IWB

User Manual

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IWB - User Manual

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Abbreviations and Acronyms

Abbreviation	Term
A/C	Aircraft
ACARS	Aircraft Communications Addressing and Reporting System
ACK	Acknowledge/Acknowledgement
AD	Aerodrome
ADES	Airport of DEStination
ADEP	Airport of DEParture
ADIZ	Air Defence Identification Zone
ADF	Automatic Direction Finder
ADS	Automatic Dependent Surveillance
AFTN	Aeronautical Fixed Telecommunication Network
AGL	Above Ground Level
AIM	ATFCM Information Message
AIP	Aeronautical Information Publication
AIREP	Air Report
AIRMET	AIRman's METeorological information
AIS	Aeronautical Information Service
AIXM	Aeronautical Information Exchange Model
ALT1/2	Alternate aerodrome 1/2
AMC	Airspace Management Cell
AMC D	AMC Danger area
AMC R	AMC Restricted area
AMDT	Amendment
ANM	ATFM/ATFCM Notification Message
ANS	Air Navigation Service
AOC	Airline Operation Control
APP	Approach (or Approach Control Service)
ARCID	Aircraft Identification
ARR	Arrive/Arrival
ARO	Air Traffic Services Reporting Office
ASC	Ascending
ASHTAM	NOTAM for notification of volcanic ashes activity.
ASM	AirSpace Management

Abbreviation	Term
ATA	Actual Time of Arrival
ATC	Air Traffic Control
ATD	Actual Time of Departure
ATFCM	Air Traffic Flow & Capacity Management
ATFM	Air Traffic Flow Management
ATM	Air Traffic Management
ATN	Aeronautical Telecommunication Network
ATS	Air Traffic Services
ATYP	Aircraft Type
AUP	Airspace Usage Plan
CAPPI	Constant Altitude Plan Position Indicator
CAT	Common Airspace Tool
CC	Concentric Circles
CDR	Conditional Route
CIRC	Circular
CNL	Cancel/Cancelled
COMM/COM	Communication
CONV	Conventional
CPDLC	Controller-Pilot Data Link Communications
CTOT	Calculated Take-Off Time
CTR	Control zone
D	Danger area
DA	Danger Area
DAT	Data Link capability
DESC	Descending
DME	Distance Measuring Equipment
DOF	Date of Flight
DPN	Designated Point
DRF	Data Record File
DZ	Drone Zone
EET	Estimated Elapsed Time
ELT	Emergency Locator Transmitter
ENR	En-Route

Abbreviation	Term
EOBD (T)	Estimated Off-Block Date (Time)
ETA	Estimated Time of Arrival
FANS	Future Air Navigation System
FBZ	FPL Buffer Zone
FIR	Flight Information Region
FIS	(1) Flight Information Service (2) Flight Information Sector
FL	Flight Level
FMC	Flight Management Computer
FPL	Flight Plan
FR	Flight Rules
FUA	Flexible Use of Airspace
GAMET	Area forecast for low-level flights
GBAS	Ground-Based Augmentation System
GDPR	General Data Protection Regulation
GEN	General
GND	Ground
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
GUI	Graphical User Interface
HF	High Frequency
HFDL	High Frequency Data Link
HP	Heliport
IAS	Indicated Air Speed
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
ID	Identification, Identifier
IFR	Instrument Flight Rules
ILS	Instrument Landing System
INMARSAT	Network of geostationary telecommunications satellites (service provided by Inmarsat plc)
LOC	LOCal time
LORAN	LOng Range Air Navigation aid

Abbreviation	Term
LPV	Localizer Performance with Vertical guidance
METAR	(1) Aviation routine weather report; (2) Meteorological aerodrome report
METEO (MET)	Meteorological
MLS	Microwave Landing System
MNPS	Minimum Navigation Performance Specification
MTOW	Maximum Take-Off Weight
MTSAT	Multifunctional Transport Satellites
NAV	Navigation
NDB	Non-Directional radio Beacon
NM	Nautical Mile
NMOC	Network Manager Operations Centre (previously called CFMU)
NOTAM	Notice To Airmen
ODRS	Operational Data Recording System
OGC	Open Geospatial Consortium
P	Prohibited area
PANSA	Polish Air Navigation Services Agency
PBN	Performance Based Navigation
PDC	Pre-Departure Clearance
PIB	Pre-flight Information Bulletin
QNH	Atmospheric pressure adjusted to sea level
R	Restricted area
REG	Registration/ Regional
RNAV	Area Navigation
RTF	RadioTelephone
RVSM	Reduced Vertical Separation Minimum
SAM	Slot Allocation Message
SATCOM	Satellite Communications
SDO	Static Data Operation
SIGMET	Significant Meteorological Information
SNOWTAM	Snow NOTAM
SR	Sun Rise
SRM	Slot Revision Message
SS	Sun Set

Abbreviation	Term
SUP	Supplement
SYNOP	Surface Synoptic Observations
TACAN	UHF TACtical Air Navigation aid
TAF	Aerodrome Forecast (in meteorological code)
TAS	True Air Speed
TMA	Terminal Control Area
TOPS	Echo Tops
TRA	Temporary Reserved Airspace
TSA	Temporary Segregated Area
UAT	Universal Access Transceiver
UHF	Ultra High Frequency
UNL	Unlimited height
UTC	Coordinated Universal Time
UUP	Updated AUP
VA	Volcanic Ash
VDL	VHF Data Link
VFR	Visual Flight Rules
VHF	Very High Frequency
VOR	VHF Omnidirectional Radio range
WFS	Web Feature Service
WPR	Way Point Reporting
WYCIWYG	What You Cache Is What You Get
X-TAM	NOTAMs, SNOWTAMs, ASHTAMs, BIRDTAMs

Glossary

Term/Phrase	Definition
ACARS	ACARS is a digital datalink system for transmission of short, relatively simple messages between aircraft and ground stations via radio or satellite.
Attribute	A definite property of an entity; an attribute is identified by its name (title), type of data and, in some cases also by rules or limitations (such as a range of values)
Dataset	A file holding information on WHAT, WHERE and HOW to generate a map. Map data can be contained in one or more datasets. Generally, dataset contains a reference to geo-data, i.e. vector and raster files.
Drone	Remotely Piloted Aircraft Systems (commonly known as drones)
Drone zone (DZ)	An area of user-defined airspace within which flights of unmanned aircraft systems are permitted
FANS 1/A	FANS 1/A provides controller-pilot data link communications (CPDLC) and includes air traffic control clearances, pilot requests and position reporting. FANS 1/A typically operates over satellite communications (SATCOM) and is mostly used in Oceanic airspace. FANS 1/A over HFDL provides air traffic control (ATC) communication coverage in the polar region.
IXOweb	Web-based SW application that displays up-to-date AIS data over basemaps. It is designed for comprehensive flight preparation and planning, and provides information for pilots and other users.
NM B2B	An interface provided by the EUROCONTROL Network Manager (NM) for system-to-system access to its services and data primarily over the Internet.
No Drone zone (No DZ)	An area of user-defined airspace within which flights of unmanned aircraft systems are prohibited
Map	Graphic representation of physical features (natural, artificial or both) of a part or the whole of the earth's surface by compilation of map layers consisting of signs, symbols or photographic imagery, at an established scale, on a specified projection and the means of orientation indicated.
Map Data	A set of spatial data which can include vector, raster, and topographic data serving for a generation of map layers.
Map Layer	In GIS, a dataset containing geographic objects with accompanying attributes that can be displayed or modified separately from other datasets. Layers can include raster and vector maps, text, map enhancements (scale and north arrow, grids, and frames), and commands.
Map Object	Graphical symbol or mark representing mission-specific information displayed on a map or user-defined object in a map layer. Map object is specified at least by its position (geographic coordinates).
User-defined object	A drawn object specified and created by the user by use of drawing tools, and displayed on a map (hereinafter to as "drawn object"). Following drawn objects can be created: point, line/poly-line, circle, polygon and rectangle.

Term/Phrase	Definition
User-defined point	A point defined by the user; it is specified by its name and position (in geographic coordinates).

Table of Contents

Introduction 10
1. General 10
2. Document Structure 10
1. Operation Guide 11
1.1. IXOweb Capabilities 11
1.2. Start 11
1.3. Logout 15
1.4. Shutdown 15
2. Home Screen/Main Window 16
2.1. Graphical Control Elements 22
2.2. Cursor Types 24
2.3. Function Activation 24
3. Main Menu 25
3.1. Aircraft List 30
3.2. New/View/Edit Aircraft 31
3.2.1. General Information on Aircraft ("Main" Tab) 32
3.2.2. Equipment 34
3.2.3. Performance 39
3.3. Flight List 41
3.4. Flight Log Overview 44
3.5. User Points 46
3.6. Sunrise & Sunset 50
3.7. Flight Log 51
3.7.1. Flight Tab 56
3.7.2. Route Tab 61
3.7.3. Vertical Flight Profile 67
3.8. Current FPL List/Flight Plans Window 68
3.9. MAP - Map Search 78
3.10. MAP - Drawing 80
3.11. MAP - Measurement 81
3.12. FUA 82
3.13. METEO - METEO Viewer 86
3.14. METEO - Image Viewer 89
3.15. METEO PIB 90
3.16. NOTAM - PIB 91
3.17. NOTAM - NOTAM Viewer 97
3.18. ATFM - AIM MSG Viewer 100
3.19. ATFM - ANM MSG Viewer 102
3.20. AIP List 104
4. Settings Menu 106
4.1. Layers 107
4.2. Data Update 109
4.3. User Settings 110
4.4. FL Filter 115
5. Flying Range Window 117
6. FPL Form Window 118
7. Feature Info Window 138
8. Data Displayed on Map 142
8.1. Static Data 142
8.2. Dynamic Data 145

Introduction

Thanks for your confidence in our products. This document serves as a functional and operational guide. Before started working, please read the manual carefully to become familiar with all functions included in your IXOweb version.

1. General

This document describes IXOweb SW application designed for a display of various AIS data over map layers, particularly SDO data, NOTAMs, FUA (AUP/UUP), METEO data and other AIS-related information so that to provide its users with functionalities needed for flight planning including a generation of pre-flight documents by use of web-based technologies. IXOweb functionalities enable a pilot briefing via internet.

Important

A layout and a set of menu items (functions) included in your IXOweb version are specified by the actual IXOweb configuration and hence, they may not correspond with a description contained herein.

Note

The pictures included in this guide are for illustration only. GUI elements shown on the pictures need not correspond to what you see on your screen as they conform to the IXOweb configuration.

Note

Special characters cannot be entered in the fields of the application. Certain special characters (e.g. /) can be entered in specific cases where the data without the special character(s) would be deemed invalid.

2. Document Structure

This document consists of the following chapters:

- Introduction

1. Operational Guide
2. Main/Start Screen
3. Main Menu
4. Settings Menu
5. Flying Range Window
6. FPL Form Window
7. Feature Info Window
8. Data Displayed on Map

Chapter 1. Operation Guide

1.1. IXOweb Capabilities

IXOweb application supports the following functions:

- Selection of GUI language
- Data filtering
- Setup of AIS data update rate
- Setup and configuration of spatial data
- Display of SDO data
- Display of dynamic data (such as NOTAM, SNOWTAM, MET, FPL, etc.)
- A/C DB display incl. A/C data handling
- FPL DB display incl. FPL data handling
- FPL submission
- Report generation for an output in PDF file format
- Flight Route file export to a GPS device
- Presentation of A/C flying range
- Operations with User-defined Points DB
- Search and retrieval, in a database, of important places/sites and SDO objects
- Drawing of user-defined objects on a map
- Measurement of distances between objects/points on a map
- Indication/setting of status information
- Infotips

1.2. Start

Important

Except of a web browser, no other special SW is required for its operation.

IXOweb can run on:

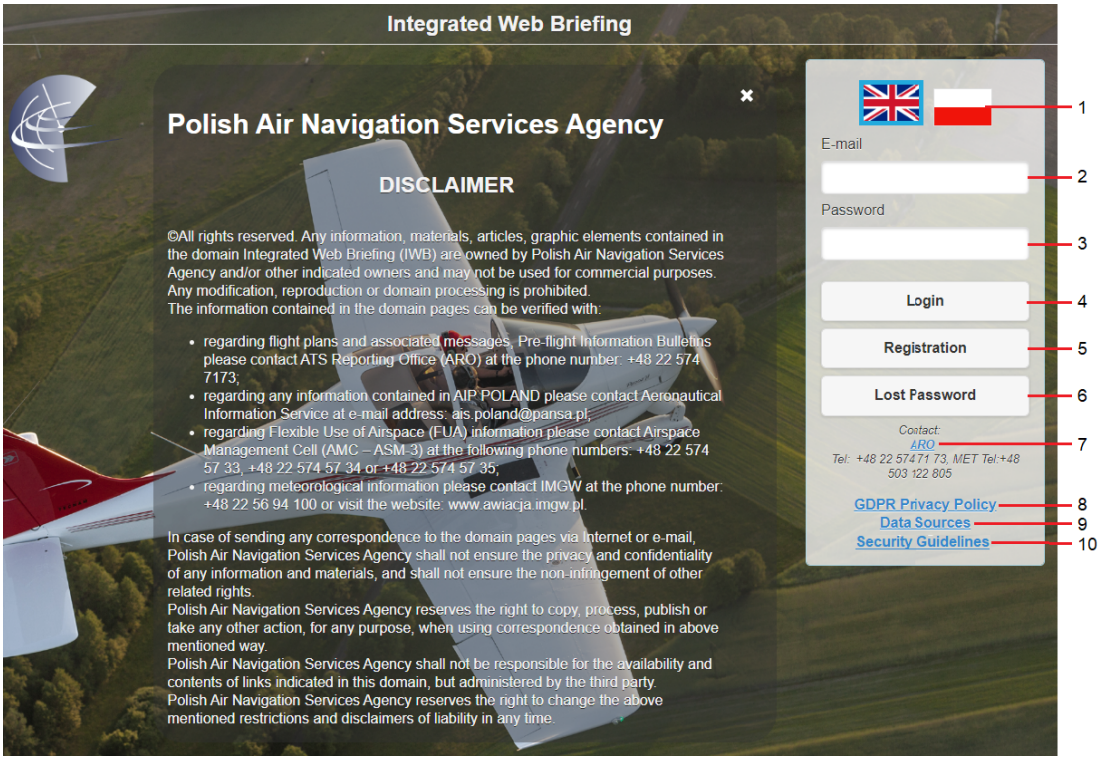
- Mozilla Firefox
- Google Chrome

Other commonly used browsers have not been tested for a compatibility with either application of IXOweb application therefore the producer cannot guarantee the IXOweb correct operation when using web browsers other than the above mentioned ones.

IXOweb shall be started by a standard procedure for execution of web applications in web browser. Enter the web address into navigation panel of web browser and press Enter. Thereafter, Login window appears.

Note

IXOweb User Groups are generated by the system administrator. He is entitled to control the user access to particular IXOweb functions, and to grant different access levels to different users. Therefore, certain User Groups can log in without necessity to complete the below Login window.



Legend:

1. **Flag** - click on the national flag to change the language of IXOweb User Interface

2. **E-mail** (Login) – click inside the text box to enter an e-mail address to which messages confirming your registration are required to be sent; concurrently, the e-mail address serves as a login of a registered user (i.e. a user registered into IXOweb system by use of Registration button, see Item 5 below)

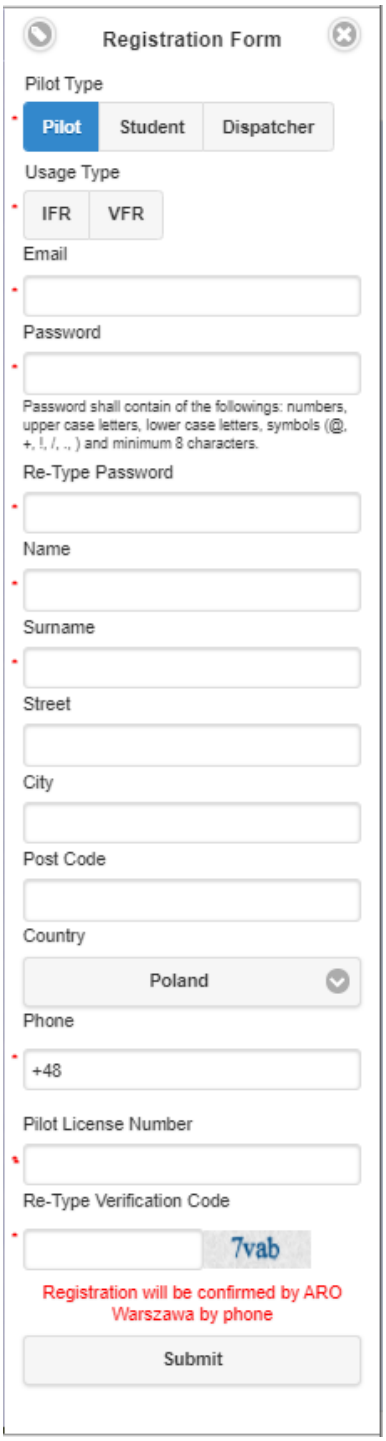
3. **Password** - click inside the text box to enter a login of a registered user (the user registered into IXOweb system by use of Registration button, see Item 5 below); to request a recovery of a forgotten password use Lost Password button (Item 6 below)

Note

Your password can be modified by commands contained in User Settings menu (see Section 4.3, “User Settings”).

4. **Login** - press Login to confirm your login details and to load IXOweb application, the loading process is completed by an appearance of IXOweb Start Screen (Main Screen) (see Chapter 2, *Home Screen/Main Window*).

5. **Registration** - a button that opens IXOweb registration form to be filled in (see picture below). The user can register as Pilot, Student or Dispatcher. Fill in the form, and keep in mind that the details marked with red asterisk are mandatory. Your access level (permitting/rejecting certain IXOweb functions) will be provided as per the User Type selection (Pilot/Student/Dispatcher, IFR/VFR). To complete the registration press Submit. Henceforth, if the form is complete, a request for the registration approval is sent to the system administrator, otherwise you are notified of any incomplete or wrong data in the form. You will be notified by e-mail whether your registration was approved or rejected, and in case of successful registration, you will receive your personal login details. ARO Warszawa informs the users about their successful registration by `phone as well.

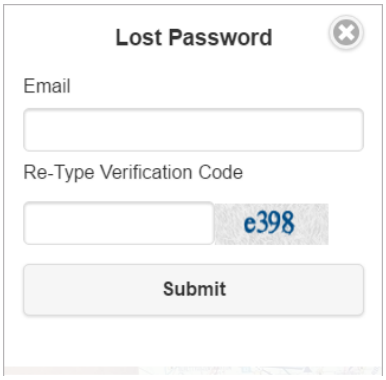


Note

Your account details can be modified directly in User Settings menu in User Profile section (see Section 4.3, “User Settings”).

6. **Lost Password** - press Lost Password button to open Lost Password window (see below picture) providing controls for a recovery of a user's forgotten password. Into E-mail text box, type an e-mail address to which a message containing the recovered password is required to be sent.

   Do not forget to type a verification code into Re-type Verification Code field. Then press Submit to send the request for a password recovery.



7. **Contact:** – the pane showing contact details of ANS Provider; click on the "ANS Provider" hyperlink if you wish to send him a message; upon clicking, a window appears with a filled in address of the recipient

Note

To activate the ANS Provider's hyperlink, the appropriate Email Client shall be set in operating system by use of "Settings/Applications/Pre-set applications/E-mail" option.

8. **GDPR Privacy Policy** – click on "GDPR Privacy Policy" hyperlink to see the provisions relating to the protection of personal data in accordance with applicable GDPR version.

9. **Data Sources** – click on the hyperlink to see information on data sources used in the IXOweb application. Return to login screen by clicking in the upper left corner of the screen.

10. **Security Guidelines** – click on the hyperlink to see security regulations for using the IXOweb application. Return to login screen by clicking in the upper left corner of the screen.

1.3. Logout

- Upon clicking the Logout icon, a dialog window appears requesting to confirm your intention to log out from IXOweb application, and notifying the user that all unsaved changes will be lost. Choose Yes to log the current user out without saving any changes, and the Login screen appears (see Section 1.2, “Start”). Choose No to return to the application, save changes, and click the Logout icon to log out. The Logout icon can be found in Settings menu (see Chapter 4, *Settings Menu*).

1.4. Shutdown

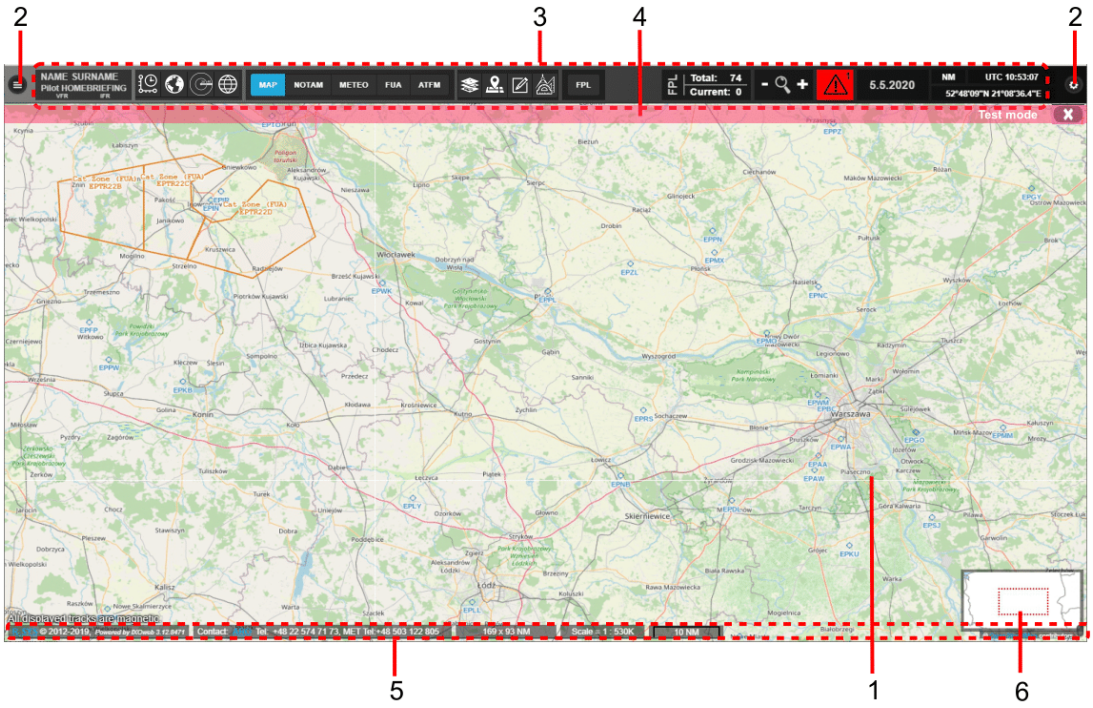
To terminate IXOweb application correctly, close the web browser in which it runs, or enter another web address into web browser.

Chapter 2. Home Screen/Main Window

After entering correct login data and pressing Login the IXOweb Home/Start Screen (hereinafter also to as Main Window) appears on your display screen.

Note

An appearance of windows, i.e. a layout of GUI elements contained in Main Window is automatically adapted to a size of your display screen.



Legend:

1. Map Window
2. Menu Buttons
3. Control Bar
4. Notification Bar
5. Information Bar
6. Map Overview window

MAP WINDOW

Map Window displays a pre-set map, static data (SDO) and up-to-date dynamic data (such as NOTAM, SNOWTAM, SIGMET, etc.) i/a/w data update rate specified in Section 4.2, “Data Update” and FL Filter for displayed data (see Section 4.4, “FL Filter”). In addition to this, the user can specify his own objects to be displayed on a map, measure distances between points/objects, etc. All data presented in a map window are organized in overlapping layers (see Section 4.1, “Layers”).

Action	How to do it
Zoom IN/OUT	Upon placing the mouse cursor inside your map view …. 1. ...use the mouse wheel, or ✚ / ▬ buttons contained in Control Bar, or "+" / "-" keys to zoom in/out your instant map view, or 2. ...use "Shift" key and left mouse button to set bounds of a rectangular area you wish to zoom in/out
Re-centre	1. Press and hold down the left mouse button, then by moving the pointer over a map the map moves to keep the view at the centre of the display screen (optionally, you can use arrow keys) 2. Click into Map Overview, or move the red rectangle across the Overview window into a desired map centre

MENU BUTTONS

Control Element	Description
	MAIN MENU icon – click to open a choice of options provided by main application menu (see Chapter 3, *Main Menu*).
	SETTINGS MENU icon – click to open a choice of IXOweb settings options (see Chapter 4, *Settings Menu*).

CONTROL BAR (CB)

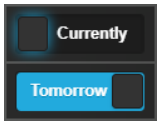
Show/Hide Control Bar

To hide Control Bar tap and drag it quickly to the left or right top edge of the screen, thus reducing it to a button. Tap the button to restore the bar to its former state.

CB Menu Items

Control Element	Description
	Login Info – providing all available information on currently logged in user (Section 1.2, “Start”): • First and last name; Company • User Type / User Group • User classification: IFR / VFR **Note** A display of Login indicator can be enabled/disabled in Desktop section of Settings window (see Section 4.3, “User Settings”).

Control Element	Description
	PLOTTING icon - toggle button to enable a view of timestamps along FPL routes (plotting). Plotting can be set in Flight Log window (see Section 3.7, “Flight Log”).
	WORLDWIDE SEARCH icon - toggle button to search objects either in a database or in a radius of a configurable value (by default set to 500 km) from the centre of the map currently displayed in Map Window. The function can be used for a retrieval of significant locations, SDOs (see Section 3.9, “MAP - Map Search”) or objects needed for a creation/modification of intended flight route (see Section 3.7.2, “Route Tab”).
	RANGE CIRCLES icon - toggle button to enable a view of supporting concentric circles (CC) representing flying range of selected aircraft. Upon pressing a Range Circles Window appears to set parameters of CC net (see Chapter 5, *Flying Range Window*).
	GRATICULE icon - toggle button to enable a view of graticule in a map window.
	MAP button – choose the button to show, in a map window only pre-set layers (see Section 4.1, “Layers” – Layers window). Airport marks referring to NOTAM or METEO messages will be removed from the display. Besides this, a Tool Bar appears in Control Bar enabling a fast execution of key functions when MAP mode of operation is activated in a map window (see below in this table).
	NOTAM button - choose the button to show, in a map window marks/IDs of airports for which NOTAM and/or SNOWTAM messages are issued. Only symbols of the messages will be shown (see Section 8.2, “Dynamic Data”). Besides this, a Tool Bar appears in Control Bar enabling a fast execution of key functions when NOTAM mode of operation is activated in a map window (see below in this table).
	FUA button - choose the button to enable/disable FUA mode of operation in the map window. After selecting the FUA button, a Current/Tomorrow toggle button (see description in the table below) and buttons for additional FUA-related functionalities (see description in the table below) appear in the control bar, and respective Active Airspaces sub-layers are selected in the Map Settings window and displayed in the map (depending on the Current/ Tomorrow toggle bar setting, see description below). Switching to another application mode (e.g. MAP) automatically disables FUA airspaces.
	METEO button - choose the button to show, in a map window marks of airports for which METAR, TAF, SIGMET, GAMET, AIRMET weather-messages are issued. Only symbols of the messages will be shown (see Section 8.2, “Dynamic Data”). Control Bar will be supplemented by a Tool Bar for a fast execution of key functions when in METEO mode of operation (see below in this table).
	ATFM button - upon pressing, an indication of AIM/ANM(REG) message type will be enabled in Map Window for those aerodrome(s)/airspace(s) for which the message has been issued. For AIM/ANM(REG) message indication refer to Section 8.2, “Dynamic Data” .
	Valid/Effective toggle button - a toggle enabling to select between NOTAM messages as follows:.

Control Element	Description
	Valid Setting the toggle button to Valid displays NOTAM messages effective currently and in the future. Colour coding of these two types of NOTAM messages can be adjusted in the configuration file. **Effective** Setting the toggle button to Effective displays NOTAM messages effective currently. Symbols used for NOTAM messages are described in Section 8.2, “Dynamic Data”. **Note** This functionality is available in the NOTAM mode (see description in this table above).
	**Currently/Tomorrow toggle button**a - a toggle enabling to select between a view of FUA information currently in effect or planned for tomorrow. Setting the toggle button to „Currently“ displays Planned AUP (PANSA CAT) and Active FUA (PANSA CAT) in the map, and selects the respective layers in the Map Settings window (see Section 4.1, “Layers”). Setting the toggle button to „Tomorrow“ displays Airspaces FUA (PANSA CAT) in the map, selects the respective layer in the Map Settings window, and deselects the two above mentioned layers. If the toggle button is set to „Tomorrow“, a red warning triangle appears in the control bar of the application (see description in this table below). Changing the mode from FUA to any other mode of the application automatically deselects and hides all Active Airspaces layers from the map. **Note** The control is enabled only for FUA mode of operation (see above)
	MAP/NOTAM/METEO/FUA/ATFM Tool Bar - optional tool bars corresponding to a mode of operation just active in a map window (i.e. MAP, NOTAM, FUA, ATFM or METEO mode) will appear in Control Bar. Tools enable a fast access to IXOweb key functions when in selected mode of operation. For key functions refer to Chapter 3, *Main Menu* and Chapter 4, *Settings Menu*. **Note** A view of a Tool Bar in Control Bar can be enabled/disabled in Settings window (see Desktop pane of Section 4.3, “User Settings”).
	FPL – press the button to open a blank FPL form (see Chapter 6, *FPL Form Window*).

Control Element	Description
▶ / ⏸	Buttons ▶ (Play) / ⏸ (Pause) run or pause the METEO animation from the currently selected layer (see Section 4.1, “Layers”). The date and UTC time for the respective animation are displayed in the bottom left corner of the map window. **Note** The functionality is available only for selected METEO observation data (see Section 4.1, “Layers”) in METEO mode of operation (see above).
	FPL indicator providing following information: **Total** The aggregate of all FPLs listed in both Current and Archive tabs of Flight Plans window **Current** The aggregate of all FPLs listed in Current tab of Flight Plans window Click on the indicator to open Flight Plans window listing both Current FPLs and stored FPLs (Archive) of a logged-in user (see Section 3.8, “Current FPL List/Flight Plans Window”). **Note** A view of FPL indicator in Control Bar can be enabled/disabled in Settings window (see Desktop pane of Section 4.3, “User Settings”).
	ZOOM IN/OUT - buttons to zoom-in/increase a size, or zoom-out/decrease a size of your map view. **Note** The zoom buttons +/- in the Control Bar can be enabled/disabled in the Settings window (see Desktop pane of Section 4.3, “User Settings”).
	DATA VALIDITY indicatorIndicator notifying the user that new system messages from ARO are available and/or IXOweb data validity has not been verified, when they become valid in the future or they are filtered by flight level (see Section 4.4, “FL Filter”). The figure in upper right corner indicates the number of notifications issued by now. When hovering cursor over the indicator, a tooltip appears showing a content of the alert message. To view system messages, open the respective window from the main menu of the application (see Chapter 3, *Main Menu*).
	DATE indicator – presenting the current date.

Control Element	Description
km	UNIT indicator & toggle button to select units of measurement (km/NM). **Note** Nautical miles (NM) are set as a default distance unit after the first login into the IXOweb application. When changing the unit, the application stores the selected unit, and displays it correctly after restarting the application.
UTC 10:13:08 LOC 11:13:29	TIME indicator & toggle button to select the system time (LOC/local or UTC time)
46°35'56.8"N 23°26'22.3"E	POSITION indicator – indication of geographic coordinates value in an instant cursor position over the map view.

NOTIFICATION BAR

The bar presents notification messages about operation/status of your application/server. To close the bar use button.

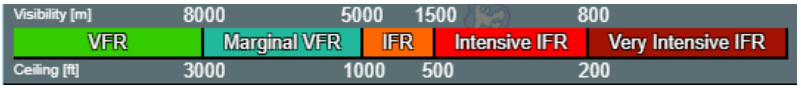
INFORMATION BAR

The bar provides following information (in left-to-right direction): the current product version, copyright, and a hyperlink to the local ANS Provider. Besides this, it provides details on a map view size and a map scale in use (in units set by UNIT button - see the above table). Size/scale values indicated in the bar can be set/modified in Settings window (see Desktop pane of Section 4.3, “User Settings”). When in METEO mode of operation (see the above table) the Information Bar may be supplemented by a legend to the colour-indicated airport MET messages (see picture below). To enable/disable a view of the legend in Control Bar use controls contained in User Settings window (see Desktop pane of Section 4.3, “User Settings”). For the colour-indicated airport MET messages refer to Section 8.2, “Dynamic Data”.

Note

To activate the local ANS Provider's hyperlink, the appropriate Email Client shall be set in operating system by use of "Settings/Applications/Pre-set applications/E-mail" option.

When hovering the mouse cursor over the legend, detailed description of weather minima appears (see the picture below).



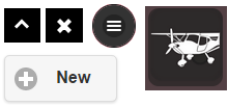
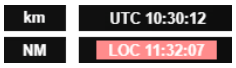
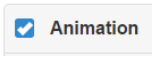
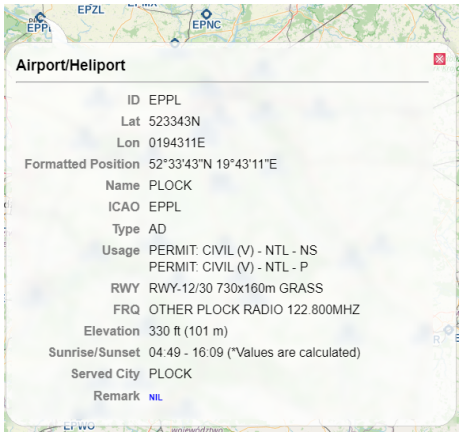
MAP OVERVIEW

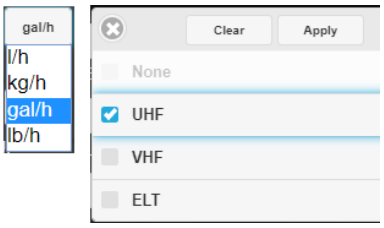
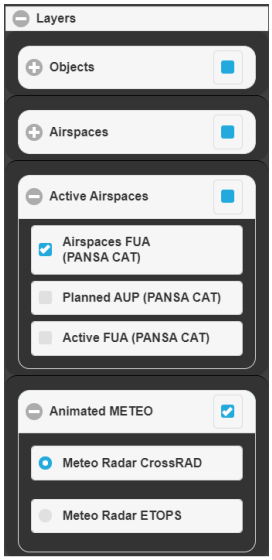
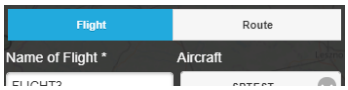
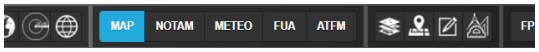
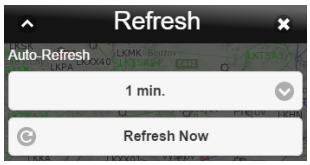
It provides a generalized, smaller-scale map that shows the limits of another map's extent (currently displayed in a map window) along with its surrounding area. Your current view as seen in a map

window is indicated in Overview window by a red rectangle. By dragging the rectangle over the map a view of Map Window dynamically changes. Map overview parameters can be modified in Settings window (see Section 4.3, “User Settings” – Desktop pane).

