



GB-NATS-AIM-IBS2

IBS2 User Manual

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V1.4

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FREQUENTIS COMSOFT GmbH

Wachhausstr. 5a, 76227 Karlsruhe, Germany, <http://www.frequentis-comsoft.com/>

Commercial Register Mannheim HRB 724029, Managing Director: Constantin von Reden

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1 Introduction

1.1 Purpose of the Document

This manual describes the use of Internet Briefing System (IBS2).

NOTICE Do not use FCO systems together with non-SAT tested equipment. Any use of equipment not tested during SAT can cause severe malfunctions of or damages to the system. FCO does not assume any liability for the consequences of such actions.

INFO Any use of the system beyond the scope of the actions described in this manual will be regarded as improper use of the application. FCO does not assume any liability for the consequences of improper use.

INFO Because of different configuration options, this document can cover aspects that are not valid for your specific software delivery.

INFO FCO products are highly customizable. This document can contain screenshots and illustrations that do not fully comply with your specific product version as they show the standard scope of options of the user interface.

1.2 Target Group

This manual describes user activities for IBS2.

INFO This product can contain GUI areas and/or send system messages that cannot be translated. Only staff with adequate understanding of technical English shall use this product.

1.3 References

Documents

INFO All FCO documents are unpublished documents, i.e. they are available only via FCO. If no publication year is given, the reference refers to the most current version of the respective document.

FCO Documents	Doc ID
IBS2 Administrator Manual	IBS2_ADMAN

Other References

This manual is based on product manual version V1.4.

1.4 Typographical Conventions

The following conventions are used in this document:

Rule	Example
Italics highlight names of: <ul style="list-style-type: none"> GUI elements (fields, buttons, checkboxes, menu items, etc.) parameters and attributes 	Select <i>Message</i> > <i>Pending Messages</i> . Click <i>Send</i> . Specify a value for the attribute <i>TrackFilter</i> .
Courier New highlights: <ul style="list-style-type: none"> values to be selected or entered commands to be entered by the user filenames and paths 	The standard value is 25. To eject the DVD enter: <code>cd; eject cdrom</code> Import the file <code>application_data.xml</code> .
Grey background highlights computer-generated output, e.g. system messages.	Unable to launch the application:
Bold highlights status indications.	The status of the proposal is Revoked .
Courier New with frame highlights keys.	Press <code>Ctrl</code> + <code>F3</code> .
Courier New highlights short code examples in text.	The tag <code><polygon name="P_GLOBAL"></code> specifies a polygon name.
Courier New with frame highlights more complex code examples.	<pre><categories> <category cat="4" /> </categories></pre>
Angle brackets indicate placeholders in text.	To load a file, enter <code>load <filename></code> .

To indicate user actions, the following conventions are used:

Convention	Description
Prerequisite:	Describes preconditions to a user action
1. Open...	Indicates the order of required user actions to perform a task.
2. Enter...	
► Result	Indicates the result of an action.

To highlight special information, the following conventions are used:

INFO Indicates important information, hints, and tips.

NOTICE Indicates actions that can lead to unwanted effects, damage or loss of property, e.g. data loss or additional workload.

SAFETY INSTRUCTIONS Indicates steps to avoid hazardous situations.

⚠ CAUTION**Light injuries likely!**

Indicates the risk of a hazardous situation that can lead to minor or moderate injuries.

Includes the measures to avoid the hazardous situation.

⚠ WARNING**Severe injuries likely or death possible!**

Indicates the risk of a hazardous situation that can lead to serious injuries or death.

Includes the measures to avoid the hazardous situation.

⚠ DANGER**Death almost sure: e.g. Electric shock!**

Indicates the risk of a hazardous situation that will most probably lead to death.

Includes the measures to avoid the hazardous situation.

1.5 Safety and Security

General Instructions

NOTICE Read this manual carefully and keep it for future use. It provides relevant information to use this product safely and as designed. Make sure to keep a hard copy for offline reference.

NOTICE Administration, use, and maintenance of this product require expertise and training. Make sure that only qualified and authorised staff has access to the product to ensure reliability and integrity of functionality and data and avoid hazards to safety and security.

INFO The English version of this manual is the original version. All other language versions of this manual are translations. In case of doubt, the English version is valid.

INFO FCO systems use Coordinated Universal Time (UTC) only. This is an ICAO requirement.

License Type Implications

NOTICE This system is a licensed product. The licence type limits the intended and authorised use of the system, e.g. as a system for testing, training, contingency or as an operational system. Any use of the system in a manner not supported by its license is misuse of the product and strictly prohibited.

NOTICE Only systems with a license for operational use meet the stringent requirements for an operational deployment; in particular, only these systems undergo a safety assessment. The system must be strictly operated in compliance with the purchased license type. FCO assumes no liability for damages or claims arising from use of the system not fitting its intended use and license type. FCO further reserves the right to seek legal action for such misuse of the system.

Linux User Account root

NOTICE Severe damage to your system is possible. Do not give unqualified staff access to the user account `root`.

The user account `root` is a default Linux administrator account. With this user account you can do fundamental changes to the system. This user account must be used only by staff with expert knowledge of Linux, the specific product, and the context that this product is used in.

SAFETY INSTRUCTIONS When you create user accounts, make sure that your user account definitions are restricted to the tasks or fields of action that this specific user has to perform.

INFO Customer-specific user accounts can be part of the FCO delivery. In this case, the user concept can be very complex.

Factory Passwords

NOTICE To change the factory/maintenance/troubleshooting passwords is mandatory to avoid unintended product access and resulting damage to product functionality or data integrity. In addition, periodical change of passwords is recommended to maintain security.

SAFETY INSTRUCTIONS For safer use of passwords, observe the following instructions:

- To change the factory password is a critical security requirement and mandatory by contract.
- Make sure that factory passwords or login data handed to FCO for maintenance or troubleshooting are changed after SAT and after the respective maintenance or troubleshooting task is completed.
- FCO will consider all factory passwords and all intermediate login data handed over to FCO as changed or blocked after SAT or completion of the respective task and will take no liability for any damage that results from violation of this safety requirement.

INFO Login descriptions use the factory passwords. Make sure you have your own changed passwords at hand.

Use of USB Sticks

NOTICE USB sticks can easily be contaminated and then damage your system. FCO does not assume any liability for the use of USB sticks.

SAFETY INSTRUCTIONS For safer use of USB sticks, observe the following instructions:

- Make sure to use only malware-free USB sticks from a trusted source.
- Designate a specific USB stick for FCO use.
- Do not use this USB stick in other environments, not even if the environment is protected.
- Do not use this USB stick for purposes other than the operations described in this manual.
- Delete all temporary data that is no longer needed from this USB stick.

- Make sure to protect this USB stick against unauthorized access.
- Download update files only from the official website/download portal of the software manufacturer or representatives authorized by the software manufacturer.

INFO The operating organisation is responsible for safe access to the Internet.

2 Login

Step 1 (open screen)

From the *Login* menu, click the *EAD Basic* button. The login screen appears.

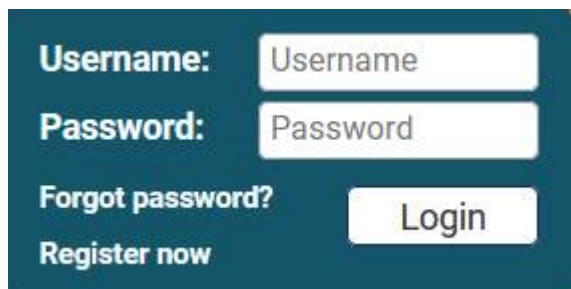
The image shows a login form on a dark blue background. It contains four labels: 'Username:', 'Password:', 'Forgot password?', and 'Register now'. The 'Username:' and 'Password:' labels are followed by white input fields with the placeholder text 'Username' and 'Password' respectively. The 'Forgot password?' label is followed by a white 'Login' button. The 'Register now' label is at the bottom left.

