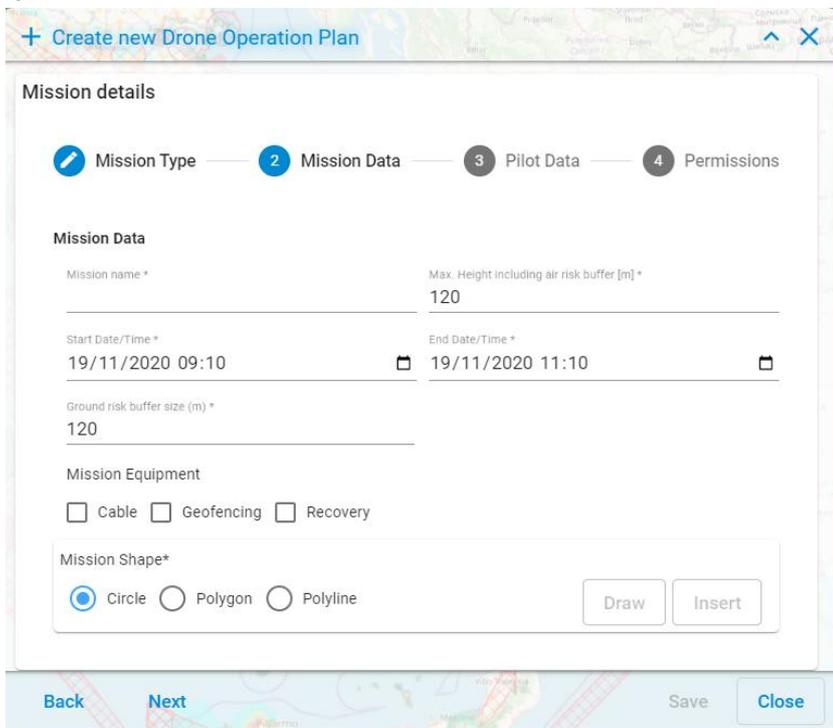
1. confirm the insurance defined for the UAS;
2. specify the details of an insurance policy that applies to the mission only, by entering:
  1. Name of the insurance company
  2. Name of the insurance package
  3. Policy ID
  4. Expiry date
3. Leave the fields empty/Deleting the info automatically retrieved

*Attention the fields with asterisk (\*) are mandatory*

After entering all the necessary information, click on **<Next>** to continue otherwise on **<Close>** to cancel.

## 2.2 Mission Data

Within this section, the User has the possibility to enter the spatial and temporal data of the mission:



**+** Create new Drone Operation Plan

Mission details

1 Mission Type — 2 Mission Data — 3 Pilot Data — 4 Permissions

**Mission Data**

Mission name \* \_\_\_\_\_ Max. Height including air risk buffer [m] \* 120

Start Date/Time \* 19/11/2020 09:10 End Date/Time \* 19/11/2020 11:10

Ground risk buffer size (m) \* 120

Mission Equipment

Cable  Geofencing  Recovery

Mission Shape\*

Circle  Polygon  Polyline

Draw Insert

Back Next Save Close

- Mission Name \*
- Maximum Height \* [m] - **including air risk buffer**
- Start Date / Time \*

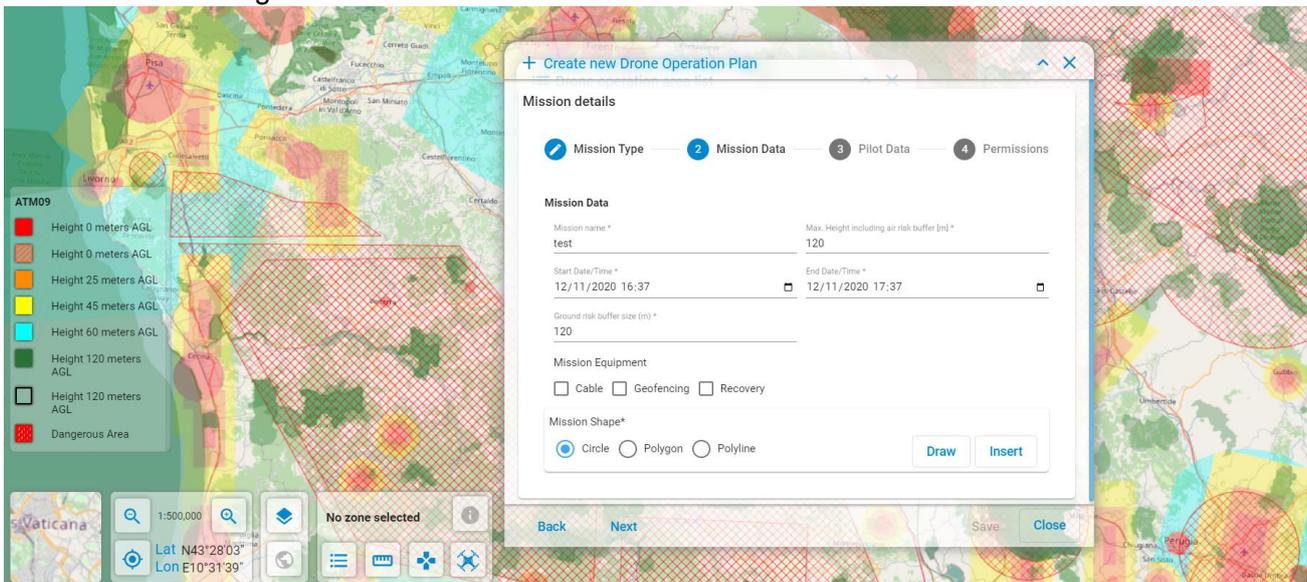
- End Date / Time \*
- Buffer size \* [m]

*Attention fields with an asterisk (\*) are required*

The user must also enter the mission geometry. This can be done in three ways:

1. Selecting the type of mission geometry
  - Circle
  - Polygon
  - Polyline

Then clicking on the **'Draw'** button.



At this point it will be possible to draw the selected geometry on the map.