2.1. Graphical Control Elements

It is assumed that you are familiar with following GUI elements commonly used throughout IXOweb application. In any case, it is not a purpose of this document to instruct you how to work with them, they are listed for your information only.

Control	Example(s) of Graphical Representation
Button / Icon	
Toggle Button	
Check Box	
Text Box	
Info Box	
Tooltip	
Slider	
Scrollbar	

Control	Example(s) of Graphical Representation
Drop-down menu	
Tree view	
Tab	
Tool Bar	
Infobar	
Control Bar	
Window	

2.2. Cursor Types

Cursor Icon	Description
	- Arrow / Hand (system default cursors)
	- Move (moving/dragging map objects)
	- Text cursor (text entry/editing)
	- Square + Arrow (distance measurement)
	- Ring + Arrow (object drawing/plotting)

2.3. Function Activation

To activate a selected IXOweb function use left mouse button, scroll wheel or a combination of "Shift" key + left mouse button.

Chapter 3. Main Menu

	- Main Menu icon - the icon located in an upper left corner of Main Window (see Chapter 2, *Home Screen/Main Window*) represents the application's Main Menu accessible upon clicking it. As a response, a menu of options appears (as seen on the picture below).

Main Menu provides an access to IXOweb key functions (menu items).

Note

Main Menu layout, and a set of items to be included in Main Menu and/or their optional inclusion in Control Bar (see Chapter 2, *Home Screen/Main Window*) are specified by the actual IXOweb configuration.

Main Menu can comprise any combination of the following items:

Icon	Description
	- Aircraft List window providing a database of aircraft, and serving for an entry of new and/or editing of existing aircraft parameters (see Section 3.1, “Aircraft List”).

Note

The function is available just for specified types of users

Icon	Description
	- Flight List window providing a database of flight intentions/plans, and serving for an entry of new and/or editing of existing flights (see Section 3.3, “Flight List”). **Note** The function is available just for specified types of users
	- FPL Overview window to view stored flight intentions/plans (see Section 3.4, “Flight Log Overview”) **Note** The function is available just for specified types of users
	- User-FPL List window listing stored FPLs of currently logged-in user **Note** Item not available for this SW version
	- Flight Log Book window **Note** Item not available for this SW version
	- Flight Plans window listing all current FPLs and archived FPLs (historical) of a currently logged-in user (see Section 3.8, “Current FPL List/Flight Plans Window”)
	- AUP window to view AUP information for the present day or for tomorrow as received from AUP data source. **Note** Item not available for this SW version
	- FUA window to view a list of planned AMC areas (see Section 3.12, “FUA”)
	- Opens the Airspace Report window with a PDF document containing the current (i.e. The current date and UTC time) airspace situation in FIR in a map. The document can be saved or printed.

Icon	Description
	Note Item not available for this SW version
	- PIB window enabling to generate following PIB types: Aerodrome- , Area- , Route- , Narrow Route- PIB (see Section 3.16, “NOTAM - PIB”)
	- A Quick PIB button that generates a PIB for all FIR in a PDF format. **Note** Item not available for this SW version
	- Quick Flight Route Planning window for flight route generation by an entry of route points **Note** Item not available for this SW version
	- User Points window for working with user-defined points when planning flight route (see Section 3.5, “User Points”)
	- User Flight Activity-Warning window for a notification of GAT operation other than published via NOTAMs **Note** Item not available for this SW version
	- Map Search window for a search and retrieval, in a database of important places and SDO objects (see Section 3.9, “MAP - Map Search”)
	- NOTAM/SNOWTAM window to view a list of NOTAM and SNOWTAM messages **Note** Item not available for this SW version
	- NOTAM window to view a message list of NOTAM, SNOWTAM, ASHTAM, BIRDTAM, or AIREP type (see Section 3.17, “NOTAM - NOTAM Viewer”)

Icon	Description
	- SNOWTAM window to view a list of SNOWTAM messages **Note** Item not available for this SW version
	- ATFM button - containing menu options for management of AIM/ANM messages (AIM/ANM buttons – see below)
	- AIM window to view a list of ATFCM Information Messages (see Section 3.18, “ATFM - AIM MSG Viewer”)
	- ANM (Regulations) window to view a list of ATFCM Notification Messages/ANM (see Section 3.19, “ATFM - ANM MSG Viewer”)
	- A window to view new system messages (News) sent into the system by an ARO operator. The number of new unread messages is displayed in the red circle in the top right corner of the respective icon in the main menu. The message is deemed read after clicking on it in the News window, and the number of unread messages is adjusted accordingly. The user is notified of new messages by a warning triangle in the upper bar of the application (see the following picture). Hovering the cursor over the triangle displays information about the news messages in a tooltip. The window to view the received news messages can be open by clicking this tooltip. You have an unread "News" message.
	- METEO Viewer window to view meteorological messages (see Section 3.13, “METEO - METEO Viewer”)
	- Image Viewer window to view current meteorological images gathered from satellites and radars (see Section 3.14, “METEO - Image Viewer”)
	- SYNOP window – to view a table providing general weather information as gathered by national weather stations. **Note** Item not available for this SW version
	- Sunrise & Sunset window to compute a time of sunrise/sunset in selected geographic coordinates for a specified date (see Section 3.6, “Sunrise & Sunset”)

Icon	Description
	- Drawing window enabling to draw user-defined objects on a map (see Section 3.10, “MAP - Drawing”)
	- Measurement window enabling to measure distances between objects on a map, and to present measured values to the user (see Section 3.11, “MAP - Measurement”)
	- AIS DOCs window providing an access to paper documentation associated with operation of Aeronautical Information Services of Poland (see Section 3.20, “AIP List”)
	- ODRS window – enabling to load DRFs exported from ODRS; DRFs contain routes of selected flights **Note** Item not available for this SW version
	- VA window – to view a list of current VA advisory messages. **Note** Item not available for this SW version
	- DZ MNGT window enabling a management of Drone Zones. **Note** Item not available for this SW version
	- No DZ MNGT window enabling a management of No Drone Zones. **Note** Item not available for this SW version

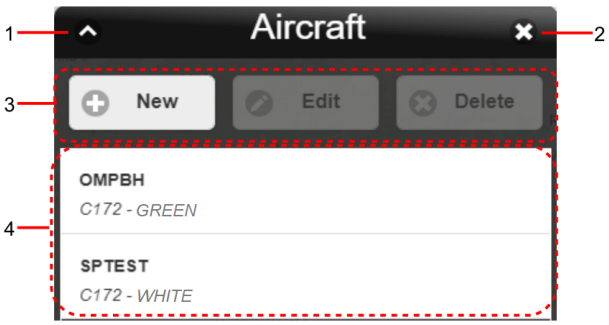
3.1. Aircraft List

Note

The function is available just for specified types of users

	- **A/C icon** - click the icon to open Aircraft List window (see picture below). The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).

Aircraft List window provides a database of aircraft, and serves for an entry of values of new aircraft's parameters or editing of existing aircraft's parameters.



Legend (describing items of the above window):

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Control Bar

Note

Edit, View and Delete buttons will be enabled only after a desired aircraft is selected (marked) in the aircraft list (Legend item 4).

Button	Description
New	- Press New to open New Aircraft window for an entry of new a/c parameter values (see Section 3.2, “New/View/Edit Aircraft”).
View	- Press View to open the View Aircraft window to view the predefined aircraft SPTEST parameters (see Section 3.2, “New/View/Edit Aircraft”) or to edit the parameters and save into the database as a new aircraft.
Edit	- Press Edit to open Edit Aircraft window for a modification of parameter values pertaining to selected/marked aircraft in Aircraft List (see Section 3.2, “New/View/Edit Aircraft”).
Delete	- Press Delete to remove the selected/marked aircraft from Aircraft List.

4. List of aircraft stored in Aircraft Database; to select (mark) an aircraft click on the row showing its name.

3.2. New/View/Edit Aircraft

Note

The function is available just for specified types of users

Activation options:	1. Choose New button of Aircraft List window (see Section 3.3, “Flight List”) 2. Choose View button of Aircraft List window (see Section 3.3, “Flight List”) 3. Choose Edit button of Aircraft List window (see Section 3.3, “Flight List”)

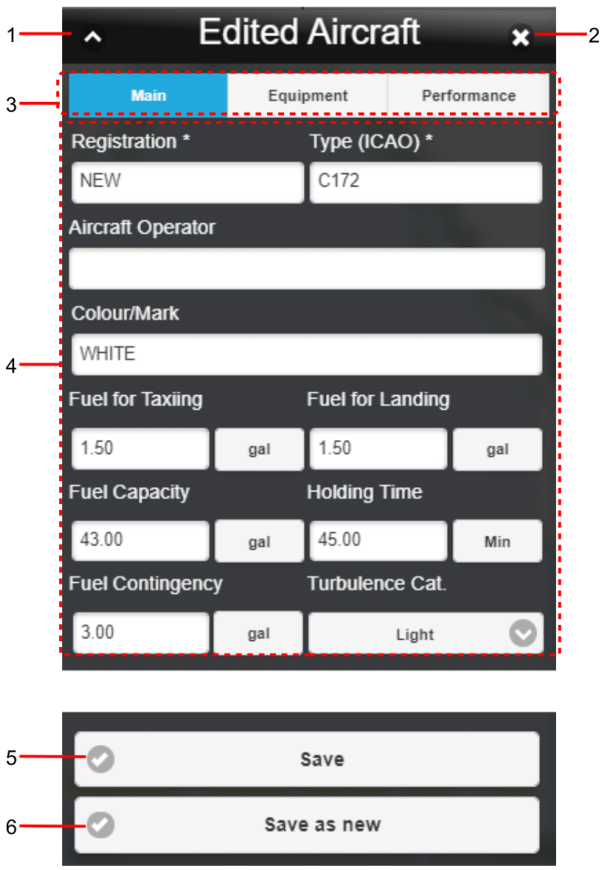
New Aircraft window serves for an entry of parameter values of aircraft to be added to the aircraft database.

The View Aircraft window serves for viewing the predefined aircraft SPTEST parameters (see Section 3.2, “New/View/Edit Aircraft”) or editing the parameters and saving into the database as a new aircraft.

Edited Aircraft window serves for editing of parameter values of aircraft already stored in the aircraft database.

Note

The windows contain identical GUI elements, therefore below are described just items contained in Edited Aircraft window.



Legend (describing items of the above window):

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Set of horizontal Tabs

Tab	Description
Main	- Tab for an entry of parameter values relating to general information about aircraft
Equipment	- Tab for an entry of parameter values relating to aircraft equipment on board
Performance	- Tab for an entry of parameter values relating to aircraft performance

4. A pane containing the control elements for viewing and editing of the aircraft parameters within the active tab Main, Equipment or Performance. Mandatory entries are marked with asterisk (*).
5. Save button to save the aircraft specification in Aircraft Database

Note

You will be not allowed to save the aircraft specification until all mandatory parameters contained in the window are filled in appropriate fields.

6. 'Save as New' button to save the aircraft specification as new aircraft providing that new aircraft registration code is entered

Note

The "Save as New" button is available in both the Edited Aircraft and View Aircraft window.

3.2.1. General Information on Aircraft ("Main" Tab)

'Main' tab (Aircraft General Information) contains items providing general information on aircraft to be added to Aircraft Database. The following items are available:

Registration

Enter the aircraft's Registration Identifier (alphanumeric string).

Note

Registration Identifier is a mandatory parameter

Type (ICAO)

Enter the aircraft's type designator (alphanumeric code) assigned by ICAO.

Note

Aircraft Type is a mandatory parameter

Aircraft Operator (see FPL - Field 18, OPR/)

Enter the name of the aircraft operator. The aircraft operator name is a mandatory field that shall be used for a flight plan creation in the Field 18 as OPR/{aircraft operator}, see Chapter 6, *FPL Form Window*.

Colour/Mark

Enter a colour or colour scheme of your aircraft.

Fuel for Taxiing

Enter a total amount of fuel required to enable a pre-flight engine check, taxiing and take-off of departing aircraft

Fuel for Landing

Enter a total amount of fuel required to enable an approach, landing and taxiing of arriving aircraft.

Fuel Capacity

Enter the total capacity of fuel tanks of your aircraft.

Holding Time

Enter an extra time for flying a hold (to delay arriving aircraft).

Fuel Contingency

Enter an amount of fuel required to compensate for unforeseen factors.

Turbulence Cat. (Wake Turbulence Categories)

Following options of ICAO wake turbulence categories (WTC) are available:

Category	Description
Light	- L (Light) aircraft types with a maximum certificated take-off mass of 7 000 kg or less
Medium	- M (Medium) aircraft types with a maximum certificated take-off mass less than 136 000 kg and more than 7000 kg
Heavy	- H (Heavy) aircraft types with a maximum certificated take-off mass of 136 000 kg or more
Super Heavy	- J (Super Heavy) for Airbus A380-800

Save

Press Save to save the aircraft's specification with parameter values of your choice into Aircraft Database.

Note

You will be not allowed to save the aircraft's specification in a database until all mandatory parameters contained in the tab are filled in appropriate fields.

Save as New

Press 'Save as New' to add the aircraft's specification with parameter values of your choice into Aircraft Database as 'new aircraft'. New aircraft shall be assigned a unique Registration Identifier.

Note

The "Save as New" button is available in both the Edited Aircraft and View Aircraft window.

3.2.2. Equipment

'Equipment' tab contains items to specify on-board equipment of aircraft.

Note

The tab contains drop-down lists where multiple options may be selected (e.g. Emergency Radio) by selecting/deselecting individual check boxes in the respective drop-down list. The buttons in the drop-down lists are to be used as follows:

Apply - Confirm the selection in the drop-down list

Clear - Clear the selection

- Close the drop-down list and apply selection

Following items (options) are available:

Emergency Radio

Select a type of emergency radio to be carried by aircraft:

Parameter	Description
None	- No emergency radio is carried
UHF	- A/C equipped with a radio transmitting in UHF band (300-3000 MHz)
VHF	- A/C equipped with a radio transmitting in VHF band (30-300 MHz)
ELT	- A/C equipped with Emergency Locator Transmitter

Survival Equipment

Select a type of survival equipment to be carried by aircraft:

Parameter	Description
None	- No survival equipment is carried
Polar	- Polar survival equipment is carried by aircraft
Desert	- Desert survival equipment is carried by aircraft
Maritime	- Maritime survival equipment is carried by aircraft
Jungle	- Jungle survival equipment is carried by aircraft

Life Jackets

Select a type of life jackets to be carried by aircraft:

Parameter	Description
None	- No life jackets are carried
Light	- Life jackets with lights are carried by aircraft
Fluorescein	- Life jackets with fluorescein are carried by aircraft
UHF	- Life jackets transmitting UHF signals are carried by aircraft
VHF	- Life jackets transmitting VHF signals are carried by aircraft

Dinghies

Check 'Dinghies' box if aircraft is equipped with life boats, as a result additional choices will be enabled:

Parameter	Description
Number	- Insert number of dinghies carried
Capacity	- Insert total capacity, in persons, of all dinghies carried
Covered	- Check the box if dinghies are covered
Colour	- Insert colour of dinghies if carried

COMM/NAV/APP (see FPL - Field 10a)

Select radio communication, navigation and approach aid equipment to be carried on board by checking the respective box. You can perform one or more choices for any item save that item N "No COM/NAV/approach aid equipment, or the equipment is unserviceable" is selected.

Parameter	Description
N: No COM/NAV/ approach aid equipment or the equipment is unserviceable	- Insert N if no COM/NAV/APP Aid equipment for the route to be flown is carried, or the equipment is unserviceable
S: Standard COM/NAV/ approach aid equipment	- Insert S if standard COM/NAV/ APP Aid equipment for the route to be flown is carried and serviceable. If the letter S is used,

Parameter	Description
	standard equipment is considered to be VHF RTF, VOR and ILS unless another combination is prescribed by the appropriate ATS authority.
A: GBAS Landing System	- Insert A if Ground-Based Augmentation System is carried and serviceable
B: LPV (APV with SBAS)	- Insert B if equipment with LPV capability is carried and serviceable
C: Loran C	- Insert C if LORAN is carried and serviceable
D: DME	- Insert D if DME is carried and serviceable.
E1: FMC WPR ACARS	- Insert E1 if equipment with FMC WPR ACARS capability is carried and serviceable
E2: D-FIS ACARS	- Insert E2 if equipment with D-FIS ACARS capability is carried and serviceable
E3: PDC ACARS	- Insert E3 if equipment with PDC ACARS capability is carried and serviceable
F: ADF	- Insert F if ADF is carried and serviceable
G: GNSS	- Insert G if GNSS is carried and serviceable, and specify, in Item 18 the types of external GNSS augmentation, if any, preceded by NAV/ and separated by a space.
H: HF RTF	- Insert H if HF radio telephone is carried and serviceable
I: Inertial Navigation	- Insert I if Inertial Navigation System is carried and serviceable
J1: CPDLC ATN VDL Mode 2	- Insert J1 if CPDLC ATN VDL Mode2 comm equipment is carried and serviceable
J2: CPDLC FANS 1/A HFDL	- Insert J2 if CPDLC FANS 1/A HFDL comm equipment is carried and serviceable
J3: CPDLC FANS 1/A VDL Mode A	- Insert J3 if CPDLC FANS 1/A VDL Mode 4 comm equipment is carried and serviceable
J4: CPDLC FANS 1/A VDL Mode 2	- Insert J4 if CPDLC FANS 1/A VDL Mode 2 comm equipment is carried and serviceable
J5: CPDLC FANS 1/A SATCOM (INMARSAT)	- Insert J5 if CPDLC FANS 1/A SATCOM (INMARSAT) equipment is carried and serviceable
J6: CPDLC FANS 1/A SATCOM (MTSAT)	- Insert J6 if CPDLC FANS 1/A SATCOM (MTSAT) equipment is carried and serviceable
J7: CPDLC FANS 1/A SATCOM (Iridium)	- Insert J7 if CPDLC FANS 1/A SATCOM (IRIDIUM) equipment is carried and serviceable
K: MLS	- Insert K if Microwave Landing System is carried and serviceable
L: ILS	- Insert L if Instrument Landing System is carried and serviceable
M1: ATC RTF SATCOM (INMARSAT)	- Insert M1 if ATC RTF SATCOM (INMARSAT) equipment is carried and serviceable
M2: ATC RTF (MTSAT)	- Insert M2 if ATC RTF (MSAT) equipment is carried and serviceable

Parameter	Description
M3: ATC RTF (Iridium)	- Insert M3 if ATC RTF (IRIDIUM) equipment is carried and serviceable
O: VOR	- Insert O if VHF Omnidirectional Range is carried and serviceable
R: PBN approved	- Insert R if Performance-Based Navigation can be met by the aircraft. If the letter R is used, the PBN levels that can be met are specified in Item 18 following the indicator PBN/. (The PBN sub-field contains the RNAV and/or RNP certifications and operational approvals applicable for the flight.)
T: TACAN	- Insert T if Tactical Air Navigation equipment is carried and serviceable
U: UHF RTF	- Insert U if UHF radio telephone equipment is carried and serviceable
V: VHF RTF	- Insert V if VHF radio telephone equipment is carried and serviceable
W: RVSM	- Insert W if equipment approved for RVSM flights is carried and serviceable
X: MNPS approved	- Insert X if equipment approved for MNPS flights is carried and serviceable
Y: VHF with 8.33 kHz channel spacing capability	- Insert Y if VHF equipment with 8,33 kHz channel spacing capability is carried and serviceable
Z: Other equipment carried or other capabilities	- Insert Z if other equipment is carried or other capabilities are available; if the letter Z is used, specify in Item 18 the other equipment/capabilities, preceded by COM/, NAV/ and/or DAT/, as appropriate.

Surveillance Equipment (see FPL - Field 10b)

Select SUR equipment and capabilities available on-board by checking the respective box. You can perform one or more choices for any item save that item N "None" is selected.

Parameter	Description
N: None	- Insert N if no surveillance equipment for the route to be flown is carried, or the equipment is unserviceable
A: Transponder Mode A	- Insert A if Transponder - Mode A (4 digits - 4 096 codes) is carried and serviceable
C: Transponder Mode C	- Insert C if Transponder - Mode A (4 digits - 4 096 codes) and Mode C is carried and serviceable
E: Transponder Mode S	- Insert E if Transponder - Mode S, including aircraft identification, pressure altitude and extended squitter (ADS-B) capability is carried and serviceable

Parameter	Description
H: Transponder Mode S	- **Note** Enhanced surveillance capability is the ability of the aircraft to down-link aircraft derived data via Mode S transponder. Insert H if Transponder — Mode S, including aircraft identification, pressure altitude and enhanced surveillance capability is carried and serviceable
I: Transponder Mode S	- Insert I if Transponder — Mode S, including aircraft identification, but without pressure altitude capability is carried and serviceable
L: Transponder Mode S	- **Note** Enhanced surveillance capability is the ability of the aircraft to down-link aircraft derived data via Mode S transponder. Insert L if Transponder — Mode S, including aircraft identification, pressure altitude, extended squitter (ADS-B) and enhanced surveillance capability is carried and serviceable
P: Transponder Mode S	- Insert P if Transponder — Mode S, including pressure altitude, but without aircraft identification capability is carried and serviceable
S: Transponder Mode S	- Insert S if Transponder — Mode S, including both pressure altitude and aircraft identification capability is carried and serviceable
X: Transponder Mode S	- Insert X if Transponder — Mode S with neither aircraft identification nor pressure altitude capability is carried and serviceable
B1: ADS-B with dedicated 1090 MHz ADS-B 'out' capability	- Insert B1 if ADS-B with dedicated 1 090 MHz ADS-B “out” capability is carried and serviceable
B2: ADS-B with dedicated 1090 MHz ADS-B 'out' and 'in' capability	- Insert B2 if ADS-B with dedicated 1 090 MHz ADS-B “out” and “in” capability is carried and serviceable
U1: ADS-B 'out' capability using UAT	- Insert U1 if ADS-B “out” capability using UAT is available
U2: U2 ADS-B 'out' and 'in' capability using UAT	- Insert U2 if ADS-B “out” and “in” capability using UAT is available
V1: ADS-B 'out' capability using VDL Mode 4	- Insert V1 if ADS-B “out” capability using VDL Mode 4 is available

Parameter	Description
V2: ADS-B 'out' and 'in' capability using VDL Mode 4	- Insert V2 if ADS-B “out” and “in” capability using VDL Mode 4 is available
D1: ADS-C with FANS 1/A capabilities	- Insert D1 if ADS-C with FANS 1/A capabilities is carried and serviceable
G1: ADS-C with ATN capabilities	- Insert G1 if ADS-C with ATN capabilities is carried and serviceable

Other COMM (see FPL - Field 18, COM/)

Insert additional communication equipment carried by the aircraft in Item 18 preceded by COM/.

Other NAV (see FPL - Field 18, NAV/)

Insert additional navigation equipment carried by the aircraft in Item 18 preceded by NAV/.

Save

Press Save to save the aircraft's specification with parameter values of your choice into Aircraft Database.

Note

You will be not allowed to save the aircraft's specification in a database until all mandatory parameters contained in the tab are filled in appropriate fields.

Save as New

Press 'Save as New' to add the aircraft's specification with parameter values of your choice into Aircraft Database as 'new aircraft'. New aircraft shall be assigned a unique Registration Identifier.

Note

The "Save as New" button is available in both the Edited Aircraft and View Aircraft window.

3.2.3. Performance

'Performance' tab contains items to specify parameters of aircraft performance. Following items (options) are available:

Climb Rate (sea level)

Insert a value of climbing performance at sea level

Note

Climb Rate (sea level) is a mandatory parameter

Climb Rate (ceiling)

Insert a value of climbing performance at ceiling

IAS (climb)

Insert a value of Indicated AirSpeed when climbing

Note

IAS (climb) is a mandatory parameter

Ceiling

Insert a value of aircraft's static ceiling

IAS (cruise)

Insert a value of Indicated AirSpeed when en-route

Note

IAS (cruise) is a mandatory parameter

Fuel Burn (cruise)

Insert a value of average fuel consumption by aircraft when en-route

Note

Fuel Consumption (cruise) is a mandatory parameter

Descent Rate

Insert a value of descent speed

Note

Descent Rate is a mandatory parameter

IAS (descent)

Insert a value of Indicated AirSpeed when descending

Note

IAS (descent) is a mandatory parameter

Fuel Burn (descent)

Insert a value of average fuel consumption by aircraft when descending

Fuel Burn (ceiling)

Insert a value of average fuel consumption by aircraft when on ceiling

Fuel Burn (climb)

Insert a value of average fuel consumption by aircraft when climbing

Save

Press Save to save the aircraft's specification with parameter values of your choice into Aircraft Database.

Note

You will be not allowed to save the aircraft's specification in a database until all mandatory parameters contained in the tab are filled in appropriate fields.

Save as New

Press 'Save as New' to add the aircraft's specification with parameter values of your choice into Aircraft Database as 'new aircraft'. New aircraft shall be assigned a unique Registration Identifier.

Note

The "Save as New" button is available in both the Edited Aircraft and View Aircraft window.

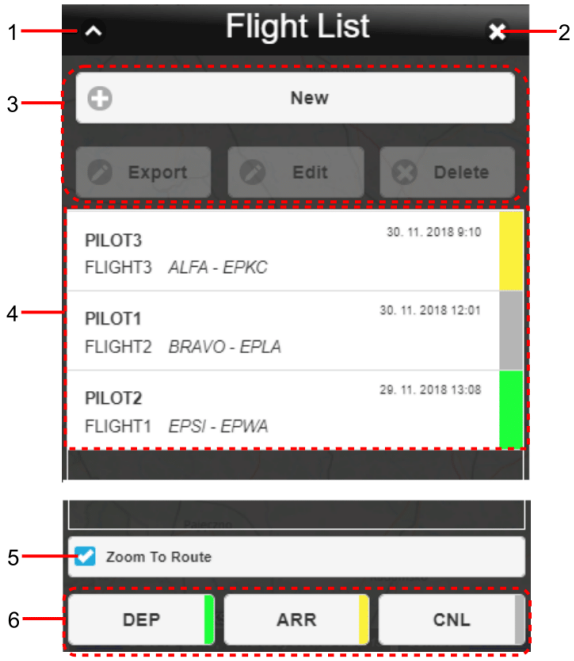
3.3. Flight List

Note

The function is available just for specified types of users

- **Flight List icon** - click the icon to open Flight List window (see below picture). The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).

Flight List window provides a database of flight plans or just flight intentions, and serves for planning of new flights and/or modification of existing flights.



Legend:

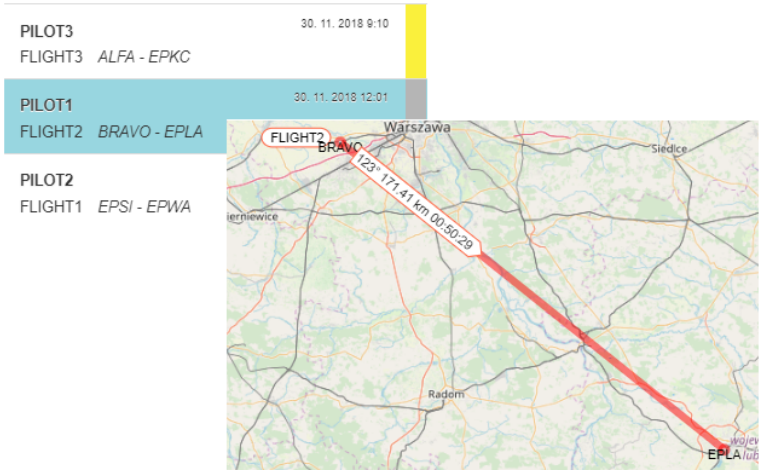
1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Control Bar

Note

Export, Edit and Delete buttons will be enabled only after a desired aircraft is selected (marked) in the aircraft list (Legend item 4).

Button	Description
New	- Press New to open Flight Log window for a creation of new flight plan/intention (see Section 3.7, “Flight Log”).
Export	- Press Export to save an intended flight route of a selected/marked FPL in a *.gpx file format (for use in a GPS device).
Edit	- Press Edit to open Flight Log window for a modification of parameter values pertaining to selected/marked flight plan (see Section 3.7, “Flight Log”). **Note** If you choose for your flight plan an aircraft deleted from the aircraft database, a dialog window appears notifying about the aircraft invalidity and advising that a default aircraft will be used instead.
Delete	- Press Delete to remove the selected flight plan (or intended flight plan) from Flight List.

4. List of flights/intended flights stored in Flight Database; to select a flight plan mark it by clicking on its row (showing the FPL name). Subsequently, your flight route will be depicted on a map (see picture below) as per specification done in Flight Log window (see Section 3.7, “Flight Log”).



5. **Zoom To Route** - Check the box if you wish to move your map view, and to zoom it in a route of the flight you selected in Flight List (Legend item 4)

6. Flight Status Bar – Visual indication of a phase of the flight; new flight is assigned "inactive" status without a colour indication.

Note

The following buttons will be enabled only upon selecting (marking) a desired flight plan/intention in Flight List (Legend item 4).

Button	Status	Description
DEP		- Indicator "DEPARTURE" is set for a selected flight
ARR		- Indicator "ARRIVAL" is set for a selected flight
CNL		- Indicator "CANCELLED" is set for a selected flight

3.4. Flight Log Overview

Note

The function is available just for specified types of users

- **Flight Log icon** - click the icon to open Flight Log Overview window (see below picture). The icon can be found under options of Main Menu (see Chapter 4, *Settings Menu*).

Flight Log Overview window enables to view, in accordance with specified criteria (filters) a list of stored flight intentions/plans satisfying the said criteria, and to retrieve an intended flight/flight plan, as required.

Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Filters - Section for a choice of selection criteria for FPL retrieval

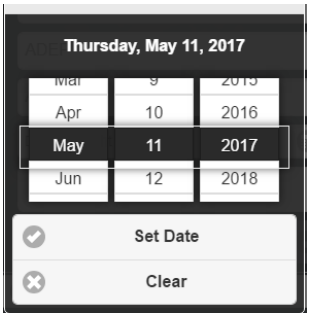
   Use ⊕/⊖ buttons to expand/collapse the section for filter specification.

4. Filtering Options - drop-down menu of items through combination of which you can select a collection of flight plans satisfying your filtering criteria, the FPL collection will then be listed in Section 6 (see 'Result' below)

Filtering Option	Description
Pilot In Command	All flight plans pertaining to selected PIC will be listed in Section 6
ADEP	All flight plans containing the same ADEP will be listed in Section 6
ADES	All flight plans containing the same ADES will be listed in Section 6
Date of Flight	All flight plans containing the same DOF will be listed in Section 6
Active	Check the box next to the Active item to list all active flight plans in Section 6

Filtering by Date

To set date of flight use button. Upon clicking/tapping the calendar window appears to perform a required action.



Use mouse wheel to scroll up and down in the Date list to select the appropriate value. When selected, its value gets highlighted. Finally, confirm your choice by pressing Set Date or undo the action by pressing Clear.

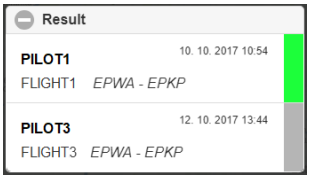
5. Show button – tap to retrieve and show, in Section 6 (Result) a list of flight plans (or intended flight plans) satisfying your filtering criteria. The number of flight plans is shown in the text box on the right.

Note

Show button will be enabled only upon setting values for any of Filtering Options

6. **Result**- section for a presentation of "shortlisted" flight plans (a collection of flight plans satisfying filtering criteria set by the user)

Use / buttons to expand/collapse Result section



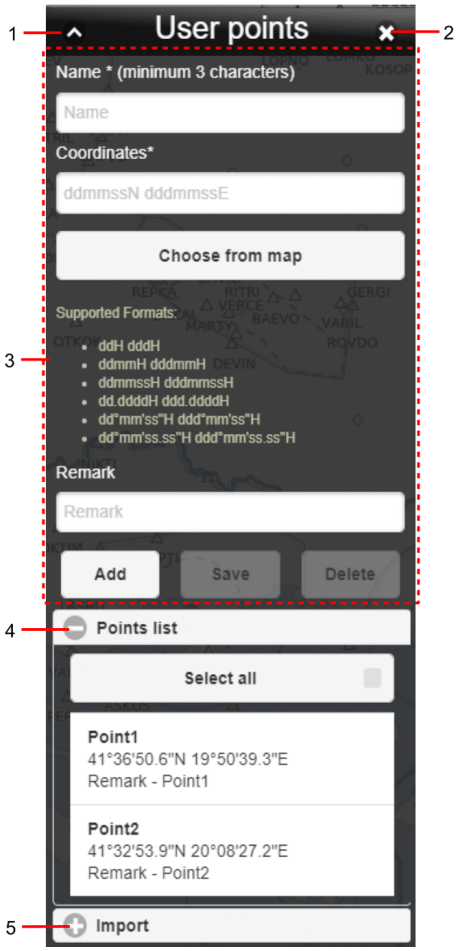
Note

For colour indicators identifying flight plan status (shown as colour strip on the right of shortlisted FPL row) refer to Section 3.3, “Flight List”.

3.5. User Points

	- User Point icon - click the icon to open User Points window (see below picture). The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).