Fig. 1: Login Form

If you do not have a username and password, [refer to 3.2 Reset Password](#).

If you forgot your password, [refer to 3.1 Register](#).

Step 2 (fill in form)

Enter your *User Name* and *Password*.

Step 3 (submit)

Click the *Login* button.

INFO It is not possible to be logged in simultaneously with the same user account from different PCs.

3.1 Register

Step 1 (open screen)

Click the *Login* button then click *Register now*. The *Register now* screen appears.

Register now

User Identity

User Name (case sensitive) *

E-mail Address *

Confirm E-Mail Address *

Contact Details

Lastname *

Firstname *

Date of Birth *

Address *

Postal Code *

City/State *


Country *

Mobile Phone Number *

Home Phone Number

Language *

Accept e-mail

☒

Terms and Conditions

☐ I have read and understood the [Terms and Conditions](#) and I wish to register *

 **Submit**

Fig. 2: Registration Form

Step 2 (define user information)

Enter the necessary information in the available fields. The fields marked with an asterisk (*) are mandatory. Read and understand the *Terms and Conditions* and select the corresponding box at the bottom of the mask.

Step 3 (submit registration form)

Click on the *Submit* button. Your user information will be stored and an account will be created, however you have to wait until the ARO staff approves your registration. This takes usually maximum 1 hour. You will be informed via email when you can start using the Internet Briefing System.

3.2 Reset Password

Step 1 (open screen)

Click the *Forgot password?* button if password is forgotten. The *Reset password* screen appears.

Reset password



User Identity

Username or e-mail *

✓ Request ✖ Clear

* indicates required fields

Fig. 3: Reset Password

Step 2 (fill in form)

Enter the *User Name* or *E-mail Address* for which you want to reset the password.

Step 3 (submit)

Click the *Request* button. You will receive an Email with the reset password link.

3.3 Change Password

You can change your password at any time:

Step 1 (open screen)

You have to open *User Profile* and press the button *Personal Settings*.

[Home](#) > [User Profile](#) > [Personal Settings](#)

Personal Settings

User Identity

User Name (case sensitive)

LOCALUSER

Password (case sensitive)

Confirmed Password

E-mail Address *

Confirm E-Mail Address *

Fig. 4: Personal Settings

Step 2 (define new password)

Opening your Personal Settings form: In the *Password* field fill in your new password and confirm it in the *Confirmed Password* field and make sure that it:

- has to contain at least 8 characters
- must not exceed 40 characters
- will be stronger if it includes numeric, letters and special characters
- distinguishes between upper and lower case letters.

Step 3 (save Personal Settings form)

Now click on the *Save Userdata* button at the bottom and the new password is saved.

4 Pre-Flight Briefing (PIB)

4.1 Aerodrome PIB

Step 1 (open screen)

Select *Pre-Flight Briefing* > *Aerodrome PIB*. The *Aerodrome PIB* screens appears.

Aerodrome PIB

General

Callsign

Briefing Options ▾

Aerodromes (at least one Aerodrome must be added) *



Vertical Filter

Lower FL *

Upper FL *

Aerodrome Radius

 NM

Validity Period - UTC

From *



To *



✳ Generate

↺ Reset

Fig. 5: Aerodrome PIB

Step 2 (define briefing options)

The system allows you to enter filter criteria concerning the message types that you want to have included in the PIB.

Fig. 6: Briefing Options

Message Type

Select the message type or types that you want to have included in the PIB.

Briefing Type

Briefing type lets you choose which kind of NOTAM you wish to have included in your PIB: international, national and/or military NOTAM. One of the check boxes must be selected (if none is selected an error message is raised).

Flight Rules


The system requires you to select one of the flight rules.

- IFR stands for Instrument Flight Rules. A flight conducted in accordance with the Instrument Flight Rules is an IFR flight.
- VFR stands for Visual Flight Rules. A flight conducted in accordance with the Visual Flight Rules is a VFR flight.
- The third option is a combination of IFR and VFR.


NOTAM Purpose

- *Maximum*: Includes NOTAM with any purpose
- *Standard*: Includes NOTAM with purpose containing B and NOTAM with purpose containing O

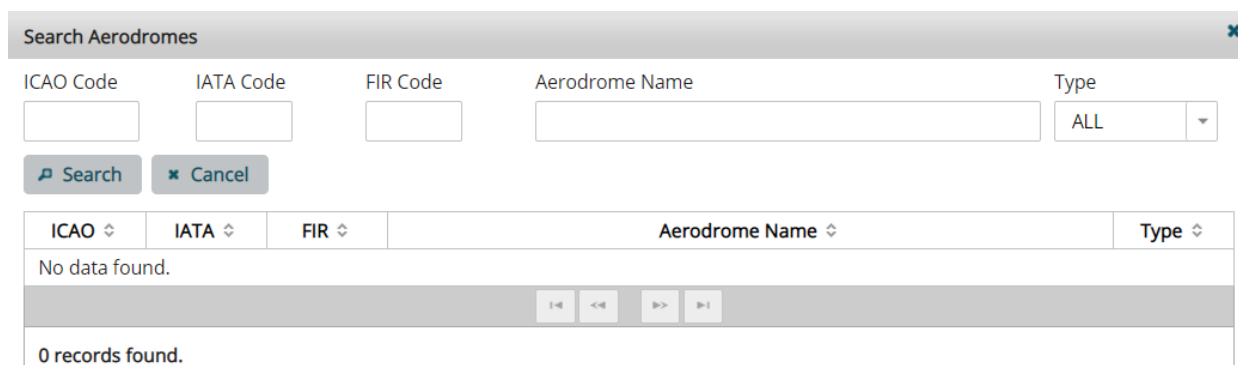
Step 3 (define aerodromes)

In the *Identifier* field enter the ICAO location indicator of the aerodromes for which you want to generate the PIB and click the  button. Below the *Aerodromes* table, *Total* displays the current number of aerodromes listed.

The ICAO location indicator of aerodromes consists of a four-letter combination.

If you do not know the ICAO location indicator, click on the  button. The *Search Aerodromes* page appears and allows you to search for an aerodrome. You can search for an aerodrome by

ICAO code, IATA code, FIR code, the aerodrome name or the type of aerodrome (aerodrome, heliport, landing site). Enter part of the ICAO code (for example, LO or ED) or the other fields and click *Search*. All aerodromes that meet the entered search criteria are displayed.



Search Aerodromes

ICAO Code IATA Code FIR Code Aerodrome Name Type

ALL

Search Cancel

ICAO	IATA	FIR	Aerodrome Name	Type
No data found.				
1-4 << >> 5-1				
0 records found.				

Fig. 7: Search Aerodromes

Click on the aerodrome you want to add to your PIB. The selected aerodrome appears in the aerodrome list.

Step 4 (define vertical filter)


Define the *Lower FL*, *Upper FL* and *Aerodrome Radius* around the aerodromes (default 5NM) in nautical miles.

Step 5 (define validity period)

From time is calculated on the basis of the client time. The client time is converted to UTC time according to the set time zone. *To* time displays the *From* time plus 24 hours.

Define the time range for which you want to have NOTAM included in the PIB. All NOTAM and messages of other selected types that are valid within the selected time range will be included in the PIB.

To define the *From* and *To* dates, either type in the values manually or use the *Calendar* pop-up.

To open the *Calendar* pop-up, click the  button. Select a month and day and click OK. The entered date must be the current date or a date in the future.

Step 5 (generate PIB)

To generate the Aerodrome PIB, click on the *Generate* button. The PIB lists NOTAM and selected messages by aerodromes.

