

# **ICAO Flight Planning Amendment 1 - 2012**

## **Training Module ICAO Flight Plan Form Changes**

# Module 1 - Introduction

A. Background and Objectives of Amendment 1

B. Key Changes

C. Transition Strategy & Timing

## **A – Background & Objectives of Amendment 1**

- i. History/Background
- ii. Update ICAO Flight Plan Form
- iii. Expand & modify Field content
- iv. Cater for the filing of advanced aircraft NAV, COM & SUR capabilities
- v. Cater for evolving requirements of automated ATM systems
- vi. Allow filing of FPLs up to 120 hours in advance
- vii. Introduce formal use of Date of Flight

## B – Key Changes

- i. Item 10a – new indicators for COM & NAV equipment & capabilities
- ii. Item 10b – new indicators for SURVEILLANCE equipment & capabilities
- iii. Item 18 – new indicators, definitions & requirements for OTHER Equip.
- iv. New relationships & dependencies between Fields 10a and 18
- v. Advance Flight Plan filing – up to 5 days
- vi. Date of Flight requirements and processing
- vii. Flight Plan message content and uniqueness checking
- viii. Transition Phase requirements (NEW & PRESENT formats)

# Overview of Changes

## 1. Item 10 a/b

- » New alphanumeric codes

## 2. Item 18

- » New indicators (e.g. PBN/)
- » Mandated order of indicators
- » STS/ redefined – only specified data allowed

## 3. Other minor changes

- » e.g. Item 15 - significant point;
- Item 7 - no '-' aircraft identification

The image shows a standard ICAO Flight Plan Form (FPL) with several sections highlighted in red to indicate changes:

- Item 10 a/b:** A red box highlights the 'MESSAGE TYPE' field (Item 3), with an arrow pointing to the new alphanumeric codes.
- Item 15:** A red box highlights the 'DEPARTURE AERODROME' (Item 13), 'TIME' (Item 7), and 'ROUTE' (Item 14) fields.
- Item 18:** A red box highlights the 'OTHER INFORMATION' field (Item 18).
- Other minor details changes:** A red box highlights the 'ENDURANCE' (Item 19), 'PERSONS ON BOARD' (Item 20), and 'EMERGENCY RADIO' (Item 21) sections.

## C –Transition Strategy & Timing

→ Dec 2011	Planning & Software Development
Jan – Mar 2012	Internal Software Testing & Training Development
Apr – Jun 2012	External testing with ANSPs & selected airspace users
Jun 2012	Internal Training
July 26 <sup>th</sup> 2012	Implementation
Jul 26 <sup>th</sup> – Nov 15 <sup>th</sup> 2012	Transition Phase – accept & process NEW & PRESENT format – airspace user testing & implamentation
Nov 2012	All airspace users and ANSPs to be fully NEW compliant
Jul 26 <sup>th</sup> – Nov 15 <sup>th</sup> 2012	Transition Phase – accept & process NEW & PRESENT format – airspace user testing & implamentation
Nov 2012	All airspace users and ANSPs to be fully NEW compliant

## Item 10 – Filing of Indicators

Equipment and Capabilities filed must comprise the following elements...

1. Presence of relevant *serviceable equipment* on board the aircraft
2. Equipment and capabilities commensurate with flight *crew qualifications*
3. Where applicable, *authorisation* from the appropriate authority

# Item 10a – Changes Snapshot

## CURRENT Format Flight Plan:

(FPL-QFA663-IS

-B738/M-SDHIRWZG/S ← **CURRENT F10a Indicators**

-YBBN0545

-M078F380 DCT WIZZA UQ440 HARDD Q295 NBR UH408 NYN T77 VENEL Q53

-(*remainder of plan not shown*)

**NEW F10a Indicators**

## NEW Format Flight plan:

(FPL-QFA663-IS

-B738/M-SDE2E3FHIJ2J4J5M1RWZG/LB1

-YBBN0545

-M078F380 DCT WIZZA UQ440 HARDD Q295 NBR UH408 NYN T77 VENEL Q53

-(*remainder of plan not shown*)



# Item 10a – Changes Snapshot

**PDC - not previously filed**

**No longer included in 'S' - must be filed separately**

**Datalink - replace a single 'J'**

**SATCOM – not previously filed in 10a**

**Now requires an entry in F18 PBN/**

**NEW Format Flight plan:**  
(FPL-QFA663-IS  
-B738/M-SD **E2E3F** HI **J2J4J5M1R** WZG/LB1  
-YBBN0545  
-M078F380 DCT WIZZA UQ440 HARDD Q295 NBR UH408 NYN T77 VENEL Q53  
-(remainder of plan not shown)