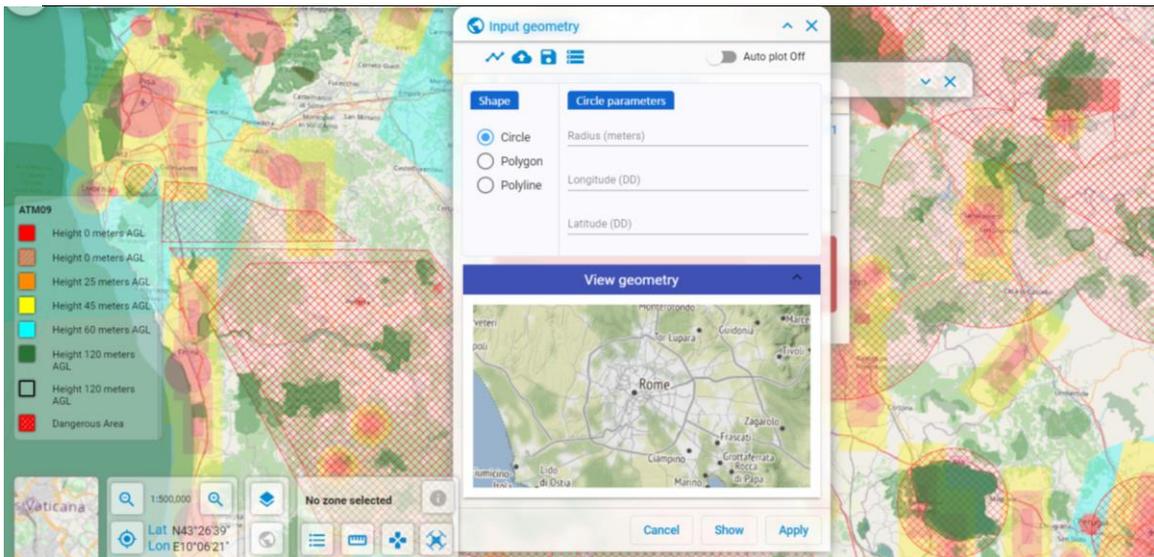
**Before drawing, we recommend that you zoom to the maximum value on the area of interest.**

**To cancel the drawing, press “Esc”.**

2. Selecting the type of mission geometry
  - Circle
  - Polygon
  - Polyline

Then by clicking on the **'Insert'** button

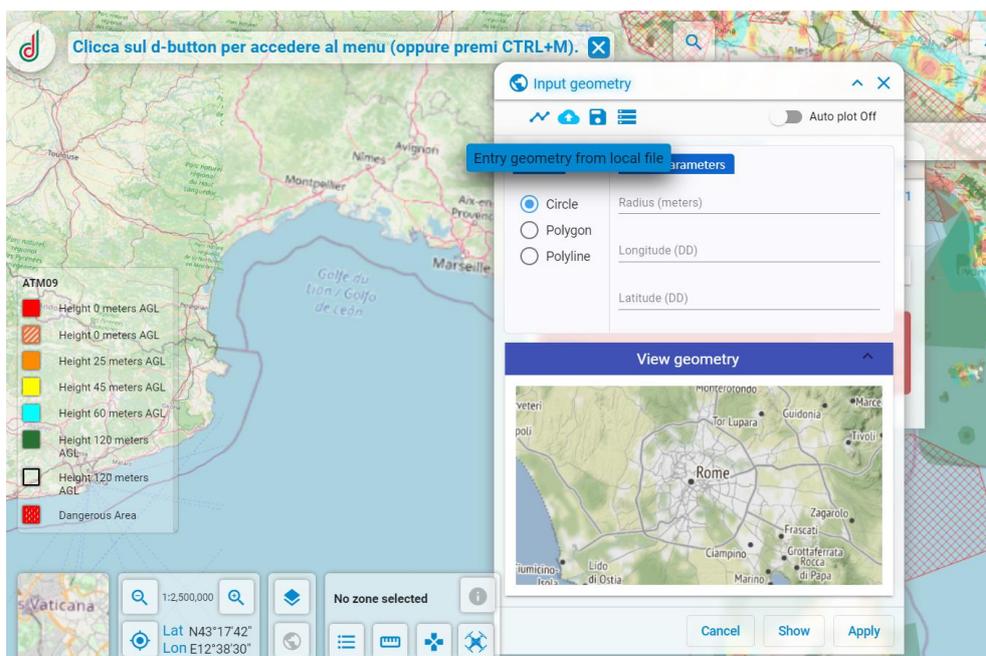
At this point it will be possible to modify the type of geometry (circle, polygon, polyline) and insert:

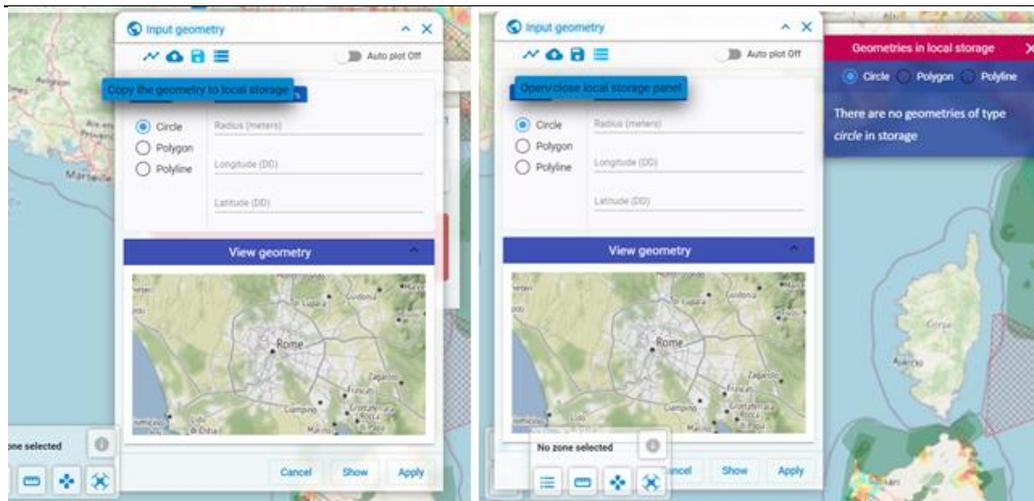


- For the circle: Latitude and Longitude of the circle and maximum radius (in meters)
- For the polygon: Latitude and Longitude of each point
- For the polyline: Latitude and Longitude of each point

**To view geometry creation on the map activate Auto Plot**  
**To cancel the inserted mission geometry, press “Esc”.**

3. Finally it is possible to import a geometry from a local file whose format can be: wkt, kml, geojson and view the geometry inserted in the "Geometry View" panel and in the map if Auto Plot has been activated





It is also possible to save the geometries created on local storage by clicking on the icon  and view them through the storage panel by clicking on the icon .