The header of the PIB displays some of the selected filter criteria, for example:

- Generation date and time of the bulletin in UTC
- The Reference number of the report
- Selected Validity time period of PIB in UTC
- Selected Service Type

- Selected Flight Rules (IFR, VFR or IFR/VFR)
- What is included in the PIB (selected message types)
- Selected aerodromes
- Contents of PIB
- Selected briefing type(s)

A disclaimer is included at the end of the PIB and for each empty section.

▾ Aerodrome PIB

[Send as Email](#)
[Print \(PDF\)](#)

Report reference no: EG712105210006 VALIDITY (UTC): 21 MAY 2021 12:25 - 21 MAY 2021 18:19
 Service Type: FULL
 Briefing Type: Aerodrome PIB includes: , Aerodromes, International, Military
 Flight Rules: IFR/VFR Height Limits: Lower: 000 Upper: 999
 Aerodromes: EGLL

[PIB](#)
[Map](#)
[Charts](#)

EGLL (LONDON HEATHROW)

Select All



Q)EGTT/QFAXX/IV/NBO/A/000/999/5129N00028W005

B)1902141111 C)PERM

E)ADD TO AERODROME OBSTACLES IN CIRCLING AREA AND AT AERODROME:

1 2 3 4 5
 C11/17/21 CRANE 513020.75N 0002230.11W 456FT AMSL STEADY RED
 AIP EGLL AD 2.10 REFERS

A0448/19



Q)EGTT/QFAXX/IV/NBO/A/000/999/5129N00028W005

B)1902141115 C)PERM

E)ADD TO AERODROME OBSTACLES IN CIRCLING AREA AND AT AERODROME:

1 2 3 4 5
 C04/18/37 CRANE 513025.00N 0002313.79W 349FT AMSL STEADY RED
 AIP EGLL AD 2.10 REFERS

A0449/19



Q)EGTT/QFAXX/IV/NBO/A/000/999/5129N00028W005

B)1902141120 C)PERM

E)ADD TO AERODROME OBSTACLES IN CIRCLING AREA AND AT AERODROME:

1 2 3 4 5
 C12/18/05 CRANE 513013.55N 0002530.04W 383FT AMSL STEADY RED
 AIP EGLL AD 2.10 REFERS

A0450/19



Fig. 8: Aerodrome PIB

Step 6 (optional: send PIB in email)

The PIB can be sent via e-mail. To send the PIB to one or more e-mail recipients, click the *Send as Email*. The *Email addresses* dialog opens:

A screenshot of a software dialog box titled "E-mail" with a close button (X) in the top right corner. Below the title bar is a text input field labeled "Recipient". At the bottom of the dialog are two buttons: "Submit" and "X Close".

E-mail

Recipient

Submit X Close

Fig. 9: E-mail

You can define a distribution list in this dialog by entering the e-mail addresses separated by commas.

Step 7 (optional: generate PDF)

The PIB can be exported to a PDF file by clicking on *Print PDF* button.

4.2 Area PIB

Step 1 (open screen)

Select *Pre-Flight Briefing* > *Area PIB*. The *Area PIB* screen appears.

Area PIB

General

Callsign

Briefing Options ▾

FIRs (enter at least one FIR) *

 + ★ ↻

ICAO Code ▾	FIR Name ▾	
EGTT	LONDON FIR	

Total: 1/20

Vertical Filter

Lower FL *

Upper FL *

Validity Period - UTC

From *

To *

Generate

Reset

Fig. 10: Area PIB

Step 2 (define briefing options)

The system allows you to enter filter criteria concerning the message types that you want to have included in the PIB.

Message Type

Select the message type or types that you want to have included in the PIB.

Briefing Type

Briefing type lets you choose which kind of NOTAM you wish to have included in your PIB: international, national and/or military NOTAM. One of the check boxes must be selected (if none is selected an error message is raised).

Flight Rules


The system requires you to select one of the flight rules.

- IFR stands for Instrument Flight Rules. A flight conducted in accordance with the Instrument Flight Rules is an IFR flight.
- VFR stands for Visual Flight Rules. A flight conducted in accordance with the Visual Flight Rules is a VFR flight.
- The third option is a combination of IFR and VFR.


NOTAM Purpose

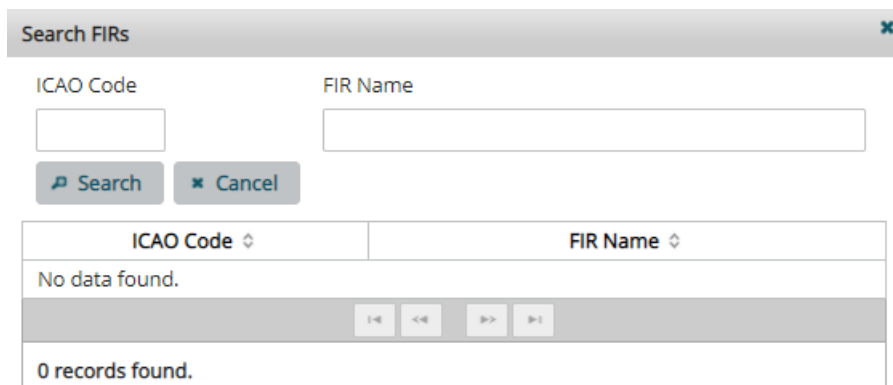
- *Maximum*: Includes NOTAM with any purpose
- *Standard*: Includes NOTAM with purpose containing B and NOTAM with purpose containing O

Step 3 (define FIRs)

In the *Identifier* field enter the ICAO location indicator of the FIR(s) for which you want to generate the PIB and click the  button. Below the *FIRs* table, *Total* displays the current number of FIRs.

The ICAO location indicator of FIRs consists of a four-letter code.

If you do not know the ICAO location indicator, click on the  button. The *Search FIRs* page appears and allows you to search for a FIR. You can search for a FIR by ICAO code or the FIR name. Enter part of the ICAO code (for example, LO or ED) or the other fields and click *Search*. All FIRs that meet the entered search criteria are displayed.



ICAO Code	FIR Name
No data found.	
0 records found.	

Fig. 11: Search FIRs

Click on the FIRs you want to add to your PIB. The selected FIR appears now in the FIR list.

Step 4 (define vertical filter)


Define the *Lower FL* and *Upper FL*.

Step 5 (define validity)

From time is calculated on the basis of the client time. The client time is converted to UTC time according to the set time zone. *To* time displays the *From* time plus 24 hours.

Define the time range for which you want to have NOTAM included in the PIB. All NOTAM and messages of other selected message types that are valid within the selected time range will be included in the PIB.

To define the *From* and *To* dates, either type in the values manually or use the *Calendar* pop-up.

To open the *Calendar* pop-up, click the  button. Select a month and day and click *OK*. The entered date must be the current date or a date in the future.

Step 5 (generate PIB)

To generate the Area PIB, click on the *Generate* button. The PIB lists NOTAM by aerodromes.

The header of the PIB displays some of the selected filter criteria, for example:

- Generation date and time of the bulletin in UTC
- The Reference number of the report
- Selected Validity time period of PIB in UTC
- Selected Service Type
- Selected Flight Rules (IFR, VFR or IFR/VFR)
- What is included in the PIB (selected message types)
- Selected aerodromes
- Contents of PIB
- Selected briefing type(s)

A disclaimer is included at the end of the PIB and for each empty section.

4.3 Route PIB

Step 1 (open screen)

Select *Pre-Flight Briefing > Route PIB*. The *Route PIB* screen appears.

Route PIB

General

Callsign

Briefing Options ▾

Aerodromes

Departure Aerodrome *

Destination Aerodrome *

Alternate Aerodromes

Crossed FIRs

     [Resolve FIRs](#)

Vertical Filter

Lower FL *


Upper FL *

Aerodrome Radius


 NM

Validity Period - UTC

From *

To *

Generate

 Reset

Fig. 12: Route PIB

Step 2 (define briefing options)

The system allows you to enter filter criteria concerning the message types that you want to have included in the PIB.

