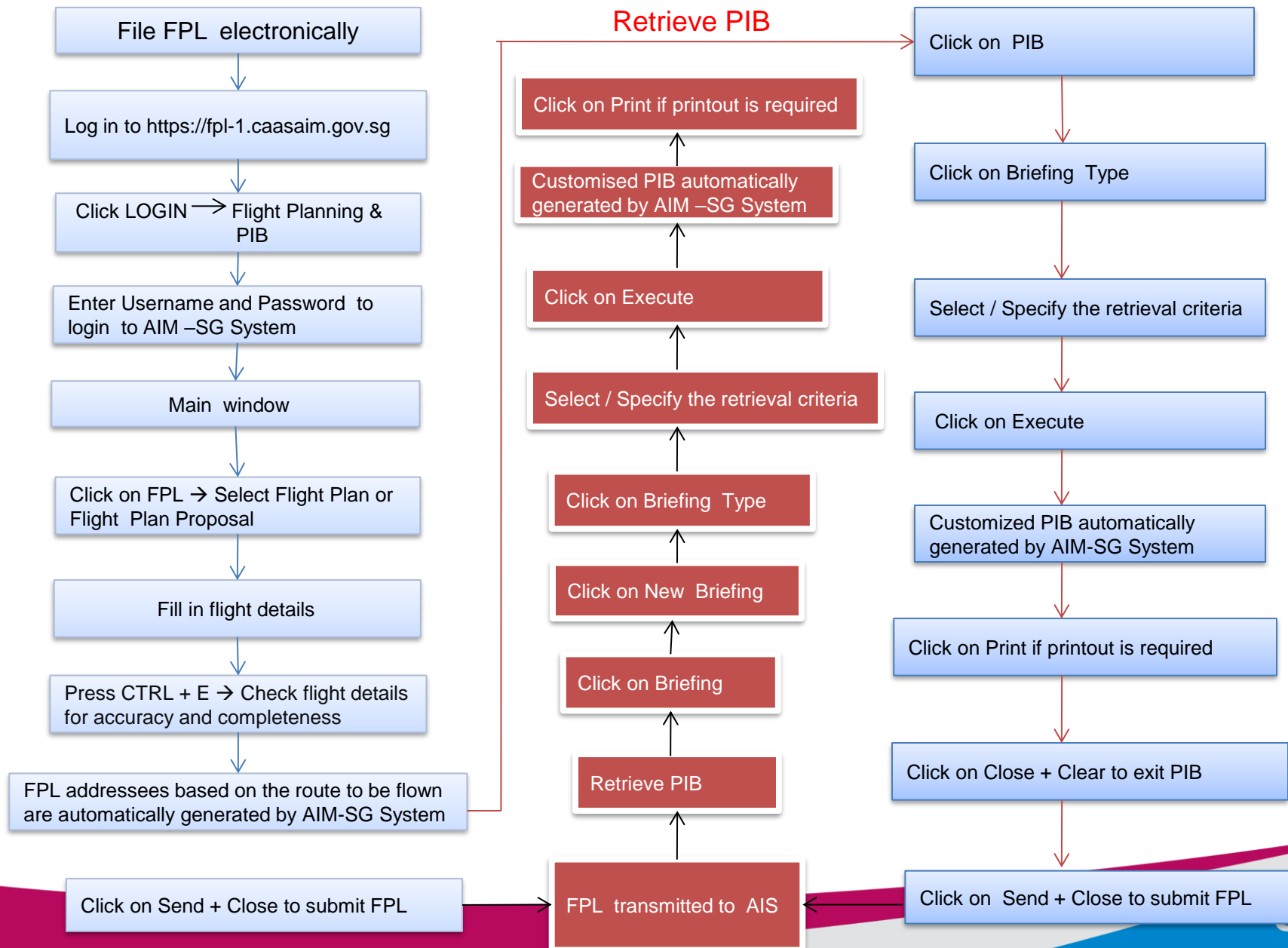
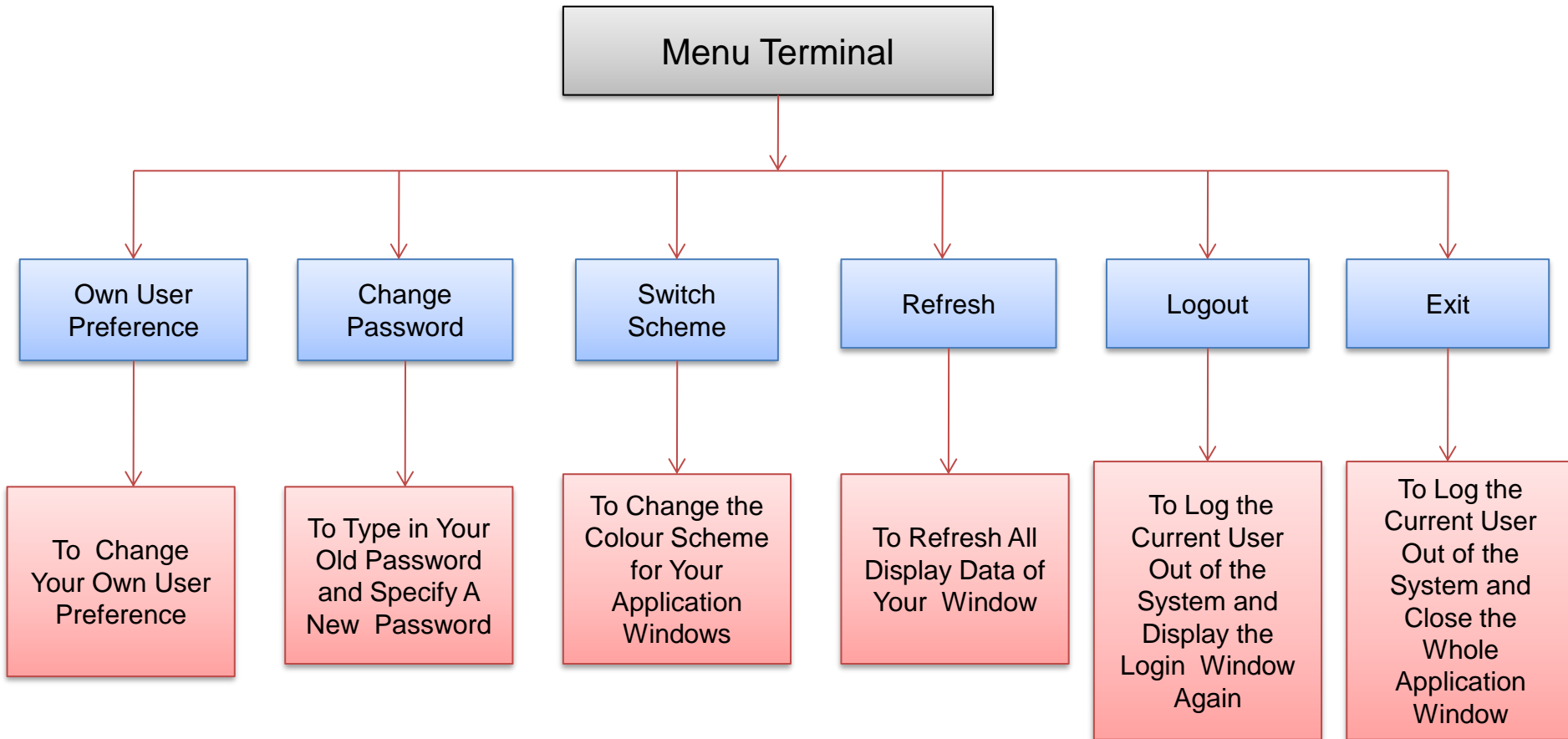