Once all the necessary information and geometry have been entered, click on **<Next>** to continue otherwise on **<Back>** to return to the previous panel.

Once the mission geometry has been defined, the system will check if the Drone Operation Plan intersects areas for which flight restrictions are foreseen. In the event of an intersection with geographical areas for which the mission parameters conflict with the mission parameters (maximum flight altitude), a window will be shown with the list of affected areas and the type of constraint violated.



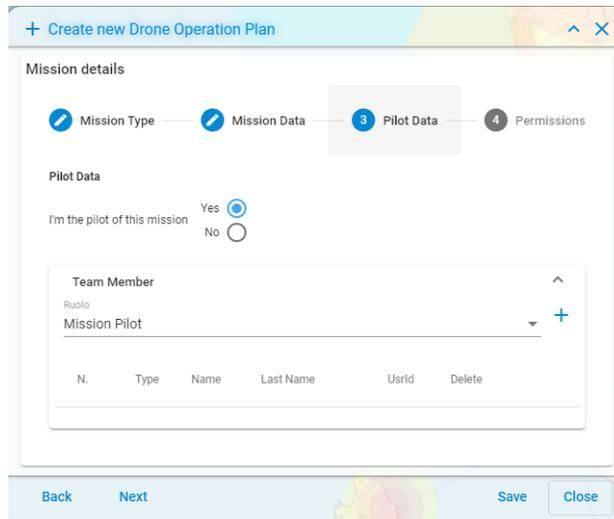
At this point you can:

- Reduce the maximum flight altitude by pressing on .
- Accept the restrictions and proceed with the request for authorizations by clicking on .

## 2.3 Pilot Data

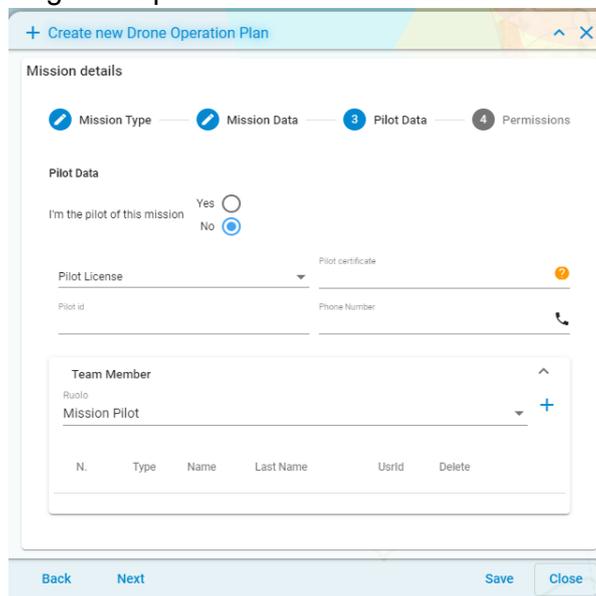
The next step is to enter the pilot's data in the mission plan.

In the event that the operator is the pilot of the mission, select "Yes" next to the words "I'm pilot of this mission" and press next.



The screenshot shows the 'Create new Drone Operation Plan' window. The 'Mission details' section has four steps: Mission Type, Mission Data, Pilot Data (highlighted), and Permissions. Under 'Pilot Data', the 'I'm the pilot of this mission' question has 'Yes' selected. Below this is a 'Team Member' section with a dropdown menu set to 'Mission Pilot' and a table with columns: N., Type, Name, Last Name, Usrid, and Delete.

In the event that the mission pilot does not correspond with the operator who is planning the mission, select "No" next to the wording "I'm a pilot of this mission" and enter the pilot data.



The screenshot shows the 'Create new Drone Operation Plan' window. The 'Mission details' section has four steps: Mission Type, Mission Data, Pilot Data (highlighted), and Permissions. Under 'Pilot Data', the 'I'm the pilot of this mission' question has 'No' selected. Below this are input fields for 'Pilot License', 'Pilot certificate', 'Pilot id', and 'Phone Number'. The 'Team Member' section is also visible, with a dropdown menu set to 'Mission Pilot' and a table with columns: N., Type, Name, Last Name, Usrid, and Delete.

The system allows the operator user to define the pilot of the UAS, by entering the information:

- Pilot License
- Pilot ID (identification of the registration on d-flight)
- Telephone number

After inserting the pilot data, it is possible to bring the list of people involved in the mission, characterized by the following information:

- Role
- Type
- First name
- Surname
- User id (d-flight ID)

Enter all the necessary information, click on **<Next>** to continue otherwise on **<Back>** to return to the previous panel or on **<Close>** to cancel and exit the service.

## 2.4 Authorizations

In this panel it is necessary to select if the UAS operation, based in the ATS assessment, require coordination with the IAM Coordination Center and enter in pdf format the necessary authorizations to carry out the mission (the data is mandatory depending on the mission identified).

In the case the UAS operation requires the coordination with the IAM Coordination Center, then the “Operation Letter” document shall be mandatory.

**+ Create new Drone Operation Plan**

**Mission details**

Mission Type — Mission Data — Pilot Data — **4** Permissions

**Permissions**

**Select Clearance**

Does the UAS operation based on the ATS assessment require coordination with the IAM Coordination Center?  No  Yes

**Mission Document**

Document type

Upload

| N. | Type | Name | Delete |
|----|------|------|--------|
|----|------|------|--------|

Back Next Save Close

You can view all types of documents expected by the system. Those with an asterisk \* are required for the type of mission planned. Click on “Upload” to upload a file.

## 2.5 Saving the mission

Once you click on **<Save>** the mission is saved on the system and a unique identifier is generated.

In this state, the mission is not visible to other users and is displayed on the map (only by the user who created it) in yellow.

The mission is editable through the panel 'Drone Operation Plans'.