Message Type

Select the message type or types that you want to have included in the PIB.

Briefing Type

Briefing type lets you choose which kind of NOTAM you wish to have included in your PIB: international, national and/or military NOTAM. One of the check boxes must be selected (if none is selected an error message is raised).

Flight Rules

The system requires you to select one of the flight rules.


- IFR stands for Instrument Flight Rules. A flight conducted in accordance with the Instrument Flight Rules is an IFR flight.
- VFR stands for Visual Flight Rules. A flight conducted in accordance with the Visual Flight Rules is a VFR flight.
- The third option is a combination of IFR and VFR.

NOTAM Purpose


- *Maximum*: Includes NOTAM with any purpose
- *Standard*: Includes NOTAM with purpose containing B and NOTAM with purpose containing O

Step 3 (define Aerodromes)

Define the *Departure Aerodrome*, *Destination Aerodrome*, and optionally, *Alternate Aerodromes*.

In the *Identifier* field enter the ICAO location indicator of the aerodromes and click the  button. On the lower left side of the *Aerodromes* section, *Total* displays the current number of aerodromes.

The ICAO location indicator of aerodromes consists of a four-letter code.

If you do not know the ICAO location indicator, click on the  button. The *Search Aerodromes* page appears and allows you to search for an aerodrome. You can search for an aerodrome by ICAO code, IATA code, FIR code, the aerodrome name or the type of aerodrome (aerodrome, heliport, landing site). Enter part of the ICAO code (for example, LO or ED) or the other fields and click *Search*. All aerodromes that meet the entered search criteria are displayed.

Step 4 (define crossed FIRs)

Enter the crossed FIRs. It is possible to resolve FIRs based on the direct line between departure and destination aerodrome that you have entered above by clicking *Resolve FIRs*.

Step 5 (define vertical filter)


Define the *Lower FL*, *Upper FL* and the *Aerodrome Radius* (default 5NM) in nautical miles.

Step 6 (define validity)

From time is calculated on the basis of the client time. The client time is converted to UTC time according to the set time zone. *To* time displays the *From* time plus 24 hours.

Define the time range for which you want to have NOTAM included in the PIB. All NOTAM and messages of other selected message types that are valid within the selected time range will be included in the PIB.

To define the *From* and *To* dates, either type in the values manually or use the *Calendar* pop-up.

To call the *Calendar* pop-up, click the  button. Select a month and day and click *OK*. The entered date must be the current date or a date in the future.

Step 7 (generate PIB)

To generate the Route PIB, click on the *Generate* button. The PIB lists NOTAM by aerodromes.

4.4 Narrow Route PIB

Step 1 (open screen)

Select *Pre-Flight Briefing* > *Narrow Route PIB*. The *Narrow Route PIB* screen appears.

Narrow Route PIB

General

Callsign

Briefing Options ▾

Aerodromes / Routes

Departure Aerodrome *

Destination Aerodrome *

Alternate Aerodromes

Route *

★ My Routes

 Map

Crossed FIRs

Resolve FIRs

Vertical Filter

Lower FL *

Upper FL *

Narrow Route Width *


 NM

Aerodrome Radius


 NM

Validity Period - UTC

From *

To *

Generate

Reset

Fig. 13: Narrow Route PIB

Step 2 (define briefing options)

The system allows you to enter filter criteria concerning the message types that you want to have included in the PIB.

Message Type

Select the message type or types that you want to have included in the PIB.

Briefing Type

Briefing type lets you choose which kind of NOTAM you wish to have included in your PIB: international, national and/or military NOTAM. One of the check boxes must be selected (if none is selected an error message is raised).

Flight Rules

The system requires you to select one of the flight rules.


- IFR stands for Instrument Flight Rules. A flight conducted in accordance with the Instrument Flight Rules is an IFR flight.
- VFR stands for Visual Flight Rules. A flight conducted in accordance with the Visual Flight Rules is a VFR flight.
- The third option is a combination of IFR and VFR.

NOTAM Purpose


- *Maximum*: Includes NOTAM with any purpose
- *Standard*: Includes NOTAM with purpose containing B and NOTAM with purpose containing O

Step 3 (define Aerodromes)

Define the *Departure Aerodrome*, *Destination Aerodrome*, and optionally, *Alternate Aerodromes* (Alternate aerodromes can be specified, but no ENR information is given about the route from the narrow route path to the alternate aerodrome)..

In the *Identifier* field enter the ICAO location indicator of the aerodromes and click the  button. On the lower left side of the *Aerodromes* section, *Total* displays the current number of aerodromes.

The ICAO location indicator of aerodromes consists of a four-letter code.

If you do not know the ICAO location indicator, click on the  button. The *Search Aerodromes* page appears and allows you to search for an aerodrome. You can search for an aerodrome by ICAO code, IATA code, FIR code, the aerodrome name or the type of aerodrome (aerodrome, heliport, landing site). Enter part of the ICAO code (for example, LO or ED) or the other fields and click *Search*. All aerodromes that meet the entered search criteria are displayed.

Step 4 (define Route)

Enter a valid route string for the route you want to be taken into consideration.

Step 5 (define crossed FIRs)

Enter the crossed FIRs. It is possible to resolve FIRs based on the departure and destination aerodromes that you have entered above by clicking *Resolve FIRs*. The list of FIRs is populated automatically from the associated flight plan/predefined route. The list contains all FIRs along the route, taking into account the route width and radius around an Aerodrome.

Step 6 (define vertical filter)

Define the *Lower FL* and the *Upper FL* in nautical miles.

Step 7 (define Narrow Route width and Aerodrome radius)


Define the *Narrow route width* (default 20NM) and the *Aerodrome Radius* (default 5NM) in nautical miles.

Step 8 (define validity)

From time is calculated on the basis of the client time. The client time is converted to UTC time according to the set time zone. *To* time displays the *From* time plus 24 hours.

Define the time range for which you want to have NOTAM included in the PIB. All NOTAM and messages of other selected message types that are valid within the selected time range will be included in the PIB.


To define the *From* and *To* dates, either type in the values manually or use the *Calendar* pop-up.

To call the *Calendar* pop-up, click the  button. Select a month and day and click *OK*. The entered date must be the current date or a date in the future.

Step 9 (generate PIB)

To generate the Route PIB, click on the *Generate* button. The PIB lists NOTAM by aerodromes.

Step 11 (optional: generate PDF)

The PIB can be exported to a PDF file by clicking on the PDF symbol ().

4.5 Zone PIB

Step 1 (open screen)

Select *Pre-Flight Briefing > Zone PIB*. The *Zone PIB* screens appears.

Zone PIB

General

Callsign

Briefing Options ▾

Aerodromes / Area

Zone coordinates / Polygon *



Map

Aerodromes



Vertical Filter

Lower FL *

Upper FL *

Aerodrome Radius

 NM

Validity Period - UTC

From *

To *

Generate

Reset

Fig. 14: Zone PIB

Step 2 (define briefing options)

The system allows you to enter filter criteria concerning the message types that you want to have included in the PIB.

Fig. 15: Briefing Options

Message Type

Select the message type or types that you want to have included in the PIB.

Briefing Type

Briefing type lets you choose which kind of NOTAM you wish to have included in your PIB: international, national and/or military NOTAM. One of the check boxes must be selected (if none is selected an error message is raised).

Flight Rules

The system requires you to select one of the flight rules.

- IFR stands for Instrument Flight Rules. A flight conducted in accordance with the Instrument Flight Rules is an IFR flight.
- VFR stands for Visual Flight Rules. A flight conducted in accordance with the Visual Flight Rules is a VFR flight.
- The third option is a combination of IFR and VFR.