Aeronautical Information Management (AIM) System - User Guide for Pilot Terminal

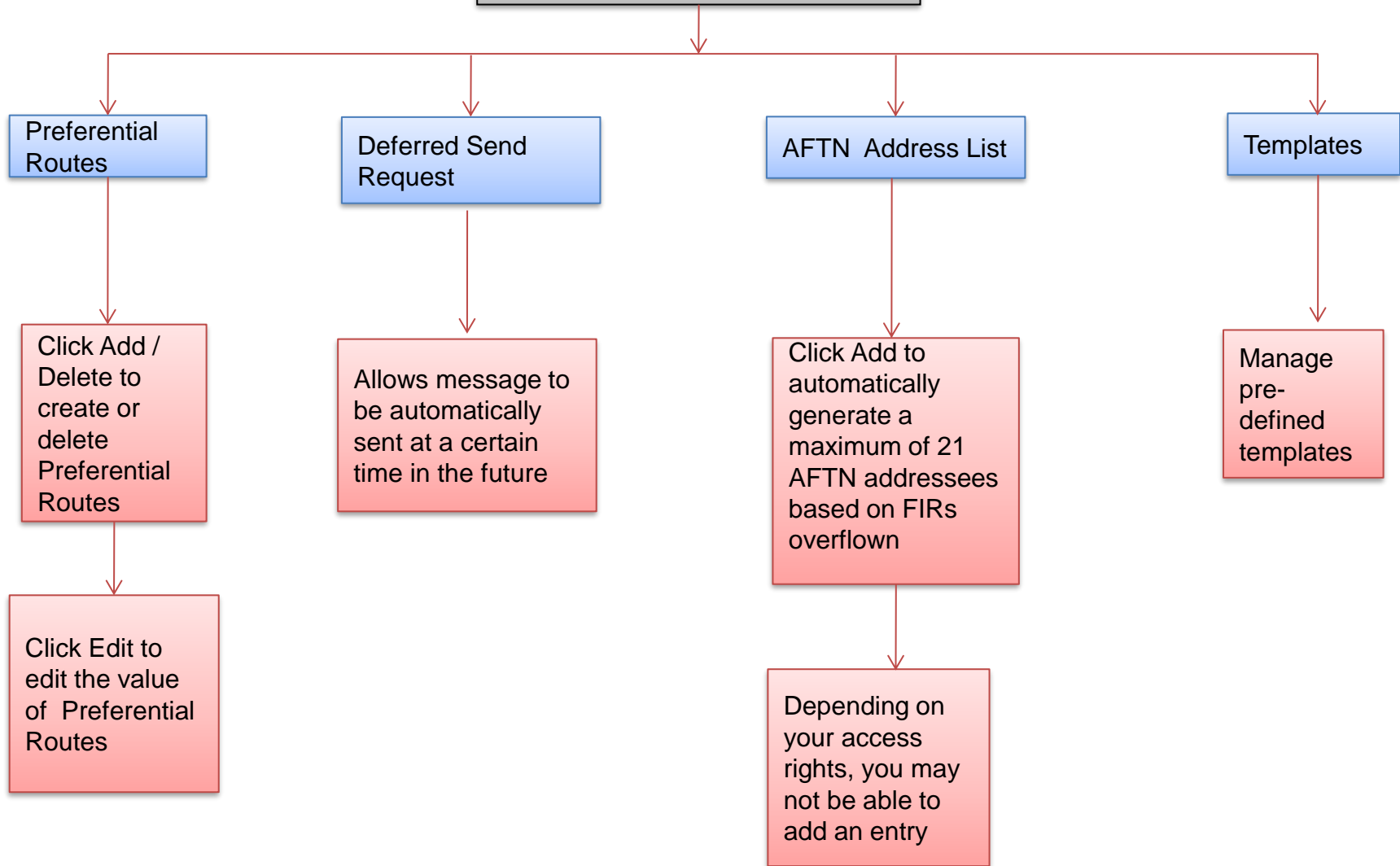
FILING FLIGHT PLAN (FPL) AND RETRIEVING PRE-FLIGHT INFORMATION BULLETIN (PIB)