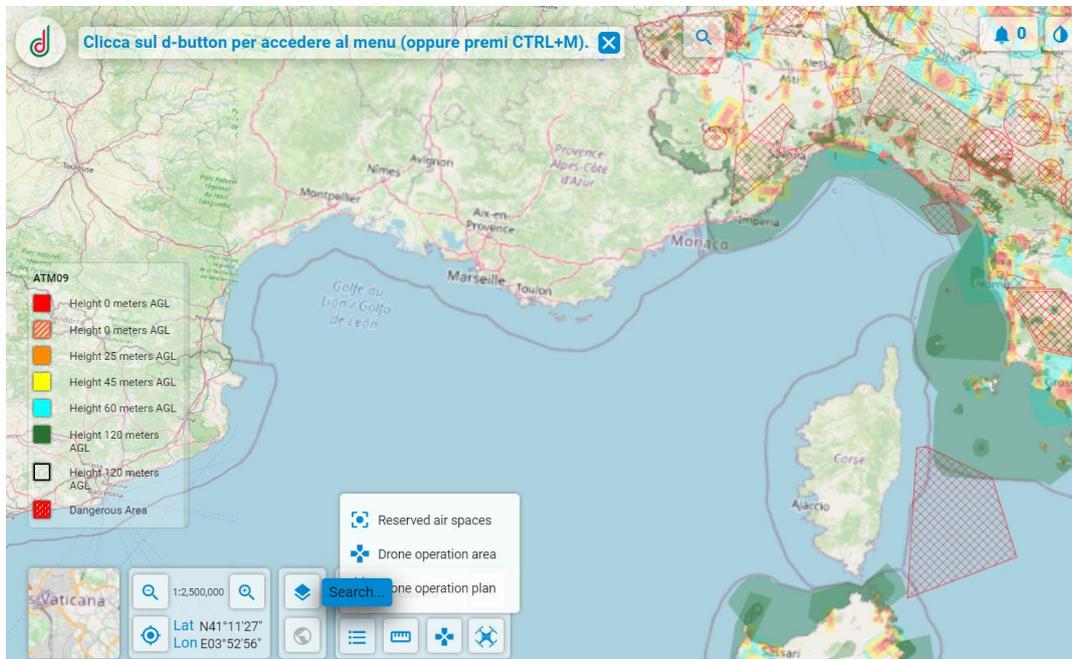
## 2.6 Submission and Starting of the mission

Subsequently, the saved mission must undergo the validation process by clicking on the **<Submit for approval>** button. The result of the validation process will be communicated by e-mail (approved by the system / rejected - with possible request for modification).

NW: For the BVLOS PDRA missions it is possible to enter, save and submit your mission only starting from 4 days before and up to a maximum of 24 hours before the date / time scheduled for the mission itself, and only after having obtained the necessary authorizations from ENAC. Any changes to the mission must respect the same constraints.

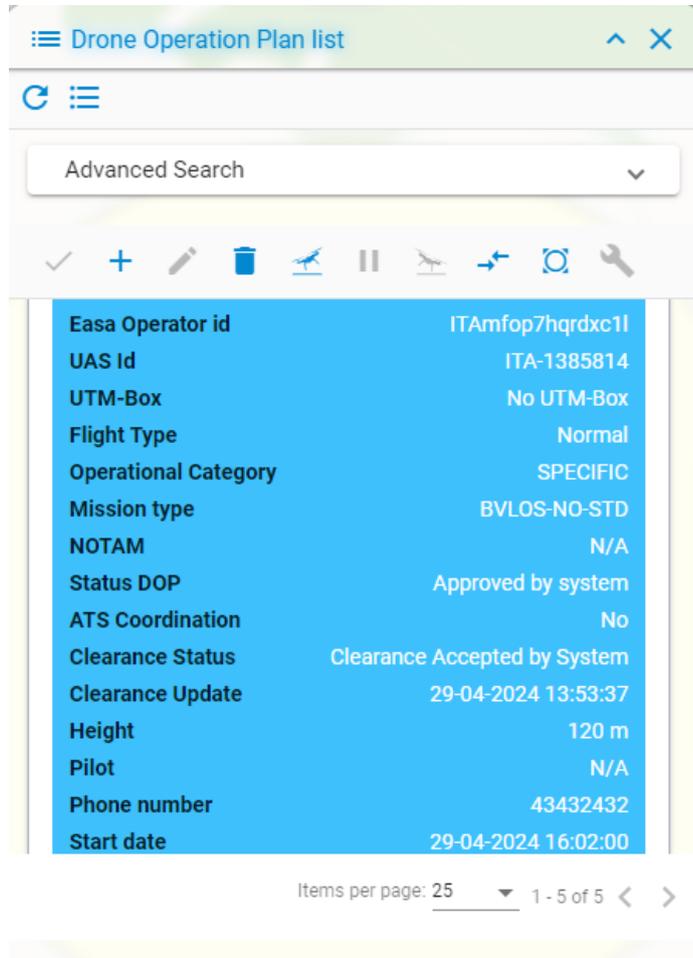
### - How to submit the mission?

1. To submit the mission, you must open the list of 'Drone Operation Plans' accessible from **the search button** of the Rules of the air:



2. Subsequently, by clicking on the mission of interest, it is necessary to click on the 'v' shaped button. Once clicked, the mission is no longer editable.





3. An email will be sent to the d-flight inscription address with confirmation of the validation or with the 'rejection' of the mission and an indication of the error / incompatibility parameters.

The following are the two scenarios:

- mission validated
- mission rejected

### Mission Validated

The validated mission is displayed on the map in blue color.

Once the mission has been approved, you can click on the following tabs:

1. start mission (to start the mission - if within the scheduled time interval)  
Once you have clicked on start mission, you can pause the mission with the **<Stop>** button, end the mission with the **<Complete>** button or resume the mission with the **<Resume>** button.



2. cancel mission (to cancel the mission)



3. modify UTM-Box Selection



It allows to modify the UTM-Box selection

### ↩ UTM-Box Selection

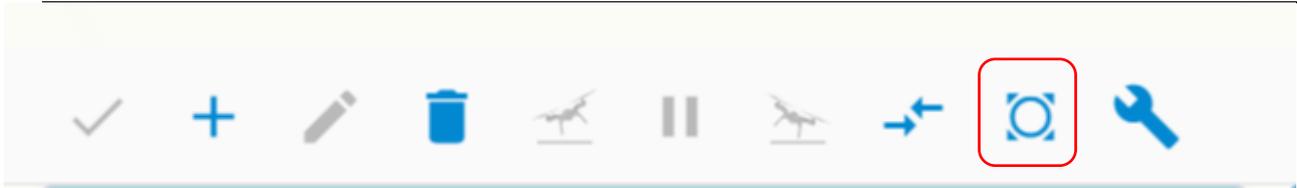
7657657

|                  |                     |
|------------------|---------------------|
| Owner            | ITE8Aj1BLW          |
| Easa Operator id | ITAhhd2jm2pbdinl    |
| UAS Id           | ITA_5944873         |
| Mission type     | BVLOS-NO-STD        |
| Status DOP       | Manually Approved   |
| Blocked          | No                  |
| Height           | 120 m               |
| Pilot            | N/A                 |
| Phone number     | 3154352             |
| Duration         | 240 min             |
| Start date       | 01-12-2023 12:06:00 |
| End date         | 01-12-2023 16:06:00 |