User Points Window enables an entry of new user-defined points and/or editing of existing ones, as well as an import of points to User Points Database when planning flight route by use of own points stored in the database.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window followed by a return of the application to standard mode of operation.
3. Point Attributes - a pane for an entry of point attribute values when specifying a new user-defined point, and/or modifying the existing one as follows: name of point, geographic coordinates of the point position (through selection of pre-set options) and a remark, if required.

Note

An entry of values for the attributes marked with asterisk (*) is mandatory.

When entering position values use one of supported data formats as follows:

Supported Data Format	Description
ddH dddH	dd/ddd - Degrees
ddmmH dddmmH	mm - Minutes
ddmmssH dddmmssH	ss - Seconds
dd.ddddH ddd.ddddH	.dddd - 4 decimal places of decimal degrees value
dd°mm'ss"H ddd°mm'ss"H	.ss - 2 decimal places of decimal seconds value
dd°mm'ss.ss"H ddd°mm'ss.ss"H	H - Designator of Earth's hemisphere, where: S = South; N = North; W = West; E = East

Control elements for interaction with point database are listed below:

Button	Description
Choose from map	- Mouse click on 'Choose from Map' item to show geographic coordinates of a selected point in "Coordinates" text box
Add	- Press Add to add new point in use-points database. **Important** Database capacity is limited to 200 points as a maximum
Save	- Press Save to store a modified point in use-points database. **Note** Save button will be enabled only upon selecting a desired point in User Point List (Legend Item 4).
Delete	- Press Delete to remove point(s) selected/marked in User Point List, from the use-points database. This action is preceded by a message requesting to confirm the deletion action. **Note** Delete button will be enabled only upon selecting a desired point in User Point List (Legend Item 4).

4. User Point List – section listing all user points stored in User Point Database

   Use ⊕/⊖ buttons to expand/collapse User Point List section

To select/mark the point click on a chosen row in User Point List, as a consequence its parameter values will appear in text fields of Parameter Pane for their modification. Besides this, buttons Save and Delete will be enabled (Legend item 3).

Delete Multiple Points

- **Select All** – check the box if you wish to select/mark all points contained in User Points Database
- Click on the rows, points of which you wish to delete in order to select/mark them.

Once the points are marked, Delete button for removal of all selected points will be enabled (Legend item 3) to perform the action.

5. Import – section enabling an import of points from a chosen file format (*.xls,*.xlsx or *.kml) into file format of User Point Database

Use ⊕/⊖ buttons to expand/collapse Import section

Button	Description
Search	- Press Search to open a window for a search and selection of a file (in *.xls,*.xlsx or *.kml format) data of which will be imported into User Point Database.
Import	- Press Import to import data from selected file to User Point Database. The database will be supplemented by additional points, however up to 200 points as a maximum.

Button	Description
	Important The points, the names of which contain diacritic signs cannot be fail-safe imported.
	Important For a correct positioning of imported User Points on a map you shall specify and arrange their attributes in column headers in the following order: Name, Latitude, Longitude. A correct entry of user points in an *.xls file to be imported can be seen on the picture below.

	A	B	C
1	UserPoint1	49N	18E
2	UserPoint2	4815s	01749w
3	UserPoint3	471630s	0164918e
4	UserPoint4	46.1503N	015.4930e
5	UserPoint5	40°18'19''N	020°15'20''W
6	UserPoint6	12°52'14.14''S	120°59'50.34''H

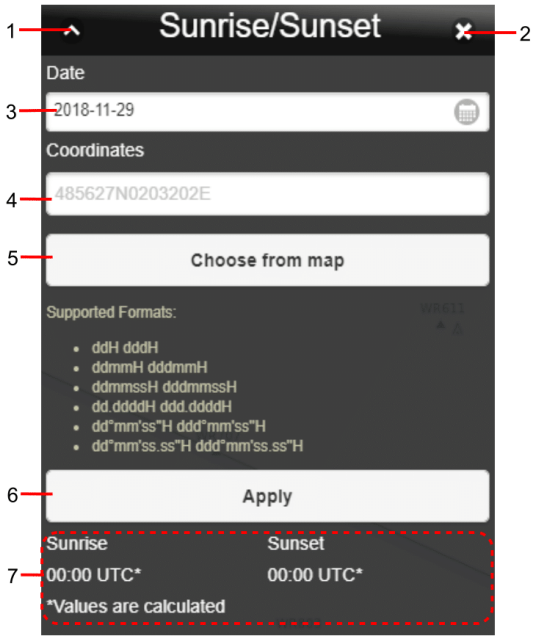
Note

If a point is incorrectly imported into user point database its row in User Point List will be red highlighted. In this way, the user is notified about a necessity to correct/ modify the point values. Moreover, if geographic coordinates of the point are entered in not supported format they will automatically be assigned a correct format, similarly if a character specifying the Earth's hemisphere is missing, proper designator will be added to the point's coordinates. The user is advised about such corrections by appropriate notice.

3.6. Sunrise & Sunset

- Click the icon to open Sunrise/Sunset window (see picture below). The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).

Sunrise/Sunset window enables a computation of a moment when sun rises from, or sets below the horizon for a chosen location (a spot on a map) in selected geographic coordinates.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Date** – to set date for which the sunrise/sunset computation will be done; the current date is set by default. To set date use button. Upon clicking the calendar, a window appears to perform a required action. Use a mouse wheel to scroll up and down in the list to set an appropriate date. When selected, its figure gets highlighted. Finally, confirm your choice by pressing Set Date.

4. **Geographic coordinates** – to set geographic coordinates of a location for which sunrise or sunset should be computed

   When entering position values, use one of supported data formats as follows:

Supported Data Format	Description
ddH dddH	dd/ ddd - Degrees
ddmmH dddmmH	mm - Minutes

Supported Data Format	Description
ddmmssH dddmmssH	ss - Seconds
dd.ddddH ddd.ddddH	.dddd - 4 decimal places of decimal degrees value
dd°mm'ss"H ddd°mm'ss"H	.ss - 2 decimal places of decimal seconds value
dd°mm'ss.ss"H ddd°mm'ss.ss"H	H - Designator of Earth's hemisphere, where: S = South; N = North; W = West; E = East

5. **Choose from Map** - mouse click on the item to show geographic coordinates of a selected point in "Coordinates" text box
6. **Apply** – press the button to start computation
7. Time Display – to show the exact time of sunrise/sunset [UTC] for a chosen date and position

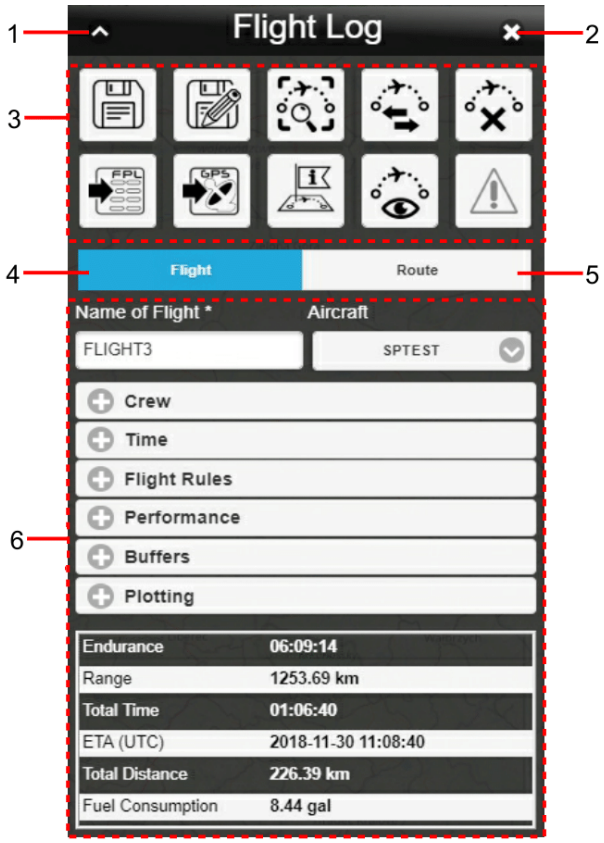
3.7. Flight Log

Note

The function is available just for specified types of users

Activation options:	1. Choose New button of Flight List window (see Section 3.3, “Flight List”). 2. Choose Edit button of Flight List window (see Section 3.3, “Flight List”). 3. Choose 'Create Flight Plan' button of Features window (see Chapter 7, *Feature Info Window*).

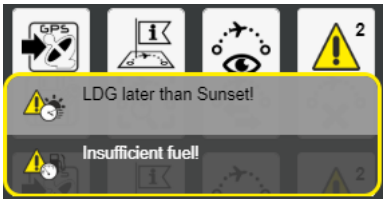
Flight Log window serves for flight route generation through control elements contained in the window.

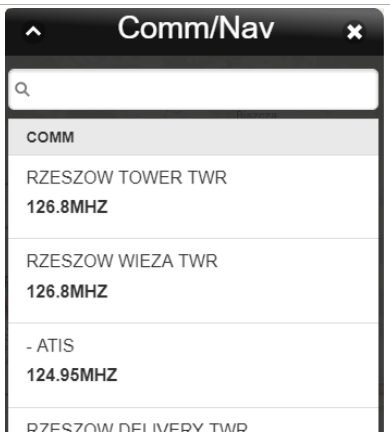
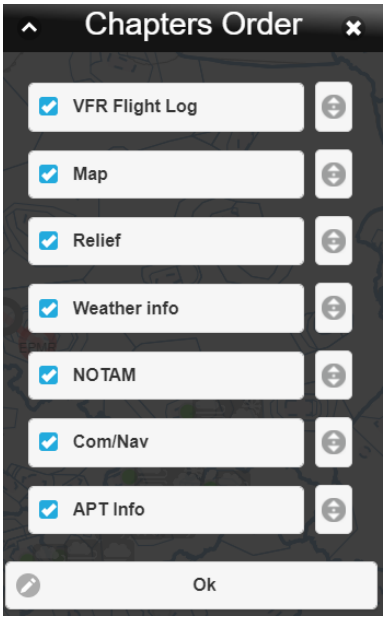


Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Control Bar

Icon	Description
	- Choose the icon to save the planned flight plan. If you fail to fill-in the FPL form correctly, a save dialog appears notifying about the FPL incorrectness (invalidity). To save your FPL, remove all mistakes/incorrect entries first.
	- Choose the icon to add the newly created/modified flight plan with a new name. If you fail to fill in the FPL form correctly, a save dialog appears notifying about the FPL incorrectness (invalidity). To save your FPL, remove all mistakes/incorrect entries first. **Note** The button will be enabled only for an existing (stored) flight plan modified by use of Edit button contained in Flight List window (see Section 3.3, “Flight List”).
	- **Zoom-to-Route** - choose the icon to zoom IN/OUT and to centre a map view to entire intended flight route; for details refer to Section 3.7.2, “Route Tab” .
	- Choose the icon to set a return flight for the same route (in the opposite direction). The order of way points will be updated in Route tab of Route Segments section (see Section 3.7.2, “Route Tab”) followed by the flight route values re-computing.
	- Choose the icon to remove all inner route segments so that only one segment consisting of 2 distinct endpoints representing ADEP-ADES locations will remain. Then, a content of Route Segments section/Route tab (see Section 3.7.2, “Route Tab”), and also a map view will be updated accordingly. Besides this, the flight route values will be re-computed and updated in Flight tab [4].
	- FPL icon – choose the icon to open FPL Form window showing a completed FPL form containing values entered by the user into the Flight Log window (see Chapter 6, *FPL Form Window*). The window will appear only if you fill in the mandatory fields correctly. Otherwise, the application notifies the user accordingly.
	- Export icon - choose the icon to save a flight route of a selected/marked FPL in a *.gpx file format (for use in a GPS device).
	- **INFO mode** of operation; (when active, SDO information on sites/objects located inside the map view is available to the user). **SDO Info Enabled** Upon a click anywhere inside the map the Features window appears for interaction with objects located in the point of clicking (see Chapter 7, *Feature Info Window*).

Icon	Description
	SDO Info Disabled Flight Route mode of operation is enabled and you can create flight routes. Upon clicking in the map the Select WayPoint, a window appears offering choices for a creation of waypoints in the points of clicking (see Section 3.7.2, “Route Tab”).
	- **Flight Profile** - choose the icon to show a vertical flight profile of the flight route; besides this, additional control elements appear in Control Bar of Flight Log window; for vertical profile description refer to Section 3.7.3, “Vertical Flight Profile”.
	- **Flight Rules Conflict** - Indicator notifying about a discrepancy/conflict between flight parameter values entered by the user (planned flight route) and flight rules. Grey colour of the symbol indicates that there is no discrepancy between the specification and the rules; the symbol changes colour if there is one or more discrepancies, the number of discrepancies is indicated next to the symbol. When hovering the mouse cursor over the indicator, a tooltip appears listing notification(s) providing details on discrepancies (see picture below). **Note** Indicator status updates after flight route re-computing (see Section 3.7.1, “Flight Tab ”).  The below icons may be used for a notification of the following events: Take-off before Sunrise! Landing after Sunset! Lack of fuel! Flight under 1000ft AGL. Check for obstacles is required!
	- **COMM/NAV** – choose the icon to open the below Comm/Nav window containing a list of frequencies used by airports and NAVAIDs, it also lists frequencies of navigation check points located in the vicinity of the flight route, particularly in the range of FPL buffer zone.

Icon	Description
	 **Note** The icon is enabled when the vertical flight profile is activated (by use of icon, see the above listed item)
	- **Flight Report** - choose the icon to generate a flight report in PDF file format. Upon clicking on the icon, the Chapter Order window appears providing a list of chapters to be included into pre-flight preparation document. You can choose chapters you wish to include in your report and set up your own order of chapters. If you want to change the order of chapters just re-locate their icons by use of drag & drop technique. Then click on OK button to generate your pre-Flight Report in PDF format as a soft copy to be viewed on your desktop/mobile device display, or as a hard copy when printed on a connected printer. 

Icon	Description
	Note The icon is enabled when the vertical flight profile is activated (by use of icon, see the above listed item)
	Note Before creating the flight documentation check both the map and the route for compliance with Flight Report format (WYCIWYG)
	- **Quick Report** – choose the icon to quickly generate a shortened pre-flight report from the intended flight plan currently displayed on your screen in PDF format. Quick Pre-flight Report comprises (1) a label with essential flight information and (2) a map view displaying the whole flight route.
	Note The icon is enabled when the vertical flight profile is activated (by use of icon, see the above listed item)
	- **Printer**- choose the icon to open Print Map window to print your map view, showing a complete flight route in PDF file format by use of a connected printer.
	Note The icon is enabled when the vertical flight profile is activated (by use of icon, see the above listed item)

4. **Flight** - the tab for an entry of flight parameter values
5. **Route** – the tab for an entry of route parameter values
6. Pane containing controls of an active tab – i.e. either 'Flight' (see Section 3.7.1, “Flight Tab ”) or 'Route' (see Section 3.7.2, “Route Tab”) parameters are displayed; the parameters are grouped in sections (e.g. Crew, ADEP/ADES, etc.)

   Use ⊕/⊖ buttons to expand or collapse a section of your choice.

3.7.1. Flight Tab

Flight tab serves for an entry of the flight attribute values by use of control elements contained in the tab as follows:

Name of Flight

Enter a name of your flight

Note

Entry of the item value is mandatory

Aircraft

Choose an aircraft from Aircraft Database

Crew

Specify a crew of the aircraft for your flight by use of items contained in this section

Item	Description
PIC	- Enter the name of the pilot in command. By default, the name of the currently logged-in user is pre-filled.
Crew	- Enter name(s) of crew member(s)
POB	- Enter the number of persons on board or TBN

Time

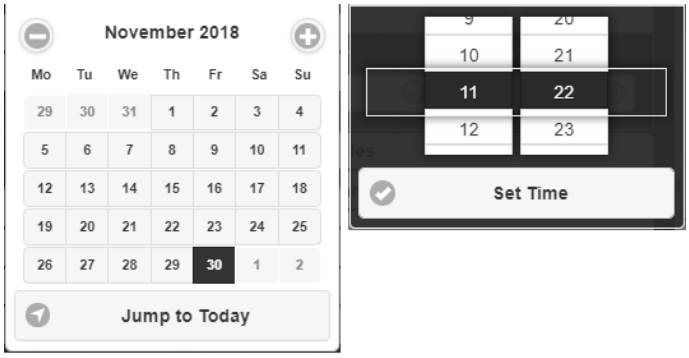
Specify a date and time of flight by use of items contained in this section.

Note

Entry of the items value is mandatory

Item	Description
Date (DOF)	- Enter the Date of Flight. By default, the current date is pre-filled.
EOBT (UTC)	- Enter the Estimated Off-Block Time. The minimum possible value is current UTC time + 5 minutes. These parameters can be configured within the application, and depend on their current configuration setting.

To set the date and time use a keyboard, or choose and icons. Upon clicking the and icons respectively, the calendar and clock window appear for a performance of the required actions.



The currently selected date/time values are highlighted in the Calendar/Clock controls. The date value is automatically accepted by selecting it. To set the current date use "Jump to Today" button. To set any other time value use the mouse wheel to scroll up and down in Hour/Minute list. Finally, confirm your choice by pressing Set Time.

Flight Rules

Specify flight rules and type of flight by use of items contained in this section.

Item	Description
Flight Rules	- Choose one out of following options: • IFR (whole flight under IFR) • VFR (whole flight under VFR) • IFR→VFR (first part of the flight is under IFR, later it is changed into VFR) • VFR→IFR (first part of the flight is under VFR, later it is changed into IFR) **Note** The Flight Rules parameter for the respective Flight Log is adjusted automatically based on the flight rules set for individual segments in the Route tab (see Section 3.7.2, “Route Tab”). **Note** If the flight rules in the Flight tab are changed to IFR-VFR or VFR-IFR, and at the same time all segments (i.e. the whole flight) in the Route tab are filled only with IFR or only VFR flight rules, respectively, after saving such Flight Log, the application does not take the mixed flight rules in the Flight tab into account, and only accepts the flight rules set in the segments of the Route tab. That means, that after re-opening of this saved Flight Log, the flight rules in the Flight tab are amended in accordance with the flight rules from the segments in the Route tab.

Item	Description
	If the user tries to generate a FPL for such Flight Log (i.e. mixed flight rules in the Flight tab and no change of flight rules in the segments) by clicking the button, the FPL is not created, and the user is notified to amend the flight rules in the segments of the Route tab (see the picture below).
Type of Flight	- Choose one out of following options: • Scheduled Air Service (S) • Non-scheduled Air Service (N) • General Aviation (G) • Military (M - Military Aviation) • Other (X - other than the preceding categories)

Aircraft Performance

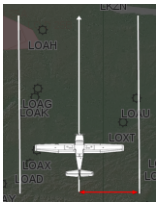
Specify aircraft performance parameters by use of items contained in this section.

Item	Description
Fuel On Board	- Enter an amount of fuel carried by aircraft before flight
Cruising Level	- Specify planned cruising level **Note** Cruising Level is a mandatory parameter **Note** If no cruising level is entered you will be notified about the same by highlighting both Aircraft Performance row and Cruising Level field. Choose one of the following characters specifying the cruising level of your aircraft: • A - Altitude in hundreds of feet at QNH pressure, expressed as "A" followed by three numbers (e.g., A085)

Item	Description
	• F - Flight level, expressed as "F" followed by three numbers (e.g., F055) • VFR - VFR (unspecified cruising level); the flight will be conducted as uncontrolled VFR flight using default 1000ft AGL (i.e. you need not to enter the height value, the flight is re-computed using the default value) • S - Standard metric level in tens of meters at 1013 hPa pressure, expressed as "S" followed by four numbers (e.g. S0150) • M - Altitude in tens of meters at QNH pressure, expressed as "M" followed by four numbers (e.g. M0610)
Fuel Burn (cruise)	- Enter a value of average fuel quantity burned per hour for aircraft when cruising
IAS (cruise)	- Enter a value of Indicated Air Speed. Insert TAS if required.

FPL Buffer Zone (FBZ)

Specify, by use of items contained in this section, the vertical and lateral limits of an airspace (FPL Buffer Zone) within which the height and nature of obstacles shall be taken into consideration when planning a flight.

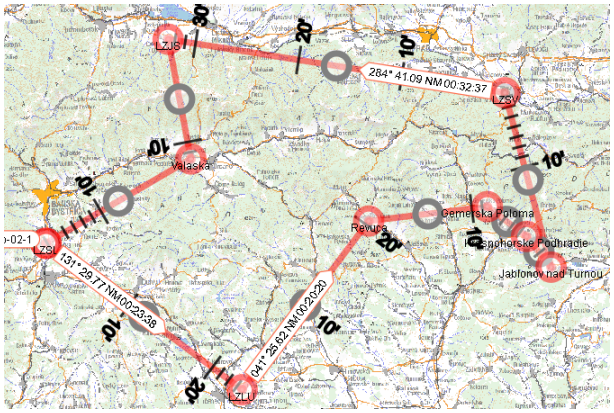
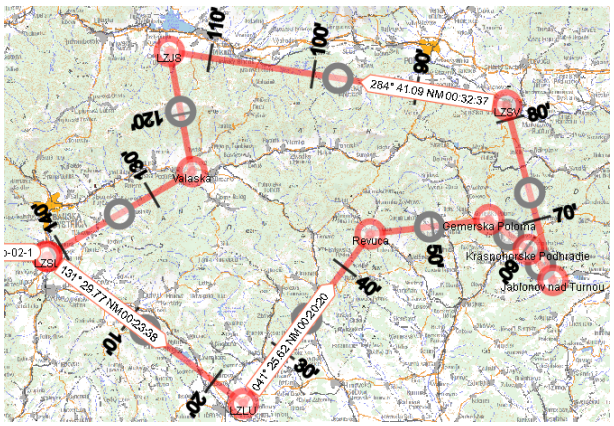
Item	Description
Horizontal Buffer	- Enter a value of a lateral limit of the FPL buffer zone 
Vertical Buffer	- Enter a value of a vertical limit of the FPL buffer zone

Default values for both vertical and lateral limits = 1000 Ft.

Plotting

Specify, by use of items contained in this section, a plotting of flight route, i.e. a division of a route segment into N equal parts each of the same length of time.

Item	Description
Leg Time	- Enter a length of time [N minutes] for a division of a route segment into equal parts lasting N minutes each (e.g. the entry of 10 minutes means that the route segment will be split into 10-minutes' sections)
Last Leg Time	- Enter a length of time [M minutes] for a division of the last route segment into M-minutes' sections

Item	Description
Count	- Choose a manner of computing the length of flight [min]. Available are following options: • **Leg** - each route segment (from one waypoint to another) is divided to N- and M-minutes' sections respectively by use of Leg Time and Last Leg Time items  • **Route** - the whole flight route (from ADEP to ADES) is divided into N-minutes' sections by use of Leg Time item; a value entered in Last Leg Time item refers only to a final time section prior to end of route 

Flight Route Update

When specifying the flight attribute values the flight route re-computation and update of conflict warnings between flight attributes and flight rules are performed automatically (see Section 3.7, “Flight Log”); updated values of the below listed flight attributes (not editable by the user) are shown in Flight Tab:

Note

The distance and length values in flight-related calculations are displayed in currently selected units. The units can be selected/set by clicking on the respective indicator in the control bar of the application (see Chapter 2, *Home Screen/Main Window*).

Item	Description
Endurance	- Computed maximum length of time that an aircraft can spend in cruising flight at a given speed, fuel amount and rate of consumption
Range	- Computed maximum distance an aircraft can fly between take-off and landing as limited by fuel load (without re-fuelling)
Total Time	- Computed estimated duration of a flight (from take-off/ ADEP to touch-down/ ADES)
ETA (UTC)	- Computed estimated time of arrival
Total Distance	- Computed total length of flight route (from ADEP to ADES)
Fuel Consumption	- Computed total amount of fuel an aircraft uses to pass the route from ADEP to ADES at a given speed

3.7.2. Route Tab

Route tab serves for a creation of the flight route by use of control elements grouped in "ADEP/ ADES", "Add Way Point" and "Route Segments" sections of the Route tab as follows:

ADEP/ADES

Specify airport of departure and airport of destination by use of items contained in this section

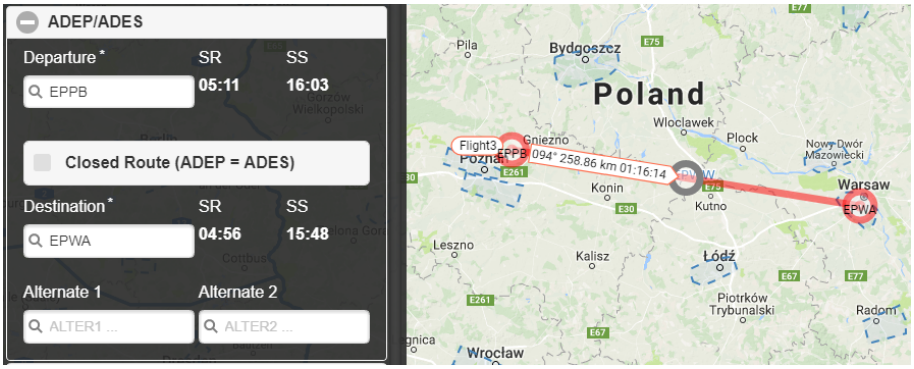
Note

ADEP can, optionally, be specified by clicking on a desired spot in a map (see Section 3.7.2, “Route Tab”).

Item	Description
Departure	- Search and selection of an Aerodrome of DEParture (ADEP) **Note** Departure is a mandatory parameter
Destination	- Search and selection of an Aerodrome of DEStination (ADES) **Note** Destination is a mandatory parameter
Closed Route (ADEP = ADES)	- Check the box if the ADEP is required to be identical to ADES; then ADES field becomes inactive
SR/SS	- Time of sunrise (SR) and sunset (SS) for both ADES and ADEP; if SS/SR time is available it will be displayed upon the flight re-computation (see text below)

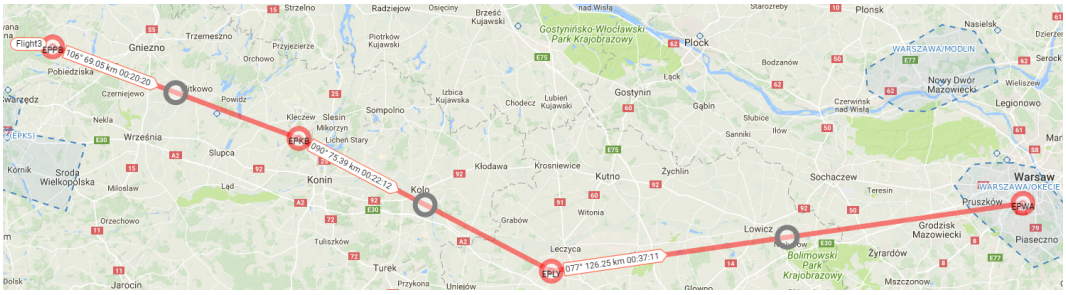
Item	Description
Alternate 1	- Search and selection of 1st alternate aerodrome of arrival (ALT 1)
Alternate 2	- Search and selection of 2nd alternate aerodrome of arrival (ALT 2)

Search for aerodrome will be initiated upon an entry of 2 characters; aerodrome is searched in WFS- and SDO- databases, followed by a search in a database of important places. Finally, objects the names of which contain an entered string of characters are retrieved. The maximum number of searched objects is 500. Once a choice of ADES and ADEP is completed a related flight route appears in a map window.



Flight Route Presentation

Route segment is represented by a line segment having 2 distinct endpoints and a midpoint on the halfway between the endpoints. Endpoints and midpoints are displayed in different colours.



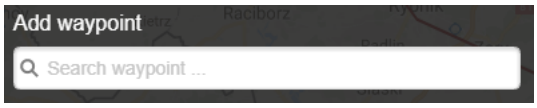
A label is attached to each route segment containing information on aircraft heading, length of the segment and computed time of flight between the two waypoints.

You can modify the flight route by re-location of one or more waypoints if flight route creation is enabled (see INFO mode of Section 3.7, “Flight Log”). To re-locate a waypoint use drag & drop technique.

ADD WAYPOINT

A) By Retrieval from WayPoint Database

Add WayPoint section provides options for an entry of new way point in a flight route by a search and retrieval of its name in the database of waypoints.



Search for a waypoint will be initiated upon an entry of at least 2 characters into "Add waypoint" text field; the point is searched in WFS- and SDO- databases, followed by a search in a database of important places and then in User Point database. The maximum number of searched objects is 500. Finally, after been selected the point is automatically added to the route and flight-related parameters will be updated accordingly.

Note

The waypoint can optionally be searched either in a database as a whole, or in a radius of a configurable value (by default set to 500 km) from the centre of the map currently displayed in Map Window. The search mode may be selected by use of WORLDWIDE SEARCH icon (toggle) contained in Control Bar of IXOweb Main Window (see Chapter 2, *Home Screen/Main Window*).

Note

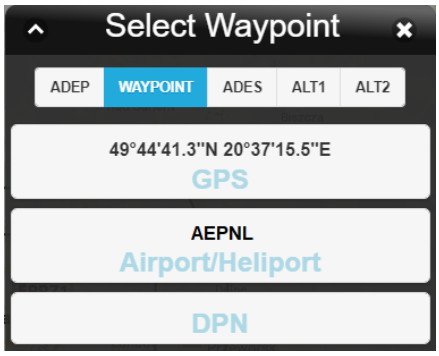
Airports/Heliports are listed with the prefix A- in the list of searched waypoints, e.g. EPKK is displayed as AEPKK.

B) By a Click in Map View

Note

This option is available only when SDO INFO mode is disabled (see Section 3.7, “Flight Log”).

Upon clicking in a spot on a map where you intend to locate a new waypoint the Select Waypoint window appears indicating GPS coordinates of the mouse position when clicked. Besides this, the window contains a list of surrounding points found in SDO database.



Then, assign a role to the new point that it will represent within your flight route. Following options are available:

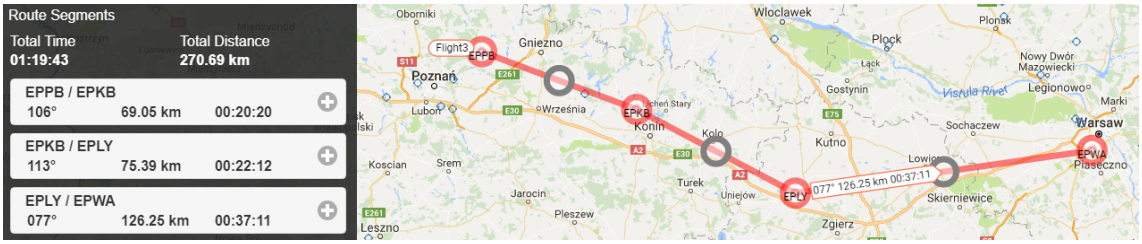
Button	Representation
ADEP	- Aerodrome of departure
WAYPOINT	- Waypoint along the flight route (between ADEP and ADES) **Note** When selecting an aerodrome as a waypoint, it is displayed in the Select Waypoint window with the prefix A-, e.g. EPKK is displayed as AEPKK.
ADES	- Aerodrome of destination
ALT1	- Alternate aerodrome 1
ALT2	- Alternate aerodrome 2

Select/mark the point of your choice in the list by a click on a row showing GPS coordinates or the point's name. (When selecting the point in SDO database, such point is added to the route automatically.) If you choose the point by its GPS coordinates, upon tapping the 'Save Point As' window appears for an entry of the point's name as a string of at least three characters, and its adding/saving into user point database through Save-to-Profile section (see the picture below). The section will be enabled (unlocked) upon an entry of at least three characters identifying the point's name. Entry of a remark is optional. In case of any mistake or fault when saving the point in the database you will be notified about the same by a time-limited notice which disappears within 5 seconds. When the point is successfully saved, the section will be closed and locked until a next change of the point's name.

By pressing Confirm the point is added to the route, and Flight Log data are updated (see Section 3.7, “Flight Log”).

ROUTE SEGMENTS

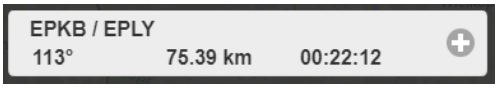
Route Segments section contains controls by use of which you can create new, or modify existing route segments of your intended flight route. To create route segment(s) you need to specify ADES and ADEP airports and waypoints. For ADES/ADEP specification refer to Flight tab of Section 3.7.1, “Flight Tab ” or apply option B) of 'Add Way Point' above. For waypoints specification refer to 'Add Way Point' section above. The route segments created by successive entries of points are then displayed on a map.



Flight route can be modified by re-location of one or more way points using Drag & Drop technique. As a result, the flight data contained in Route Segments section will be updated accordingly.

One Route Segment

Route segment is represented by a line segment having 2 distinct endpoints and a midpoint on the halfway between the endpoints. A label is attached to each route segment providing following information: ICAO code of each of the endpoints, aircraft heading, the length of a segment and computed time of flight between the two waypoints.

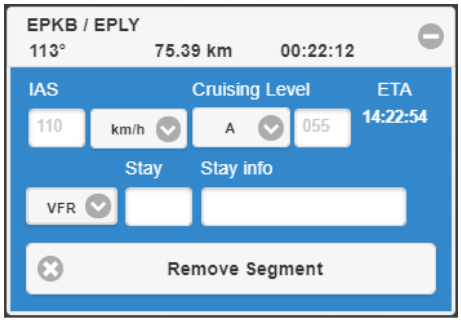


Any route segment (except of the first one) can be re-located to another position within the flight route by use of drag & drop technique. In this way, a sequence order of way points is modified accordingly.

Note

Re-location button is disabled for the first route segment

Use ⊕/⊖ buttons to expand or collapse a section for an entry/modification of parameter values of selected route segment.



The window contains elements to set flight parameters for the respective flight segment as described in the table below.

Note

These elements are not active in the first segment of the flight, and contain values automatically pre-filled from the Flight Log, tab Flight, part Performance (see Section 3.7.1, “Flight Tab ”) where they can be amended as needed.