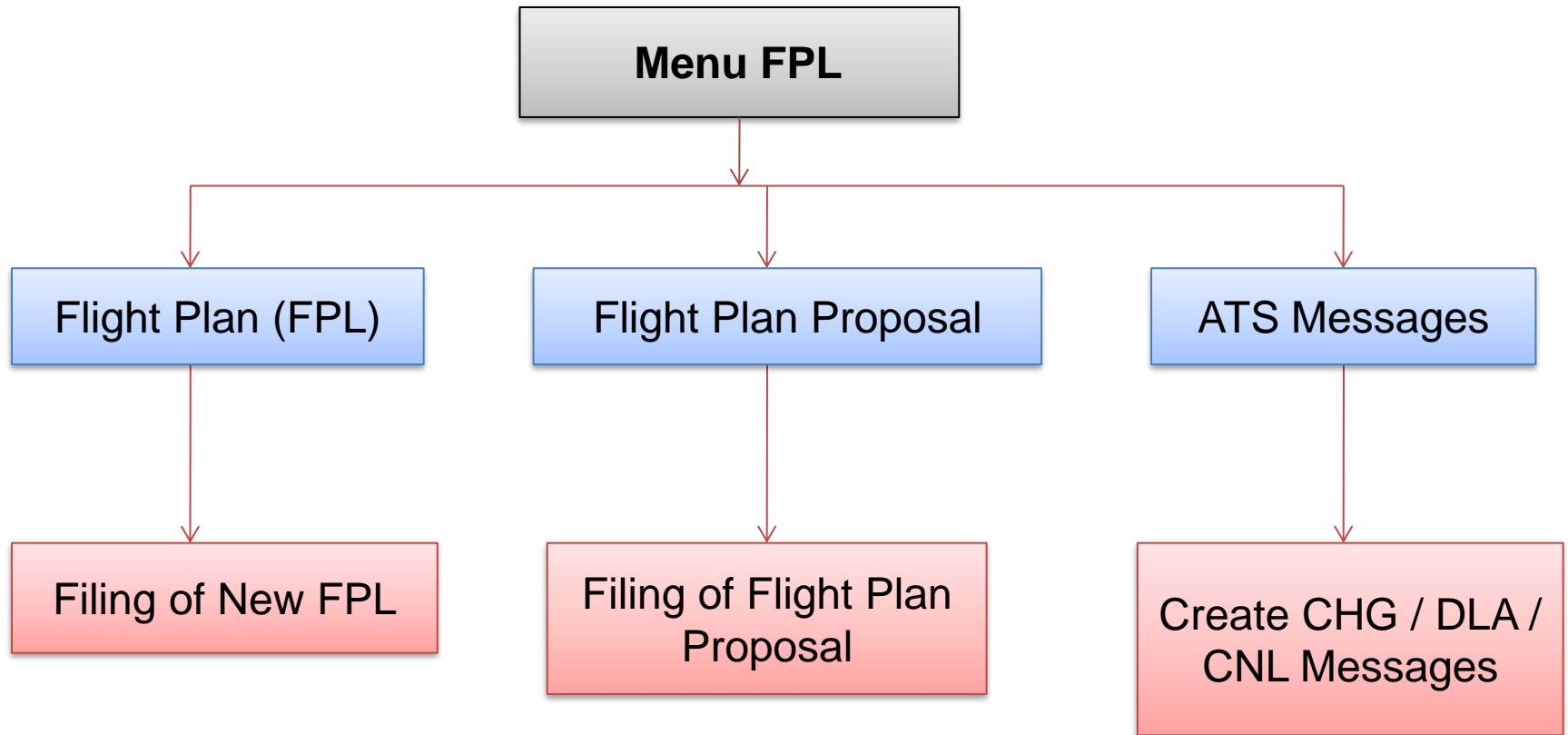


Pilot Terminal

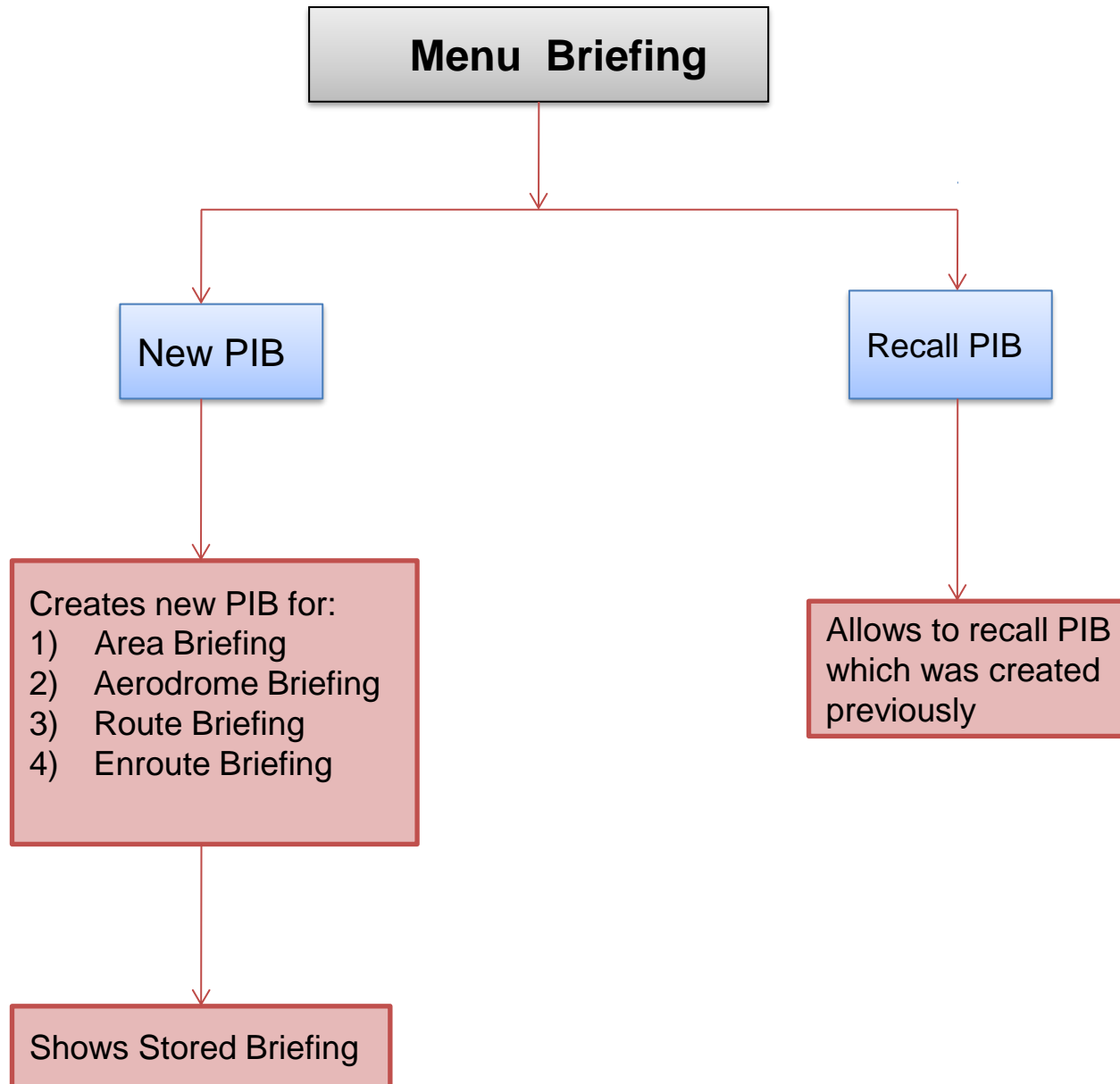


Menu Parameter






Note: Depending on your user's rights, you may be allowed only to file Flight Plan Proposal.



PILOT LOGIN PAGE




Civil Aviation Authority of Singapore
Enabling opportunities through aviation

Username

Password

☐

I'm not a robot



reCAPTCHA
[Privacy](#) - [Terms](#)

[Forgot Password?](#)

Log In

PILOT TERMINAL MAIN WINDOW

caas.sg https://ts-1.ptb1.caas.sg/caas.html

Active Flights - CAAS (ptb1) - CAAS - Flight Planning Management

Terminal Parameter Message EPL AFD Briefing Diagnosis Help

View History Delete Filter Close Filter Print Prev Next

Active Flights

total 0

S	O	Info	Aircr...	Dep	Dest	Alt Arr	Type	Off-Block Time	EDTA
---	---	------	----------	-----	------	---------	------	----------------	------

GROUP_PILOT/USER_PILOT2 A R !S: 1 0 2010.11.06-08:25:21

OWN USER PREFERENCE

Active Flights - CAAS (ptb1) - CAAS - Flight Planning Management

Terminal Parameter Message FPL AFD Briefing Diagnosis Help

View History Delete Filter Close Filter Print Prev Next

Active Flights

total 0

S	O	Info	Aircr...	Dep	Dest	Alt Arr	Type	Off-Block Time	EDTA
---	---	------	----------	-----	------	---------	------	----------------	------

1) Click Menu Terminal and Select Own User Preference

2) Select the Application to Customise the computer Setting