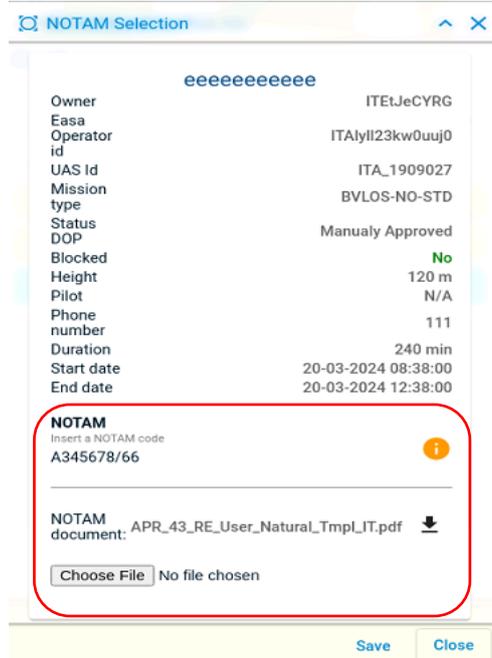
UTM-box  
No UTM-Box

Save Close

4. Modify NOTAM

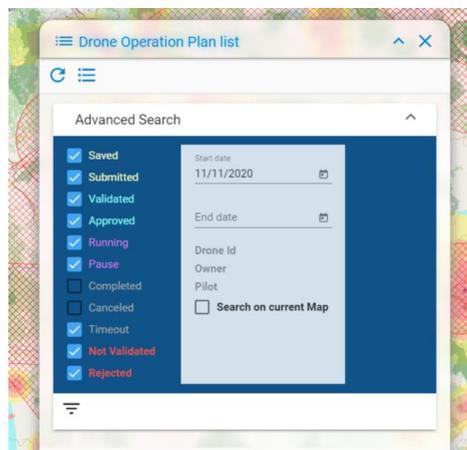


It allows to modify the NOTAM



Running missions are displayed in purple on the map by all users logged into the d-flight portal. For your own missions only, by pausing, the color changes from purple to grey. Your missions are displayed with a black border, unlike the others.

The missions in an expired, completed and cancelled state can only be viewed on the map in grey by the user who created them. To access missions in an expired, completed and cancelled state, you need to select the appropriate filters in the list of DOPs, within the advanced search menu:



The table below shows the list of error codes and the description of their meaning. In case of rejection of the mission, it will be necessary to return to the DOP list, select the mission of interest and modify what is indicated in the email received.

## Mission Rejected

If the mission is not validated, the user receives an email with a list of all errors / incompatibilities found during validation.

The table below shows the list of errors / incompatibilities that the user can receive with their description.

The user will have to access the mission and modify what is indicated in the email, and then submit the mission again.

NW. For the BVLOS PDRA missions the above time constraints are also valid for the modifications: it is possible to insert, save and submit your mission only starting from 4 days before and up to a maximum of 24 hours before the date / time scheduled for the mission itself, and only after having obtained the necessary authorizations from ENAC.

The rejected mission is displayed in red on the map and is visible only to the user who created it.

| Failure received by e-mail           | Code   | Description   | What to do?   |
|--------------------------------------|--------|---|---|
| DRONE_MTOW_CHECK,                    | 800002 | MTOW entered is outside the minimum and maximum limit   | You can change the drone selected for the mission, choosing a drone with a MTOM in line with the selected scenario.<br>You can verify your drone's MTOM from the page 'Fleet Management'. If the value you find is not correct, please open a ticket on Service Desk Portal ( <a href="https://www.d-flight.it/new_portal/contatti/">https://www.d-flight.it/new_portal/contatti/</a> ) to request the update.                              |
| DRONE_MAX_SPEED_CHECK,               | 800004 | The maximum horizontal speed of the drone inserted is higher than that foreseen by the scenario               | You can change the drone selected for the mission, choosing a drone with a max horizontal speed in line with the selected scenario.<br>You can verify your drone's max horizontal speed from the page 'Drones Models'. If the value you find is not correct, please open a ticket on Service Desk Portal ( <a href="https://www.d-flight.it/new_portal/contatti/">https://www.d-flight.it/new_portal/contatti/</a> ) to request the update. |
| DRONE_MAX_DIMENSION_CHECK,           | 800032 | The drone dimensions are larger than those foreseen for the selected scenario                                 | You can change the drone selected for the mission, choosing a drone with dimensions in line with the selected scenario.<br>You can verify your drone's dimensions from the page 'Drones Models'. If the value you find is not correct, please open a ticket on Service Desk Portal ( <a href="https://www.d-flight.it/new_portal/contatti/">https://www.d-flight.it/new_portal/contatti/</a> ) to request the update.                       |
| MISSION_MAX_HEIGHT_CHECK,            | 800019 | The height entered for the mission exceeds the one foreseen by the selected scenario                          | Please update the mission modifying the maximum height: enter a max value in line with ATM09 and with the selected scenario, or attach the necessary documents in case of deviations from ATM-09  |
| MISSION_RECOVERY_REQUIRED_CHECK,     | 800026 | The recovery equipment for the mission has not been entered   | Please update the mission including the requested data in the panel 'Mission Data'  |
| MISSION_GEOFENCING_REQUIRED_CHECK,   | 800028 | No geofencing entered for the mission   | Please update the mission including the requested data in the panel 'Mission Data'  |
| MISSION_REMOTE_PILOT_REQUIRED_CHECK, | 800030 | No remote pilot entered for the mission   | Please update the mission including the requested data in the panel 'Pilot Data'  |
| MISSION_MIN_BUFFER_CHECK,            | 800023 | The minimum buffer entered for the mission is invalid   | Please modify the mission updating the buffer as per the requested scenario instructions  |
| PILOT_LICENSE_TYPE_CHECK,            | 800037 | the pilot qualifications are not compatible with the type of pilot license required for the selected scenario | Please update the mission including the requested data in the panel 'Pilot Data'  |
| ACTIVE_DECLARATION_CHECK,            | 800039 | No declaration is active for the selected drone   | Please activate the declaration for the drone selected for the mission (par 1.7.8) or plan a new mission with a new drone in line with requirements   |
| BVLOS_MODULE_CHECK,                  | 800054 | BVLOS authorization missing for the selected mission  | Please update the mission including the requested document in the panel 'Authorization'   |
| DOCUMENTS_CHECK                      | 800051 | Authorization documents missing   | Please update the mission including the requested document in the panel 'Authorization'   |
| Intersected mission start/end time   |        | Your BVLOS Mission intersects another BVLOS mission already approved, within the same time/space area.        | Please modify the mission selecting a different time/date or geographical area  |

### 3 TRACKING

#### 3.1 Tracking\_V0

The "Tracking\_V0" service allows the user to share his/her position with d-flight.