NOTAM Purpose

- *Maximum*: Includes NOTAM with any purpose
- *Standard*: Includes NOTAM with purpose containing B and NOTAM with purpose containing O

Step 3 (define aerodromes/area)


Zone Coordinates / Polygon

To define an area, click the button *Map*.


You can also enter a polygon with coordinates, e.g. 5551N01733E 4942N00516E 4455N02558E.

Aerodromes

Additionally, in the *Aerodromes* field you can enter the ICAO location indicator of the aerodromes for which you want to generate the PIB and click the

 button. Below the *Aerodromes* table, *Total* displays the current number of aerodromes listed.

INFO The ICAO location indicator of aerodromes consists of a four-letter combination.

If you do not know the ICAO location indicator, click on the  button. The *Search Aerodromes* page appears and allows you to search for an aerodrome. You can search for an aerodrome by ICAO code, IATA code, FIR code, the aerodrome name or the type of aerodrome (aerodrome, heliport, landing site). Enter part of the ICAO code (for example, LO or ED) or the other fields and click *Search*. All aerodromes that meet the entered search criteria are displayed.

Click on the aerodrome you want to add to your PIB. The selected aerodrome appears in the aerodrome list.

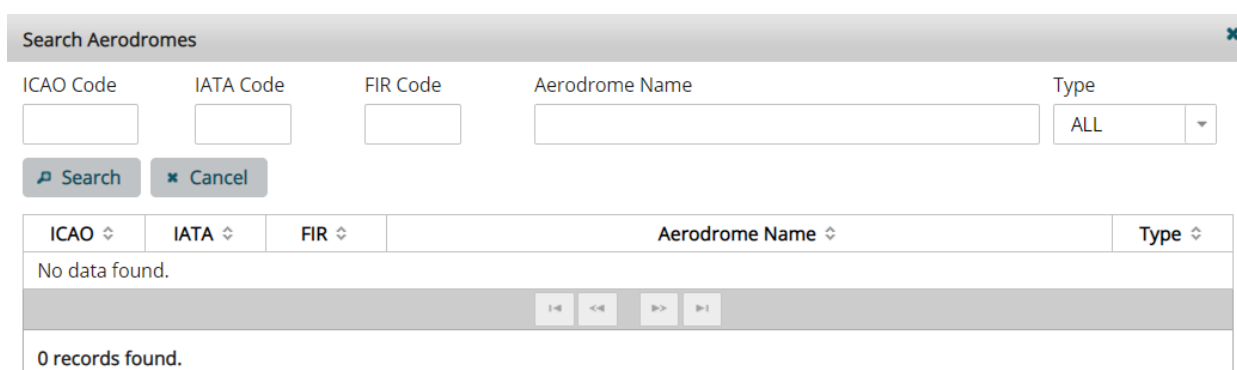


Fig. 16: Search Aerodromes

Step 4 (define vertical filter)


Define the *Lower FL*, *Upper FL* and *Aerodrome Radius* (optional) around the aerodromes (default 5NM) in nautical miles.

Step 5 (define validity period)

From time is calculated on the basis of the client time. The client time is converted to UTC time according to the set time zone. *To* time displays the *From* time plus 24 hours.

Define the time range for which you want to have NOTAM included in the PIB. All NOTAM and messages of other selected types that are valid within the selected time range will be included in the PIB.

To define the *From* and *To* dates, either type in the values manually or use the *Calendar* pop-up.

To open the *Calendar* pop-up, click the  button. Select a month and day and click *OK*. The entered date must be the current date or a date in the future.

Step 5 (generate PIB)

To generate the Zone PIB, click on the *Generate* button. The PIB lists NOTAM and selected messages by FIRs.

Step 6 (optional: send PIB in email)

The PIB can be sent via e-mail. To send the PIB to one or more e-mail recipients, click the *Send as Email*. The *Email addresses* dialog opens:



Fig. 17: E-mail

You can define a distribution list in this dialog by entering the e-mail addresses separated by commas.

Step 7 (optional: generate PDF)

The PIB can be exported to a PDF file by clicking on *Print PDF* button.

4.6 Point PIB

Step 1 (open screen)

Select *Pre-Flight Briefing > Point Brief*. The *Point Brief* screen appears.

Point PIB

General

Callsign

Validity Period - UTC

From *

To *

Origin *

ICAO Aerodrome, Navaid or Lat/Long (e.g. 51N001W, 5100N00100W)

Briefing Options ▾

FIRs (enter at least one FIR) *



ICAO Code ▾	FIR Name ▾	
EGGX	SHANWICK FIR	

Total: 1/10

Radius NM 5-99 *

Generate

Reset

Fig. 18: Point Brief Screen

Step 2 (define validity)

From time is calculated on the basis of the client time. The client time is converted to UTC time according to the set time zone. *To* time displays the *From* time plus 24 hours.

Define the time range for which you want to have NOTAM included in the PIB. All NOTAM and messages of other selected message types that are valid within the selected time range will be included in the PIB.

To define the *From* and *To* dates, either type in the values manually or use the *Calendar* pop-up.

To open the *Calendar* pop-up, click the button. Select a month and day and click *OK*. The entered date must be the current date or a date in the future.

Step 3 (define Origin)

Enter an ICAO Aerodrome, Navaid or Lat/Long (e.g. 51N001W, 5100N00100W).

Step 4 (define Briefing Options)

The system allows you to enter filter criteria concerning the message types that you want to have included in the PIB.

Message Type

Select the message type or types that you want to have included in the PIB.

Briefing Type

Briefing type lets you choose which kind of NOTAM you wish to have included in your PIB: international, national and/or military NOTAM. One of the check boxes must be selected (if none is selected an error message is raised).

Flight Rules

The system requires you to select one of the flight rules.

- IFR stands for Instrument Flight Rules. A flight conducted in accordance with the Instrument Flight Rules is an IFR flight.
- VFR stands for Visual Flight Rules. A flight conducted in accordance with the Visual Flight Rules is a VFR flight.
- The third option is a combination of IFR and VFR.

NOTAM Purpose


- *Maximum*: Includes NOTAM with any purpose
- *Standard*: Includes NOTAM with purpose containing B and NOTAM with purpose containing O
- *Minimum*: NOTAM with purpose containing B

Step 5 (define FIRs)

In the *Identifier* field enter the ICAO location indicator of the FIR(s) for which you want to generate

the PIB and click the  button. Below the *FIRs* table, *Total* displays the current number of FIRs.

The ICAO location indicator of FIRs consists of a four-letter code.

If you do not know the ICAO location indicator, click on the  button. The *Search FIRs* page appears and allows you to search for a FIR. You can search for a FIR by ICAO code or the FIR name. Enter part of the ICAO code (for example, LO or ED) or the other fields and click *Search*. All FIRs that meet the entered search criteria are displayed.



Search FIRs

ICAO Code FIR Name

ICAO Code	FIR Name
No data found.	
<input type="button" value="First"/> <input type="button" value="Previous"/> <input type="button" value="Next"/> <input type="button" value="Last"/>	
0 records found.	

Fig. 19: Search FIRs.

Click on the FIRs you want to add to your PIB. The selected FIR appears now in the FIR list.

Step 6 (define Radius)

Enter the Radius in nautical miles (default 25) that defines the area around the *Origin* that shall be taken into consideration.

Step 7 (generate Brief)

To generate the Point Brief, click on the *Generate* button. The PIB lists NOTAM by aerodromes.

The header of the PIB displays some of the selected filter criteria, for example:

- Generation date and time of the bulletin in UTC.
- The Reference number of the report.
- Selected Validity time period of PIB in UTC.
- Selected Service Type.
- Selected Flight Rules (either IFR or VFR).
- What is included in the PIB.
- Selected aerodromes.
- Contents of PIB.
- Selected briefing type(s).