Control Element	Description
IAS	- A text box to insert IAS for the respective flight segment
Cruising Level	- A text box to insert Cruising Level for the respective flight segment
ETA	- Information on ETA at the final waypoint of the segment
VFR/IFR	- A dropdown list to select flight rules for the respective segment **Note** The drop-down list with the flight rules in a segment where the change of flight rules occured is bordered in red.
Stay	- A text box to insert the time delay between the two segment reporting points in a HHMM format where HH stands for hours and MM for minutes (e.g. a delay of 30 minutes is inserted as 0030). **Note** When creating a FPL (see Chapter 6, *FPL Form Window*) from the flight intention, this value is automatically inserted into the Item 15 of the FPL.
Stay info	- A text box to insert the reason for the delay **Note** When creating a FPL (see Chapter 6, *FPL Form Window*) from the flight intention, this value is automatically inserted into the Item 18 of the FPL.
Remove segment	- A button to delete the respective flight segment

Note

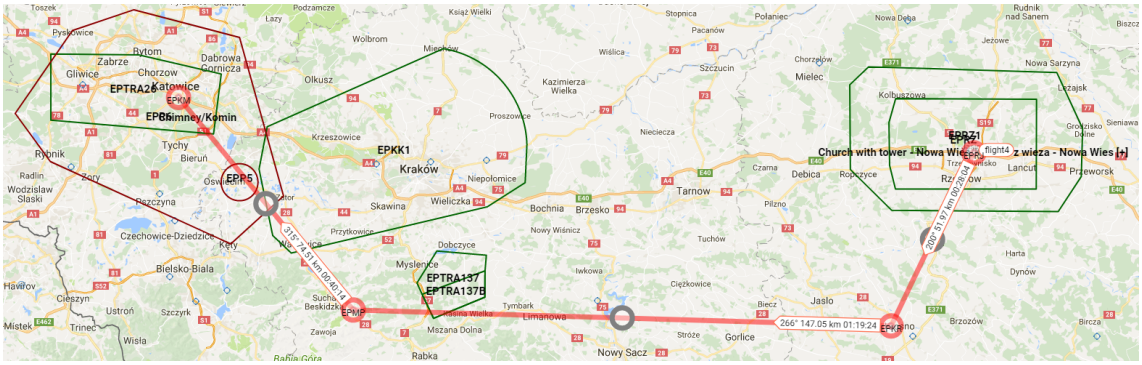
If IAS and Cruising Level are not filled in, the parameters from the tab Flight, part Performance are used by default. If these values are filled in, and differ from the overall flight parameters, they are displayed in the segment strip under the names of waypoints, and are highlighted in red.

3.7.3. Vertical Flight Profile

	- **V-Profile** - Choose the icon to show a vertical projection of the flight route onto [XY] plane (hereinafter to as the V-Profile). For more details refer to the below description. The icon can be found in Flight Log window (see Section 3.7, “Flight Log”).
Route & Conflicts	- Use the button to calculate and display conflicting situations between airspaces (e.g. FUA - AUP/UUP-based) and a proposed FPL route in both horizontal and vertical projections as well as a potential FPL route conflict with a terrain. The button can be found in Flight Plans window (see Current tab of Section 3.8, “Current FPL List/ Flight Plans Window”).

Choose the icon to enable the following functions:

1. **Indication of airspaces** occurring in a specified FBZ of aircraft flight route shown in a map window (see example below) as follows:
   - Airspaces of conformity between the planned flight route and flight rules (green outline of the airspace)
   - Airspaces in conflict with the planned flight route (flashing red outline of the airspace)



2. **View of V-Profile** providing following information:

   - Flight route (yellow line)
   - Segment(s) of flight route not complying with the aircraft performance (red line); a notification message appears notifying on a necessity to change the non-compliant route segment

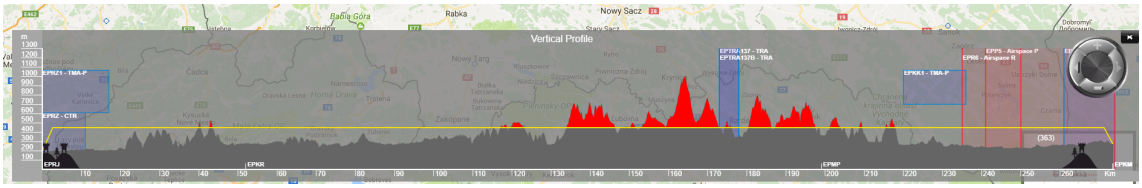
Note

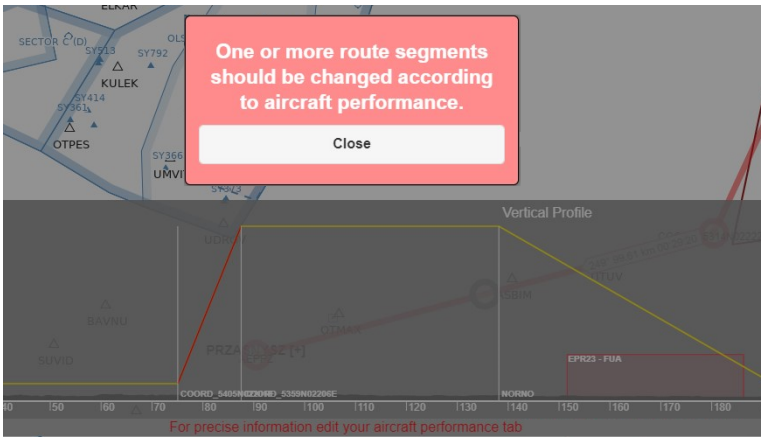
This function is not available for V-profile of the flight route activated by use of "Route & Conflicts" button contained in "Flight Plans" window (see Section 3.8, “Current FPL List/Flight Plans Window”)

   - Conflict Route vs. Terrain (red fill of the terrain peaks)
   - Conflict Route vs. FUA (red fill of the conflict airspace)
   - No conflict Route vs. FUA (blue fill of the airspace)
   - NAVAID positions (indicated by white font)
   - Terrain obstacles including their AMSL height [m] indication

The view can be zoomed in/out or moved left/right by Zoom/Move controls, and closed by the Close button in the upper right corner of the V-Profile. The Close button closes only the vertical

profile window, it does not hide the route from the map. To hide the route from the map, click again the Route & Conflicts button in the strip for the respective FPL (see Section 3.8, “Current FPL List/Flight Plans Window”).





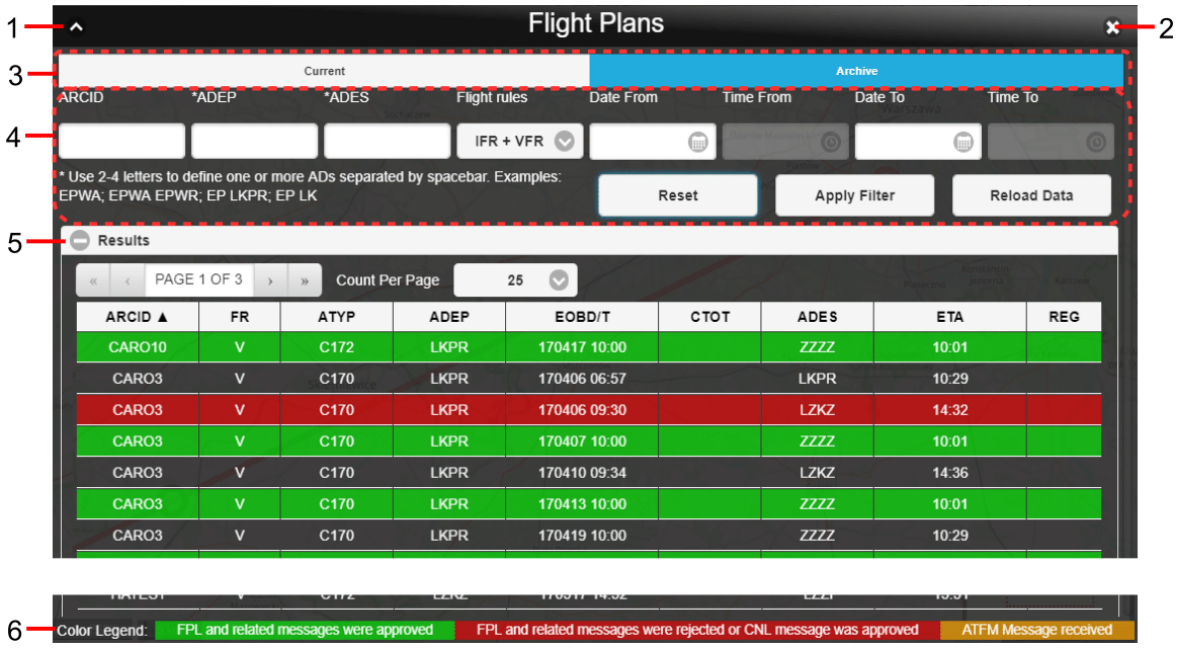
3.8. Current FPL List/Flight Plans Window

	- Click on the icon to open Flight Plans window (see picture below). The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).
	- Click on the FPL interactive indicator to open Flight Plans window (see picture below). The indicator can be found under options of IXOweb Control Bar (see Chapter 2, *Home Screen/Main Window*).

Note

A view of FPL indicator in Control Bar can be enabled (or disabled) through controls of Settings window (see Desktop pane of Section 4.3, “User Settings”).

Flight Plans window provides a list of both FPLs valid for a current day and archived (closed) FPLs. FPLs can be grouped under user-defined criteria for flight data filtering.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Current/Archive** - tabs containing current/archived (closed) FPL lists of a logged-in user; FPLs included in the lists can be sorted under selection criteria (filters) listed in the pane [4]

Tab	Description
Current	- The tab contains following FPLs: • Filed FPLs of flights prior to a/c departure • Active FPLs of ongoing flights (DEP message sent) • Closed FPLs of flights after a/c landing (ARR message received)
Archive	- The tab contains FPLs of all closed flights

4. **Filters** - the pane for a selection of filtering criteria; a "shortlist" of flight plans (or intended flight plans) satisfying your filtering criteria will be shown in the pane [5] (Results).

Filter	Description
ARCID	- The FPLs, pertaining to an aircraft assigned a callsign matching with the specified ARCID filter will be listed in [5]
***ADEP**	- The FPLs, containing an ICAO designator of departure aerodrome matching with the specified ADEP filter will be listed in [5]
***ADES**	- The FPLs, containing an ICAO designator of destination aerodrome matching with the specified ADES filter will be listed in [5]
Flight Rules	- The FPLs, containing flight rules (FR) matching with the specified FR filter will be listed in [5]

Filter	Description
Date From	- The FPLs, whose EOBD is between ["Date From"; "Date To"] values (or, if "Date To" value is not specified the current day is set as the end value), will be listed in [5] **Note** The filter is enabled only for FPLs listed in Archive tab
Date To	- The FPLs, whose EOBD is between ["Date From"; "Date To"] values (or, if "Date From" value is not specified the day of 1st closed FPL is set as the start value), will be listed in [5] **Note** The filter is enabled only for FPLs listed in Archive tab
Time From	- The FPLs, whose EOBT is between ["Time From"; "Time To"] values (or, if "Time To" value is not specified the midnight [00:00] is set as the end value), will be listed in [5] **Note** The filter is enabled only for FPLs listed in Archive tab
Time To	- The FPLs, whose EOBT is between ["Time From"; "Time To"] values (or, if "Time From" value is not specified the midnight [00:00] is set as the start value), will be listed in [5] **Note** The filter is enabled only for FPLs listed in Archive tab

Note

* Note: One ADES/ADEP designator may consist of 2 – 4 characters; you can enter more than one designator into one text box, however they shall be separated from each other by a space character (e.g. EP LKPR)

Button	Description
My FPL	- Only FPLs filed by the currently logged-in user will be displayed in Results (5).
Reset	- Press the button to cancel FPL retrieval by filtering criteria, as a result all FPLs will be listed in in [5]
Apply Filter	- Press the button to show, in [5] just FPLs satisfying the filtering criteria set by the user
Reload Data	- Press the button to update/re-load all FPLs valid for a given day ("Current" tab), or all archived FPLs ("Archived" tab) in [5] as per the set filtering criteria.

5. **Results** - section for a presentation of "shortlisted" flight plans (a collection of flight plans satisfying filtering criteria set by the user)

   Use / buttons to expand/collapse 'Result' section

   FPL list is presented in a tabular form. The table consists of rows (assigned to individual FPLs) and columns (assigned to FPL parameters/attributes). Cells of the header row (showing parameter names) are active control elements to arrange FPLs by a specified parameter in ascending or descending order.

Parameter	Description
ARCID	- Aircraft identifier (Callsign)
FR	- Flight Rules (I - IFR, V - VFR, Y - First IFR, Z - First VFR)
ATYP	- Aircraft Type
ADEP	- Aerodrome of Departure (ICAO)
EOBD/T	- Estimated off-block date/time
CTOT	- Calculated Take-Off Time If an FPL contains this item you can see relating ANM (REG) messages by use of "Related ATFCM Regulation" button (see below description). The button will be enabled upon a click on the selected FPL row. **Note** The item is enabled only for flight regulation through NMOC, i.e. if SAM or SRM message is received for the concerned FPL
ADES	- Aerodrome of Destination (ICAO)
ETA	- Estimated time of arrival
REG	- Registration mark

View the FPL List Content

To see a content of FPL List, use 'Page' control elements on the top of the list (see below picture).

The 'Page' controls enable:

- Fast movement to the first/last page of the list content (by use of >>/<< buttons) and a movement forward/backward by one page (by use of >/< buttons)
- Placement of the list content on a specified page by an entry of the page number into "Page X of Y" text box
- Setting of maximum number of FPLs to be listed on one page by use of "Count Per Page" drop-down menu

Indicate FPL Status

FPL status is in FPL List indicated by a distinct fill colour of an FPL row (strip).

FPL Status Colour Coding:

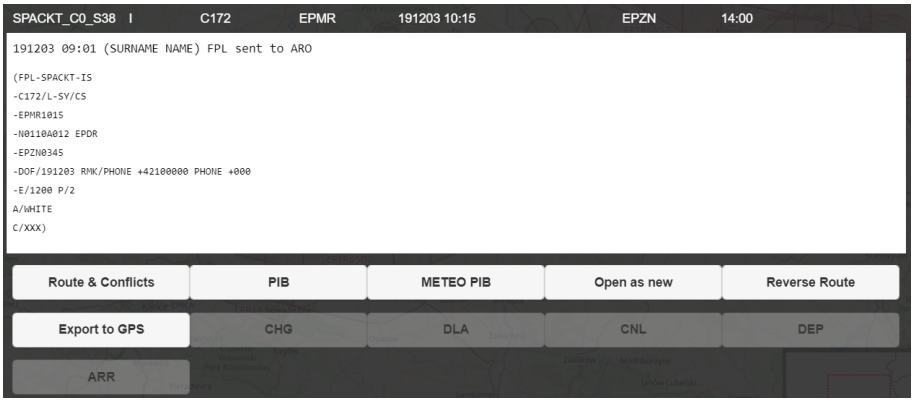
- **GREEN** – indicates "acknowledged" status (ACK) of FPL or FPL-related message (except of acknowledged CNL message)
- **RED** – indicates "rejected" status (REJ) of FPL or FPL-related message, and/or acknowledged CNL message

> **Note**
>
> If an acknowledged CNL message is received for FPL into Current tab, the FPL is moved to Archive tab

- **YELLOW** – ATFM message received
- **GREY** – indicates "waiting for approval" status of FPL or FPL-related message

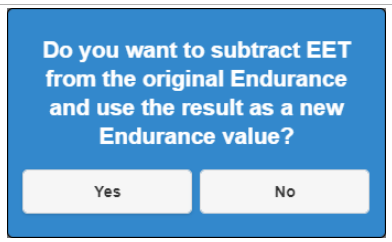
Select FPL

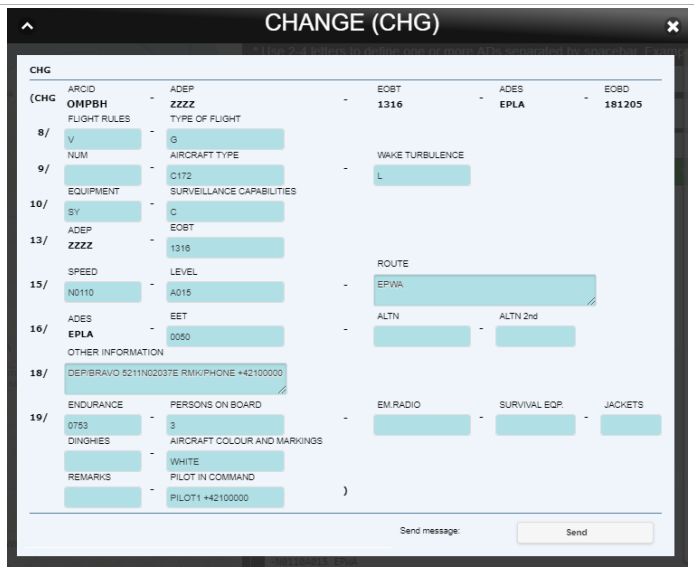
Click on a chosen FPL row to view a content of FPL in textual form; control elements placed below the text field serve for a graphical presentation of a flight route (see picture below).

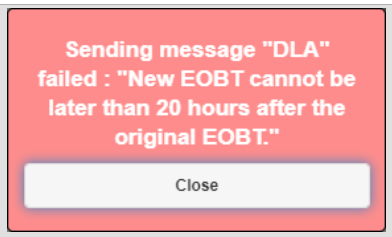
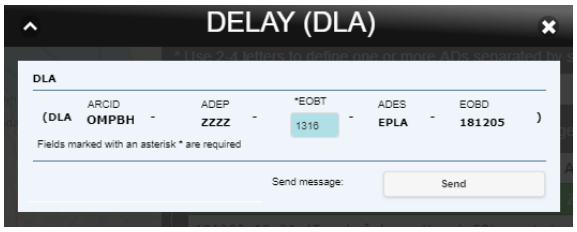
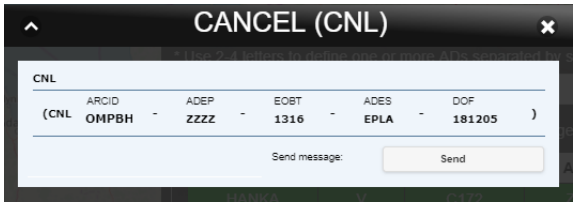


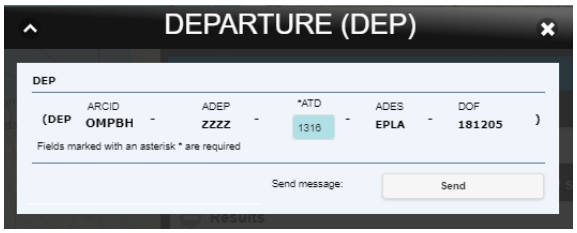
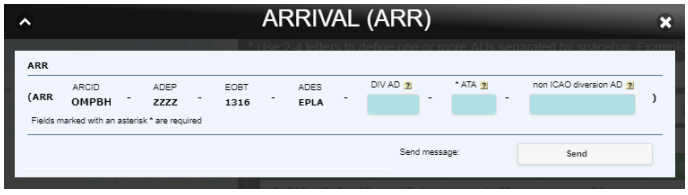
The following table lists optional control elements that may be included in a set of controls for an interaction with a particular FPL depending on both its origin (Current- or Archived- FPLs) and received FPL-related messages.

Control Element	Description
Route & Conflicts	- Toggle button to enable/disable a view of the respective FPL flight route plotted over the map, and to display both vertical and horizontal conflicts between airspace areas (e.g. FUA - AUP/UUP-based), terrain, and the planned flight route. After pressing the button to analyze the respective FPL route, a pop-up window indicating the action appears. Consequently, the respective FPL route and relevant conflicts will be plotted in the map. For more information on the conflicts refer to chapter Section 3.7.3, “Vertical Flight Profile”. **Note** The item is enabled for FPLs contained in Current tab
PIB	- Press the button to open PIB window for a generation of Route PIB message relating to a selected FPL in PDF file format (see Section 3.16, “NOTAM - PIB”). **Note** The item is enabled for FPLs contained in Current tab
METEO PIB	- Press the button to open METEO PIB window for a generation of PIB weather message relating to a selected FPL in PDF file format (see Section 3.15, “METEO PIB”). **Note** The item is enabled for FPLs contained in Current tab
Open as new	- Press the button to open FPL Form containing data entered in a selected FPL. For FPL Form window refer to Chapter 6, *FPL Form Window*.
Reverse Route	- Press the button to open a dialog box to set Endurance value for a return flight (flight back). Choose YES to set a value that equals to the difference between the initial value of Endurance and EET. Choose NO to set the initial value of Endurance. Thereafter, FPL Form window (see Chapter 6, *FPL Form Window*) appears indicating FPL-related values for the return flight.

Control Element	Description
	
Export to GPS	- Press the button to save a flight route of a selected/marked FPL in a *.gpx file format (for use in a GPS device).
Related ATFCM Regulation	- Press the button to open a window containing a list of ATFCM Notification Messages (Regulations) for a selected FPL. For more information refer to Section 3.19, “ATFM - ANM MSG Viewer”. **Note** The item is enabled only if SAM or SRM message is received for a concerned IFR and mixed flight rules FPLs.
Delete	- Press the button to delete a selected FPL from the list. Upon pressing, a dialog box appears requesting to confirm an action of deleting. **Note** The item is enabled only for FPLs with approved ARR or CNL message.
CHG	- Press the button to open CHG form for your modification and/or update of a selected FPL. CHG items are compliant with Doc 4444, App. 2. FPL items allowed to be modified through CHG form indicate values in editable text fields. The height of text boxes containing symbol in the right lower corner, can be modified through dragging the symbol up and down as appropriate (drag & drop technique). When completed press Send to submit the CHG message to ARO. CHG message submission or cancellation shall be confirmed by a dialog window. **Note** When sending a CHG message where EOBT is postponed to the following day, please insert a string DOF/YYMMDD into the item 18 (YY = the last two figures of the calendar year, MM = the calendar month, DD = the following day).

Control Element	Description
	 **Note** The item is enabled for FPLs contained in Current tab **Note** CHG button is enabled just for certain FPL states
DLA	- Press the button to open DELAY (DLA) form for a submission of a message informing on an off-block time delay. DLA items are compliant with Doc 4444, App. 2. EOBT is the only editable item of DLA Form, its entry is mandatory (marked by asterisk). When completed press Send to submit the DLA message to ARO. DLA message submission or cancellation shall be confirmed by a dialog window. **Note** By sending a DLA message, the original EOBT can be delayed by maximum of 20 hours. An attempt to send a DLA message with the EOBT value outside this range will be deemed unsuccessful, and the application will notify the user thereof (see the picture below).

Control Element	Description
	  **Note** The item is enabled for FPLs contained in Current tab **Note** DLA button is enabled just for certain FPL states
CNL	- Press the button to open CANCEL form (CNL) for a submission of a message informing on a selected FPL cancellation. CNL items are compliant with Doc 4444, App. 2. When completed press Send to submit the CNL message to ARO. CNL message submission or cancellation shall be confirmed by a dialog window.  **Note** The item is enabled for FPLs contained in Current tab **Note** CNL button is enabled only for certain FPL states

Control Element	Description
DEP	- Press the button to open DEPARTURE form (DEP) for a submission of a message informing on a change of actual time of departure (ATD) as that of basic FPL. DEP items are compliant with Doc 4444, App. 2. ATD is the only editable item of DEP Form, its entry is mandatory (marked by asterisk). Current UTC time is automatically inserted into the ATD field. When completed press Send to submit the DEP message to ARO. DEP message submission or cancellation shall be confirmed by a dialog window.  **Note** The item is enabled for FPLs contained in Current tab and just for certain types of users **Note** DEP button is enabled only for certain FPL states
ARR	- Press the button to open ARRIVAL form (ARR) for a submission of a message informing on a change of landing parameter values as that of basic FPL. ARR items are compliant with Doc 4444, App. 2. FPL items allowed to be modified through ARR Form indicate values in editable text fields. Insertion of ATA item is mandatory (marked by asterisk). If ZZZZ is entered in the DIV AD field, the Non ICAO Diversion AD field is enabled. Click on the question mark ? to open a tooltip containing information about the item clicked upon. When completed press Send to submit the ARR message to ARO. ARR message submission or cancellation shall be confirmed by a dialog window.  **Note** The item is enabled for FPLs contained in Current tab and just for certain types of users

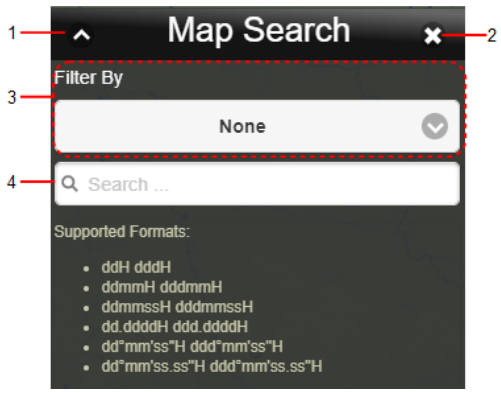
Control Element	Description
	Note ARR button is enabled only for certain FPL states

6. **Colour Legend** - Colour coding of FPL states in the pane [5]; for colour coding refer to description of Legend item 5, Results hereinabove

3.9. MAP - Map Search

	- Click the icon to open Map Search window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode MAP (see Chapter 2, *Home Screen/Main Window*).

Map Search window serves for a search and retrieval, in a database of important places/sites and SDO objects (hereinafter to as entities) of entities to be then shown on a map.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Drop-down menu - a menu of options for a selection of desired entity(ies) to be shown on a map. Following options are available:

Note

An entity can optionally be searched either in a database as a whole, or in a radius of a configurable value (by default set to 500 km) from the centre of the map currently displayed in Map Window. The search mode may be selected by use of WORLDWIDE SEARCH icon (toggle) contained in Control Bar of IXOweb's Main Window (see Chapter 2, *Home Screen/Main Window*). This cannot be applied when searching by geographic coordinates. The maximum number of searched objects is 500.

Entities can also be searched by their position (geographic coordinates).

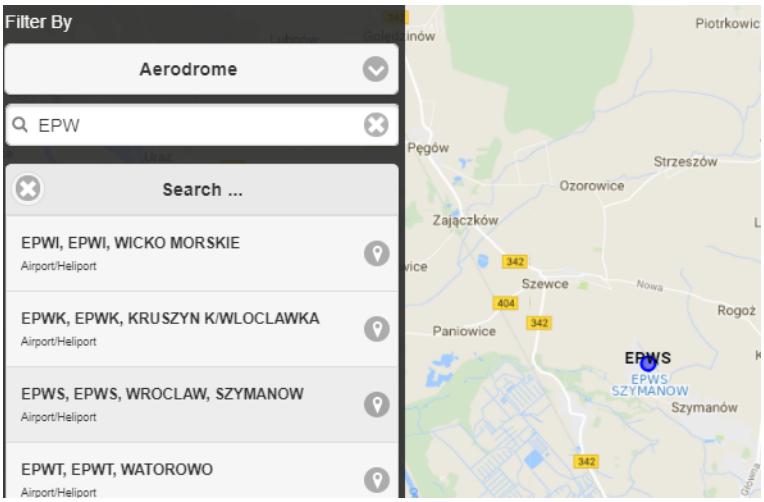
When entering position values use one of supported data formats as follows:

Supported Data Format	Description
ddH dddH	dd/ ddd - Degrees
ddmmH dddmmH	mm - Minutes
ddmmssH dddmmssH	ss - Seconds
dd.ddddH ddd.ddddH	.dddd - 4 decimal places of decimal degrees value
dd°mm'ss"H ddd°mm'ss"H	.ss - 2 decimal places of decimal seconds value
dd°mm'ss.ss"H ddd°mm'ss.ss"H	H - Designator of Earth's hemisphere, where: S = South N = North W = West E = East

4. Search field – text box for an entry of a search string to initiate a search for entities in selected database. Enter at least three characters to initiate a search for important places. If you wish to search for SDOs insert at least two characters. SDO database enables a search for objects and their attributes in accordance with the table below:

SDO Item	Parameter 1	Parameter 2	Parameter 3	Parameter 4
Aerodrome/ Heliport	CODE_ID	CODE_ICAO	CODE_IATA	TXT_NAME_CITY_SER
Airspace	CODE_ID	TXT_NAME		
VOR	CODE_ID	TXT_NAME		
NDB	CODE_ID	TXT_NAME		
DME	CODE_ID	TXT_NAME		
TACAN	CODE_ID	TXT_NAME		
DPN	CODE_ID			
Enroute	TXT_DESIG			

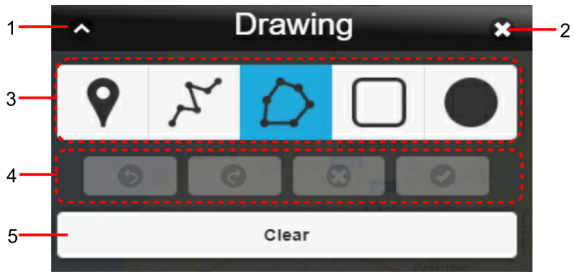
Finally, retrieved entities will be listed below the Search Field. Click on the row of a chosen entity to re-centre your map view to a position of this entity; concurrently, such entity will be highlighted on a map.



3.10. MAP - Drawing

	- Click the icon to open Drawing window (see picture below) and to activate "drawing" mode of operation. The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode MAP (see Chapter 2, *Home Screen/Main Window*).
	- Ring + Skewed arrow pointer indicating active DRAW mode for object/area drawing (plotting)
Cancel DRAW mode	- To cancel DRAW mode, close Drawing window. As a result, ring pointer reverts to its default shape.

Drawing window enables to choose, from a menu of plane geometry shapes an option by use of which you can draw (plot) objects/areas on a map.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window followed by a return of the application to standard mode of operation
3. Drawing Tool Bar
4. Drawing Control Bar; containing icons to perform actions with an object being drawn as listed in the below table

Icon	Description
	- Restore the last editing action
	- Reverse the last editing action
	- Delete the drawn object
	- Apply the drawn object; when clicked upon the Enter Feature Name window (see below picture) appears to enter an object name

5. Delete button; to erase plotted objects from the map

Draw Techniques to create 2D shapes

1. **Point**

   Single click in a map window to locate a point. As a result, a window appears for an entry of the point's name (see picture below).

2. **Poly-Line/Polygon**

   Click in a map window a succession of points representing vertices of polygon/poly-line you want to create; double-tap the final point to finish the object drawing. To control drawing of objects use items contained in Drawing Control Bar. After that, a window appears for an entry of the open/ closed poly-line name (see picture below).

3. **Circle/Rectangle**

   By use of drag & drop technique, move a selected point (representing a vertex of rectangle, or a centre of circle) across a map until reaching a required size of a drawn object. To finish the object drawing, release the button. After that, a window appears for an entry of the circle/rectangle name (see picture below).

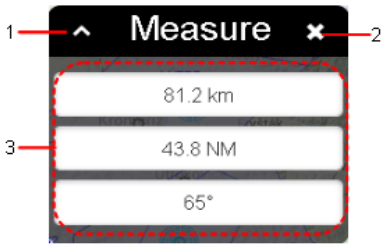
Press Confirm button to see in a map window your drawn 2D object with its assigned name.

Press Cancel button to remove the drawn object from the map view.

3.11. MAP - Measurement

	- Click the icon to open Measurement window (see picture below) and to activate "measuring" mode of operation. The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode MAP (see Chapter 2, *Home Screen/Main Window*).
	- Square + Skewed arrow pointer indicating active MEASURE mode for measurement of distances between objects on a map.
Cancel MEASURE mode	- To cancel MEASURE mode, close Measurement window. As a result, square pointer reverts to its default shape.

Measurement window enables to measure distances between objects/points on a map, and to present measured values to the user.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window followed by a return of the application to standard mode of operation
3. Measured Values – the pane showing currently measured values of:
   - Distance – total length in [km]
   - Distance – total length in [NM]
   - Azimuth – the angle in [°] referring to the last line segment

Measuring Technique:

1. Pick (by clicking), in a map window a spot to locate first point of measuring distance/angle and then continue picking/tapping next measuring points while plotting a line/poly-line.

2. Double-click on the final point to finish your measurement

Important

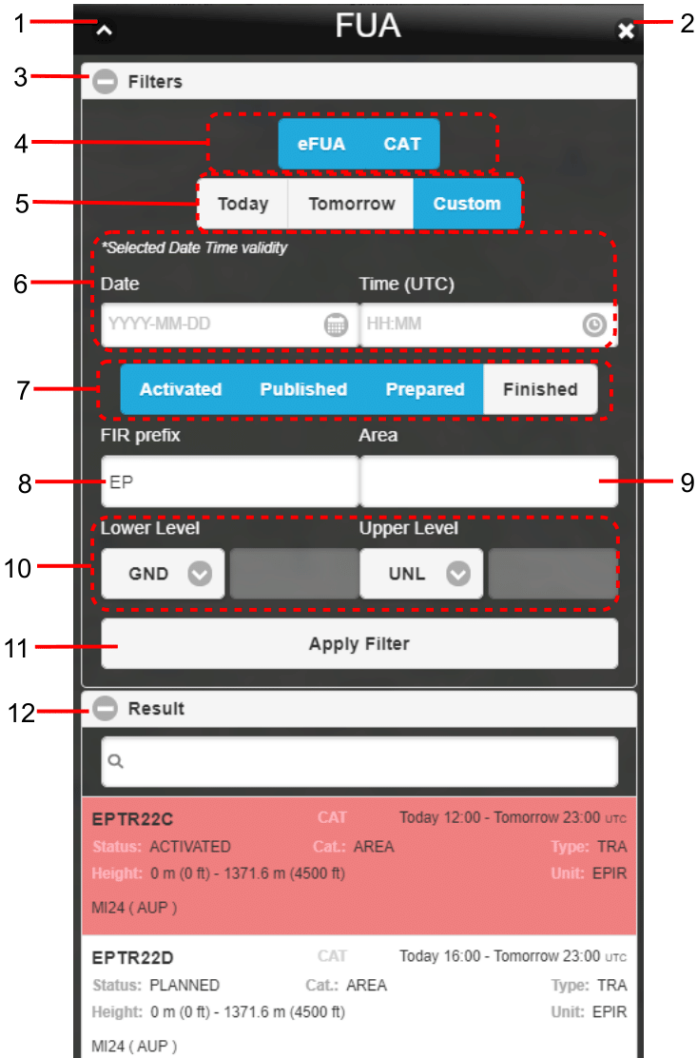
Every next measurement discards the previous one

3.12. FUA

- Click the icon to open FUA window (see the below picture). The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).