User Preferences

File View Edit Help

Store+Close Close

Alarms

- AMHS Message
- Audio
- Display
- Message
- Message Display
- Overview on Start-up
- Status Time Format

E	Description
<input checked="" type="checkbox"/>	Connection to server lost
<input checked="" type="checkbox"/>	Server and client time differ too much

☐ Enabled

GROUP_PILOT/USER_PILOT2 A R !S: 1 0 2010.11.06-08:26:23

CHANGE PASSWORD

caas.sg https://ts-1.ptb1.caas.sg/caas.html

Active Flights - CAAS (ptb1) - CAAS - Flight Planning Management

Terminal Parameter Message EPL AFD Briefing Diagnosis Help

View History Delete Filter Close Filter Print Prev Next

Active Flights total 0

S	O	Info	Aircr...	Dep	Dest	Alt Arr	Type	Off-Block Time	EDTA
---	---	------	----------	-----	------	---------	------	----------------	------

Change Password
✖ Missing new password

Old Password

New Password

New Password (repeated)

Help

OK

Cancel

1) Click Menu Terminal
Select Change Password

2) Insert Old Password

3) Insert New Password

4) Click OK

GROUP_PILOT/USER_PILOT2 A R !S: 1 0 2010.11.06-08:27:16

CAAS

ACTIVE FLIGHT DATABASE

Applications Places Active Flights - CAAS (dmz satcc) - AIM-SG Center Terminal

Active Flights - CAAS (dmz satcc) - AIM-SG Center Terminal

Terminal Parameter Message FPL IFPS AFD NOTAM Meteo Briefing Static Data Retrieval Diagnosis Help