The diagram shows a flight plan string with several characters highlighted in red boxes. Red arrows point from explanatory text to these characters: 'PDC - not previously filed' points to 'S' in '(FPL-QFA663-IS'; 'No longer included in 'S' - must be filed separately' points to 'E2E3F'; 'Datalink - replace a single 'J'' points to 'J2J4J5'; 'SATCOM – not previously filed in 10a' points to 'M1R'; and 'Now requires an entry in F18 PBN/' points to 'J2J4J5M1R'.

# Changes in Depth

## Item 10a

10a	PRESENT	NEW
N	Nil COM/NAV/APP aid equip	Nil COM/NAV/APP aid equip <b>(Nil Change)</b>
S	VHF RTF, <del>ADF</del> , VOR & ILS	VHF RTF, VOR, ILS (no ADF – *APR 2012)
A	<del>Not allocated</del>	GBAS Ldg System
B	<del>Not allocated</del>	LPV (APV with SBAS)
C	LORAN C	LORAN C <b>(Nil Change)</b>
D	DME	DME <b>(Nil Change)</b>
<del>E</del>	<del>Not allocated</del>	<b>E1 = FMC WPR ACARS</b> <b>E2 = D-FIS ACARS</b> <b>E3 = PDC ACARS</b>
F	ADF	ADF <b>(Nil Change)</b>
G	GNSS	GNSS  <i>Note: type of external GNSS augmentation to be specified in NAV/</i>
H	HF RTF	HF RTF <b>(Nil Change)</b>

# Changes in Depth

## Item 10a

10a	PRESENT	NEW
I	Inertial Navigation	Inertial Navigation <b>(Nil Change)</b>
<del>J</del>	<del>Data Link</del>  Note modified: See RTCA/ EUROCAE Interopability requirements for ATN baseline →	<b>J1</b> = CPDLC ATN VDL Mode 2 <b>J2</b> = CPDLC FANS 1/A HF DL <b>J3</b> = CPDLC FANS 1/A VDL Mode A <b>J4</b> = CPDLC FANS 1/A VDL Mode 2 <b>J5</b> = CPDLC FANS 1/A SATCOM (INMARSAT) <b>J6</b> = CPDLC FANS 1/A SATCOM (MTRSAT) <b>J7</b> = CPDLC FANS 1/A SATCOM (Iridium)
K	MLS	MLS <b>(Nil Change)</b>
L	ILS	ILS <b>(Nil Change)</b>
<del>M</del>	<del>Omega</del>	<b>M1</b> = ATC RTF SATCOM (INMARSAT) <b>M2</b> = ATC RTF (MTSAT) <b>M3</b> = ATC RTF (Iridium)
O	VOR	VOR <b>(Nil Change)</b>
<del>P</del>	<del>Not allocated</del>	P1 – P9 (Reserved for RCP – to be developed)

# Changes in Depth

## Item 10a

10a	PRESENT	NEW
<del>Q</del>	<del>Not allocated</del>	Removed
R	<del>RNP type certification</del>	PBN approved <i>Note: PBN levels must be specified in PBN/ within F18 . Refer Doc. 9613</i>
T	TACAN	TACAN (Nil Change)
U	UHF RTF	UHF RTF (Nil Change)
V	VHF RTF	VHF RTF (Nil Change)
W	<del>When prescribed by ATS</del>	RVSM approved
X	<del>When prescribed by ATS</del>	MNPS approved
Y	<del>When prescribed by ATS</del>	VHF with 8.33 channel spacing capability
Z	Other equipment carried +	Other equipment carried or other capability  <i>Note modified: Equipment or capabilities that are not specified in Item 10 must be specified in Item 18 preceded by COM/, NAV/, or DAT/</i>

## Item 10a – Summary of Changes

- Definition of ‘S’
- New PDC descriptors (E1, E2, E3)
- New Datalink descriptors (J1, J2, J3, J4, J5, J6, J7, J8, J9)
- New SATCOM descriptors (M1, M2, M3)
- New definition of ‘R’ – PBN descriptors
- New definition of ‘W’ – RVSM approved