FUA window enables to view temporary reserved areas (Temporary Areas) sorted by specified filtering criteria as follows:

- Within Europe except of Poland – ASM message list on flexible airspace allocation containing daily European AUP and UUPs (FUA Europe - eFUA) received from NM B2B;
- Within Poland - ASM message list on flexible airspace allocation over EPWW FIR containing Polish AUP/UUPs received from CAT (FUA Poland);



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Filters** - the section for a choice of selection criteria by which ASM messages will be sorted in Result section. After opening the FUA window, this section is automatically expanded and displays all messages according to pre-set (default) filter settings.

   Use ⊕/⊖ buttons to expand/collapse Filters section
4. Toggle buttons to show/hide following types of ASM messages in Result section[11]:

eFUA ASM messages on flexible airspace allocation over European countries (FUA Europe) received from NM B2B

> **Note**
>
> The eFUA button is pre-selected by default.

CAT ASM messages on flexible airspace allocation over EPWW FIR (FUA Poland) received from CAT

Note

The CAT button is pre-selected by default.

5. Toggle buttons to show, in Result section [11] the ASM messages satisfying one of the below listed Time Filters:

Today Choose the option to show ASM messages valid for the present day, i.e. from Today at 06:00 to Tomorrow at 06:00 (UTC)

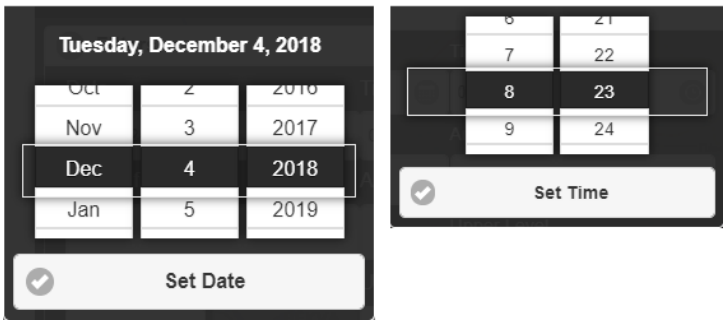
Note

The Today button is pre-selected by default.

Tomorrow Choose the option to show ASM messages valid for the day following the present day, i.e. from Tomorrow at 06:00 to the Day after Tomorrow at 06:00 (UTC)

Custom Choose this option to show ASM messages valid for the day of your choice (UTC) by use of controls that appear upon clicking the option.

6. **Time Filter** – to set the Date & Time (UTC) of FUA allocation validity, use and icons. When clicked upon, Calendar/Clock control appears for a selection of date/time group as appropriate.



Move up or down, in Date/Time list by use of mouse wheel. Currently selected date/time gets highlighted. To confirm your choice press Set Date/Set Time button.

7. Toggle buttons to show/hide ASM messages according to the FUA status (Activated/Published/ Prepared/Finished) in Result section [12]:
8. **FIR prefix** - enter an ICAO prefix of the FIR. Only messages related to the selected FIR will be listed in the Result section [12]

Note

The EP FIR is pre-selected by default.

9. **Area** - enter the name or identifier of Temporary Area. To search for a particular area, you may enter a partial string starting from the first character. Only ASM messages related to airspaces starting with this string will be displayed in the Result section [12].

10. **Lower/Upper Level** - enter FL band (specified by lower and upper FL values) of flights within Temporary Areas, ASM messages of which you want to be listed in Result section [12]; message filtering by FL will be applied upon pressing Apply Filter button [11]

    The following options are available:
    - GND - Ground (for "Altitude From" only)
    - UNL - unlimited altitude (for "Altitude To" only)
    - F - Flight level, expressed as "F" followed by three numbers (e.g., F055 means FL 055)

Note

The vertical limits from GND – UNL are pre-selected by default.

11. **Apply Filter** – use the button to show, in Result section [12] a list of ASM messages satisfying filtering criteria as specified in this section
12. **Result** - the section contains a list of ASM messages satisfying filtering criteria as specified in the Filters section. After opening the FUA window, this section is automatically expanded and displays all messages according to pre-set (default) filter settings in the Filters section (see description above). Text box, placed above the list, serves as "search-as-you-type" text filter enabling to include, into the list only messages containing a specified string of characters. This filtering method is based on suggesting the search results while typing letters, i.e. the list is automatically adjusted after each typed letter.

Note

If no message satisfying specified filtering criteria is available, "NIL" will be indicated in Result section [12].

Use buttons to expand/collapse Result section

Content of ASM Message:

eFUA (FUA Europe) - Each row of Result List contains one ASM message of the following content:
- Airspace Designator; Identifier of a temporary allocated airspace to which the ASM message relates
- **"eFUA"** indicator showing that the message is received from NM B2B and it relates to airspace over the European territory (FUA Europe)
- Start and End Date/Time (UTC) of activation of airspace reservation
- Lower/Upper FL (FL Band)
- Airspace Reservation Phase

CAT (FUA Poland) - Each row of Result List contains one ASM message of the following content:
- Airspace Designator; Identifier of a temporary allocated airspace to which the ASM message relates
- **"CAT"** indicator showing that the ASM message is received from CAT
- Start and End Date/Time (UTC) of activation of airspace reservation
- **Status** - Airspace Reservation Phase
- **Cat.** - Category of airspace structure (e.g. AREA, ROUTE, etc.)
- **Type** - Type of flexible airspace structure (e.g. TSA, TRA, etc.)

- **Height** - Lower/Upper FL (FL band)
- **Unit** - The organization utilizing temporary reserved airspace when activated
- A type of flight activity in the reserved airspace

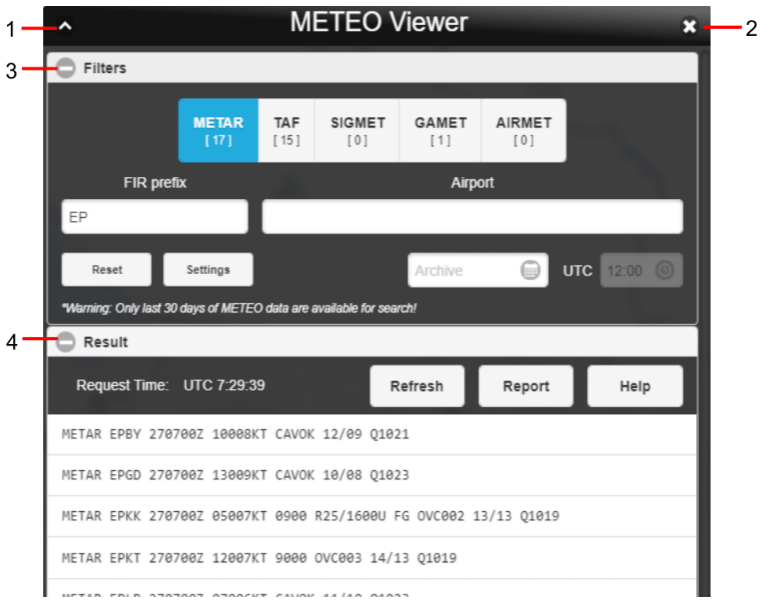
View Temporary Area on Map

Click on a row of ASM message listed in Result section to zoom the map view into the AMS message-related Temporary Area.

3.13. METEO - METEO Viewer

	- Click the icon to open METEO Viewer window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode METEO (see Chapter 2, *Home Screen/Main Window*).

METEO Viewer window provides a list of current weather messages (METAR, TAF, SIGMET, GAMET, AIRMET) in textual form. The list is regularly updated and its content may vary depending on selection criteria (filters) for messages retrieval set by the user.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Filters - section for a choice of selection criteria for messages retrieval (filtering options)

   Use ⊕/⊖ buttons to expand/collapse Filters section

   Upon an entry of retrieval criteria (filters) all messages satisfying them will be listed in Section 4. For example, active METAR filter means that only METAR messages will be retrieved and displayed in Section 4. The following filtering options are available for messages retrieval:

   - **Message** – activate appropriate message type, following options are available: METAR, TAF, SIGMET, etc. The number [N] displayed on the button represents the number of messages of each type that fulfil the criteria of the current filter settings.

Note

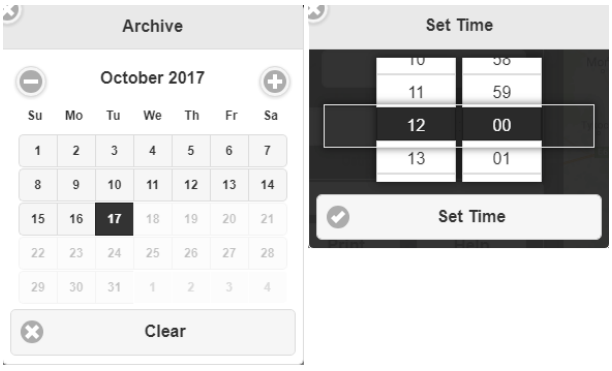
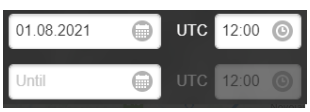
Default value is activated automatically, and it can be changed in User Settings window (see Section 4.3, “User Settings”).

- **FIR prefix** – enter a FIR prefix

Note

Default value is set automatically, and it can be changed in User Settings window (see Section 4.3, “User Settings”).

- **Airport** – enter ICAO designators of one or more aerodromes

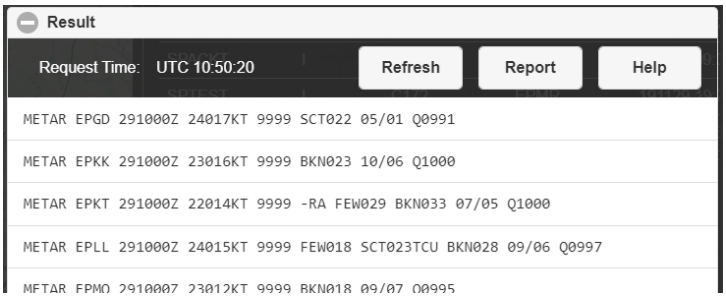
Control	Description
Reset	- The button resets the current filter settings to the default values according to User Settings (tab METEO Viewer, see Section 4.3, “User Settings”). To quickly open the User Settings window, use the Settings button (see description below).
Settings	- The button opens the User Settings window where the METEO Viewer window parameters can be defined. This setting is applied in the METEO Viewer window by pressing the Reset button (see description above). For detailed description of the User Settings window, see Section 4.3, “User Settings”.
Archive	- Click on icon to open a calendar (see picture below) for a selection of time period for which a view of historical MET messages will be enabled in METEO Viewer window.  As a result, the icons and will be activated which can be clicked upon to set the date/ UTC time interval during which the archived Met messages will be listed in Result section (see Legend item 4).  The messages listed in Result section can further be sorted by filtering criteria available in Filters section (see Legend item 3). Archived (historical) data is, in

Control	Description
	the section indicated by a string "Archived Data". To close the list of archived messages click on Clear button in the calendar window. **Note** MET data archiving period is 30 days

4. **Result** - section for a presentation of retrieved list of METEO messages satisfying your selection criteria.

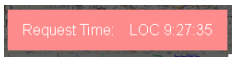
Note

If no METEO messages are available, NIL is displayed in Result.



Use / buttons to expand/collapse Result section

A set of meteorological information contained in Result rows can be changed by use of control elements of Section 3.

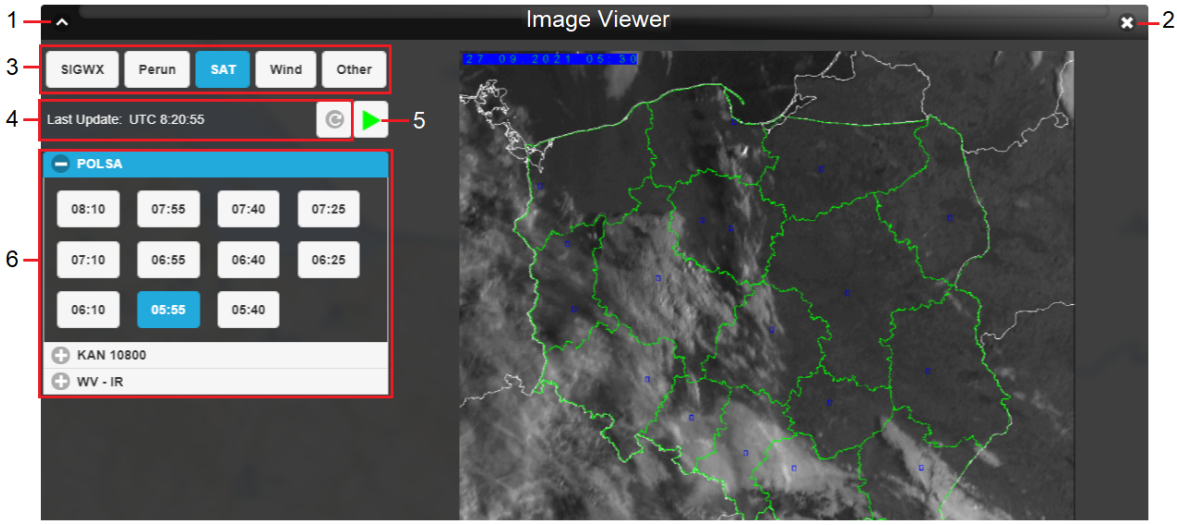
Button	Description
Refresh	- Press Refresh to update data listed in Section 4. An indicator, on the right of Refresh button indicates the time of the last request for data update. The time format is of UTC or LOC type depending on active time format set at Time Indicator of Control Bar (see Chapter 2, *Home Screen/Main Window*). **Note** The interval after elapse of which the application indicates that server data may be updated can be set in the IXOweb's configuration file. The request for data update is indicated by highlighted display and flashing digits on Time Indicator. 

Button	Description
Report	- Press Print to open METEO Report window displaying a list of current weather messages in PDF file format. The window contains controls for saving the PDF document as a soft/hard copy.
Help	- Press the button to open Help window providing instructions (in PDF file format) how to decode MET messages.

3.14. METEO - Image Viewer

- Click the icon to open Image Viewer window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode METEO (see Chapter 2, *Home Screen/Main Window*).

Image Viewer window enables to view available current weather images (e.g. images received from satellites and radar systems, meteorological charts, etc.).



Legend:

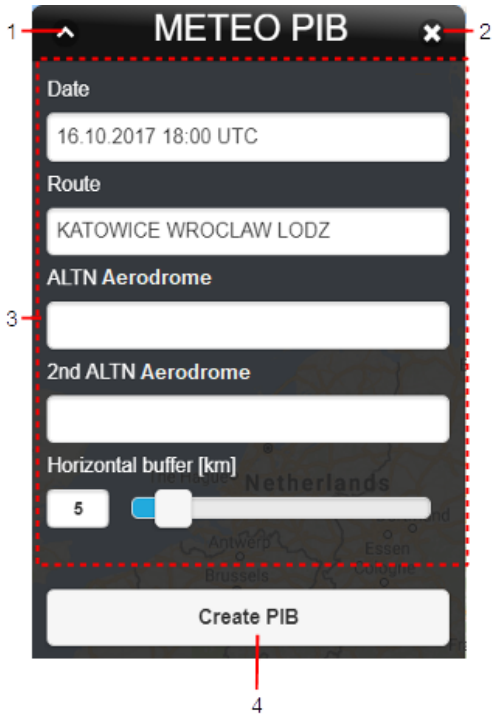
1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. Radio buttons to select the requested type of weather images.
4. Time (UTC) of the latest data update presented in the window, and the button to update the data. If newer data than the ones displayed in the window are available, the application notifies the user thereof by displaying a text warning and highlighting the time of the last update (see the picture below).

5. A button to play /stop a meteorological animation within the selected sub-menu/category (item 6). The functionality is available from the third picture in the respective category.
6. Sub-menus (categories) of different types of weather images. Each image within the sub-menu has its own button with the time at which the image was created. The image is displayed by clicking its respective button.

3.15. METEO PIB

METEO PIB	- Click the button to open METEO PIB window (see picture below) for a selected FPL. The button can optionally be found in an FPL row of Flight Plans window (see Section 3.8, “Current FPL List/Flight Plans Window”).

METEO PIB window provides a collection of control elements to specify a content of weather PIB message followed by its generation and display in PDF file format.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Set MET PIB** pane; to specify a content of Weather PIB message for a selected FPL. The only item allowed to be modified is Horizontal Buffer (see description below). The remaining items contain values of the FPL for which MET PIB window has been activated. These values are not editable.

   Horizontal Buffer - text box/slider for an entry/adjustment of a horizontal width value of a flight corridor for which weather information shall be provided
4. **Create PIB** – press the button to open METEO PIB Report window showing METEO PIB message in PDF file format for saving it as a soft/hard copy. The message is generated by use of available weather data.

3.16. NOTAM - PIB

	- Click the icon to open PIB window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode NOTAM (see Chapter 2, *Home Screen/Main Window*).
PIB	- Press the button to open PIB window (see picture below) for a selected FPL. The button can be found in FPL row of Flight Plans window (see Section 3.8, “Current FPL List/Flight Plans Window”).

Note

In such a case, only a Narrow Route PIB can be created.

PIB window provides a set of control elements to specify a content of PIB message followed by its generation in PDF file format.

Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **PIB Menu** – the pane containing forms for a completion of the following types of PIB messages:
   - **AD** - Aerodrome type message
   - **Area** - Area/FIR type message
   - **Route** - Route type message
   - **Narrow Route** - Narrow Route type message
4. **PIB attributes** - the pane listing items (attributes) to be included in a PIB message selected in [3]; the items they may be contained in PIB message are described thereinafter. If any of the mandatory PIB parameters is not defined (e.g. ADEP, ADES, Flight Rules, etc.), the respective field or parameter name is highlighted in red and the Create PIB [5] button is inactive.
5. **Create PIB** – press the button to open a window showing the newly generated PIB message (as specified in [4]) in PDF file format for saving it as a soft/hard copy. At the same time, the file will be, automatically sent to the e-mail box of a logged-on user.

Note

The Create PIB button is active only when all mandatory parameters in the PIB form [4] are filled in (e.g. ADEP, ADES, Flight Rules, etc.). If any of the mandatory PIB parameters is not defined, the respective field or parameter name is highlighted in red.

Note

Should the export of PIB message (to *.pdf) take more time than convenient the PIB message will be sent to the user's e-mail box without displaying it on the screen

NOTAM Sorting Order

NOTAM messages are sorted, in PIB in the following order of precedence:

- AD messages (for aerodromes)
- Route messages (for FIRs and aerodromes)
- Nav-Warnings (for FIRs and aerodromes)

NOTAMs can be, in PIB sections listed in one of the following sorting orders:

- If Sorting Indicator by Q-Code is active, NOTAMs are listed in ascending or descending alphabetical order (ASC/DESC toggle)
- If Sorting Indicator by "MSG-No" is active, NOTAMs are listed in ascending or descending order (ASC/DESC toggle) by their sequence number (SEQ NO)
- If Sorting Indicator by "Date" is active, NOTAMs are listed in ascending or descending order (ASC/DESC toggle) by the date/time of their validity commencement.

While producing PIB you can retrieve and include, in PIB the valid SNOWTAM messages for selected aerodromes at the given time. SNOWTAM is a special NOTAM series notifying a presence or elimination of hazardous conditions associated with snow, slush and ice on the movement areas of an airport. If no SNOWTAM is issued such aerodrome is assigned indicator: 'SNOWTAM: NIL'.

Attributes/Items for a PIB generation are as follows:

Service Type

To generate PIB, include NOTAM messages retrieved by the service type

Service Type	Description
Full	- All NOTAMs, except of NOTAM C, satisfying specified sorting criteria (see the below PIB items) will be included in PIB

ADEP/ADES

Enter the ICAO code of departure/destination aerodrome for which the NOTAMs are to be retrieved and included in PIB

ADs (Aerodromes)

Enter a list of ICAO designators of aerodromes satisfying sorting criteria for NOTAM inclusion into the PIB; aerodrome designators shall be separated from each other by a space character (e.g. EPWA EPWI EPLL).

Alternate Aerodromes

Enter a list of ICAO designators of alternate aerodromes satisfying sorting criteria for NOTAM inclusion into the PIB; aerodrome designators shall be separated from each other by a space character (e.g. EPWA EPWI EPLL).

FIRs (Flight Information Regions)

Enter a list of ICAO designators of FIRs satisfying sorting criteria for NOTAM inclusion into the PIB; FIR designators shall be separated from each other by a space character (e.g. LZBB EPWW).

Route description

Type details on flight route

PIB prepared for

Enter a name/title of a person/entity to whom the message concerns. The name will be shown in the PIB header.

Note

The name of the logged-on user is set, by default. To modify the name choose Profile section of User Settings window (see Section 4.3, “User Settings”).

Flight Level (FL) - Area PIB

Specify the FL limit satisfying sorting criteria for NOTAM inclusion into PIB, i.e., insert values of the actual vertical FL interval taking into consideration a specified FPL buffer zone (by use of the spinner Buffer +/-).

Item	Description
Upper	- Enter the upper limit of the vertical FL interval. To set the value either (1) type numerals into text field, or (2) use a slider.
Lower	- Enter the lower limit of the vertical FL interval. To set the value either (1) type numerals into text field, or (2) use a slider.

If the sorting criterion for NOTAMs is FIR, the selected NOTAMs shall satisfy values specified for FL limit regardless of an aerodrome. However, if a sorting criterion is AD, the selected NOTAMs are not checked for FL limit, just whether or not they relate to a specified aerodrome.

Flight Level (FL) - Route/Narrow Route PIB

Set the same FL limit for the entire flight route, i.e. for all route segments by marking the "All segments identical" check box. As a consequence, the FL values inserted for the first route segment will be automatically applied to the all remaining segments. When "All segments identical" check box is unmarked, insert FP values for the first segment (First SEG), middle segments (Mid SEGs) and last segment (Last SEG) of the route individually. The FL limit set in this way is the actual vertical FL

interval taking into consideration a specified FPL buffer zone (by use of the spinner Buffer +/-) for which the NOTAMs will be retrieved and included in PIB.

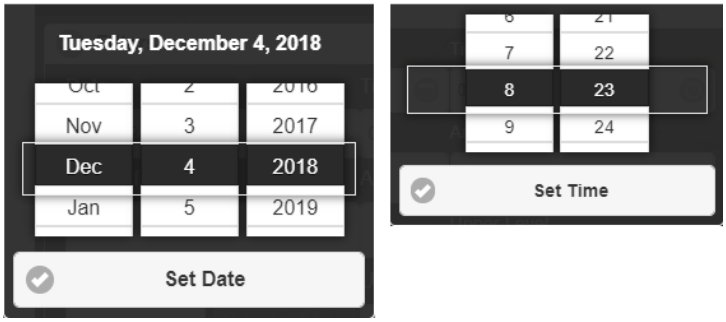
Item	Description
Upper	- Enter the upper limit of the vertical FL interval. To set the value either (1) type numerals into text field, or (2) use a slider.
Lower	- Enter the lower limit of the vertical FL interval. To set the value either (1) type numerals into text field, or (2) use a slider.

If the sorting criterion for NOTAMs is FIR, the selected NOTAMs shall satisfy values specified for FL limit regardless of an aerodrome. However, if a sorting criterion is AD, the selected NOTAMs are not checked for FL limit, just whether or not they relate to a specified aerodrome.

Validity

Enter the start date/time (FROM) and end date/time (TO) of NOTAM validity. All NOTAMs that are valid within FROM – TO interval will be included in the PIB.

To set date and time use and icon, respectively. Upon clicking the respective icon the calendar/ clock window appears to perform required actions.



Move up or down, in Date/Time list by use of mouse wheel. Currently selected date/time gets highlighted. To confirm your choice press Set Date/Set Time button.

Briefing Type

Select the type of NOTAM briefing for an inclusion into PIB; available options: International series, national series, military briefing

Flight Rules

A selection of flight rules according to the weather conditions. If no selection is made, NOTAMs will not be sorted by flight rules.

Parameter	Description
V: VFR	- NOTAMs selection for VFR flight
I: IFR	- NOTAMs selection for IFR flight

Scope

It specifies a scope of the PIB. This non-editable item relates the NOTAM subject to a specific scope. It is automatically set according to a category/section under which the NOTAM is presented inside a PIB.

Parameter	Description
A: Aerodrome	- Aerodrome: Retrieval of NOTAMs referring to the scope of aerodromes
E: En-Route	- En-route: Retrieval of NOTAMs referring to the scope of en-route information
W: Nav-Warnings	- Warning: Retrieval of NOTAMs referring to the scope of navigation warnings. Such NOTAMs will be inserted at the end of the PIB. Messages will be retrieved separately for FIR and AD.

Purpose

Purpose relates NOTAM to certain purposes, allowing users to define retrieval criteria in accordance with their requirements.

Parameter	Description
N: Immediate Notification	- NOTAM selected for the immediate attention of aircraft operators
B: Bulletin Purpose	- NOTAM selected for standard PIB entry
O: Operational Significance	- NOTAM contains operationally significant information referring to flight operations
M: Misc. Information	- NOTAM contains "miscellaneous" information referring to aerodrome and will not be included in PIB unless specifically requested. NOTAM contains "miscellaneous" information referring to FIR and will not be included in PIB unless specifically requested. NOTAM contains "miscellaneous" information referring to warnings and will not be included in PIB unless specifically requested.

PIB Requirements

Select sorting criteria for an inclusion of NOTAM messages in a PIB.

Parameter	Description
All NOTAM(s)	- Enable toggle button if you wish to retrieve 'All NOTAMs' for inclusion into PIB
NOTAM(s) not older than [days]	- Enable toggle button if you wish to retrieve 'NOTAMs not older than' a specified number of days for inclusion in PIB. To set the number of days (1) type numerals into text field, or (2) use a slider.
Include SNOWTAMs	- Check the box if you wish to include SNOWTAM messages from the PIB.
Sort (NOTAMs) by	- Select the option to sort NOTAMs for an inclusion in a PIB by: • **Q-Code** - the Q-code alphabetical order • **MSG No** - the sequence number (SEQ NO/SN) of NOTAM message • **Date** - the date and time of NOTAM validity commencement
Sorting Order	- Select the option to list NOTAMs in a PIB in:

Parameter	Description
	• **ASC** – NOTAMs are listed in ascending order for an active "Sort (NOTAMs) by" option (see above) • **DESC** - NOTAMs are listed in descending order for an active "Sort (NOTAMs) by" option (see above)

NOTAM Q-Codes

Select NOTAMs for an inclusion in (or exclusion from) a PIB by Q-Code filter. To do this, enter the Q-Code to the "Q" text boxes. To delete the inserted Q-Code value use button.

Parameter	Description
Include Q-codes	- Include into PIB only NOTAMs with specified Q-Code values
Exclude Q-codes	- Exclude from PIB the NOTAMs with specified Q-Code values

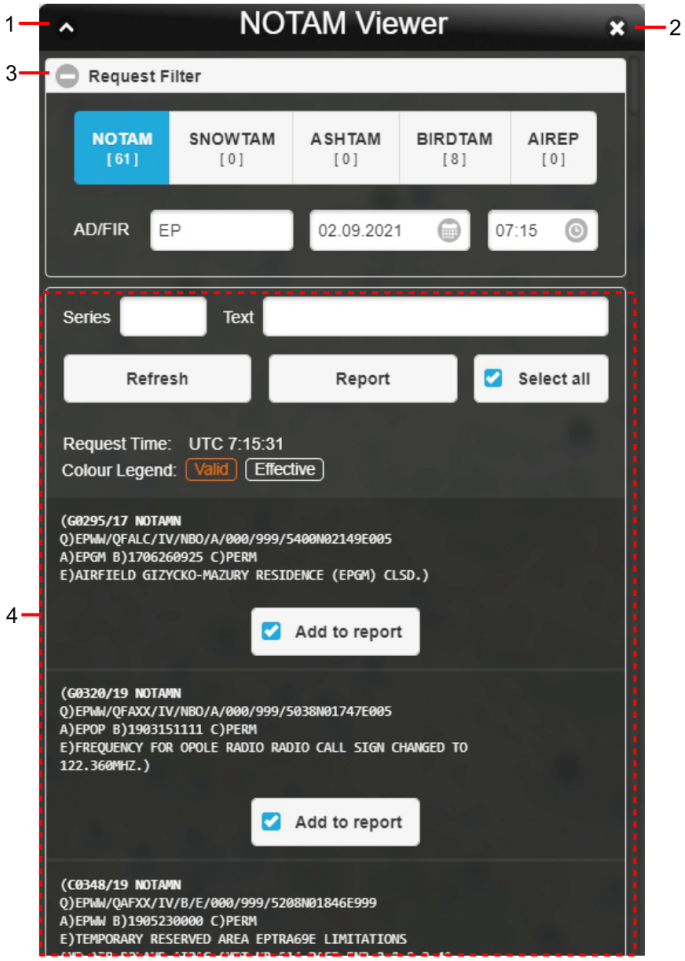
Route Buffers

Parameter	Description
Corridor Width	- Enter a value of the width of FPL Buffer Zone
Radius Around AD	- Enter a value of the radius of the circle representing an aerodrome area

3.17. NOTAM - NOTAM Viewer

	- Click the icon to open NOTAM Viewer window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode NOTAM (see Chapter 2, *Home Screen/Main Window*).

NOTAM Viewer window enables to view a list of X-TAM messages retrieved under specified filtering criteria.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Request Filter** - the section for a choice of selection criteria for messages retrieval (filtering options)

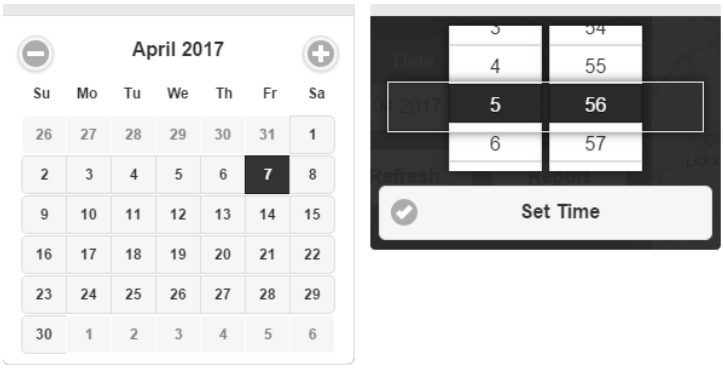
Note

After opening "NOTAM Viewer" window a retrieval of NOTAM messages is, automatically accomplished by: (1) Message type; (2) Date/time (UTC), and (3) AD/FIR selection (see the text below).

Use buttons to expand/collapse Filters section

Following filtering options are available for messages retrieval:

- **Message Type** – a set of toggles to select a type of a message to be contained in the list, following options are available: NOTAM, SNOWTAM, ASHTAM, BIRDTAM, AIREP. The number [N] displayed on the button represents the number of currently available messages of each type that fulfill the criteria of the current filter settings.
- **AD/FIR** – Select ICAO designator of an aerodrome/FIR; you can insert one or more ICAO designators (or abbreviations) at once; the designators shall be separated from each other by a comma. Upon NOTAM Viewer window opening an "EP" value is shown by default.
- **DATE/TIME** – select an effective time (UTC) of the message validity; a current date/time value is shown by default upon NOTAM Viewer window opening. To set the date and time use and icon, respectively. Upon clicking the respective icon the calendar/clock window appears to perform required actions.



The currently selected date/time values are highlighted in the calendar/clock windows. The date value is automatically accepted by selecting it. To set the appropriate time value use the mouse wheel to scroll up and down in Hour/Minute list. Finally, confirm your choice by pressing Set Time.

Retrieval of messages under selected filtering criteria (filters) is performed automatically and all messages satisfying them will then be listed in Section 4. If no message satisfies the set filtering criteria a string "NIL" is shown in Section 4.

4. **NOTAM List** - a section (pane) for a presentation of retrieved NOTAM messages satisfying your selection criteria (see Legend item 3). The Request Time, shown over the list indicates the time of the last request for update of data contained in the list.

Note

If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the NOTAM messages list. These message types are colour coded, the colours being pre-set in the configuration file.

Following filtering options are available in the list for message sorting:

Note

Search is case-insensitive.

- **Series** – text box to insert a code of the message series (e.g. A)

Note

Available only for NOTAM messages

- **Text** – text box for an entry of a text string contained in E) part of the message.

Control elements for a manipulation with the message list are listed in the below table.

Control element	Description
Add to Report	- Check "Add to Report" box for a selection of a message to be added to/removed from NOTAM List, a content of which will be converted into PDF file format upon pressing Report button (see description below). To select all messages in NOTAM List check "Select All" box (see description below).
Select All	- Check the box to select all messages in NOTAM List for their inclusion into a PDF document to be generated upon pressing Report button (see description below). To select messages individually use "Add to Report" box (see description above).
Refresh	- Press the button to apply a selected filter and to update NOTAM List (i.e. to send a new request for an update of data listed in NOTAM list)
Report	- Press the button to open NOTAM Report window displaying a PDF document listing all NOTAM messages currently selected in NOTAM List. The window contains controls for saving the document as a soft/hard copy.

3.18. ATFM - AIM MSG Viewer

	- Click the icon to open AIM List window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode ATFM (see Chapter 2, *Home Screen/Main Window*).

AIM List - the window enables to view a list of available AIM messages including historical messages retrieved under specified filtering criteria.

Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **TIME Filter (OPS Day)** – the text box for an entry/selection of "the Day of Operation", i.e. the date of AIM List validity (see Legend Item 5). To set the date use icon. Upon clicking the icon a calendar window appears (see picture below) to set the AIM validity date. To view archived messages choose a date before the present day.

Note

A present day is set for AIM filtering by Validity Date as a default.

The selected validity date value is highlighted in the calendar window. The value is automatically accepted by selecting it. Thereafter, all messages satisfying TIME filtering criterion will be listed in AIM MSG List (see Legend item 5). If no message satisfies the TIME filter a string "NIL" is shown instead. To discard sorting by TIME press Clear in the calendar window.

4. **TEXT Filter** - a text box for an entry of a text string by which the messages will be searched, retrieved and listed in AIM MSG List (see Legend item 5). If no message satisfies the TEXT filter a string "NIL" is shown instead.

5. **AIM MSG List** - presenting AIM messages retrieved under both TIME and TEXT filter (see Legend items 3 and 4). The List header contains "Released" item – indicating the date/time stamp (UTC) associated with the last request for update of messages contained in the list, and "Count" – indicating an amount of messages currently contained in the list.

Note

If no message satisfies the TIME/TEXT filter a string "NIL" is indicated in the list.