Active Flights

View History Delete Filter Close Filter Print Prev Next

shown 210

S	O	Info	R	P	Aircraft ID	Rules	Dep	Dest	Alt Arr	Type	Off-Block Time	Arrival Time
■	■	departed			ACA20	I	WSSS	CYVR	KPDX	B789	09 03:14 (Act.)	09 15:58 (Est.)
■	▲	departed			AFR257	I	WSSS	LFPG	LFPO	B77W	08 15:20 (Act.)	09 04:51 (Est.)
■	■	departed			AIC2106	I	WSSS	VABB	VAAH	A21N	09 02:55 (Act.)	09 07:58 (Est.)
■	■	departed			AIC2110	I	WSSS	VAPO	VOHS	A21N	09 03:59 (Act.)	09 08:47 (Est.)
■	▲	departed			AIC2381	I	WSSS	VIDP	VAAH	B789	09 00:49 (Act.)	09 05:57 (Est.)
■	▲	departed			AIC2393	I	WSSS	VOBL	VOCB	A20N	09 01:32 (Act.)	09 05:37 (Est.)
■	▲	departed			AIC347	I	WSSS	VOMM	VOBL VOHS	A321	09 01:05 (Act.)	09 04:45 (Est.)
■	■	planned			AIQ350	I	WSSS	VTBD	VTBS VTBU	A320	09 12:40 (Est.)	09 14:51 (Est.)
■	■	planned			AIQ352	I	WSSS	VTBD	VTBS VTBU	A320	09 14:50 (Est.)	09 17:02 (Est.)
■	■	planned			AIQ354	I	WSSS	VTBD	VTBS VTBU	A320	09 09:10 (Est.)	09 11:21 (Est.)
■	■	planned			AIQ356	I	WSSS	VTBD	VTBS VTBU	A320	09 07:00 (Est.)	09 09:10 (Est.)
■	▲	departed			AIQ358	I	WSSS	VTBD	VTBS VTBU	A320	09 03:11 (Act.)	09 05:19 (Est.)
■	■	departed			AIQ377	I	WSSS	VTSP	VTSG VTSS	A320	09 05:31 (Act.)	09 07:08 (Est.)
■	▲	departed			ANA802	I	WSSS	RJAA	RJTT RJBB	B789	08 22:43 (Act.)	09 04:45 (Est.)
■	■	departed			ANA842	I	WSSS	RJTT	RJAA RJBB	B789	09 03:04 (Act.)	09 09:01 (Est.)
■	■	planned			AWQ261	I	WSSS	WIII	WIIP	A320	09 12:00 (Est.)	09 13:31 (Est.)
■	■	planned			AWQ265	I	WSSS	WIII	WILL	A320	09 06:40 (Est.)	09 08:11 (Est.)
■	▲	departed			AWQ267	I	WSSS	WIII	WILL	A320	09 04:05 (Act.)	09 05:36 (Est.)
■	■	planned			AWQ501	I	WSSS	WADD	WARR	A320	09 08:15 (Est.)	09 10:38 (Est.)
■	■	cancelled			AWQ503	I	WSSS	WADD	WADL	A320	09 04:00 (Est.)	09 06:26 (Est.)
■	■	departed			AXB689	I	WSSS	VOTR	VOCI	B738	09 03:56 (Act.)	09 07:42 (Est.)
■	▲	departed			AXM1310	I	WSSS	WMKK	WMKP WMSA	A320	09 03:46 (Act.)	09 04:45 (Est.)
■	▲	departed			AXM1716	I	WSSS	WMKL	WMKP WMKK	A320	09 04:44 (Act.)	09 05:58 (Est.)
■	▲	departed			AXM1720	I	WSSS	WMKP	WMKL WMKK	A320	09 03:48 (Act.)	09 04:58 (Est.)
■	■	departed			AXM1722	I	WSSS	WMKP	WMKL WMKK	A320	09 06:04 (Act.)	09 07:14 (Est.)
■	■	planned			AXM1724	I	WSSS	WMKP	WMKL WMKK	A320	09 10:20 (Est.)	09 11:30 (Est.)
■	■	planned			AXM1730	I	WSSS	WMKP	WMKK WMKJ	A320	09 12:50 (Est.)	09 14:00 (Est.)
■	■	planned			AXM1774	I	WSSS	WBGG	WBGS WBGB	A320	09 07:30 (Est.)	09 08:48 (Est.)
■	▲	departed			AXM1776	I	WSSS	WBGG	WBGS WBGB	A320	09 03:54 (Act.)	09 05:12 (Est.)
■	▲	departed			AXM1794	I	WSSS	WBKK	WBKL WBSB	A20N	09 03:52 (Act.)	09 06:06 (Est.)
■	▲	departed			AXM706	I	WSSS	WMKK	WMSA WMKJ	A21N	09 04:22 (Act.)	09 05:21 (Est.)
■	■	departed			AXM710	I	WSSS	WMKK	WMSA WMKJ	A320	09 06:12 (Act.)	09 07:12 (Est.)
■	■	planned			AXM712	I	WSSS	WMKK	WMSA WMKJ	A320	09 06:50 (Est.)	09 07:51 (Est.)
■	■	planned			AXM714	I	WSSS	WMKK	WMSA WMKJ	A320	09 08:35 (Est.)	09 09:36 (Est.)
■	■	planned			AXM716	I	WSSS	WMKK	WMSA WMKJ	A320	09 10:35 (Est.)	09 11:34 (Est.)
■	■	planned			AXM718	I	WSSS	WMKK	WMSA WMKJ	A320	09 12:15 (Est.)	09 13:15 (Est.)
■	■	planned			AXM720	I	WSSS	WMKK	WMKP WSSS	A21N	09 14:35 (Est.)	09 15:31 (Est.)
■	■	planned			AXM722	I	WSSS	WMKK	WSSS WMKP	A320	09 15:30 (Est.)	09 16:13 (Est.)

Info:

Grey: Planned

Blue: Departed

Black : Cancelled

SAMPLE OF INTERNET FPL FORM

Send - Flight plan proposal

File View Edit Help

Send+Close Set Time Load Store Print PIB

☒ Missing equipment

Priority: Destination Address: Originator: Bell:

► Extra Addressees

7/Aircraft ID: SSR:

8/Flight Rules: Type of Flight:

9/Number: Type of Aircraft: Wake Turbulence:

10/Equipment:

13/Departure: Time:

15/Speed: Altitude/Level:

Route:

16/Destination: Total EET: Alternate: 2nd:

18/Other:

☒ Activate supplementary information

Item 19 information is sent with message

19/Endurance: Persons on Board: Emergency Radio:

Survival Equipment: Jackets:

Dinghies: Number: Capacity: Cover: Colour:

Colour and Markings:

Remark:

Pilot:

Filed By: Group: User:

All items indicated in red are required to be filled in.