A disclaimer is included at the end of the PIB and for each empty section.

Point Brief



Pre-Flight Information Bulletin

Organisation:	Header Organisation
E-Mail:	pib@header.email
Phone:	+43.0000.00000
Bulletin generated:	08/06/2015 10:09
Report reference no:	LHBP1506080057
VALIDITY (UTC):	08 JUN 2015 10:09 - 09 JUN 2015 10:06
Service Type:	FULL
Flight Rules:	IFR/VFR
Height Limits:	Lower: 000 Upper: 999
PIB includes	NOTAM
FIR:	LHCC
Aerodromes:	LHBP
Contents:	En-route, Warnings
Briefing Type:	International,Military
NOTAM not older than:	0 days
Legend:	+ NOTAM not older than 250 days * Different from original - Beginning of the message
Select/Deselect All <input checked="" type="checkbox"/>	

LHCC: BUDAPEST FIR

Aerodrome Information

LHBP (BUDAPEST LISZT FERENC INTERNATIONAL AIRPORT)		
+ Q) LHCC/QNMAS/IV/BO/AE/000/999/4727N01915E025		
B)1506040817 C)1506262359		
E)BUDAPEST DVOR/DME BUD FREQ 117.3MHZ/CH120X OUT SERVICE DUE TO REPLACEMENT.	A1170/15	<input checked="" type="checkbox"/>
+ Q) LHCC/QNMAS/IV/BO/AE/000/999/4709N01845E025		
B)1506040912 C)1506262359		
E)PUSZTASZABOLCS DVOR/DME PTB FREQ 117.1MHZ/CH118X OUT OF SERVICE DUE TO REPLACEMENT.	A1175/15	<input checked="" type="checkbox"/>

Fig. 20: Example of an Area PIB

Step 8 (optional: send PIB in email)

The PIB can be sent via e-mail. To send the PIB to one or more e-mail recipients, click the mail

symbol (). The *Email addresses* dialog opens:

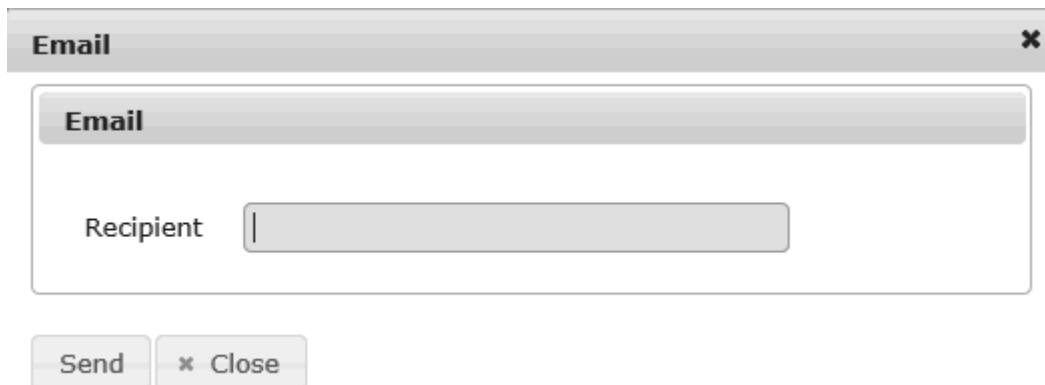
The image shows a software dialog box titled "Email" with a close button (X) in the top right corner. Inside the dialog, there is a sub-header "Email" and a text input field labeled "Recipient" with a vertical cursor. Below the input field, there are two buttons: "Send" and "X Close".

Fig. 21: Send PIB via e-mail

You can define a distribution list in this dialog by entering the e-mail addresses separated by commas.

Step 9 (optional: generate PDF)

The PIB can be exported to a PDF file by clicking on the PDF symbol ().

4.7 Briefing Handbook (Saved Briefings)

Step 1 (open screen)

From the *Pre-Flight Briefing* menu, select the *Briefing Handbook (Saved Briefings)* screen.

Briefing Handbook

Callsign	Reference No	Briefing Type	Message Type	Valid from	ADEP	ADES	
<input type="text"/>	<input type="text"/>	Briefing Type	Message Type	Last Week	<input type="text"/>	<input type="text"/>	
	EG712105210006	Aerodrome	TAM and CHART	21/05/2021 12:25			
	EG712105210005	Aerodrome	TAM and CHART	21/05/2021 11:37			
	EG712105210004	Aerodrome	TAM and CHART	21/05/2021 11:27			
	EG712105210003	Aerodrome	TAM and CHART	21/05/2021 11:26			
	EG712105210002	Aerodrome	TAM and CHART	21/05/2021 09:27			
	EG712105210001	Aerodrome	TAM and CHART	21/05/2021 08:36			
<div> 1 </div>							
<div> Use Update Pdf </div>							

Fig. 22: Briefing Handbook

Step 2 (define filter)

By default *Show most recent items* is selected, which lists all briefings of the last 10 days.

You can also select *Show all items* and click on *Refresh*. This lists all briefings of the last 90 days.

Step 3 (use the PIB)

Use

You can use the PIB as template for a new PIB.

Select the PIB you want to use as template. Click on *Use* to open the Generate PIB mask. Based on the type of PIB, the appropriate mask is opened.

- Type Aerodrome opens the Generate Aerodrome PIB mask ([refer to 4.1 Aerodrome PIB](#)).
- Type Area opens the Generate Area PIB mask ([refer to 4.2 Area PIB](#)).
- Type Route opens the Generate Route PIB mask ([refer to 4.3 Route PIB](#)).
- Type Narrow Route opens the Generate Narrow Route PIB mask ([refer to 4.4 Narrow Route PIB](#)).

Update

Select the PIB you want to show. Click on *Update* to show the PIB and all updated NOTAM. The update service is only available for PIBs not older than 3 days.

5 AIP Library

Step 1 (open screen)

Click on *AIP Library*. The *AIP Library* screen appears.

AIP Library

Authority (Code)	Publication Type	AIP Part	AIP Part Number
Czech Republic (LK)	AIC	AD	AD
	AIP		AD 0
	AMDT		AD 1
	Charts		AD 2
	SUP		

Step 2 (define filter criteria)

The AIP Library screen contains filter possibilities for filtering the AIPs.

Authority (Code)

Select for which authority you want to search for AIPs.

Publication Type

Select the type of the publication.

- AIC
- AIP
- AMDT
- Charts
- SUP

AIP Part

If you selected *Publication Type* AIP, select the AIP Part:

- GEN
- ENR
- AD

AIP Part Number

Select the number for the AIP part.

Search

Enter a free-text search string. The search is case-sensitive. It searches the filename and the title.

Step 3 (search for AIPs)

Click on *Search* to get a list of AIPs that match your filter criteria.

AIP Library

Authority (Code)

Publication Type

AIC
AIP
AMDT
Charts
SUP

AIP Part

AIP Part Number

GEN 0
GEN 1
GEN 2
GEN 3

Search

Number of search results: 7

Publication Type	Effective Date	Name	Title	
AIP	2020-07-16	BG_GEN_0_3_en.pdf	GEN 0.3 Record of AIP supplements	
AIP	2020-07-16	BG_GEN_0_4_en.pdf	GEN 0.4 Checklist of AIP pages	
<div> Authority (Code): LB Authority Type: C Language: EN Publication Type: AIP AIP Part: GEN Effective Date: 2020-07-16 Section: GEN 0.4 </div>				
AIP	2020-11-30	LB_GEN_0_2_en.pdf	GEN 0.2 Record of AIP amendments	
AIP	2020-11-30	LB_GEN_0_3_en.pdf	GEN 0.3 Record of AIP supplements	
AIP	2020-11-30	LB_GEN_0_4_en.pdf	GEN 0.4 Checklist of AIP pages	
AIP	2020-11-30	LB_GEN_0_5_en.pdf	GEN 0.5 List of hand amendments to the AIP	
AIP	2020-09-29	TEST_AIP_SAIMPH-104.pdf	TEST SAIMPH-104	

Fig. 23: Search for AIPs

Step 4 (show the AIP)

Show details

Click on the button to show the details of the AIP.