Show/Hide the Message Content

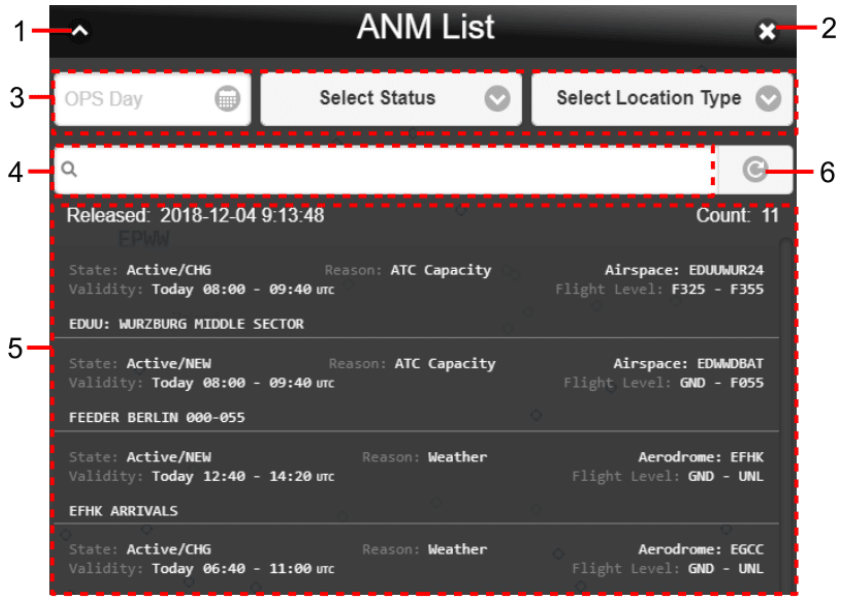
Click on a message row in AIM MSG list to show/hide a content of the concerned message.

6. **Update** icon - press to update AIM MSG List under specified filtering criteria (i.e. send a new request for an update of data contained in AIM MSG list).

3.19. ATFM - ANM MSG Viewer

	- Click the icon to open ANM List window (see picture below). The icon can be found under Main Menu options (see Chapter 3, *Main Menu*) and/or in the Control Bar for the respective mode ATFM (see Chapter 2, *Home Screen/Main Window*).

ANM List - the window enables to view a list of available ANM messages notifying of ATFCM regulations (including historical messages) retrieved under specified filtering criteria.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Filter Bar** - containing options for a choice of filtering criteria under which messages will be retrieved and sorted

Note

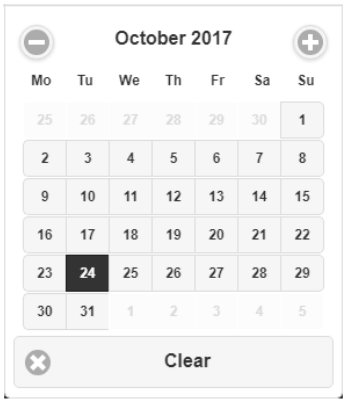
A present day is set for ANM filtering by Validity Date as a default.

Note

If no message satisfies your filtering criteria a string "NIL" is indicated in ANM MSG List.

Following filtering options are available for message sorting:

- **TIME Filter (OPS Day)** – the text box for an entry/selection of "the Day of Operation", i.e. the date of an ANM validity. To set the date use icon. Upon clicking the icon a calendar window appears (see picture below) to set the ANM validity date. To view archived messages choose a date before the present day.



The selected validity date value is highlighted in the calendar window. The value is automatically accepted by selecting it. Thereafter, all messages satisfying TIME filtering criterion will be listed in ANM MSG List (see Legend item 5).

- **Select State** – choose this option to select a state of a message (NEW, CANCEL, CHANGE); as a result, only messages satisfying the selected "State" filter will be listed in ANM MSG List (see Legend item 5).
- **Select Location Type** – choose this option to select a ground/air object (e.g. aerodrome, airspace, etc.) for which the message has been issued. As a result, only messages satisfying the selected "Object" filter will be listed in ANM MSG List (see Legend item 5).

4. **TEXT Filter** - a text box for an entry of a text string by which the messages will be searched, retrieved and listed in ANM MSG List (see Legend item 5). If no message satisfies the TEXT filter a string "NIL" is shown instead.
5. **ANM MSG List** - presenting ANM messages retrieved under both TIME and TEXT filter (see Legend items 3 and 4). The List header contains "Released" item – indicating the date/time stamp (UTC) associated with the last request for update of messages contained in the list, and "Count" – indicating an amount of messages currently contained in the list.

Note

If no message satisfies the TIME/TEXT filter a string "NIL" is indicated in the list.

Show/Hide the Message Content

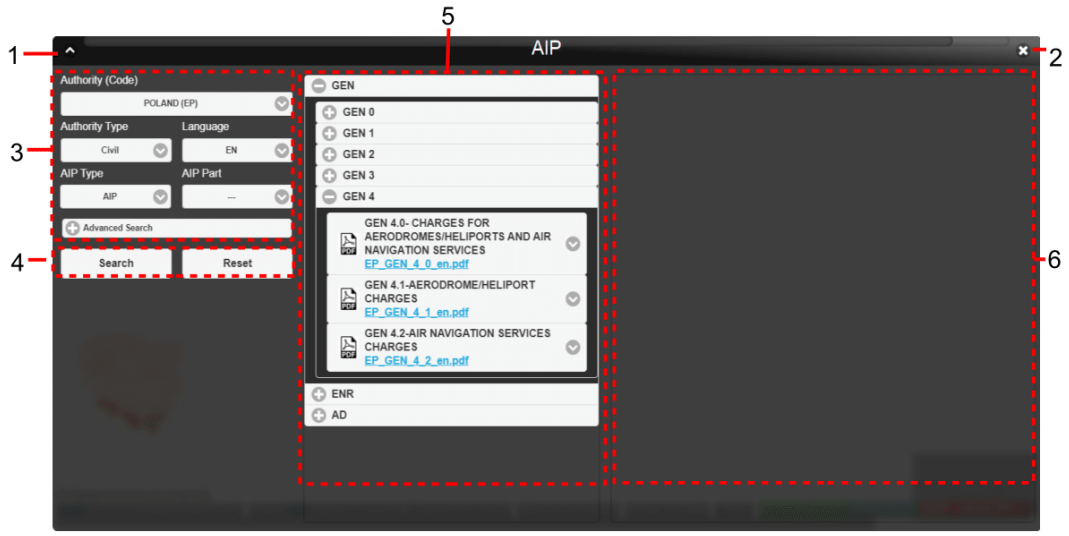
Click on a message row in ANM MSG list to show/hide a content of the concerned message.

6. **Update** icon - press to update ANM MSG List under specified filtering criteria (i.e. send a new request for an update of data contained in ANM MSG list).

3.20. AIP List

	- Click the icon to open AIP window (see picture below) providing an access to AIP documents. The icon can be found under options of Main Menu (see Chapter 3, *Main Menu*).

AIP window provides an access to such documents as regulations, procedures, charts and other information pertinent to flying aircraft in the particular country to which it relates. AIP window enables to group the documents into categories (e.g. regulations, charts, etc.) as required and to present them in PDF file format.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Filters** - a section containing controls to set filtering criteria to be used for a retrieval of AIP documents.

   Following filtering options are available for national AIP DOC retrieval:

Control	Description
Authority (Code)	- Drop-down menu to select a code of the Authority that issued the AIP.
Authority Type	- Drop-down menu to select a type of the Authority that issued the AIP.
Language	- Drop-down menu to select the language of the AIP.
AIP Type/ Part	- Drop-down menu to select the type of AIP document or its part.
Advanced Search	- Section containing advanced search options to look up particular AIP document according to its date of publication (Effective date), name of the document (Document Name), and its author (Document heading). Use ⊕/⊖ buttons to expand/collapse the section.

4. **Search** - a button to search relevant AIP documents according to the selected filter criteria.

Reset - a button to reset the selected filter criteria (see Filters, Legend Item 3).

5. **AIP List** – a collection of selected AIP documents satisfying the filtering criteria (see Filters, Legend Item 3).

   Use

   buttons to expand/collapse the respective AIP category (e.g. GEN, ADMT, etc.).

   Use

   buttons to show/hide the information about respective AIP document.

6. **AIP Viewer** - upon selecting/marking a desired AIP document, its content will appear on the screen in PDF file format (see picture below). AIP Viewer contains controls for saving the document as a soft/hard copy.

Chapter 4. Settings Menu

	- The icon located in an upper right corner of IXOweb Main Window (see Chapter 2, *Home Screen/Main Window*) represents application's Settings Menu accessible upon clicking it. As a response, a menu of options appears (as shown on the picture below).

Settings Menu provides an access to IXOweb functions (menu items) needed for a setting of data to be displayed within the application (see picture below).

Note

Settings Menu layout, and a set of items to be included in Settings Menu and/or their optional inclusion in Control Bar (see Chapter 2, *Home Screen/Main Window*) are specified by the actual IXOweb configuration.

Settings Menu can comprise any combination of any of following items:

Icon	Description
	- Layers window to set layers to be displayed in map window (see Section 4.1, “Layers”)
	- Update window to set update rate of data to be displayed in a map window (see Section 4.2, “Data Update”)
	- User Settings window to set global features of IXOweb application (see Section 4.3, “User Settings”)
	- Help window to provide immediate and interactive help to the IXOweb user
	- FL Filter window to set flight level filter of data to be displayed in IXOweb application (see Section 4.4, “FL Filter”)

Icon	Description
	- Logout of currently logged-in user of IXOweb application (see Section 1.3, “Logout”)

4.1. Layers

	- Click the icon to open Map settings window (see picture below). The icon can be found under options of Settings Menu (see Chapter 4, *Settings Menu*).

Map settings window enables a setting of layers to be displayed in Map Window.

Legend:

Note

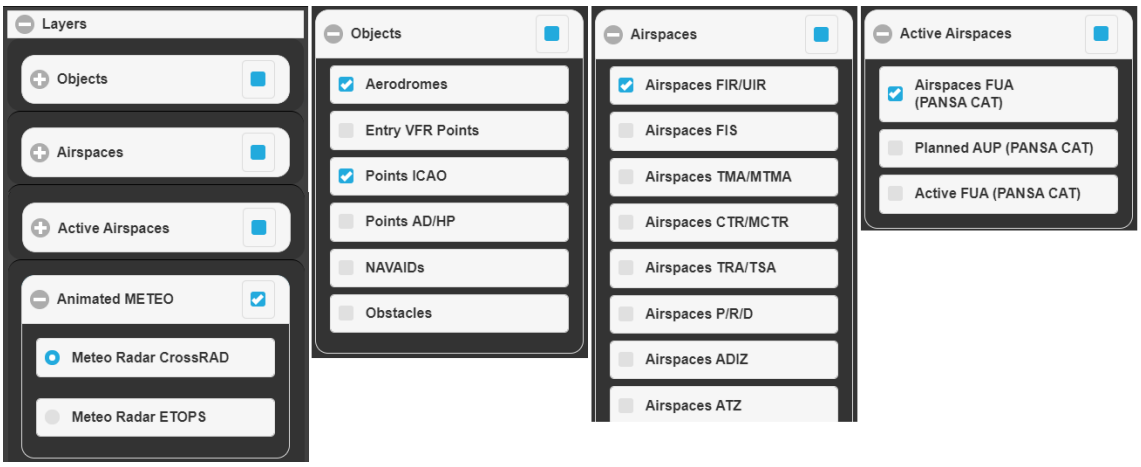
Names of layers shown on below pictures need not correspond to the names shown on your IXOweb screen as 'name' is a parameter configurable through IXOweb configuration file. A set of layers to be displayed in Layers Window can be configured through IXOweb config file, as well. A content of a layer may vary depending on data availability.

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Layers** – the list of transparent static/dynamic data layers that can be selected to be displayed in the map. A combination of any available layers can be displayed by checking respective box(es) next to the layer name(s). The layers are grouped in logical sub-menus as listed in the table below. Checking/unchecking the box next to the sub-menu name displays/hides all layers contained in the sub-menu simultaneously, all layers contained in the sub-menu will be enabled/disabled.

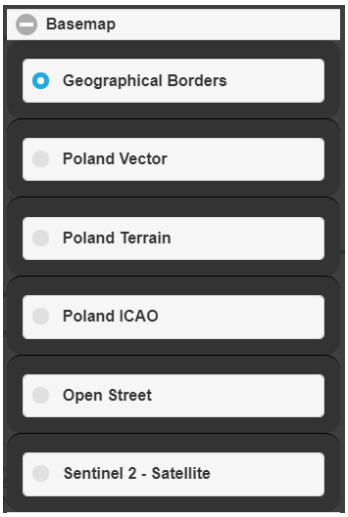
Sub-menu	Description
Objects	- AIS sub-menu contains layers of objects stored in AIS DB (e.g. aerodrome location, etc.).
Airspaces	- Airspaces sub-menu contains layers of AIS DB areas/airspaces (e.g. FIR, TMA, etc.).
Active Airspaces	- **Note** If the FUA mode is selected in the application, the Active Airspaces sub-layers are automatically displayed/hidden depending on the status of the toggle button „Currently/

Sub-menu	Description
	Tomorrow“ in the control bar of the application (see Chapter 2, *Home Screen/Main Window*). The sub-menu contains following layers: • **Airspaces FUA (PANSA CAT)** - (FUA Europe) - A layer containing specified Activated and Planned FUA areas over the European territory (EAUP/EUUP). Activated/Planned FUA areas are colour-coded, the colour is adjustable in a config file. Attributes of a selected FUA area can be seen in an enabled layer via a tooltip. Following attributes are provided: Name/Identifier, Lower/Upper FL and Validity Period. A distinct colour is used for each of Activated and Planned FUA areas, the colour is adjustable in a config file. • **Planned AUP (PANSA CAT)** - (FUA Poland) - A layer containing specified Planned FUA areas over the Polish territory (EAUP/EUUP-for Poland). You can open a tooltip in an enabled layer providing a list of FUA messages pertaining to a selected FUA area. Information contained in the tooltip is identical to that of FUA window (see Section 3.12, “FUA”). A fill colour of FUA area is adjustable in a config file. • **Active FUA (PANSA CAT)** - (FUA Poland) - A layer containing specified Activated FUA areas over the Polish territory (EAUP/EUUP-for Poland) You can open a tooltip in an enabled layer providing a list of FUA messages pertaining to a selected FUA area. Information contained in the tooltip is identical to that of FUA window (see Section 3.12, “FUA”). A fill colour of FUA area is adjustable in a config file.
Animated METEO	Animated METEO sub-menu contains layers of the latest animated METEO data from a continuously updated database, one layer corresponding to one type of animated METEO pictures. The layers can be selected by radiobuttons, i.e. only one layer at a time can be selected and displayed in the map window. For each selected layer, the respective animation can be played or paused using (Play) / (Pause) buttons. At the end of the animation, the last METEO picture of the series remains displayed in the map.

The picture below presents an example of Layer List as specified in the table above.



4. **Basemap** – the menu for a setup of a basemap to be displayed in Map Window. The menu contains a list of basemaps providing a background of geographic context for the content you want to display in a map. When creating a new map, you can choose which basemap you want to use – just one option can be selected from a menu of options. Then, the selected basemap is checked in the list and displayed in Map Window. The picture below presents an example of Basemap Layers list.



Note

Displaying of static and dynamic data in the IXOweb application is described in Chapter 8, *Data Displayed on Map*.

Creation of User-Defined Map Layers

The user (or a group of users) is allowed to specify its own list of map layers. For description of user's map layer definition refer to chapter "Mapset Source Configuration" of Operational Manual, IntegratedWebBriefing.

4.2. Data Update

- Click the icon to open Refresh window (see picture below). The icon can be found under options of Settings Menu (see Chapter 4, *Settings Menu*).

Refresh window enables to set update rate of data to be displayed in a map window.

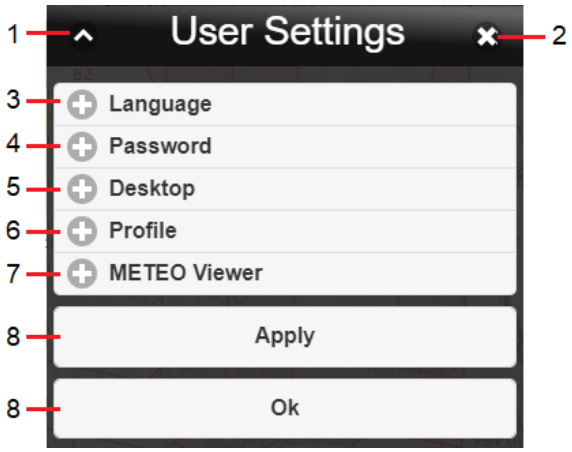
Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Update Rate** – menu of options allowing to set the frequency of data update; following options are available: 1 min, 5 min, 30 min, or "Off" (no update).
4. **Refresh now** – to update data immediately upon pressing the button

4.3. User Settings

- Click the icon to open User Settings window (see picture below). The icon can be found under options of Settings Menu (see Chapter 4, *Settings Menu*).

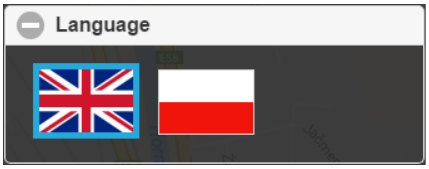
User Settings window enables a setting of IXOweb global features by the user, for the same user the settings will be restored upon the application re-start.



Legend:

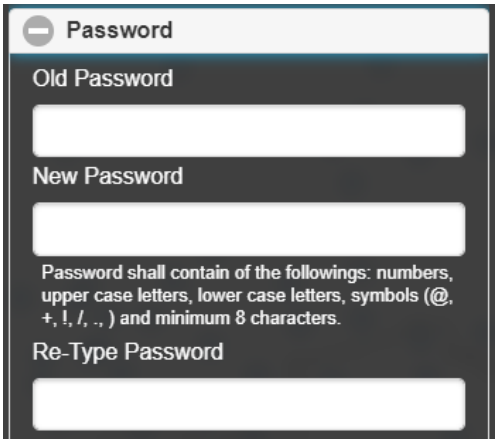
1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **Language** – the section for a selection of the language of the user's interface

   Use ⊕/⊖ buttons to expand/collapse 'Language' section



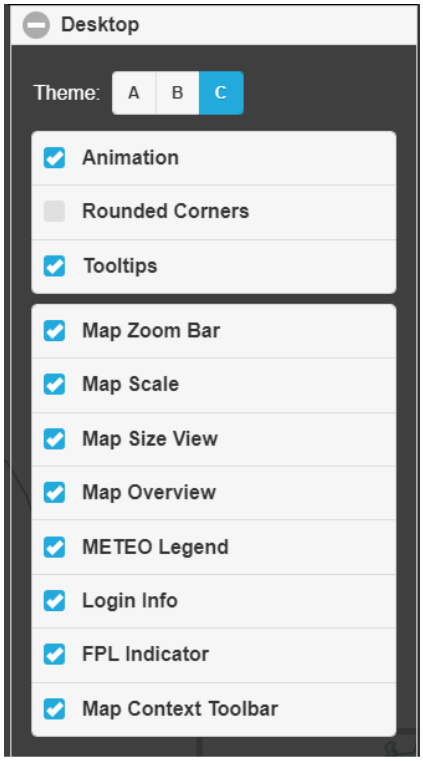
4. **Password** – the section to set a password of a currently logged-in user. Password shall contain of the followings: numbers, upper case letters, lower case letters, symbols (@, +, !, /, .,) and minimum 8 characters.

   Use ⊕/⊖ buttons to expand/collapse 'Password' section.



5. **Desktop** – the section to set values of desktop appearance features

   Use ⊕/⊖ buttons to expand/collapse 'Desktop' section.



Control	Description
Theme	- Menu of options for a selection of the theme in which windows and control elements will be displayed within the application
Animation	- Check the box to enable/disable animations when displaying windows
Rounded Corners	- Check the box to enable/disable a display of rounded corners of windows

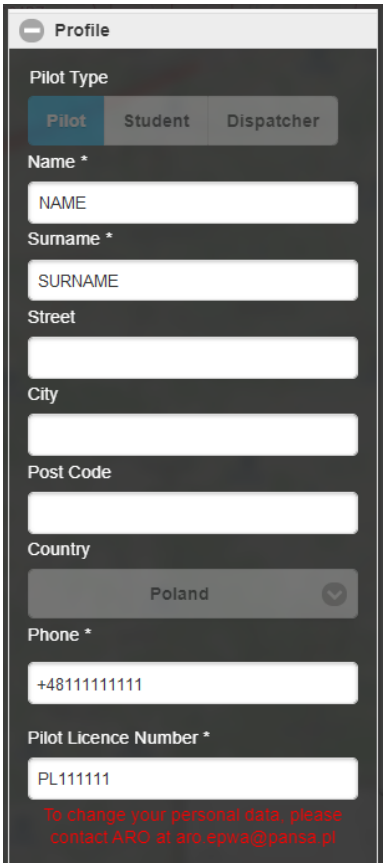
Control	Description
Tooltips	- Check the box to enable/disable a display of tooltip(s) for buttons/icons of Main Menu and Settings Menu. Tooltip provides information about the item being hovered over.
Map Zoom Bar	- Check the box to enable/disable the map zoom buttons (+/-) in the Control Bar (see Chapter 2, *Home Screen/Main Window*).
Map Scale	- Check the box to enable/disable a view of map scale in Information Bar (see Chapter 2, *Home Screen/Main Window*)
Map Size View	- Check the box to enable/disable an indication of a size of map view in Information Bar (see Chapter 2, *Home Screen/Main Window*)
Map Overview	- Check the box to enable/disable a view of map overview (red rectangle) in Main Application Window (Chapter 2, *Home Screen/Main Window*)
METEO Legend	- Check the box to enable/disable a display of METEO Legend in Information Bar (see Chapter 2, *Home Screen/Main Window*). For description of the Legend items refer to Section 8.2, “Dynamic Data” .
Login Info	- Check the box to enable/disable a display of Login Info indicator in Control Bar (see Chapter 2, *Home Screen/Main Window*).
FPL Indicator	- Check the box to enable/disable a display of FPL Indicator in Control Bar (see Chapter 2, *Home Screen/Main Window*).
Map Context Toolbar	- Check the box to enable/disable a display of Tool Bar for currently active mode of Map Window view (MAP, NOTAM, METEO, FUA). Tool Bar can be found in Control Bar (see Chapter 2, *Home Screen/Main Window*).

6. **Profile** – to set the account parameters of a currently logged-in user. The address and the licence number are editable, and the mandatory fields are marked with an asterisk.

Note

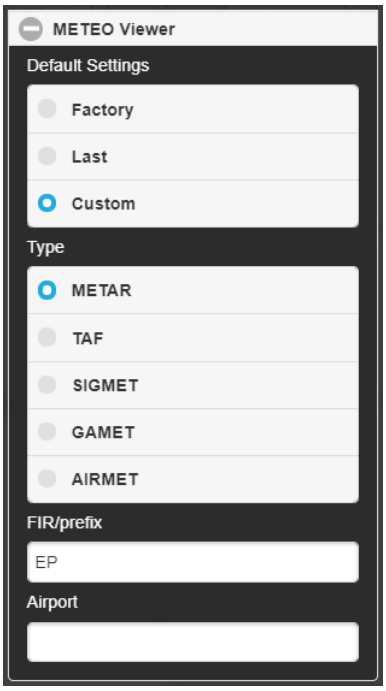
To change other user data, please contact ARO (aro.epwa@pansa.pl), the account administrator of IXOweb registered users.

Use ⊕/⊖ buttons to expand/collapse 'Profile' section.



7. **METEO Viewer** - the section for a selection of retrieval criteria (filters) to be set by default in METEO Viewer Window

   Use ⊕/⊖ buttons to expand/collapse 'METEO Viewer' section.

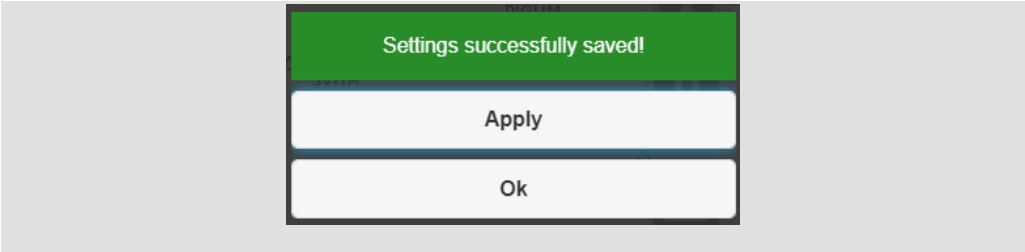


Control	Description
Default Settings	- Radiobuttons to select the pre-defined setting of the METEO Viewer window: **Factory** - The default setting of the METEO Viewer window filter **Last** - The latest setting of the METEO Viewer window filter **Custom** - The customized setting of the METEO Viewer window filter. Selecting this option activates radiobuttons to set Type, and text boxes to fill in FIR prefix and Airport (see detailed description below).
Type	- List of types of weather messages for a selection the one to be set in METEO Viewer window by default **Note** The radiobuttons activate when selecting Custom in Default Settings (see description above).
FIR/prefix	- A text box for an entry of FIR identifier or FIR prefix to be set in METEO Viewer window by default **Note** The text box activates when selecting Custom in Default Settings (see description above).
Airport	- A text box to set a default Airport ICAO location indicator in the METEO Viewer window. **Note** The text box activates when selecting Custom in Default Settings (see description above).

8. **Apply/OK** – click to save your settings. Upon clicking OK, the changes done in the window will be saved, and the User Settings window will close automatically. Upon clicking Apply, the changes will be saved and the User Settings window remains open to allow for further changes in settings. After saving, the changes will be immediately applied, and stored upon the application re-start.

Note

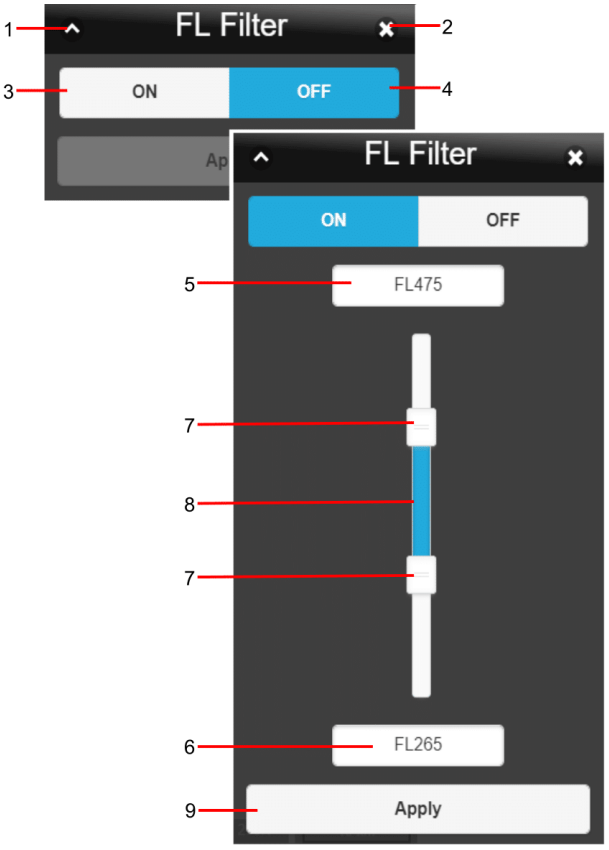
When the change is successfully stored, the user is notified thereof (see example below) by a time-limited notice which disappears within several seconds.



4.4. FL Filter

- Click the icon to open FL Filter window (see picture below). The icon can be found under options of Settings Menu (see Chapter 4, *Settings Menu*).

FL Filter window enables to set flight level (FL) filter for AIS data to be displayed within IXOweb application.



Legend:

1. **Minimize button**; to reduce the current window to a Taskbar button
2. **Close button**; to close the window
3. **ON** - Filtering ON; press the button to enable controls for an entry of FL filtering criteria (FL Filter)
4. **OFF** - Filtering OFF; press the button to cancel (nullify) the active FL Filter in use. A picture compiled of data matching to all FLs will be updated in Map Window. Concurrently, the FL Filter indicator (red triangle) will disappear from Control Bar (see the below picture, Legend item 9).
5. **FL …** - text box for an entry of upper flight level; optionally, the box indicates FL value set by use of the slider (Legend item 7)

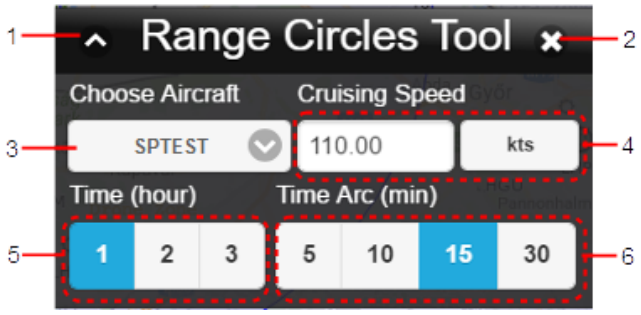
6. **FL …** - text box for an entry of lower flight level; optionally, the box indicates FL value set by use of the slider (Legend item 7)
7. **Slider**; to set a value of upper/lower flight level
8. **FL Range Indicator**; to indicate adjusted FL range
9. **Apply** – press the button to apply FL band adjusted by use of the slider (see item 7 below) or text boxes (see items 5, 6). As a consequence, a picture satisfying the applied FL band ("FL Filter") will be updated in Map Window (i.e. only data matching with the selected FL band will be presented). The user is notified about the active FL Filter by a red triangle with exclamation mark shown in Control Bar. When hovering the cursor over the triangle, an infotip appears providing details on the FL Filter activation (see the picture below). Click the tooltip to display the FL Filter window to set the required vertical limits.

Chapter 5. Flying Range Window

- Click the icon to activate "CC Net" mode of operation to show/hide flying range circles of selected aircraft. The icon can be found in Control Bar (see Chapter 3, *Main Menu*).

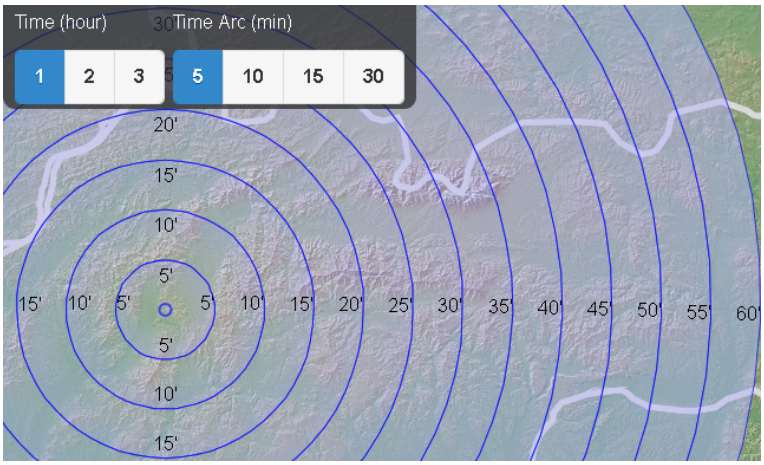
  Upon activation the Flying Range (FR) window appears showing parameters of aircraft set by default (see picture below) for which CC-net of aircraft's flying range is computed and displayed over the map.

Flying Range window enables an entry of a/c parameter values to compute and display the aircraft's flying range by use of a net formed by concentric circles (CC). CC centre is located in a spot of a current cursor position over a map view.



Legend:

1. Minimize button; to reduce the current window to a Taskbar button
2. Close button; to close the window
3. Choose aircraft – drop-down menu to select a type of aircraft
4. Cruising Speed – enter speed value of aircraft to the text box on the left; then select units, available are: km/h, mph, kt.
5. Time [hr] – toggle buttons to set FR value in hours, available values are: 1 – 2 – 3 hrs; (the picture below illustrates FR = 1 hour)
6. Time [min] – toggle buttons to choose a value of time segment [min] specified as any of the parts into which the selected FR value [hr] is divided, available values are: 5 – 10 – 15 – 30 min; (the below picture illustrates a division of FR into 5-minute segments).



Chapter 6. FPL Form Window

	- Click the icon to generate a flight plan derived from the concerned flight intention. The icon can be found in Flight Log window (see Section 3.7, “Flight Log”).
	- Click the icon to generate a flight plan by filling in a blank FPL form. The icon can be found in Control Bar of Main Window (see Chapter 2, *Home Screen/Main Window*).
Open as new	- Click the button to generate a flight plan by modifying an existing (historical) FPL filled-in by values contained in a selected FPL. The button can be found in a row of a selected FPL in Flight Plans window (see Section 3.8, “Current FPL List/Flight Plans Window”).

FPL Form window contains an FPL form with entries that can be modified and validated for a final FPL form submission to ARO. In addition, the FPL form can be saved as PDF file format, exported in some file formats and saved in FPL Template DB.

FPL Form Editing by Keyboard

To move to the next cell (FPL item) use **Tab** key, to move back to the previous one use **Shift+Tab**.