SAMPLE OF INTERNET FILED FPL

Send - Flight plan proposal

File View Edit Help

Send+Close Set Time Load Store Print PIB

Priority: FF Destination Address: WSSLY0YX Originator: WSSPTSEL Bell:

► Extra Addressees

7/Aircraft ID: TEST89 SSR:

8/Flight Rules: I Type of Flight: G

9/Number: Type of Aircraft: B737 Wake Turbulence: M

10/Equipment: SRWJ1 / LB1U1

13/Departure: WSSL Time: 1000

15/Speed: N0400 Altitude/Level: F240

Route: KK VJB A457

16/Destination: WMKK Total EET: 0050 Alternate: WMKP 2nd:

18/Other: STS/MEDEVAC PBN/A1 D0F/151117

☒ Activate supplementary information Item 19 information is sent with mes:

19/Endurance: 0200 Persons on Board: 06 Emergency Radio: ☒ UHF ☒ VHF ☒ ELT

Survival Equipment: ☒ S ☒ P ☒ D ☒ M ☒ J Jackets: ☒ J ☒ L ☒ F ☒ U ☒ V

Dinghies: ☒ D Number: 2 Capacity: 10 Cover: ☒ C Colour: YELLOW

Colour and Markings: RED AND WHITE

Remark: ☒

Pilot: APPLE TAN

Filed By: GROUP_SELETAR.APPLE Group: GROUP_SELETAR User: APPLE

03:05:58
2015-11-17

CREATE FPL PROPOSAL

1) Click FPL, Select Flight Plan Proposal

3) Click Send + Close

Active Flights - CAAS (atcc) - AIM-SG Pilot Terminal

Terminal Parameter Message FPL AFD NOTAM Briefing Diagnosis Help CAAS

View History Delete Filter Close Filter Print Prev Next

Active Flights total 6

S	O	Info	Aircra...	Dep	Dest	Alt Arr	Type	Off-Block Time	ETA
		cancelled	9MIMW	WSSL	WMKJ	WSSL	B407	17 03:00 (E..)	17 03:10
		cancelled	9MIMW	WSSL	WMKJ	WSSL	B407	17 03:00 (E..)	17 03:10
		planned	TEST89	WSSL	WMKK	WMKP	B737	17 10:00 (E..)	17 10:50
		planned	VHPPV	WSSL	WSSS	WSSS	G150	17 03:30 (E..)	17 03:00
		planned	VHPPV	WSSL	WAPP	WASS	G150	17 03:30 (E..)	17 07:03
		departed	VHPPV	WSSS	WSSL	WSSS	G150	17 02:55 (A..)	17 03:10

GROUP_SELETAR/APPLE | A | R | 15: 82 | 0 | 2015.11.17-03:09:16

2) Fill In Flight Details

Note: FPL status show as "planned" after being accepted by AIS

Send - Flight plan proposal

File View Edit Help

Send+Close Set Time Load Store Print PIB

Priority **FF** Destination Address **WSSLYOYX** Originator **WSSPTSEL** Bell

► Extra Addressees

7/Aircraft ID **TEST89** SSR

8/Flight Rules **I** Type of Flight **G**

9/Number Type of Aircraft **B737** Wake Turbulence **M**

10/Equipment **SRWJ1** / **LB1U1**

13/Departure **WSSL** Time **1000**

15/Speed **NO400** Altitude/Level **F240**

Route **KK VJB A457**

16/Destination **WMKK** Total EET **0050** Alternate **WMKP** 2nd

18/Other **STS/MEDEVAC PBN/A1 D0F/151117**

☒ Activate supplementary information

Item 19 information is sent with mes:

19/Endurance **0200** Persons on Board **06** Emergency Radio ☒ UHF ☒ VHF ☒ ELT ☒

Survival Equipment **S** POLAR **P** DESERT **D** MARITIME **M** JUNGLE **J** Jackets **J** LIGHT **L** FLUORES **F** UHF **U** VHF **V**

Dinghies **D** Number **2** Capacity **10** Cover **C** Colour **YELLOW**

Colour and Markings **RED AND WHITE**

Remark ☒

Pilot **APPLE TAN**

Filed By **GROUP_SELETAR.APPL** Group **GROUP_SELETAR** User **APPLE**

OPERATE DELAY MESSAGE FROM AFD

The screenshot displays the CAAS Flight Planning Management interface. The 'Active Flights' window is open, showing a table of flight details. A red arrow points to the 'Off-Block Time' column, which contains the value '06 11:00 (Est.)'. Another red arrow points to the 'EDTA' column, which contains the value '06 14:50'. A third red arrow points to the 'Send - DLA - Delay' button in the 'Monitor Flights' window. A fourth red arrow points to the 'Send + Close' button in the 'Send - DLA - Delay' window. A fifth red arrow points to the 'Time' field in the 'Send - DLA - Delay' window, which contains the value '1300'. A sixth red arrow points to the 'Send + Close' button in the 'Send - DLA - Delay' window.

Active Flights - CAAS (ptb1) - CAAS - Flight Planning Management

Terminal Parameter Message EPL AFD Briefing Diagnosis Help

View History Delete Filter Close Filter Print Prev Next

Active Flights

S	O	Info	Aircraft ID	Dep	Dest	Alt Arr	Type	Off-Block Time	EDTA
1	planned	AIMFPL	WSSS	VABB	VOMM	A320	06 11:00 (Est.)	06 14:50	

total 1

Outbound; WSSS; 4h - Monitor Flights - CAAS - Flight Planning Management

File View Help

View History Filter Print

Monitor Flights Outbound; WSSS; 4h

O	Info	Aircraft ID	Dep	Off-Block Time	Dest	Route
1	planned	AIMFPL	WSSS	06 11:00 (Est.)	VABB	N0400...
2	planned	CES772	WSSS	06 11:00 (Est.)	ZSNJ	N0472...
3	planned	CPA711	WSSS	06 13:25 (Est.)	VCBI	N0485...
4	planned	ETD473	WSSS	06 11:45 (Est.)	OMAA	M081F...
5	planned	EVA6395	WSSS	06 09:20 (Est.)	VVNB	N0474...
6	planned	JAI11	WSSS	06 11:05 (Est.)	VABB	N0471...
7	planned	SIA221	WSSS	06 12:35 (Est.)	YSSY	M085F...
8	planned	SIA227	WSSS	06 13:00 (Est.)	YMML	M084F...
9	planned	SIA297	WSSS	06 11:45 (Est.)	NZCH	M083F...
10	planned	SIA38	WSSS	06 08:30 (Est.)	KLAX	N0500...
11	planned	SIA408	WSSS	06 10:50 (Est.)	VIDP	M083F...
12	planned	SIA424	WSSS	06 12:05 (Est.)	VABB	M083F...
13	planned	SIA452	WSSS	06 12:40 (Est.)	VRMM	M081F...
14	planned	SIA458	WSSS	06 06:25 (Est.)	OMAA	M081F...
15	planned	SIA528	WSSS	06 12:25 (Est.)	VOMM	M083F...
16	planned	SIA530	WSSS	06 10:50 (Est.)	VAH	M081F...