The position will be shared on the map, in pseudo-anonymous form (the UAS license plate will be shown for the traces relating to the Drone Operation Plan, the user ID for the traces relating to the Drone Operation Area), with all other users logged in to the portal in relation to the area of interest, with a view to situation awareness.

In particular, Italy has been divided several areas of interest and users belonging to the same area of interest, viewing the map (always in the area of interest) with a zoom equal to or greater than 1: 25000 they will be able to view the tracks of other d-flight users.

The position will be accompanied by the following information:

- UAS license plate or user ID
- location

The tracks will be shown in green, red, orange or gray, depending on the "status" with respect to the planned mission:

- green trace: no anomaly
- red trace: the position is within a no-fly area (i.e. NFZ / ATM09)
- orange trace: the position is outside the planned area
- grey trace: data transmission error

Below an example of grey trace

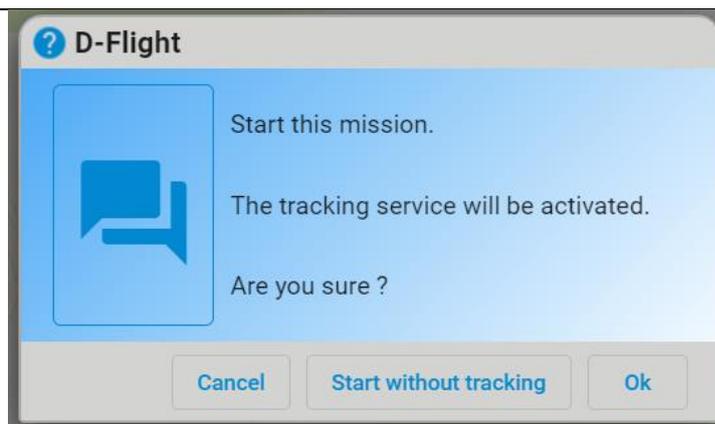


To activate the "Tracking - V0" service, or to send the position, it is necessary

1. accept the sending of the position by your device



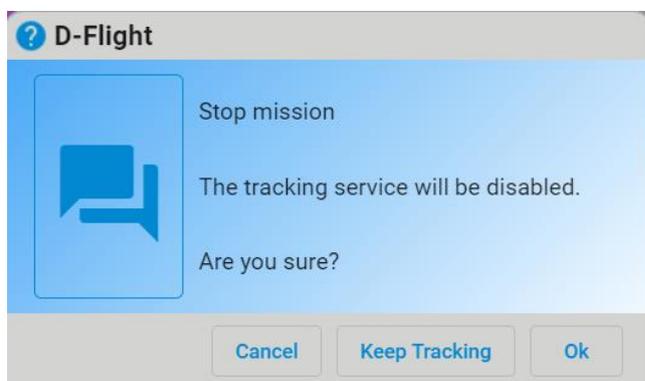
2. When your mission starts (by clicking on the icon  through the DOP or DOA service), agree to start the tracking service [Ref. next figure]



You can also activate the tracking service in another time while the mission is running by clicking on the icon  again.

You can start missions (from DOP or DOA) even without sharing your track, by clicking on **'Start without tracking'**.

To block the sharing of your track, you can at any time click on the complete mission icon  and deactivate the tracking service by clicking on **'Ok'**



It is also possible to end the mission and keep the tracking service active by clicking on **'Keep Tracking'**. In this case, the track will be shared until you log out from the platform or you can click again on the complete mission icon to disable



the service.

## 3.2 Tracking\_V1

The "Tracking - V1" service, allows the user to share the position of their UAS with d-flight. The position will be shared on the map, in pseudo-anonymous form (the license plate of the UAS will be

shown for the traces relating to the Drone Operation Plan, the user ID for the traces relating to the Drone Operation Area), with all other users logged in to the portal in relation to the area of interest, with a view to situation awareness.

In particular, Italy has been divided into several areas of interest and users belonging to the same area of interest, viewing the map (always in the area of interest) with a zoom equal to or greater than 1: 25000 they will be able to view the tracks of other d-flight users..

By selecting a UAS or a track, the position will be accompanied by information shown in a track information panel which appears divided into three tabs:

1. First tab "**Flight Data**" which shows the following **dynamic information**:

- drone license plate;
- drone coordinates (longitude and latitude);
- height (when available in the track). It can be: Car, AGL (height above ground), ATL (height above take-off position), MSL (height above sea level), WGS84 (height above ellipsoid), WGS84+CAR (height WGS84 with CAR correction), Barometric (barometric height);
- speed with respect to the ground;
- vertical speed;
- direction;
- EASA Operator ID.

if available, the following other data is also shown

- mission name;
- origin of the data (e.g. name of the Data Controller);
- Class of Aircraft;
- Track status (new, update, ...);
- Position Status (Normal, in Dynamic NFZ,...);
- Data channel (Bluetooth, WIFI, LTE, ...);
- Source Type (GCS-located, Unmanned Gateway, ...)

2. According to the "**Mission Data**" tab, if the data is unavailable, "Data not available" is displayed, otherwise the **static data of the mission(s)** is shown

- mission type (DOA or DOP);

If DOA:

- mission id;
- EASA operator;
- utmBoxId;
- utmBoxName;
- date/time of creation;
- start date/time;
- duration.

If DOP:

- mission id;
- mission type;
- flightConditionType;
- EASA operator;
- utmBoxId;
- start date/time;
- duration;
- Max height;
- Max speed.

Additional pilot and operator information (if available):

- first name;
- denomination;
- fixed and mobile telephone number;
- PEC email.