To insert a value into text box proceed as follows:

1. By repeated pressing **Tab** key move to FPL item (in a text box) you wish to modify.
2. Type the value into the box as appropriate
3. Proceed to the next item (use **Tab**) or go back to the previous one (use **Shift+Tab**)

To select a value in drop-down menu proceed as follows:

1. By repeated pressing **Tab** key move to FPL item (in a drop-down menu) you wish to modify.
2. Press **Enter** to expand the drop-down menu
3. Choose the desired menu item by use of arrow keys (↑, ↓)
4. Confirm your choice by pressing **Enter**

Note

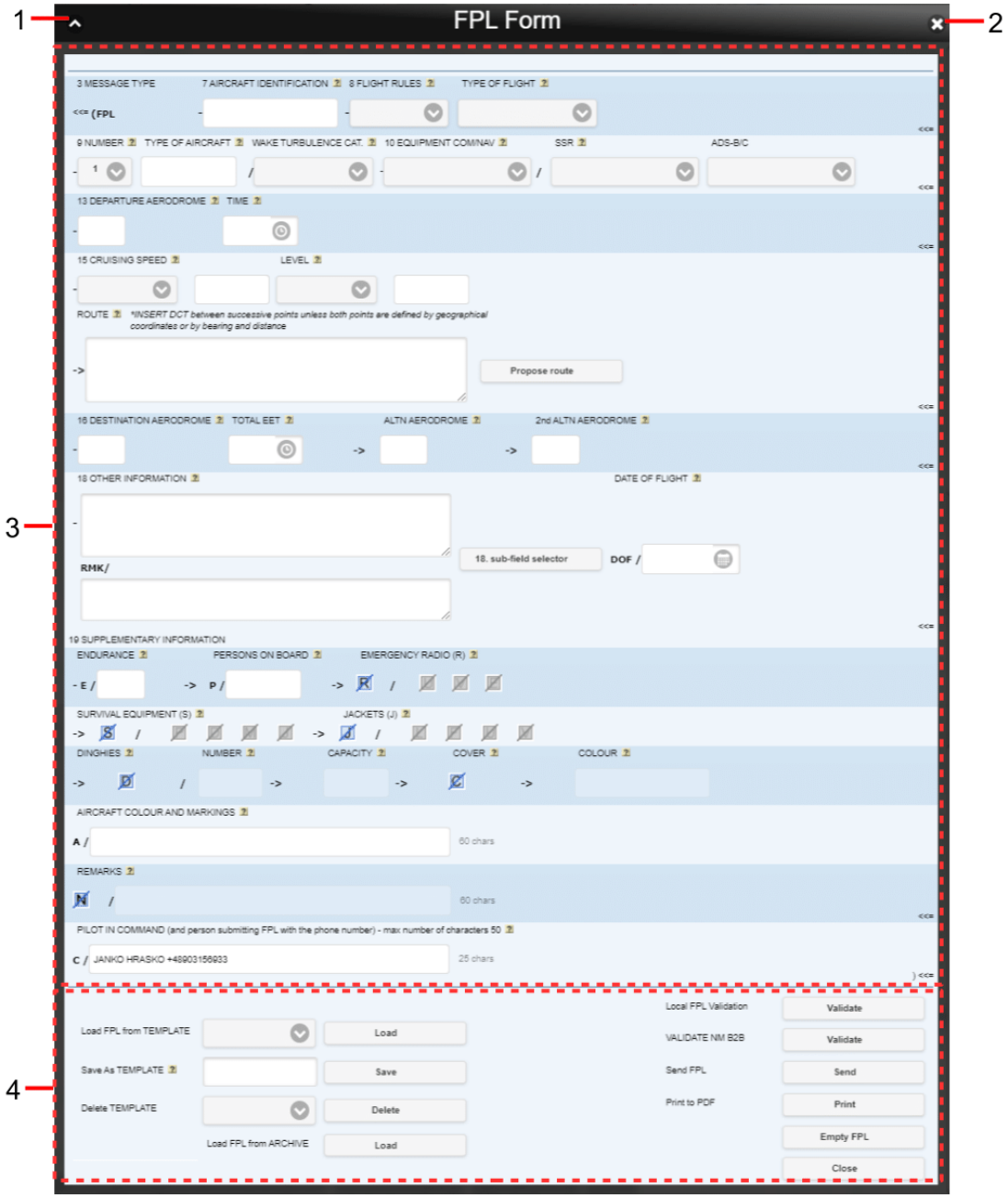
If only one option can be selected, the menu will automatically collapse and you will continue with step [7]

5. Repeat steps [3] and [4] if multiple selection is required

Note

Multiple selection is allowed in menus with attached check boxes to enable the desired options

6. Press **Esc** to collapse the drop-down menu
7. Proceed to the next item (use **Tab**) or go back to the previous one (use **Shift+Tab**)



Legend:

1. Minimize button; to reduce the current window to a Taskbar button
2. Close button; to close the window
3. **Flight Plan Form** – a pane containing control elements to fill-in/modify FPL items in accordance with Annex 2 of Doc 4444 ATM 501.

FPL Form Items:

No.	Item	Description
3	**MESSAGE TYPE**	- Type of message; read-only field (non-editable)

<table>
<tr><th>No.</th><th>Item</th><th>Description</th></tr>
<tr><td>7</td><td>AIRCRAFT IDENTIFICATION</td><td>- Insert one of the following:
• The registration marking of the aircraft (GABCD, N1234GA), either alone or preceded by the ICAO telephony designator for the operating agency.
• The ICAO designator for the aircraft operating agency, followed by a flight number.
• The call sign determined by the military authorities.

Note

Insert one of the above aircraft identifications, not exceeding 7 alphanumeric characters

The item is checked whether AIRCRAFT IDENTIFICATION value is inserted

Note

Only one FPL per aircraft registration can be submitted within 30 minutes. If another FPL with the same aircraft registration is submitted within this time period, the application notifies the user thereof, and such FPL is not sent.</td></tr>
<tr><td>8</td><td>FLIGHT RULES</td><td>- Select one of the following letters to denote the category of flight rules with which the pilot intends to comply:

<table><tr><td>I</td><td>If it is intended that the entire flight will be operated under the IFR</td></tr><tr><td>V</td><td>If it is intended that the entire flight will be operated under the VFR</td></tr><tr><td>Y</td><td>If the flight initially will be operated under the IFR, followed by one or more subsequent changes of flight rules (*)</td></tr><tr><td>Z</td><td>If the flight initially will be operated under the VFR, followed by one or more subsequent changes of flight rules (*)</td></tr></table>
* Specify, in Item 15 the point(s) at where a change of flight rules is planned.* Specify, in Item 15 the point(s) at where a change of flight rules is planned followed by VFR (for Y) or IFR (for Z). If the FPL form was generated from a Flight Log (see Section 3.7, “Flight Log”), and the flight rules in the FPL form are consequently adjusted manually to Y or Z, the respective string VFR or IFR is added automatically at the end of the route in item 15. The user will be notified to verify the contents of item 15, i.e. insert such string after the waypoint in which the change of flight rules is planned.</td></tr>
</table>

<table>
<tr><th>No.</th><th>Item</th><th>Description</th></tr>
<tr><td></td><td></td><td>

Note

Insert just 1 character

The item is checked whether FLIGHT RULES value is inserted

Note

If Y or Z letter is inserted in item (8) then IFR- or VFR-flight rules shall be specified in item (15)</td></tr>
<tr><td></td><td>TYPE OF FLIGHT</td><td>- Select one of the following letters to denote the type of flight:

<table>
<tr><td>S</td><td>If scheduled air service</td></tr>
<tr><td>N</td><td>If non-scheduled air transport operation</td></tr>
<tr><td>G</td><td>If general aviation</td></tr>
<tr><td>M</td><td>If military</td></tr>
<tr><td>X</td><td>If other than any of the defined categories above</td></tr>
</table>

Note

Insert just 1 character

The item is checked whether TYPE OF FLIGHT value is inserted</td></tr>
<tr><td>9</td><td>NUMBER</td><td>- Insert the number of aircraft, if more than one

Note

Insert 1 or 2 characters

Note

In Item (9) the number of aircraft is set to "1" by default</td></tr>
<tr><td></td><td>TYPE OF AIRCRAFT</td><td>- Insert the appropriate designator as specified by ICAO (ICAO Doc 8643), or if no such designator has been assigned, insert ZZZZ and specify in Item 18 the (numbers and) type(s) of aircraft preceded by TYP/</td></tr>
</table>

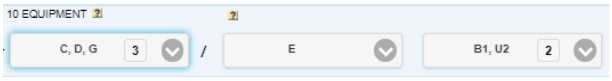
<table>
<tr><th>No.</th><th>Item</th><th>Description</th></tr>
<tr><td></td><td></td><td>Note

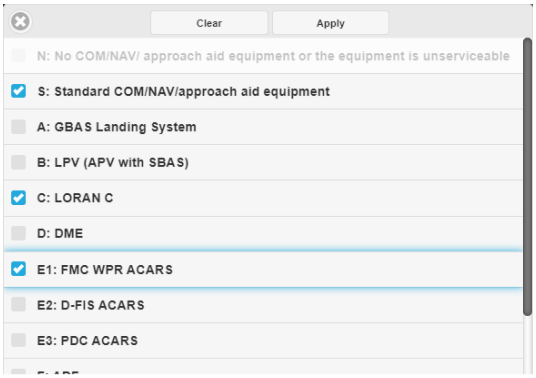
Insert 2 to 4 characters

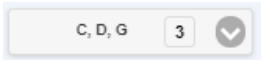
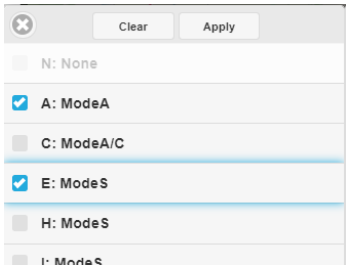
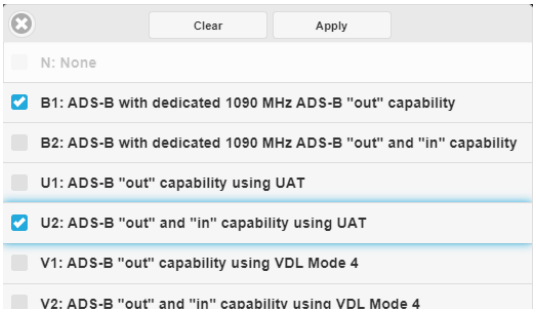
The item is checked whether TYPE OF AIRCRAFT value is inserted and whether the inserted text string is available in Aircraft DB. Otherwise, the FPL will be evaluated "invalid" (by the FPL validation check).</td></tr>
<tr><td></td><td>WAKE TURBULENCE CAT.</td><td>- Select one of the following letters:

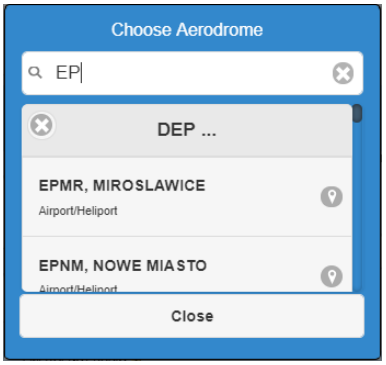
<table><tr><td>L</td><td>Light, MTOW of 7.000 kg or less</td></tr><tr><td>M</td><td>Medium, MTOW less than 136.000 kg but more than 7.000 Kg (15.500 lb)</td></tr><tr><td>H</td><td>Heavy, MTOW of 136.000 kg (300.000 lb) or more</td></tr><tr><td>J</td><td>Super heavy, for Airbus A380-800</td></tr></table>
Note

Insert just 1 character

The item is checked whether WAKE TURBULENCE CAT value is inserted</td></tr>
<tr><td>10</td><td>EQUIPMENT</td><td>- 

The item comprises following set of control elements:
• A drop-down menu for a selection of radio communication, navigation and approach aid equipment to be carried on board by checking the respective check box. You can perform one or more choices for any item save that item N "No COM/NAV/ approach aid equipment, or the equipment is unserviceable" is selected. Use the button Apply to confirm the selection, Clear to reset it, and Close to apply the selection and close the drop-down list.
 
</td></tr>
</table>

No.	Item	Description
		If more than 1 equipment and/or capability is selected the item's value indicates the total number of equipment and capabilities  **Note** For a description of items listed in drop-down menu refer to Section 3.2.2, “Equipment” • Two drop-down menus for a selection of SUR equipment and capabilities available on board by checking the respective check box. You can perform one or more choices for any item save that item N "None" is selected. Use the button Apply to confirm the selection, Clear to reset it, and Close to apply the selection and close the drop-down list.   If more than 1 equipment and/or capability is selected the item's value indicates the total number of equipment and capabilities **Note** For a description of items listed in drop-down menus refer to Section 3.2.2, “Equipment”
13	**DEPARTURE AERODROME**	- Insert the ICAO Indicator of the departure aerodrome, or if no location indicator has been assigned, insert ZZZZ.

No.	Item	Description
		Note Insert 4-letter indicator The item is checked whether DEPARTURE AERODROME value is inserted and whether the inserted text string is available in AIXM DB. Otherwise, the FPL will be evaluated "invalid" (by the FPL validation check). Upon an entry of ZZZZ value a window appears for an entry, or a search of the name of a departure airport (see the below picture).  As a result, the names matching the specified string are retrieved and listed in the table for a selection/picking out the one to be inserted in Field 18. Finally, press Close to close the window and to apply the name to field 18. To erase the name you inserted/ selected, use ⊗ button.
	TIME	- Insert the estimated off-block time (EOBT) by use of Clock control "🕐" (see the table below). When an empty FPL form is open, this item is automatically pre-filled by a configurable EOBT value (e.g. UTC + 1h). **Note** Insert 4 numeral characters in HHMM format (HH=hours; MM=minutes) The item is checked whether TIME value is inserted
15	**CRUISING SPEED**	- Select one of the following letters:

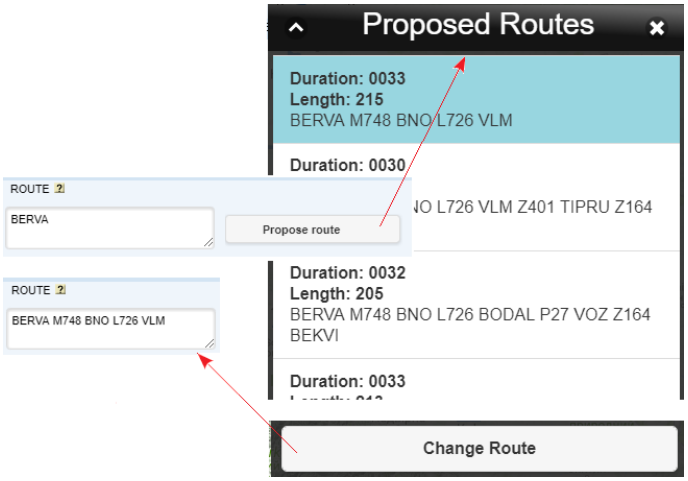
<table>
<tr><th>No.</th><th>Item</th><th>Description</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>K</td><td>Kilometres per hour [km/h], expressed as K followed by 4 figures (e.g. K0830)</td></tr>
<tr><td>N</td><td>Knots [kt], expressed as N followed by 4 figures (e.g. N0485)</td></tr>
<tr><td>M</td><td>True Mach number, when so prescribed by the appropriate ATS authority, to the nearest hundredth of unit Mach, expressed as M followed by 3 figures (e.g. M082)</td></tr>
</table>
Note
Insert maximum 5 characters

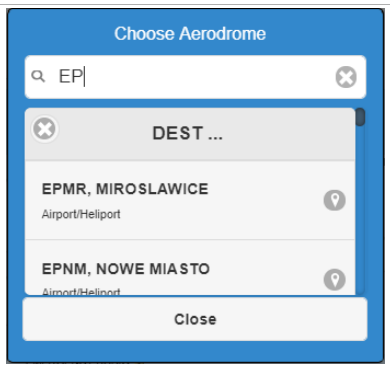
Note
The Item is checked whether CRUISING SPEED value is inserted
</td></tr>
<tr><td></td><td>LEVEL
(Cruising Level)</td><td>
-

Select one of the following letters:
<table>
<tr><td>F</td><td>Flight level, expressed as F followed by 3 figures (e.g. F085; F330)</td></tr>
<tr><td>S</td><td>*Standard Metric Level in tens of metres, expressed as S followed by 4 figures (e.g. S1130)</td></tr>
<tr><td>A</td><td>Altitude in hundreds of feet, expressed as A followed by 3 figures (e.g. A045; A100)</td></tr>
<tr><td>M</td><td>*Altitude in tens of metres, expressed as M followed by 4 figures (e.g. M0840)</td></tr>
<tr><td>VFR</td><td>For uncontrolled VFR flights. No cruising level value is to be entered and the respective text field stays empty and deactivated.</td></tr>
</table>
* when so prescribed by the appropriate ATS authorities

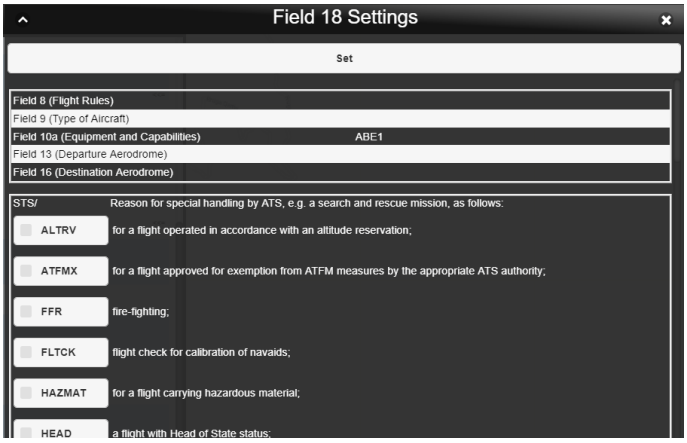
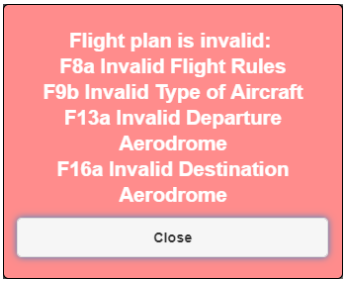
Note
Insert maximum 5 characters
</td></tr>
</table>

No.	Item	Description
		Note The item is checked whether LEVEL value is inserted
	ROUTE	- See DOC 4444, Appendix 2 If the FPL form was generated from a Flight Log (see Section 3.7, “Flight Log”), and the flight rules in the FPL form are consequently adjusted manually to Y or Z (item 8), the respective string VFR (for Y) or IFR (for Z) is added automatically at the end of the route in item 15. The user will be notified to verify the contents of item 15, i.e. insert such string after the waypoint in which the change of flight rules is planned. **Important** For comprehensive FPL validation, we strongly recommend users to create their flight plan either directly from the flight log or from the map window and flight log. To change the cell's size, drag the symbol placed in bottom right corner ("drag & drop" technique). **Note** The system checks if the ROUTE value is inserted. Special characters (e.g. / & % * ! etc.) and Enter and Tab keys are not allowed in this text field. **Note** If the FPL is created from the flight intention in the Flight Log window (see Section 3.7, “Flight Log”), and the route contains only aerodromes of departure (ADEP) and destination (ADES), DCT is automatically inserted into the Item ROUTE. If the item STAY in any of the route segments in the flight intention is filled in, this value is automatically inserted into the Item ROUTE of the FPL. Insert DCT between successive points unless both points are defined by geographical coordinates or by bearing and distance.

No.	Item	Description
	Propose Route	- Press the button to open Proposed Routes window listing flight routes proposed by NMOC after FPL form completing. Select a route of your choice and copy it to FPL form by use of Change Route button (see picture below). Then the route will appear in the field "15, ROUTE" (see above). When pressing "Propose Route" button a local check of FPL correctness will be performed. When completed a dialog box appears informing on the check results. If required, correct/modify your entries and repeat the action by pressing Propose Route.  **Note** The menu item is enabled for IFR flights.
16	**DESTINATION AERODROME'**	- Insert the ICAO indicator of the destination aerodrome, or, if no designator has been assigned, insert ZZZZ. **Note** Insert 4 characters The item is checked whether DESTINATION AERODROME value is inserted and whether the inserted text string is available in AIXM DB. Otherwise, the FPL is evaluated "invalid" (by the FPL validation check). Upon an entry of ZZZZ value a window appears for an entry, or a search of the name of a destination airport (see below picture)

No.	Item	Description
		 As a result, the names matching the specified string are retrieved and listed in the table for a selection/picking out the one to be inserted in Field 18. Finally, press Close to close the window and to apply the name to field 18. To erase the name you inserted/ selected, use button.
	TOTAL EET (HHMM)	- Insert the total estimated elapsed time in hours and minutes by typing, or by selecting the appropriate value by use of Clock control "" (see the table below). **Note** Insert 4 numeral characters in HHMM format (HH=hours; MM=minutes) The item is checked whether TOTAL EET value is inserted
	ALTN AERODROME	- Insert the ICAO indicator of not more than two destination alternate aerodromes, or, if no designator has been assigned, insert ZZZZ. **Note** Insert the ICAO 4-letter location indicator(s) Upon an entry of ZZZZ value a window appears (identical to that of Item [16] above) for an entry, or a search of the name of the first (1st) alternate airport of destination.
	2nd ALTN AERODROME	- Insert the 2nd alternate aerodrome indicator or leave the field blank

No.	Item	Description
		Note Insert the ICAO 4-letter location indicator(s) Upon an entry of ZZZZ value a window appears (identical to that of Item [16] above) for an entry, or a search of the name of the second (2nd) alternate airport of destination.
18	**OTHER INFORMATION**	- Leave empty if no other infomation For inclusion of any other necessary information refer to Appendix 2, Doc 4444 Use 18. sub-field selector button (see the below description) to open "Field 18 Settings" window for instructions how to properly fill-in the item (18). To change the cell's size, drag the symbol placed in the bottom right corner ("drag & drop" technique). **Note** Special characters (e.g. / & % * ! etc.) and Enter and Tab keys are not allowed in this text field. **Note** If ZZZZ is inserted in DEP, DEST or ALTN fields of Item (13) and (16), insert in Item (18) the aerodrome name consisting of 11 characters as listed in the pre-set Place Names list followed by a space, and either by its geographical coordinates or by the bearing and distance from the nearest significant point. **Note** If the FPL is created from the flight intention in the Flight Log window (see Section 3.7, “Flight Log”), and the item STAYINFO in any of the route segments in the flight intention is filled in, this value is automatically inserted into the Item 18 of the FPL.

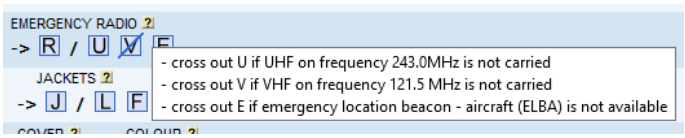
No.	Item	Description
	18. sub-field selector	- **Important** Editing of item (18) is enabled only after inserting the values of items (8), (9), (13) and (16). Otherwise, the item (18) cannot be filled in and the FPL is evaluated "invalid" (by the FPL validation check). Use the button to open the below "Field 18 Settings" window listing items (8), (9), (10a), (13) and (16) including their values, together with instructions how to properly fill-in the item (18).  To apply changes done in the window, press Set. If you fail to insert any of the values of items (8a), (9b), (13a) and (16a), you will be notified about the same. An entry of the above items is required, otherwise an entry of the item (18) will not be accepted and the FPL will be evaluated "invalid" (by the FPL validation check). 
	DOF /	- Insert the date of flight departure in [YYYY-MM-DD] format (where YYYY = the year, MM = the month and DD = the day) by typing, or by selecting the appropriate value by use of Calendar control "" (see the table below). When an empty FPL form is open, this item is automatically pre-filled by the current date. **Note** If ZZZZ is inserted in DEP, DEST or ALTN fields of Item (13) and (16), then insert in Item (18) the

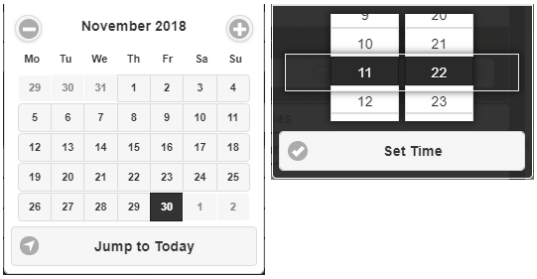
No.	Item	Description
		aerodrome name consisting of 11 characters as listed in pre-set Place Names list (indicating location in LAT/LONG or bearing and distance from the nearest significant point) followed by a space character The item is checked whether DOF / value is inserted
	RMK /	- Insert any other plain-language remarks when required by the appropriate ATS authority or deemed necessary.. To change the cell's size, drag the symbol placed in the bottom right corner ("drag & drop" technique).
19	**SUPPLEMENTARY INFORMATION**	The item comprises following elements:
	ENDURANCE	- Insert the fuel endurance in hours and minutes. **Note** Insert 4 numeral characters in HHMM format (HH=hours; MM=minutes). If GLID (a glider) is inserted into the item 9 TYPE OF AIRCRAFT, the endurance value 0000 is valid as well. The item is checked whether ENDURANCE value is inserted
	PERSONS ON BOARD P/	- Insert the total number of persons (passengers and crew) on board or insert TBN (to be notified) if the total number of persons is not known when filing. **Note** Insert 3 numeral characters
	EMERGENCY RADIO	- Cross out: R: If no emergency radio is carried. U, V and E indications are crossed out and not available U: If UHF on frequency 243.0 MHz is not carried V: If VHF on frequency 121.5 MHz is not carried E: If emergency location beacon - aircraft (ELBA) is not available
	SURVIVAL EQUIPMENT	- Cross out: S: If survival equipment is not carried. P, D, M and J indications are crossed out and not available

<table>
<tr><th>No.</th><th>Item</th><th>Description</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>P</td><td>If polar survival equipment is not carried</td></tr>
<tr><td>D</td><td>If desert survival equipment is not carried</td></tr>
<tr><td>M</td><td>If maritime survival equipment is not carried.
Note
This refers to equipment in addition to the life jackets listed in the following section.</td></tr>
<tr><td>J</td><td>If Jungle survival equipment is not carried</td></tr>
</table>
</td></tr>
<tr><td></td><td>JACKETS</td><td>- Cross out:
<table>
<tr><td>J</td><td>If life jackets are not carried. L, F, U and V indications are crossed out and not available</td></tr>
<tr><td>L</td><td>If life jackets are not equipped with lights</td></tr>
<tr><td>F</td><td>If life jackets are not equipped with fluorescein</td></tr>
<tr><td>U/V</td><td>Cross out U or V or both as in R/ above to indicate radio capability of jackets, if any.</td></tr>
</table>
</td></tr>
<tr><td></td><td>DINGHIES</td><td>- Cross out indicators D and C if no dinghies are carried</td></tr>
<tr><td></td><td>NUMBER</td><td>- Insert number of dinghies carried
Note
Insert 2 numeral characters</td></tr>
<tr><td></td><td>CAPACITY</td><td>- Insert total capacity, in persons, of all dinghies carried
Note
Insert 3 numeral characters</td></tr>
<tr><td></td><td>COVER</td><td>- Cross out indicator C if dinghies are not covered</td></tr>
<tr><td></td><td>COLOUR</td><td>- Insert colour of dinghies if carried</td></tr>
<tr><td></td><td>AIRCRAFT COLOUR AND MARKINGS A/</td><td>- Insert colour of aircraft and significant markings.
Note
Insert maximum 60 characters</td></tr>
</table>

No.	Item	Description
	REMARKS	- Cross out indicator N if no remarks, or indicate any other survival equipment carried and any other remarks regarding **Note** Insert maximum 60 characters
	PILOT IN COMMAND C/	- Insert a name and a phone number of the Pilot-In-Command (PIC) **Note** Insert maximum 50 characters **Note** If the FPL is submitted by a student, their name and phone number may be inserted into this item as well. **Note** If FPL Form is activated 1) by FPL button/Control Bar, the content of PIC item is read from Profile section/User Settings window (see Section 4.3, “User Settings”) of logged-on user (i.e. the PIC name and phone number is included); 2) through Flight Log window (see Section 3.7, “Flight Log”), the name of PIC appears as specified in Crew section/Flight tab and his phone number is read automatically from the above Profile section of the logged-on user.

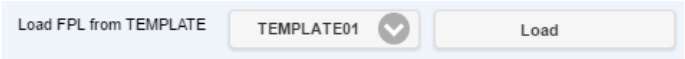
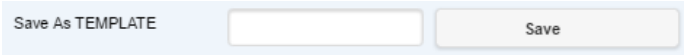
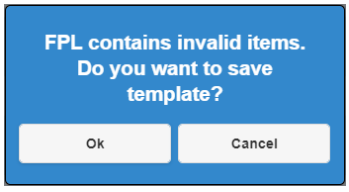
Icon Legend

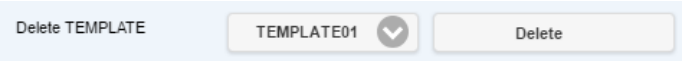
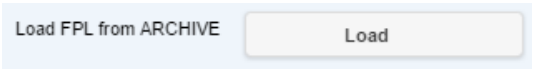
?	- QUESTION icon is attached to each item of FPL form. Click on the icon to open a tooltip containing useful information on how to fill in the respective FPL item. 
/	- To set the date and time, respectively use and icon. Upon clicking, the respective Calendar/Clock control appears to perform the required actions.

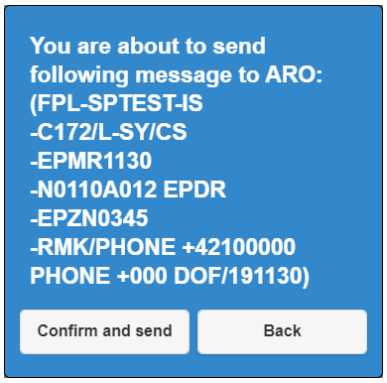


The date value is automatically accepted by selecting it. To set the current date use "Jump to Today" button. To set any other time value use the mouse wheel to scroll up and down in Hour/Minute list. Finally, confirm your choice by pressing Set Time.

4. **FPL Control Panel** contains the below listed items/control elements for operation with FPL data:

Control	Description
Load FPL from TEMPLATE	-  Choose the option to load data from FPL template to FPL Form. Select a desired FPL template in a drop-down list containing a database of all FPL templates created by the logged-in user, then press 'Load' to copy data from the template to an active FPL form. **Note** Initially, FPL template database of the logged-in user is empty.
Save As TEMPLATE	-  Choose the option to add a new FPL template in FPL template database. Type a name of the new template into the text box, then press 'Save' to save an active FPL Form in use of the logged-in user as a new template with the name shown in the text box. Should an FPL form contain incorrect values the user is notified about the same (see the below dialog box) and fields containing incorrect values are red highlighted. Despite of this, such invalid FPL form can be stored in a database of FPL templates. 

Control	Description
	Note When an FPL template is saved as FPL Form, its name is immediately indicated in the text box for its modification as the case may be
Delete TEMPLATE	-  Choose the option to remove an FPL template from FPL template database of the logged-in user. Select, in a drop-down list the template to be removed and press 'Delete'. Thereafter a dialog box appears requesting to confirm your intention to remove the template. **Note** Initially, FPL template database of the logged-in user is empty.
Load FPL from ARCHIVE	-  Choose the option to load FPL data stored in an Archive to FPL Form. Press Load to open Archive tab of Flight Plans window containing a list of archived FPLs of a logged-in user. Select a desired FPL in the list, and then press Open (as new) to copy data of archived FPL to an active FPL form of FPL Form window. For Flight Plans refer to Section 3.8, “Current FPL List/Flight Plans Window”.
Validate **(Local FPL Validation)**	- Choose the option to check a correctness of FPL form completion. After the check completion a dialog box appears notifying about the check result. FPL items containing incorrect values are red highlighted. A help in removing mistakes is provided by the tooltip. Correct the erroneous data and then repeat the check procedure by pressing "Validate" button.
Validate **(VALIDATE NM B2B)**	- Choose the option to check a correctness of FPL form completion through NM B2B interface. After the check completion a dialog box appears notifying about the check result. FPL items containing incorrect values are red highlighted. A help in removing mistakes is provided by the tooltip. Correct the erroneous data and then repeat the check procedure by pressing "Validate NM B2B" button. **Note** Before performing NM B2B check ensure that the Local FPL Validation has been successfully completed

Control	Description
	Note Validation via NM B2B shall be performed for following types of flights: IFR, IFR-VFR and VFR-IFR
Send **(Send FPL)**	- Press the button to send the completed FPL form to ARO. Upon pressing a dialog box appears containing a message (to be sent) in AFTN data format (see an example on the below picture).  Press 'Confirm and Send' to request a confirmation of message sending; press 'Back' to revert to FPL form editing. You will be notified about a success of FPL sending by a dialog box. Should an FPL form contain incorrect values the fields containing erroneous data will be red highlighted. Correct the erroneous data and repeat the message sending. ONLY correctly filled in form will be sent to ARO. **Note** Only one FPL can be submitted within 1 minute. If another FPL is submitted within this time period, the application notifies the user thereof, and such FPL is not sent. **Note** Only one FPL per aircraft registration (Item 7 – AIRCRAFT IDENTIFICATION) can be submitted within 30 minutes. If another FPL with the same aircraft registration is submitted within this time period, the application notifies the user thereof, and such FPL is not sent.
Print **(Print to PDF)**	- Press the button to open "FPL PDF" window displaying a current FPL form in PDF file format. The window contains controls with saving/printing options to save and print the list as appropriate.

Control	Description
Clear Form	- Choose the option to remove values of all items contained in the FPL form and inserted by the user, i.e. just the values filled in automatically (read from Profile of the logged-on user), will remain.
Close	- Press the button to close FPL Form window without saving your settings done in it.

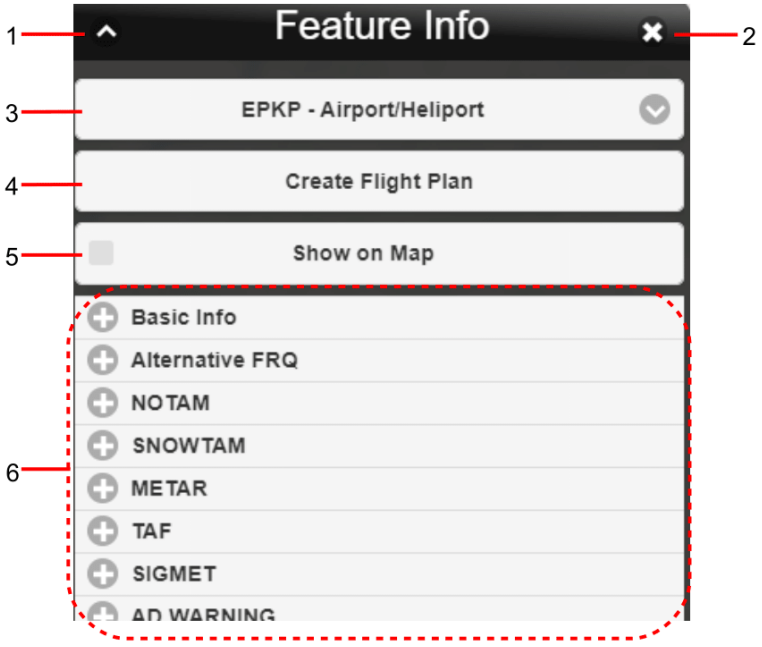
Chapter 7. Feature Info Window

Note

The function is available only for vector-based objects with properties

Activation options	- Click on any object/location in a map view; if multiple objects (such as AD, FIR, TMA, etc.) overlap in a point of clicking, a common Feature window (see picture below) for all overlapping objects associated with a point of clicking appears on the screen providing information on each of them separately. **Important** INFO mode shall be active when generating FPL (see Section 3.7, “Flight Log”).