GROUP_PILOT/USER_PILOT2 A R

GROUP_PILOT/USER_PILOT2 A R IS: 1 0 2010.11.06-09:36:38

Done

Send - DLA - Delay

File View Edit Help

Send+Close Load Store Print

Prio. Addressees

FF WSJCZRZX WIIFZRZX WMFCZRZX VABFZRZX VOMFZRZX VABBZTX VOMFEADS

Filing Time Originator Bell

WSTTPPB

7/Aircraft ID AIMFPL SSR

13/Departure WSSS Time 1300

16/Destination VABB

Date of Flight 101106

Filed By GROUP_PILOT.USER_PILOT2 Group GROUP_PILOT User USI

1) Select flight detail from AFD

2) Right click mouse, select Operate DLA

3) Input revised ETD

4) Click Send + Close

VIEW FLIGHT DATA AFTER SENDING OUT THE DLA MESSAGE

Active Flights - CAAS (ptb1) - CAAS - Flight Planning Management

Terminal Parameter Message EPL AFD Briefing Diagnosis Help

View History Delete Filter Close Filter Print Prev Next

Active Flights

total 1

S	O	Info	Aircraft ID ^	Dep	Dest	Alt Arr	Type	Off-Block Time	EDTA
■	delayed		AIMFPL	WSSS	VABB	VOMM	A320	06 13:00 (Est.)	06 16:50

Outbound; WSSS; 4h - Monitor Flights - CAAS - Flight Planning Management

File View Help

View History Filter Print

Monitor Flights

Outbound; WSSS; 4h

total 55

O	Info	Aircraft ID ^	Dep	Off-Block Time	Dest	Route
■	delayed	AIMFPL	WSSS	06 13:00 (Est.)	VABB	N0400...
■	planned	CES772	WSSS	06 11:00 (Est.)	ZSNJ	N0472...
■	planned	CPA711	WSSS	06 13:25 (Est.)	VCBI	N0485...
■	planned	ETD473	WSSS	06 11:45 (Est.)	OMAA	M081F...
⚠	planned	EVA6395	WSSS	06 09:20 (Est.)	VVNB	N0474...
■	planned	JAI11	WSSS	06 11:05 (Est.)	VABB	N0471...
■	planned	SIA221	WSSS	06 12:35 (Est.)	YSSY	M085F...
■	planned	SIA227	WSSS	06 13:00 (Est.)	YMML	M084F...
■	planned	SIA297	WSSS	06 11:45 (Est.)	NZCH	M083F...
⚠	planned	SIA38	WSSS	06 08:30 (Est.)	KLAX	N0500...
■	planned	SIA408	WSSS	06 10:50 (Est.)	VIDP	M083F...
■	planned	SIA424	WSSS	06 12:05 (Est.)	VABB	M083F...
■	planned	SIA452	WSSS	06 12:40 (Est.)	VRMM	M081F...
⚠	planned	SIA458	WSSS	06 06:25 (Est.)	OMAA	M081F...
■	planned	SIA528	WSSS	06 12:25 (Est.)	VOMM	M083F...
■	planned	SIA530	WSSS	06 10:50 (Est.)	VAAH	M081F...

GROUP_PILOT/USER_PILOT2 A R

GROUP_PILOT/USER_PILOT2 A R !S: 1 0 2010.11.06-09:37:54

Off-Block Time Showing 1300

Key points to take note:

1) Terminal Access	Enter Username and Password
2) Flight Plan Input Assistance: a) Missing or Erroneous Input b) Unknown Data (e.g. Unspecified Aerodrome)	Indicated by a Red Cross Indicated by a Yellow Warning Triangle
c) Departure / Destination / Alternate Aerodromes (Items 13 and 16)	Can either type manually or right click on the mouse to search for the ICAO location indicator from AIM-SG database
d) Aircraft Identification (Item 7)	Must contain not more than 10 characters and no hyphen is allowed.
e) Aircraft type is ZZZZ (Item 9b)	Insert TYP/ICAO aircraft type designator in item 18

Key points to take note:

f) Departure/Destination/ Alternate is “ZZZZ”	Specify in item 18 as follow: DEP/name and location of the aerodrome DEST/name and location of the aerodrome ALTN/name and location of the aerodrome
g) Endurance (Item 19b)	Must contain 4 digits and the last two digits must be a number between 00 and 59
h) Persons on Board (Item 19b)	Must contain 3 digits or TBN
i) Pilot-in-Command (PIC) (Item 19k)	Must contain name of PIC

FPL 2012 ITEM 10 Field 10a

GNSS based landing capability	A, B
ACARS applications	E1 - E3
GNSS	G
CPDLC	J1 - J7
Satellite Communications	M1 - M3
PBN Approved	R
VHF with 8.33Khz spacing	Y

FPL 2012 ITEM 10 Field 10b

Transponder	E, H, L
ADS-B capability	B1, B2, U1, U2, V1 and V2
ADS-C capability	D1 and G1

FPL 2012 Field 18: Other information

Order of the indicators	STS/, PBN/, NAV/, COM/, DAT/, SUR/, DEP/, DEST/, DOF/, REG/, EET/, SEL/, CODE/, DLE/, OPR/, ORGN/, PER/, ALTN/, RALT/, TALT/, RIF/, RMK/
--------------------------------	--

Use of oblique stroke or hyphen

Item 10 Field 10a – Radio communications, navigation and approach aid equipment and capabilities