3. Third tab "**Drone**", if the data is unavailable "Data not available" is displayed, otherwise the ***static data of the UAS in flight*** is shown

- plate;
- model;
- serial number;
- usage;
- UAS status

The UAS track will be shown in addition to the pilot's position (fixed). The UAS track will be joined to the pilot one's, by a line that qualitatively shows the distance between the two and allows you to recognize the position of the pilot associated with the operation.

The UAS track is represented by a dashed line and is also highlighted with the following colors green, red, orange or gray, depending on the "status" of the planned mission:

- green track: no anomaly
- red track: the position is within a no-fly area (i.e. NFZ / ATM09)
- orange track: the position is outside the planned area
- gray track: data transmission error

The correlation between the UAS and the position can occur through three different keys: drone ID, device ID, Easa operator code. If the key is green, the correlation was successful. If the key is red, it means that it was used to attempt a correlation, but no results were obtained. The key that was not used for correlation is instead presented in grey.

To activate the "Tracking - V1" service, (i.e. to send the position of the UAS), it is necessary to

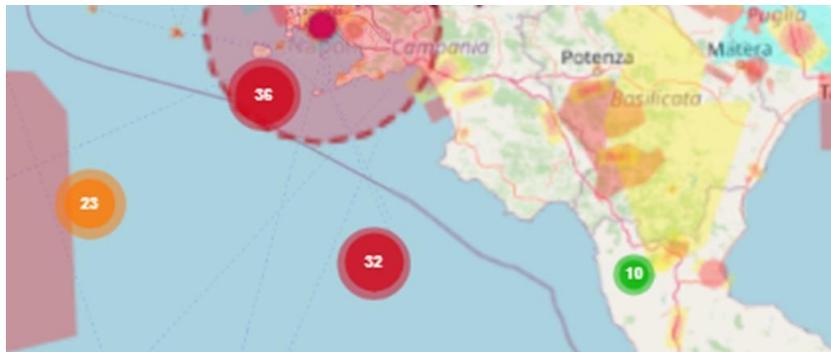
- equip your UAS with a device capable of sending all the necessary information to d-flight in the exact format (as described in the interface document available here [https://www.d-flight.it/new\\_portal/en/guide-manuali/](https://www.d-flight.it/new_portal/en/guide-manuali/) )
- or equip your GCS with an application capable of sending all the necessary information to d-flight in the exact format (as described in the interface document available here [https://www.d-flight.it/new\\_portal/en/guide-manuali/](https://www.d-flight.it/new_portal/en/guide-manuali/) )

and accept the sending of the position by your device, if you also want to share the position of the pilot (tracking V0) at the date and time scheduled for the mission, access the "Drone Operation Plan" or "Drone Operation Area" service from a laptop or Mobile or Mobile App and start the mission (by clicking on Start) by selecting the start option with tracking.

The Tracking service on the pilot position will then be interrupted upon completion of the mission, by selecting the option to deactivate the service or on log-out from the platform. The UAS position tracking service must be interrupted by the device (UAS or GCS) that sends the messages at the end of the mission.

### 3.3 Clustered track display

The Web-App allows you to maximize the intelligibility of the traces by dynamically grouping the graphic objects on the screen based on the current zoom level.

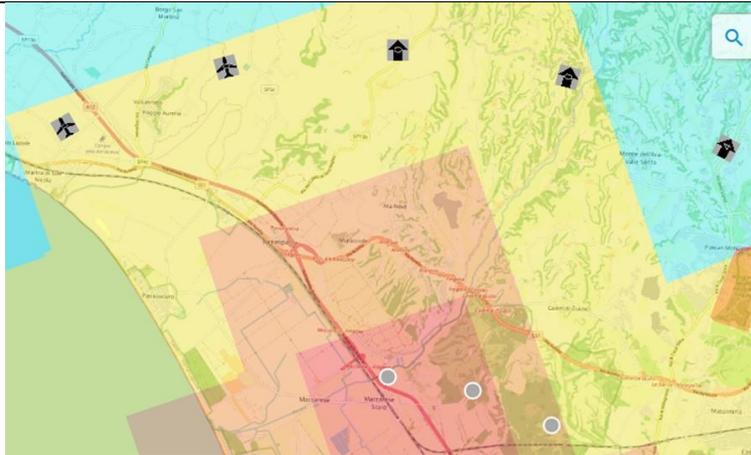


In fact, some tracks very close to each other are displayed as grouped in clusters, indicating the number of tracks within it, rather than being displayed individually.

The track cluster will be represented by a colored circle with the number of tracks in the center and will take on:

- **red** color if the number of tracks is greater than 30 tracks
- **orange** color if the number of tracks will be strictly between 20 and 30 tracks
- **yellow** color if the number of tracks will be strictly between 10 and 20 tracks
- **green** color if the number of tracks will be strictly between 0 and 10 tracks

Instead, appropriately spaced tracks on the screen are displayed as individual objects on the screen.



In particular, as the zoom level increases, the traces that were in clusters are progressively displayed as individual objects on the screen. Instead, as the zoom level decreases, tracks that were separated, if too close together compared to the current zoom level, are displayed in clusters.

## 4 MOBILE APP

d-flight Mobile APP allows to access the d-flight platform on mobile devices allowing, in particular, to have access to the following services:

| SERVICE  | BASE User | PRO User |
|--|-----------|----------|
| Map Navigation                                   | X         | X        |
| Registration                                     | X         | X        |
| User Authentication                              | X         | X        |
| Purchase of QR Code BASE                         | X         | X        |
| Purchase of QR Code PRO                          | -         | X        |
| Declaration                                      | -         | X        |
| VLOS Drone Operation Area                        | X         | X        |
| Drone Operation Plan – Planning                  | -         | -        |
| Drone Operation Plan – Mission Start/Termination | -         | X        |
| Tracking   | X         | X        |