Feature Info window provides a view of object's features, it may be used for a generation of the object's FPL, if appropriate.

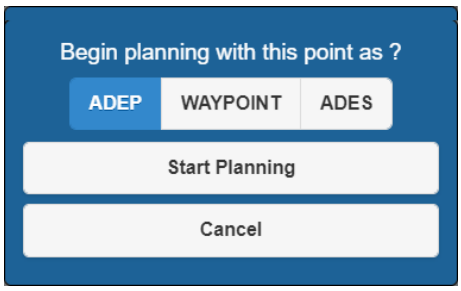


Legend:

1. Minimize button; to reduce the current window to a Taskbar button
2. Close button; to close the window
3. **Object Menu** – drop-down list of options (i.e. a set of objects associated with a point selected in a map), features of which will be listed in Feature Info window
4. **Create Flight Plan** – upon pressing Create Flight Plan button the flight planning for selected object will be triggered

   Thereafter, a dialog window appears for an entry of object/flight details (see below picture); in the window, select the object's role for the intended flight, available options are: ADEP, ADES or

WAYPOINT. When selected, press "Start Planning" to open a window for a creation of FPL for the object with its assigned role.



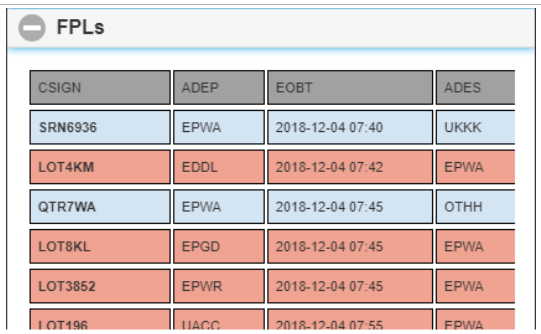
5. **Show on Map** – press the button to show/hide the object in a map window
6. **Dynamic Data** – menu containing an object-related items, particularly - object details, dynamic up-to-date information (such as NOTAM, METAR, etc.). A content of menu items depends on a type of the object. Update of dynamic data display in a map window is done in accordance with data update rate set in Section 4.2, “Data Update”. Unavailability of information is indicated by a string "NIL".

   Use ⊕/⊖ buttons to expand/collapse the respective section.

   Optional items of object's Dynamic Data:

Data Category	Description
Basic Info	The item contains general information on the object, such as ICAO name, position, RWY, general frequencies on which ATS services are provided, etc. Content of menu items depends on a type of the object.
Alternative FRQ	The item is applicable to an Aerodrome. It contains a list of optional frequencies on which ATS services are provided.
NOTAM	The item is applicable to an Aerodrome and FIR. It contains a list of Effective/ Valid NOTAMs. If switch "Valid/Effective" on Control Bar is in "Valid" status (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future display in NOTAM messages list. These message types are differed by text colour. Colour is set in configuration file. If switch "Valid/Effective" is in "Effective" status, only currently active messages display in NOTAM messages list. Following set of control elements (or just a sub-set of them, depending on an amount of messages contained in the list) is included in the section: **Add to Report** Check "Add to Report" box for a selection of a NOTAM message to be added to/removed from NOTAM List a content of which will subsequently be generated in PDF file format upon pressing Report button. **Select All** Check "Select All" box to select all messages in NOTAM List for their inclusion into a PDF document to be generated upon pressing Report button. **Report**

Data Category	Description
	Press the button to open NOTAM Report window displaying a PDF document listing all NOTAM messages currently selected in NOTAM List. The window contains controls for saving/printing the document.
SNOWTAM	The item is applicable to an Aerodrome. It contains a list of effective SNOWTAMs for a specified date/time. SNOWTAM section contains the same set of control elements (or just a sub-set of them, depending on an amount of messages contained in the list) as that of NOTAM section.
METAR	The item is applicable to an Aerodrome. It contains the latest effective METAR message in textual form. The message is issued once per 30 min - 1 hr. The message indicates the date/time of observation. If the next time of observation is greater than 2 hours as from the previous one the METAR message is deemed invalid. **Report** Press the button to open a window showing the METAR message in *.pdf file format. The window provides controls for archiving the document as a soft or hard copy.
TAF	The item is applicable to an Aerodrome. It contains the latest effective TAF message in textual form.
ASHTAM	The item is applicable to FIR. It contains the latest effective ASHTAM message in textual form. **Report** Press the button to open a window showing the ASHTAM message in *.pdf file format. The window provides controls for archiving the document as a soft or hard copy.
SIGMET	The item is applicable to an Aerodrome. It contains the latest effective SIGMET message in textual form.
Forecast	The item is applicable to FIR. It contains the latest effective FORECAST message in textual form.
GAMET	The item is applicable to FIR. It contains the latest effective GAMET message in textual form (AFTN message format) including a time stamp.
AIRMET	The item is applicable to FIR. It contains the latest effective AIRMET message in textual form (AFTN message format) including a time stamp.
AD WARNING	The item is applicable to Aerodrome. It contains the latest effective AD WARNING message in textual form (AFTN message format) including a time stamp.
FIR WARNING	The item is applicable to FIR. It contains the latest effective FIR WARNING message in textual form (AFTN message format) including a time stamp.
FUA	The item is applicable to FUA areas. It contains a list of FUA messages pertaining to a specified FUA area.
FPLs	The item is applicable to an Aerodrome. It contains a list of FPLs for flights departing from/arriving at a specified airport.

<table>
<tr><th>Data Category</th><th>Description</th></tr>
<tr><td></td><td>


FPL colours:

Blue – arrival/landing at the airport

Red – departure from the airport

White – departure from- and arrival at the same airport

FPL Control Elements

Upon clicking on a chosen FPL row following controls appear:

<table>
<tr><th>Button</th><th>Description</th></tr>
<tr><td>View</td><td>A PDF window with the respective FPL is displayed. The data are compliant with GDPR, i.e. certain personal data are anonymized. The user is notified thereof by a text warning at the top of the document.</td></tr>
<tr><td>Draw Route</td><td>Choose the option to view a flight route of the selected/ marked FPL in a map window.</td></tr>
</table>
</td></tr>
<tr><td>Opr. Hours</td><td>The item is applicable to an Aerodrome. It contains information on operational hours of a control tower (TWR) at a specified airport.</td></tr>
<tr><td>Other Services</td><td>The item is applicable to an Aerodrome. It contains a list of additional services provided by the airport.</td></tr>
<tr><td>Re-fuelling</td><td>The item is applicable to an Aerodrome. It contains information on aircraft re-fuelling facility at a specified airport.</td></tr>
<tr><td>Contact</td><td>The item is applicable to an Aerodrome. It contains a list of contact details (phone numbers, web addresses) available for the airport.</td></tr>
</table>

Chapter 8. Data Displayed on Map

Following data can be displayed within IXOweb application:

- Map data (SDO FIRs, topographic maps, Google satellite maps)
- Static data/SDO objects, vid' see Section 8.1, "Static Data"
- Dynamic data (messages such as NOTAM, SNOWTAM, SIGMET, etc.), see Section 8.2, "Dynamic Data"

8.1. Static Data

Each type of SDO objects is displayed on a map as a layer (see Section 4.1, "Layers"). Supported are following types of SDO objects:

Layer		Shape	Representation
"Navaids" Navigation Aids	TACAN	Point	A point representing TACAN object is depicted as ( ) symbol and supplemented by textual attribute
	NDB	Point	A point representing NDB object is depicted as ( ) symbol and supplemented by textual attribute and frequency value.
	VOR	Point	A point representing VOR object is depicted as ( ) symbol and supplemented by textual attribute.
	DME	Point	A point representing DME object is depicted as ( ) symbol and supplemented by textual attribute.
"Aerodromes" Airports	Aerodromes	Point	A point representing Aerodrome object supplemented by CODE_ID attribute indicating ICAO or IATA code of airport
	Runways	Multi-polygon	A multi-polygon reproducing a layout of runways
"Points AD/HP"	AD/HP	Point	A point represented by a triangle (symbol) and supplemented by textual attribute (if available) indicating the point's name
"Obstacles"	"Obstacles" Obstacles	Point	A point representing Obstacle object and supplemented by textual attribute providing details on the obstacle
"Airspaces"	FIR (Flight Information region)	Polygon	A polygonal area specified by its shape, fill colour and outline colour; optionally, it can be supplemented by a textual attribute indicating the airspace name

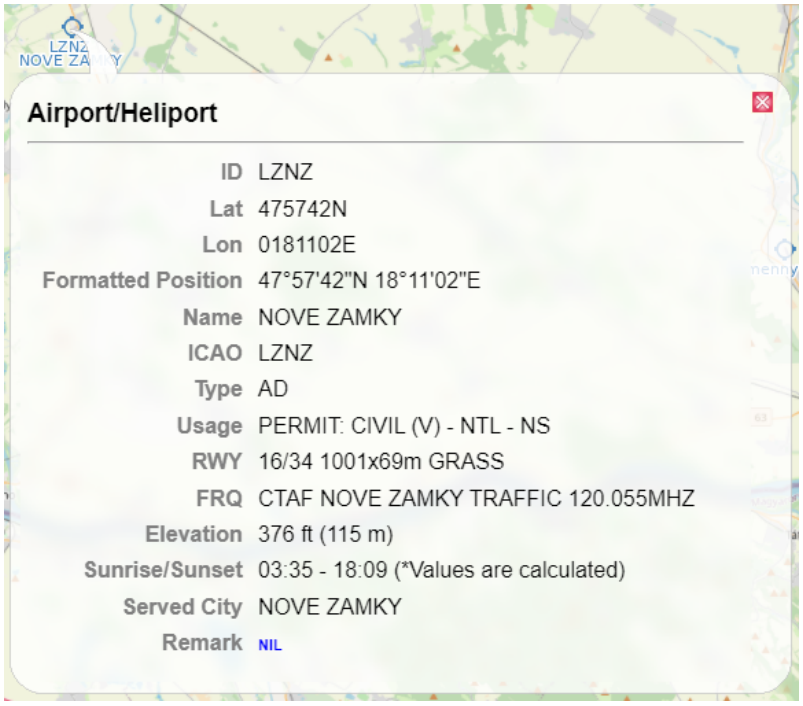
Layer		Shape	Representation
	CTR (Control Zone)	Polygon/Circle	A polygonal/circular area specified by its shape, fill colour and outline colour; optionally, it can be supplemented by a textual attribute indicating the airspace name
	CTA (Control Area)	Polygon/Circle	See CTR
	FIS (Flight Information Service)	Polygon	See FIR
	P Prohibited Area	Polygon/Circle	See CTR
	R Restricted Area	Polygon/Circle	See CTR
	D Danger Area	Polygon/Circle	See CTR
	TRA (Temporary Reserved Airspace)	Polygon/Circle	See CTR
	TSA (Temporary Segregated Area)	Polygon/Circle	See CTR
	ADIZ (Air Defence Identification Zone)	Polygon/Circle	See CTR
	ATZ (Aerodrome Traffic Zone)	Polygon/Circle	See CTR
	TMA (Terminal Control Area)	Polygon/Circle	See CTR
	TMA P (Terminal Control Area Part)	Polygon/Circle	See CTR
	AMC R AMC Restricted Area	Polygon/Circle	See CTR

Layer		Shape	Representation
	AMC D AMC Danger Area	Polygon/Circle	See CTR
	"En-routes RNAV VFR" UPPER, LOWER, BOTH	Line	A line of a specified width; optionally, the central line of a buffer may be highlighted
	"En-routes CONV VFR" UPPER, LOWER, BOTH	Line	A line of a specified width; optionally, the central line of a buffer may be highlighted
"FUA"	-	Polygon/Circle	A polygonal/circular area specified by its shape, fill colour and outline colour; optionally it can be supplemented by a textual attribute indicating the airspace name

Symbols used within application are in compliance with AIP PL, Part 1, GEN 2.3.

Tooltip

Then, when hovering the mouse cursor over on a point feature or a dynamic airspace, a tooltip providing all available information on the respective object will appear (see picture below). Moving the cursor away from the object closes the tooltip automatically. Information that cannot be provided is indicated by a string NIL. A set of data to be included in the tooltip can be set in an off-line configuration.

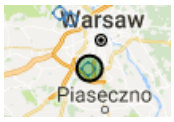


8.2. Dynamic Data

Dynamic data are, in Map Window and/or in Features window respectively displayed as symbols/ marks and text (see Chapter 7, *Feature Info Window*). Duration of time for which dynamic data are displayed in a map depends on their validity. Update rate of dynamic data (Refresh) can be set in Update window (see Section 4.2, “Data Update”).

Following dynamic data can be displayed by IXOweb application:

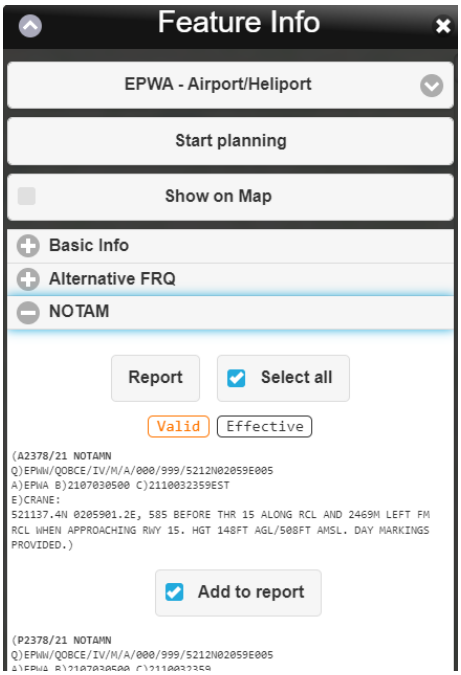
1. **Airport NOTAMs** - Airport ICAO code is inserted in a field A) of NOTAM form
   - An occurrence of airport NOTAM message is indicated by a circle over the airport location. The default colour of the NOTAM symbol is green. Colour and a size of the symbol can be set in a configuration file. A display of NOTAM symbols in the map window is activated by pressing NOTAM button in the Control Bar (see Chapter 2, *Home Screen/Main Window*).



   - Click on the airport symbol to open Feature Info window (see Chapter 7, *Feature Info Window*). The NOTAM tab contains NOTAM messages issued for the respective airport in a full format. If no NOTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NIL is shown in the NOTAM tab.

Note

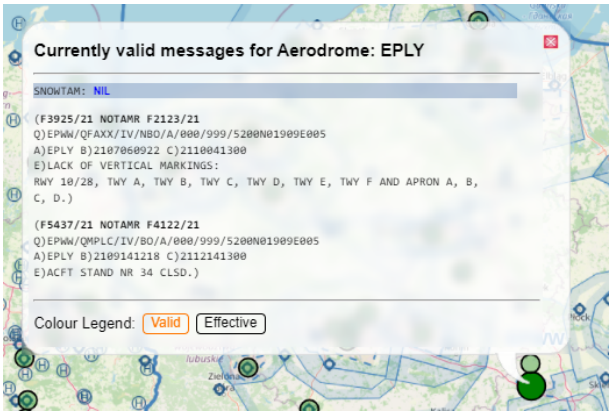
If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the NOTAM messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the NOTAM messages list.



- The content of airport NOTAM/SNOWTAM messages can also be viewed in a tooltip in the map window (see picture below) by hovering the mouse cursor over the NOTAM/SNOWTAM symbol displayed over the respective airport. SNOWTAMs are displayed first followed by NOTAMs, and are distinguished by their background colour. The colour can be set in the configuration file. If no NOTAM/SNOWTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NOTAM NIL/SNOWTAM NIL is shown in the tooltip.

Note

If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the messages list.



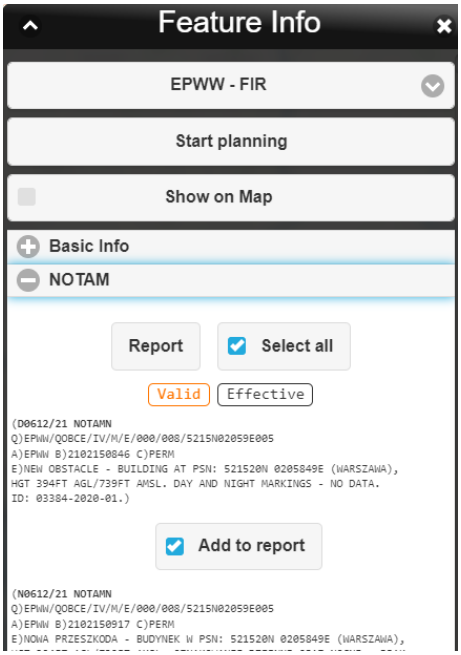
2. **Area NOTAMs** - Area ICAO code is inserted in the field A) of NOTAM form
   - An occurrence of airport NOTAM message is indicated by a circle over the centre of the FIR. The default colour of the NOTAM symbol is green. Colour and a size of the symbol can be set in a configuration file. A display of NOTAM symbols in the map window is activated by pressing NOTAM button in the Control Bar (see Chapter 2, *Home Screen/Main Window*).

- Click into the map within the FIR boundaries (assuming that Airspaces FIR layer is activated in Layer List, see Section 4.1, “Layers”) to open Feature Info window (see Chapter 7, *Feature Info Window*). The NOTAM tab contains NOTAM messages issued for the respective FIR in a full format. If no NOTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NIL is shown in the NOTAM tab.

Note

If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the NOTAM messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the

switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the NOTAM messages list.



- The content of the NOTAM/ASHTAM messages issued for the FIR can also be viewed in a tooltip in the map window (see picture below) by hovering the mouse cursor over the NOTAM/ASHTAM symbol displayed over the respective airport. ASHTAMs are displayed first followed by NOTAMs. If no NOTAM/ASHTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NOTAM NIL/ASHTAM NIL is shown in the tooltip.

Note

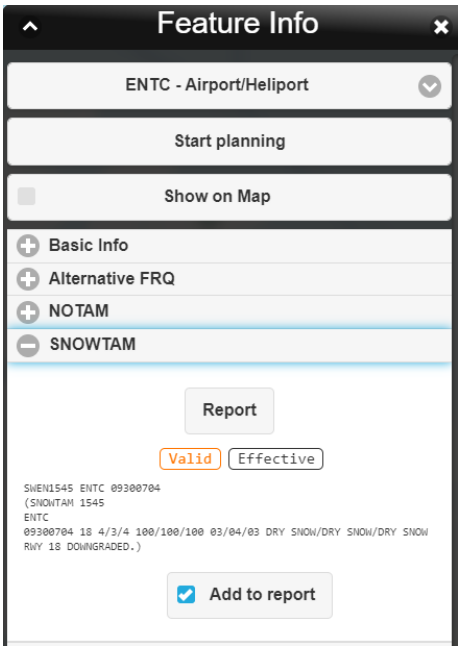
If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the messages list.

3. **SNOWTAM messages**
   - An occurrence of airport SNOWTAM message is indicated by a circle displayed over the respective airport and a special SNOWTAM symbol (see picture below). The default colour of the circle is green. Colour and a size of the circle can be set in a configuration file. A display of these symbols in the map window is activated by pressing NOTAM button in the Control Bar (see Chapter 2, *Home Screen/Main Window*).

   - Click on the airport symbol to open Feature Info window (see Chapter 7, *Feature Info Window*). The SNOWTAM tab contains SNOWTAM messages issued for the respective airport in a full format. If no SNOWTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NIL is shown in the SNOWTAM tab.

Note

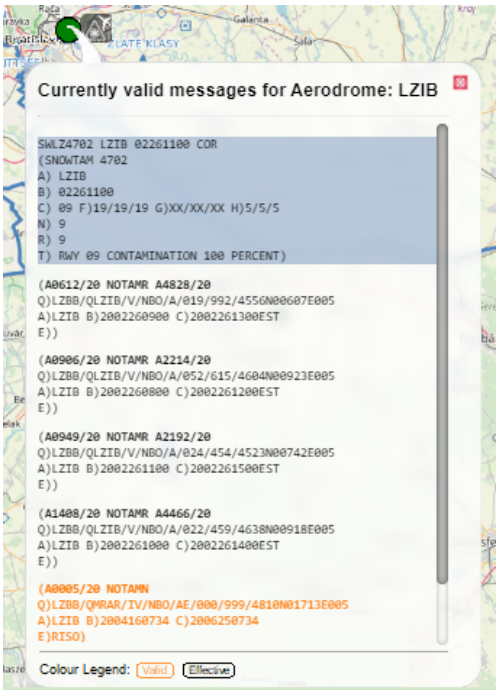
If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the SNOWTAM messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the SNOWTAM messages list. See an example in the picture below.



   - The content of airport NOTAM/SNOWTAM messages can also be viewed in a tooltip in the map window (see picture below) by hovering the mouse cursor over the NOTAM/SNOWTAM symbol displayed over the respective airport. SNOWTAMs are displayed first followed by NOTAMs, and are distinguished by their background colour. The colour can be set in the configuration file. If no NOTAM/SNOWTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NOTAM NIL/SNOWTAM NIL is shown in the tooltip.

Note

If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the messages list.



4. **ASHTAM messages**
   - An occurrence of FIR ASHTAM message is indicated by a circle displayed over the centre of the FIR and a special ASHTAM symbol (see picture below). The default colour of the circle is green. Colour and a size of the circle can be set in a configuration file. A display of these symbols in the map window is activated by pressing NOTAM button in the Control Bar (see Chapter 2, *Home Screen/Main Window*).

   - Click into the map within the FIR boundaries (assuming that Airspaces FIR layer is activated in Layer List, see Chapter 7, *Feature Info Window*) to open Feature Info window (see Chapter 7, Okno "Feature Info"Feature Info Window). The ASHTAM tab contains ASHTAM messages issued for the respective FIR in a full format. If no ASHTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NIL is shown in the ASHTAM tab.

Note

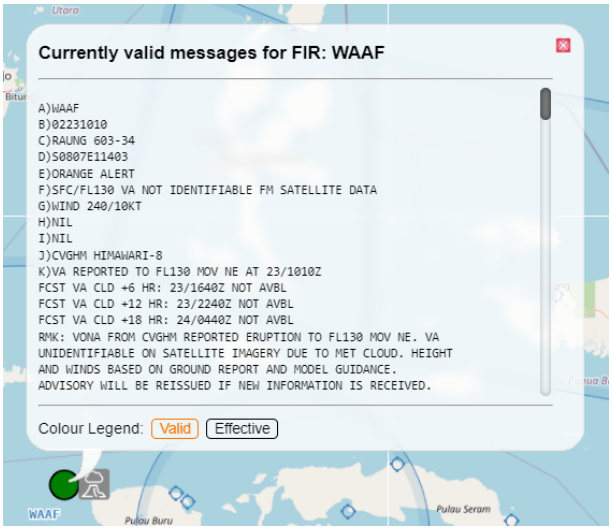
If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be

active in the future are displayed in the ASHTAM messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the ASHTAM messages list. See an example in the picture below.

- The content of the NOTAM/ASHTAM messages issued for the FIR can also be viewed in a tooltip in the map window (see picture below) by hovering the mouse cursor over the NOTAM/ASHTAM symbol displayed over the respective airport. ASHTAMs are displayed first followed by NOTAMs. If no NOTAM/ASHTAM has been issued, no messages are available or cannot be displayed (e.g. connection issues), NOTAM NIL/ASHTAM NIL is shown in the tooltip.

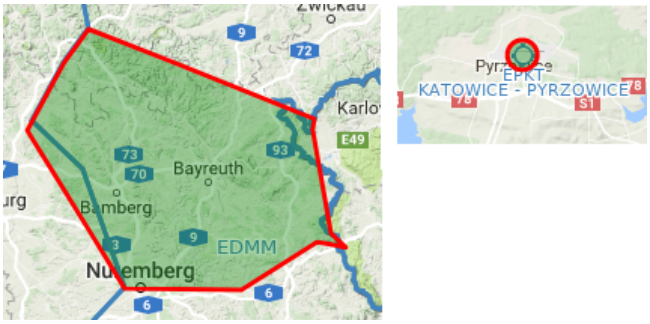
Note

If the switch "Valid/Effective" on Control Bar is in the "Valid" mode (see Chapter 2, *Home Screen/Main Window*), currently active messages and messages that will be active in the future are displayed in the messages list. These message types are colour coded, the colours being pre-set in the configuration file. If the switch "Valid/Effective" is in the "Effective" mode, only currently active messages are displayed in the messages list.

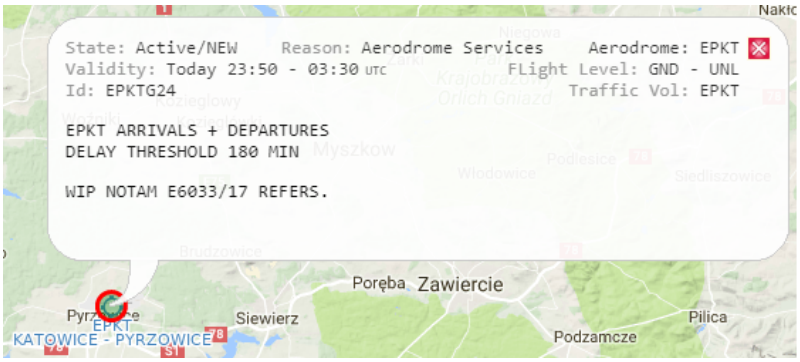


5. **AIM & ANM Messages**

- An occurrence of a new AIM/ANM message issued for a specified aerodrome and/or airspace area is in a map window indicated as follows: (1) a circle - when for an aerodrome; (2) a polygon outline – when for an airspace area (see picture below). A colour of AIM/ANM message indication shall be set in a config file. A view of AIM/ANM indication is in a map window enabled/ disabled by pressing ATFM button contained in Control Bar (see Chapter 2, *Home Screen/ Main Window*).

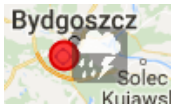


- A content of AIM/ANM message can be seen in a tooltip (see picture below) and/or in AIM List/ ANM List (see Section 3.18, “ATFM - AIM MSG Viewer”, Section 3.19, “ATFM - ANM MSG Viewer”).



- A list of actual (in use) and/or archived AIM/ANM messages can be seen in AIM List/ANM List window (see Section 3.18, “ATFM - AIM MSG Viewer”, Section 3.19, “ATFM - ANM MSG Viewer”) containing control elements for message search/retrieval under specified filtering criteria.

6. **AD MET Messages**
   - An occurrence of an airport MET message (e.g. METAR, TAF, SIGMET, AD WARNING) is indicated by a circle over the airport location (see picture below). To notify the user of significant weather, an additional symbol/icon is attached to the circle. A display of MET symbols in the map window is activated by pressing METEO button in the Control Bar (see Chapter 2, *Home Screen/Main Window*).



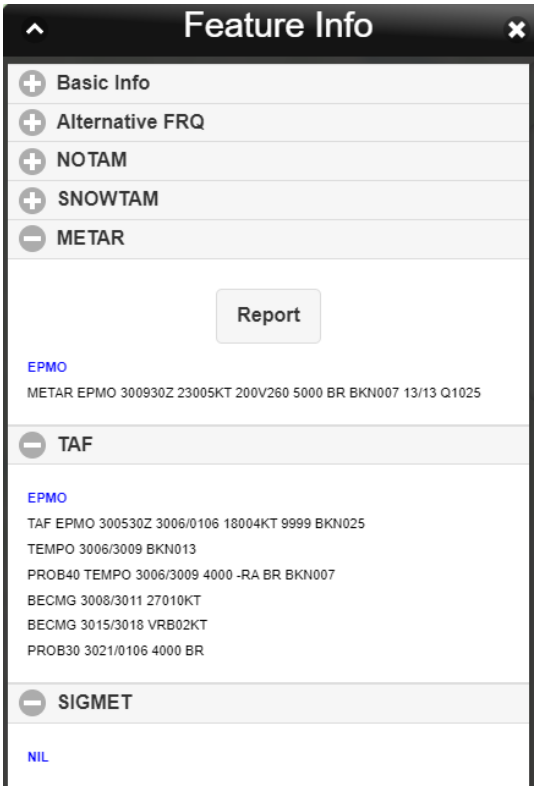
Colour and a size of the circle symbol can be set in a configuration file. If airport TAF message is issued instead of METAR message this is, in a map window indicated by white circle. Other MET settings are listed in the below table:

Colour	Visibility	Ceiling
VFR	≥ 8 km (greater than or equal to 8 km)	≥ 3 000 ft
Marginal VFR	5 – 8 km	1 000 – 3 000 ft
IFR	1 500 m – 5 km	500 – 1 000 ft
Intensive IFR	800 – 1 500 m	200 – 500 ft
Very Intensive IFR	< 800 m (less than 800 m)	< 200 ft

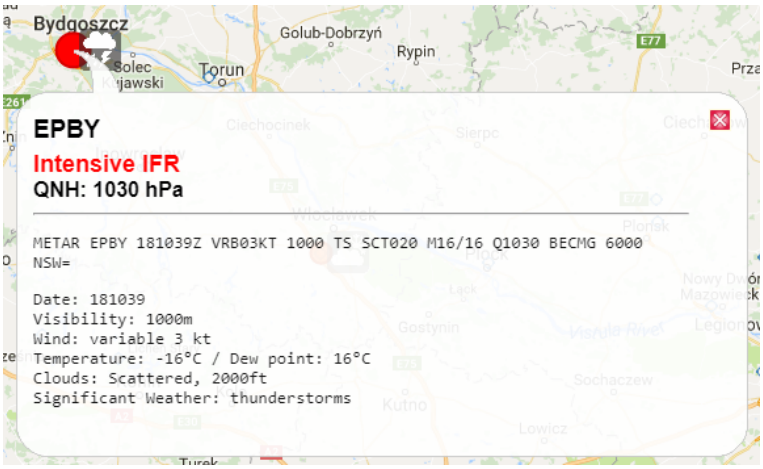
The table below lists symbols used to indicate severe meteorological phenomena:

Icon	Meteorological Phenomenon
	Thunderstorm
	Fog
	Heavy snow
	Heavy precipitations
	Wind > 20 kt

   - Click on the airport symbol to open Feature Info window (see Chapter 7, *Feature Info Window*). The METAR/TAF/SIGMET/AD WARNING tabs contain respective meteorological messages issued for the airport in a full format. If no such message has been issued, no messages are available or cannot be displayed (e.g. connection issues), NIL is shown in the respective tab.



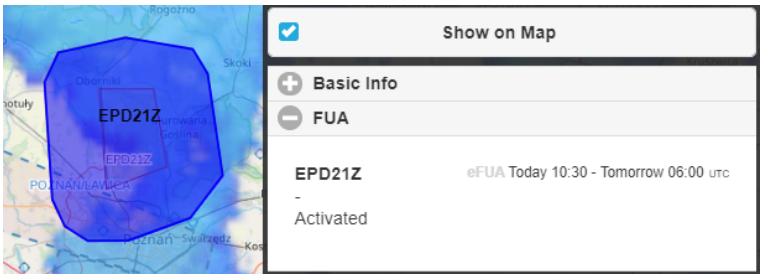
- A content of airport MET messages can also be seen in a tooltip in a map window (see picture below) by clicking on MET symbol of an airport of question.



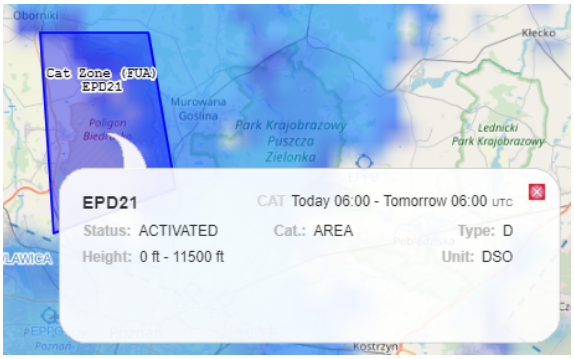
7. **Area MET Messages**
   - Click into the map within the FIR boundaries (assuming that Airspaces FIR layer is activated in Layer List, see Section 4.1, “Layers”) to open Feature Info window (see Chapter 7, *Feature Info Window*). The Forecast, SIGMET, GAMET, AIRMET and FIR WARNING tabs contain respective meteorological messages issued for the FIR in a full format. If no such message has been issued, no messages are available or cannot be displayed (e.g. connection issues), NIL is shown in the respective tab.

8. **FUA Messages**

- Click in a map view on a spot inside a specified FUA area over the European territory (assuming that at least one FUA Europe layer is enabled in Layer List, see Section 4.1, “Layers”) to open Feature Info window (see Chapter 7, *Feature Info Window*) for a list of messages pertaining to, and issued for the respective FUA area (if any). The messages are listed under FUA item of Feature Info menu.

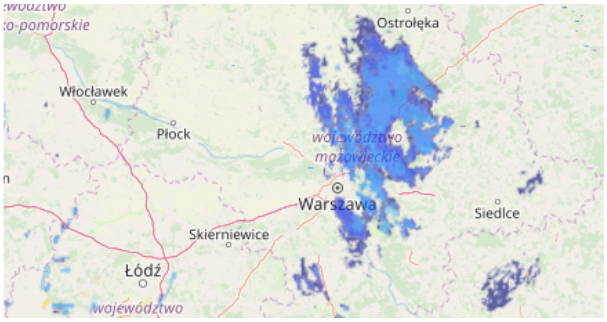


- Information on a specified FUA area over the Polish territory (FUA Poland - CAT) can be available via a tooltip (see picture below) assuming that the layer containing the respective FUA area is enabled in Layer List (see Section 4.1, “Layers”).



- A list of FUA messages issued for a specified FIR/FUA area can be seen in FUA window (see Section 3.12, “FUA”) containing control elements for message search/retrieval under specified filtering criteria.

9. **FUA (EAUP/EUUP) Areas**
   - Both Activated and Planned FUA areas over the European territory (FUA Europe; EAUP/EUUP) and over the Polish territory (FUA Poland - CAT) are, on a map displayed as separate layers to be enabled/disabled in Active Airspaces layer of Map settings window (see Section 4.1, “Layers”)

10. **Weather Radar Images**

    Weather-radar images are displayed in the map as respective layers of "Animated METEO" sub-menu (see Section 4.1, “Layers”). The attributes of an image display are specified in off-line configuration.