- N - No COM/NAV/approach aid equipment is carried or the equipment is unserviceable**
- S - Standard COM/NAV/approach aid equipment is carried and serviceable (see Note 1)**
- A - GBAS landing system**
- B - LPV (APV with SBAS)**
- C - LORAN C**
- D - DME**
- E1 - FMC WPR ACARS**
- E2 - D-FIS ACARS**
- E3 - PDC ACARS**
- F - ADF**
- G - (GNSS) (see Note 2)**
- H - HR RTF**
- I - Inertial Navigation**
- J1 - CPDLC ATN VDL MODE 2 (see Note 3)**
- J2 - CPDLC FANS 1/A HF DL**
- J3 - CPDLC FANS 1/A VDL MODE A**
- J4 - CPDLC FANS 1/A VDL MODE 2**
- J5 - CPDLC FANS 1/A SATCOM (INMARSAT)**
- J6 - CPDLC FANS 1/A SATCOM (MTSAT)**
- J7 - CPDLC FANS 1/A SATCOM (IRIDIUM)**

Item 10 Field 10a – Radio communications, navigation and approach aid equipment and capabilities

K - MLS

L - ILS

M1 - ATC RTF SATCOM (INMARSAT)

M2 - ATC RTF (MTSAT)

M3 - ATC RTF (Iridium)

O - VOR

P1 - Reserved for RCP

P2 - Reserved for RCP

P3 - Reserved for RCP

P4 - Reserved for RCP

P5 - Reserved for RCP

P6 - Reserved for RCP

P7 - Reserved for RCP

P8 - Reserved for RCP

P9 - Reserved for RCP

R - PBN approved (see Note 4)

T - TACAN

U - UHF RTF

V - VHF RTF

W - RVSM approved

X - MNPS approved

Y - VHF with 8.33KHZ channel spacing capability

Z - Other equipment carried or other capabilities (see Note 5)

Item 10 Field 10b – Surveillance equipment and capabilities

N - No surveillance equipment is carried, or the equipment is unserviceable

SSR Modes A and C

A - Transponder – Mode A

C - Transponder – Mode A and Mode C

SSR Mode S

E - Transponder - Mode S, including aircraft identification, pressure-altitude and extended squitter (ADS-B) capability

H - Transponder - Mode S, including aircraft identification, pressure-altitude and enhanced surveillance capability

I - Transponder - Mode S, including aircraft identification, but no pressure-altitude capability

L - Transponder - Mode S, including aircraft identification, pressure-altitude, extended squitter (ADS-B) and enhanced surveillance capability.

P - Transponder - Mode S, including pressure-altitude, but no aircraft identification capability

S - Transponder - Mode S, including both pressure altitude and aircraft identification capability

X - Transponder - Mode S with neither aircraft identification nor pressure-altitude capability

Item 10 Field 10b – Surveillance equipment and capabilities

ADS-B

- B1 - ADS-B with dedicated 1090MHZ ADS-B “out ” capability**
- B2 - ADS-B with dedicated 1090MHZ ADS-B “out ” and “in” capability**
- U1 - ADS-B “out ” capability using UAT**
- U2 - ADS-B “out ” and “ in” capability using UAT**
- V1 - ADS-B “out ” capability using VDL Mode 4**
- V2 - ADS-B “out ” and “ in” capability using VDL Mode 4**

ADS–C

- D1 - ADS-C with FANS 1/A capabilities**
- G1 - ADS-C with ATN capabilities**

Note: Enhanced surveillance capability is the ability of the aircraft to down-link aircraft derived data via a Mode S transponder.

Flight Planning guideline on Item 10 Field 10b – Surveillance Equipment and Capabilities

a) 'N' or

b) SSR Modes A and C and S

- **Maximum of one entry is expected from either 'A' or 'C' or 'E' or 'H' or 'I' or 'L' or 'P' or 'S' or 'X' and/or**

c) ADS-B

- **Maximum of one entry is expected from either B1 or B2 and/or**
- **Maximum of one entry is expected from either U1 or U2 and/or**
- **Maximum of one entry is expected from either V1 or V2 and/or**

d) ADS-C

- **One or both of the entries 'D1' 'G1'**

Flight Planning guideline on Item 10 Field 10a and Item 18 PBN/– Radio Communications, Navigation and Approach Aid Equipment and Capabilities

- **If B1, B2, C1, C2, D1, D2, O1 or O2 are filed, then a “G” must be included in Field 10a;**
- **If B1, B3, C1, C3, D1, D3, O1 or O3 are filed, then a “D” must be included in Field 10a;**
- **If B1 or B4 is filed, then an “O” or “S” and a “D” must be included in Field 10a (i.e., “OD” or “SD” must appear in 10a);**
- **If B1, B5, or C1 are filed, then an “I” must be included in Field 10a; and**
- **If C1, C4, D1, D4, O1 or O4 are filed, then a “D” and an “I” must be included in Field 10a (i.e., “DI” must appear in 10a).**
- **If STS/NONRVSM is filed in Item 18 then ‘W’ should not exist in Item 10a.**

Flight Planning guideline on Item 10 Field 10a and Item 18 PBN/– Radio Communications, Navigation and Approach Aid Equipment and Capabilities

- Note 1)** If the letter S is used, standard equipment is considered to be VHF RTF, VOR and ILS.
- Note 2)** If the letter G is used, the type of external GNSS augmentation, if any, are specified in Item 18 following the indicator NAV/ and separated by a space.
- Note 3)** See RTCA/EUROCAE Interoperability Requirements Standard For ATN Baseline 1 (ATN B1 INTEROP Standard – DO 280B/ED-110B) for data link services air traffic control clearance and information / air traffic control communications management / air traffic control microphone check.
- Note 4)** If the letter R is used, the performance based navigation levels that can be met are specified in Item 18 following the indicator PBN/ .
- Note 5)** If the letter Z is used, specify in Item 18 the other equipment carried or other capabilities, preceded by COM/ , NAV/ and / or DAT, as appropriate.
- Note 6)** Information on navigation capability is provided to ATC for clearance and routing purposes.