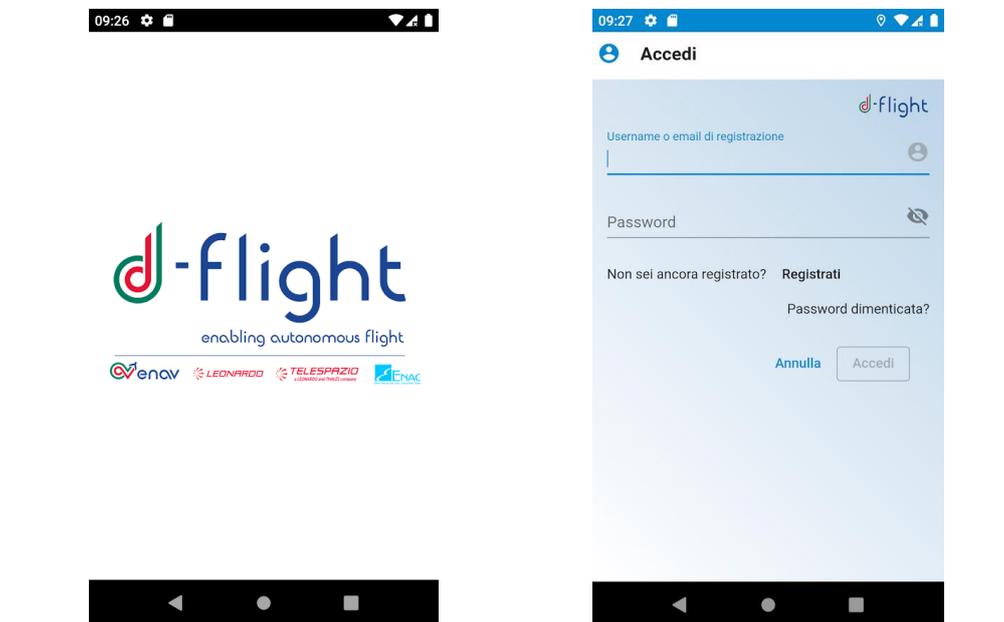
The functionalities indicated in the previous table are described in this document.

Some services are available only to “PRO Users” as indicated in the table.

d-flight Mobile APP is currently available for Android devices.

In order to install and access the “Mobile APP”:

- Connect to Google Play Store at <https://play.google.com> and search for “d-flight” (or directly access to this [link](#))
- Download and install on your device the application
- In the log-in screen, provide your d-flight website credentials or perform a new registration.



## 5 GNSS REAL TIME MONITORING

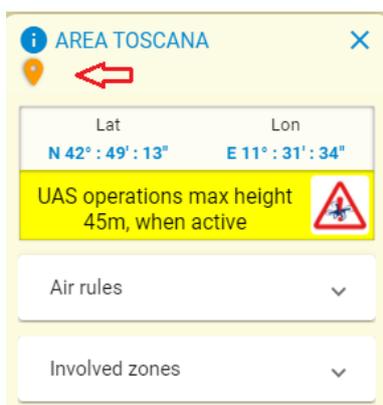
The GNSS Real Time Monitoring service is dedicated to PRO users only.

This service allows users to view on the map an indication of any malfunction status of the GNSS signal.

The service can be accessed

1. Accessing the map with a zoom level equal or higher than 1:100.000
2. By right-clicking on the map

If the GNSS signal is corrupted (e.g. due to problems on a GNSS satellite / interference due to significant ionosphere phenomena) an Alert (red traffic light) or a Warning (yellow traffic light) relating to the signal status in the selected map region.



**In both Alert and Warning conditions, flight with navigation based exclusively on GNSS is strongly discouraged**, as the signal performance is not as reliable as nominal performance.

The signal status is relative to reference conditions with respect to the ground. The service does not take into account the morphology of the terrain, or the actual condition of the UAS - in other words, the GNSS signal could work in a nominal way (ie on the map there are no alarms) but if the user is inside a gorge or in the shadow of an obstacle, however the GNSS communication could be impaired and the flight affected. It is therefore recommended to also pay attention to the information available on the GCS.

Finally, in the event of an alarm, by clicking on the detail expansion arrow it is possible to consult the following values on the GNSS signal:

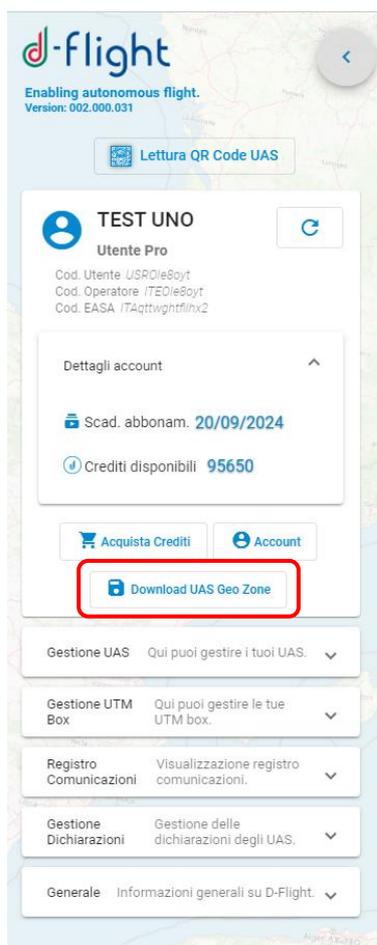
- Minimum HDOP: index of the quality of the satellite arrangement in the horizontal reference condition

- Minimum VDOP: index of the quality of the satellite arrangement in the vertical reference condition
- Minimum elevation: the minimum elevation in degrees between the satellites visible in the reference condition (useful for evaluating the width of the local horizon, or the degree of visibility of the UAS)
- Hor error: the estimate of the error in meters in the horizontal reference condition
- Error Up: the estimate of the error in meters in the vertical reference condition
- HPL: maximum horizontal error in meters estimated by EGNOS in the reference condition
- VPL: maximum vertical error in meters estimated by EGNOS in the reference condition

## 6 DOWNLOAD UAS GEOZONE

The service is designed to support UAS operators, flight planners and authorities in adopting and integrating the EUROCAE ED-269 standard format, ensuring greater interoperability and compliance with European regulations.

Through the <Download UAS GeoZone> button, accessible from the main menu, users can download a file containing all the UAS geographical areas published by d-flight in JSON format.



The representation of each area is EUROCAE ED-269 compliant. The file includes information regarding the airspace volume, its temporal validity, the applicable rules and contact references. The file includes both static (Aeronautical Information Publication (AIP) and airfields - helipads - seaplane landing areas) and dynamic (NOTAM and No Fly Zone) UAS Geographic Zones published by d-flight up to the time of the request.

The service is available exclusively to BASE and PRO UAS Operator users with an active subscription.



---

Users can require a set of additional APIs to achieve automated integration. These allow direct interoperability between systems, ensuring access to data in Machine-to-Machine (M2M) mode. For more information, please contact d-flight.