Click on the PDF file name of the AIP to open it.

6 User Profile

6.1 Personal Aerodromes

On the Personal Aerodromes page you can:

- View your personal aerodromes.
- Create new personal aerodromes.
- Edit your personal aerodromes.
- Delete one or all personal aerodromes.

Predefined *personal aerodromes* can be used to add a set of favorite aerodromes. You can use this feature wherever you can find the button  next to the aerodrome input field in the whole application.

Step 1 (open screen)

From the *User Profile* menu, select the *Personal Aerodromes* screen.



Personal Aerodromes

Identifier ↕	Aerodromes ↕
CZECH	LKPR, LKMO, LKKV, LKTB
<div> ⏪ <⏪ 1 ⏩ ⏪ </div>	
<div> + New 🔍 View ✎ Edit 🗑 Delete 🗑 Delete All </div>	

Fig. 24: Personal Aerodromes

Step 2 (option: create new)

Click on *New* to create a new personal aerodromes list. Define the name of your personal aerodromes list and the included aerodromes. You can either use the direct input of the ICAO code or search for an aerodrome.





- Direct input: Type the 4-digit ICAO code in the *Aerodromes* input field and click on . The aerodrome is now added to the aerodromes list.
- Click on . For detailed instructions [refer to 4.1 Aerodrome PIB](#).

Personal Aerodromes

Aerodrome List Identifier *

CZECH

Aerodromes (at least one Aerodrome must be added) *

ICAO Code ↕	IATA Code ↕	FIR Code ↕	Aerodrome Name ↕	Type ↕	
LKPR	PRG	LKAA	PRAHA/RUZYNE	AD	
LKMO		LKAA	MOST	AD	
LKKV	KLV	LKAA	KARLOVY VARY	AD	
LKTB	BRQ	LKAA	BRNO/TURANY	AD	

Total: 4/30

 Store  Back

Fig. 25: Add Personal Aerodromes

Step 3 (option: view)

To view a personal aerodrome, select it from the list and click on *View*.

Step 4 (option: edit)

Select a personal aerodrome and click on *Edit*.

Step 5 (option: delete)


To delete a personal aerodrome list, select the personal aerodrome and click on *Delete*. The personal aerodrome disappears now from the list.

If you want to delete all your personal aerodromes click on *Delete All*.

6.2 Personal FIRs

On the personal FIRs page you can:

- View your personal FIRs
- Create new personal FIRs
- Edit your personal FIRs
- Delete one or all personal FIRs



Predefined *personal FIRs* can be used to add a set of favorite FIRs. You can use this feature wherever you can find the button  next to the FIR input field in the whole application.

Step 1 (open screen)

From the *User Profile* menu, select the *Personal FIRs* screen.

Step 2 (option: create new)

Click on *New* to create a new personal FIRs list. Define the name of your personal FIRs list and the included FIRs. You can either use the direct input of the FIR code or search for an FIR.

- Direct input: Type the FIR code in the aerodromes input field and click on . The FIR is now added to the FIRs list.
- Click on . For detailed instructions [refer to 4.2 Area PIB](#).

Personal FIRs

Identifier ↕	FIRs ↕
CZECHNEIGHBOURS	LOV, LBSR, EPWW, LKAA, EDMM
<div> ⏪ <⏪ 1 ⏩ ⏭ </div>	
<div> + New 🔍 View ✎ Edit 🗑 Delete 🗑 Delete All </div>	

Fig. 26: *Personal FIRs*

Step 3 (option: view)

To view a personal FIR, select it from the list and click on *View*.

Step 4 (option: edit)

Select a personal FIR and click on *Edit*.

Step 5 (option: delete)


To delete a personal FIRs list, select the personal FIR and click on *Delete*. The personal FIR disappears from the list.

If you want to delete all your personal FIRs click on *Delete All*.

6.3 Personal Routes

On the personal routes page you can:

- View your personal routes.
- Create new personal routes.
- Edit your personal routes.
- Delete one or all personal routes.

Predefined *personal routes* can be used to add a set of favorite route. You can use this feature wherever you can find the button  next to the routeinput field in the whole application.

Step 1 (open screen)

From the *User Profile* menu, select the *Personal Routes* screen.

Personal Routes

Identifier

Departure Aerodrome

Destination Aerodrome

Flight Rules

Type

ALL

ALL

Search

+ New

Identifier	Departure Aerodrome	Destination Aerodrome	Flight Rules	Type
ROUTE1	LOWW	LOWK	IFR / VFR	Personal

1

View

Edit

Delete

Delete All

1 records found.

Fig. 27: Personal Routes

Step 2 (option: create new)

Click on *New* to create a new personal routes list. Define the name of your personal routes list and the included routes.

Personal Routes

Route Identifier *

Aerodromes

Departure Aerodrome *

Destination Aerodrome *

Route Options

Flight Rules *

- ☐ IFR
- ☐ VFR
- ☐ IFR / VFR

Route *

Additional Crossed FIRs (default FIR are retrieved automatically)

Alternate Aerodromes

 Store

 Back

Fig. 28: Create Personal Route

Step 3 (option: view)

To view a personal route, select it from the list and click on *View*.

Step 4 (option: edit)

Select a personal route and click on *Edit*.

Step 5 (option: delete)

To delete a personal routes list, select the personal route and click on *Delete*. The personal route disappears now from the list.

If you want to delete all your personal routes, click on *Delete All*.

6.4 Personal Settings

On the personal settings page users can edit their own user information.

Step 1 (open screen)

Select *User Profile > Personal Settings*. The *Personal Settings* screen appears.

Step 2 (optional: edit/read settings)




You can edit/read all user-related data. The mandatory fields are marked with an asterisk. The username cannot be changed. See below the personal settings screen.

Personal Settings

User Identity

User Name (case sensitive)	<input type="text" value="LOCALUSER"/>
Password (case sensitive)	<input type="password"/>
Confirmed Password	<input type="password"/>
E-mail Address *	<input type="text"/>
Confirm E-Mail Address *	<input type="text"/>

Contact Details

Surname *	<input type="text" value="Mustermann"/>
Firstname *	<input type="text" value="Max"/>
Date of Birth *	<input type="text" value="01/01/2000"/> 
Address *	<input type="text" value="Teststreet 1"/>
Postal Code *	<input type="text" value="12345"/>
City/State *	<input type="text" value="Vienna"/>
Country *	<input type="text" value="Austria"/> 
Mobile Phone Number *	<input type="text" value="+888888888888"/>
Home Phone Number	<input type="text" value="00431234567"/>
Language *	<input type="text" value="English"/> 

 **Submit**

Fig. 29: Personal Settings

Step 3 (save)

Click on *Submit* to save your changes.

6.5 Feedback

To give your feedback to smartinmo follow the steps below. Your feedback is sent to all administrators via e-mail. The administrators of smartinmo aim to answer all feedback e-mails as fast as possible.

Step 1 (open screen)

From the *User Profile* menu, select the *Feedback* screen.

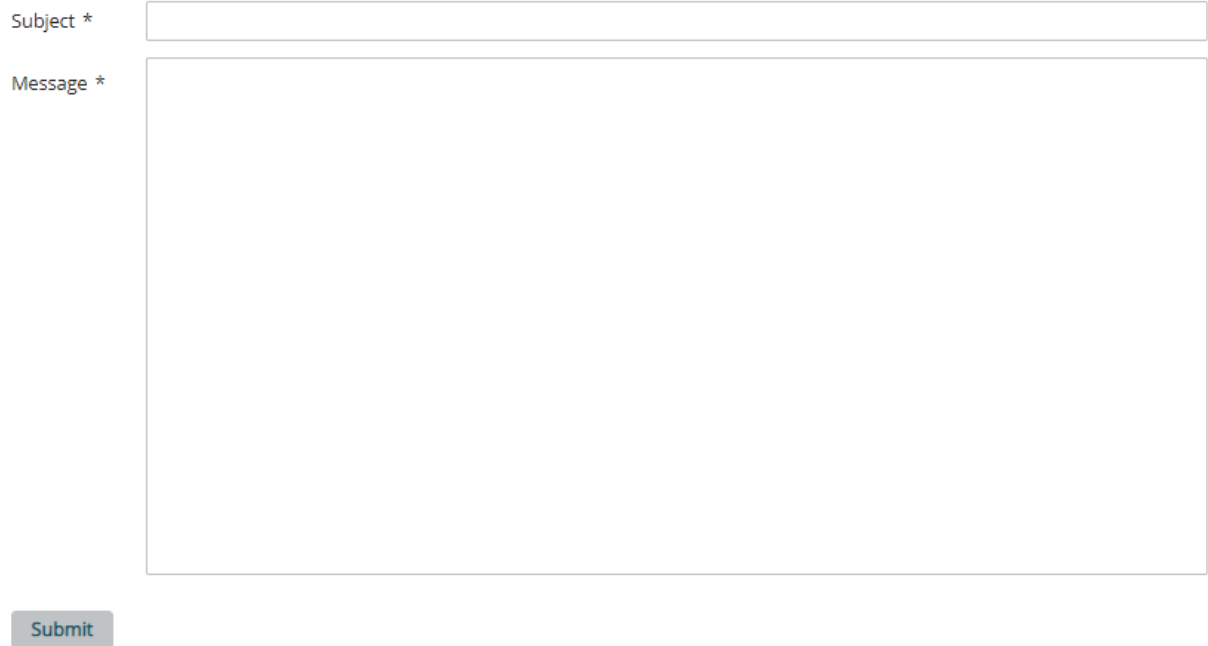
FeedbackA screenshot of the 'Feedback' form. It features a 'Subject *' label next to a single-line text input field. Below this is a 'Message *' label next to a large, empty text area for writing. At the bottom left of the form is a grey button with the text 'Submit' in blue.

Fig. 30: Feedback

Step 2 (write feedback)

Give your feedback a subject and write in the message text field what you have to say.

Step 3 (submit)

Press on *Submit* to send your feedback to the administrators of home briefing.

7 Abbreviations and Acronyms

AFS	Aeronautical Fixed Service
AFTN	Aeronautical Fixed Telecommunication Network
AHD	Advanced Help Desk
AIC	Aeronautical Information Circular
AIM	Aeronautical Information Management
AIMSL	AIM Service Layer
AIP	Aeronautical Information Publication
AIRAC	Aeronautical Information Regulation and Control
AIS	Aeronautical Information Services
AIXM	Aeronautical Information Exchange Model
AMHS	Aeronautical Message Handling Services
ANSP	Aeronautical Service Provider
API	Application Programming Interface
APS	Aeronautical Publishing System
ARINC	Aeronautical Radio, Inc.
ASHTAM	Volcanic Ash NOTAM
ATFM	Air Traffic Flow Management
ATN	Aeronautical Telecommunication Network
BCV	Business Continuity Volumes
BIS	Boundary Intermediate System
BS	Basic Software
CDM	Collaborative Decision Making
CID	Configuration Identification Document
CIDIN	Common ICAO Data Interchange Network
CLNP	Connection Less Network Protocol
CM	Configuration Management
CMDB	Configuration Management Database
CMP	Change Management Plan / Configuration Management Plan
COTS	Commercial Off the Shelf
D/R	Disaster Recovery
DB	Database
DBMS	Database Management System
DLT	Digital Linear Tape
DM	Data Management

DMS	Document Management System
DMZ	Demilitarised Zone
DNS	Domain Name Server
DOC	Document
DP	Data Provider
DU	Data User
EAD	European AIS Database
EC	Eurocontrol
ECI	EAD Client Interface
ECIT	EAD Client Interface Terminal
ENR	Enroute
ES	End System
ESCON	Extended Serial Connection
ESI	EAD System Interface (part of ECI)
ESI-V	EAD System Interface – Validation
ETI	EAD Terminal Interface (part of ECI)
FCIT	smartAIM Client Interface Terminal (can be a standard PC)
FDM	Flight Data Management
FIR	Flight Information Region
FPL	Flight Plan
FR-AIS	Frequentis Aeronautical Information System
FRQ	Frequentis
FSI	Frequentis System Interface
FTP	File Transfer Protocol
GB	Giga Byte
GBIC	Gigabit Interface Converter
GEN	General
GIS	Geographical Information System
GR	Graphical Reporting
GUI	Graphical User Interface
GWH	Global Web Hosting
HMI	Human Machine Interface
HP	Hewlett Packard company
HP-UX	HP's Variant of UNIX
HTTP	Hypertext Transfer Protocol
HW	Hard Ware

HWU	Hardware Unit
ICAO	International Civil Aviation Organisation
IDS	Intrusion Detection System
IMAP	Internet Message Access Protocol
INMO	INO (NOTAM) and METEO Management
INO	(Inter)national NOTAM Operations
IP	Internet Protocol
IPSEC	IP SECurity
IS	Intermediate System
ISDN	Integrated Services Digital Network
IT	Information Technology
JMS	Java Messaging Service
LAN	Local Area Network
LAN/WAN	Local Area Network/Wide Area Network
LDAP	Lightweight Directory Access Protocol
MAN	Metropolitan Area Network
MB	Mega Byte
Mbit/s	Mega bits per second
MHS	Message Handling System
MIB	Management Information Base
MOM	Message Oriented Middleware
MS	Message Store
MTA	Message Transfer Agent (X.400)
NOF	NOTAM Office
NOTAM	Notice to Airmen
O/R	Originator/ Recipient (X.400)
ODBC	Open DataBase Connectivity
ONL	On-Line
OPADD	Operation Procedures for AIS Dynamic Data
OS	Operating System
OSI	Open Systems Interconnection
PAMS	Published AIP Management System
PC	Personal Computer
PDF	Portable docent format
PIB	Pre-flight Information Bulletin
PKI-CA	Public Key Infrastructure – Certification Authority

PL	Procedural Language
PL/SQL	Procedural Language/Structured Query Language
PM	Project Management or Project Manager
PVC	Permanent Virtual Circuit
QM	Quality Management
RA	Registration Authority
RDBMS	Relational Database Management System
SAN	Storage Area Network
SAT	Site Acceptance Test
SC	Softcopy
SDO	Static Data Operation
SDR	System Design Review
SEL	System Architecture Element
SMTP	Simple Mail Transfer Protocol
SNOWTAM	NOTAM publishing information about snow, ice, and standing water on aerodrome movement areas.
SSL	Secure Socket Layer
STR	Secure Transaction Recorder
SVC	Switched Virtual Circuit
SW	Software
SWA	Soft Ware Architecture
SWU	Software Unit
TCP/IP	Transmission Control Protocol/Internet Protocol
TDS	Test and Development System
TNG	The Next Generation
TP	Transport Protocol
TT	Trouble Ticket
UA	User Agent (X.400)
V&V	Verification and Validation
VHF	Very High Frequency
VOR	VHF Omni-directional Radio navaid
VPN	Virtual Private Network
WAN	Wide Area Network
WebCM	Web Change Management