## Item 10b – Changes in Context

### **CURRENT Format:**

(FPL-QFA597-IS

-A332/H-SDHIZWRJPG/**SD** ← **CURRENT F10b Indicators**

-YBBN0450

-N0465F380 WIZZA DCT HARDD DCT DOUGY DCT RACHL T33  
MACLA/N0465F400

**NEW F10b Indicators**

### **NEW Format:**

(FPL-QFA597-IS

-A332/H-SDE2E3FJ2J4J5M1HIZWRGY/**LB1D1**

-YBBN0450

-N0465F380 WIZZA DCT HARDD DCT DOUGY DCT RACHL T33  
MACLA/N0465F400

## Item 10b – Changes in Context

**Mode S, ACFT ID, pressure altitude, extended squitter (ADS-B) & enhanced surveillance capability**

**ADS-B with 1090Mhz ADS- B “out”**

**ADS-C with FANS 1/A**

**NEW Format:**  
(FPL-QFA597-IS  
-A332/H-SDE2E3FJ2J4J5M1HIZWRGY/LB1D1  
-YBBN0450  
-N0465F380 WIZZA DCT HARDD DCT DOUGY DCT RACHL T33  
MACLA/N0465F400

The diagram illustrates the context of the 'LB1D1' code within a flight plan. Three red arrows point from descriptive text to the 'LB1D1' code, which is highlighted in a red box. The first arrow points from the text 'Mode S, ACFT ID, pressure altitude, extended squitter (ADS-B) & enhanced surveillance capability'. The second arrow points from 'ADS-B with 1090Mhz ADS- B “out”'. The third arrow points from 'ADS-C with FANS 1/A'. The flight plan example shows the code 'LB1D1' in a red box, indicating its position in the flight plan data.

# Changes in Depth

## Item 10b

10b	PRESENT	NEW
N	<del>Nil surveillance equipment</del>	No surveillance equipment is carried for the route to be flown, or is unserviceable
A	Mode A transponder - 4 digits (4096 codes)	Mode A – transponder 4 digits (4096 codes) <b>(Nil Change)</b>
C	Mode C transponder - Mode A and Mode C	Mode C transponder - Mode A and Mode C <b>(Nil Change)</b>
E	<del>does not exist</del>	Mode S transponder with aircraft ID, pressure altitude and extended squitter (ADS-B) capability
H	<del>does not exist</del>	Mode S transponder with aircraft ID, pressure altitude and enhanced surveillance capability
I	Mode S transponder with aircraft ID but no pressure alt <del>transmission</del>	Mode S transponder with aircraft ID, but no pressure altitude capability
L	<del>does not exist</del>	Mode S with aircraft ID, pressure altitude, extended squitter (ADS-B) and enhanced surveillance capability



# Changes in Depth

## Item 10b

10b	PRESENT	NEW
P	Mode S transponder with pressure altitude but no aircraft ID <del>transmission</del>	Mode S transponder with pressure altitude but no aircraft ID <b>capability</b> <b>(Minor Change)</b>
S	Mode S transponder including both pressure altitude and aircraft ID <del>transmission</del>	Mode S transponder including both pressure altitude and aircraft ID <b>capability</b> <b>(Minor Change)</b>
X	Mode S transponder with neither aircraft ID and pressure altitude <del>transmission</del>	Mode S transponder with neither aircraft ID nor pressure altitude <b>capability</b> <b>(Minor Change)</b>

# Item 10b

10b	PRESENT	NEW
<del>D</del>	<del>ADS capability</del>	Removed <i>Expanded specifically as follows:</i>
B1	<del>does not exist</del>	ADS-B with dedicated 1090 MHz ADS-B “out” capability
B2	<del>does not exist</del>	ADS-B with dedicated 1090 MHz ADS-B “out” and “in” capability
U1	<del>does not exist</del>	ADS-B “out” capability using UAT
U2	<del>does not exist</del>	ADS-B “out” and “in” capability using UAT
V1	<del>does not exist</del>	ADS-B “out” capability using VDL Mode 4
V2	<del>does not exist</del>	ADS-B “out” and “in” capability using VDL Mode 4
D1	<del>does not exist</del>	ADS-C with FANS 1/A capabilities
G1	<del>does not exist</del>	ADS-C with ATN capabilities

## Item 18 - Other Information

### Indicators:

STS/	TYP/
PBN/	CODE/
NAV/	DLE/
COM/	OPR/
DAT/	ORGN/
SUR/	PER/
DEP/	ALTN/
DEST/	RALT/
DOF/	TALT/
REG/	RIF/
EET/	RMK/
SEL/	

- Mandatory Order
- New Indicators
- Some revised Indicator definitions

# Item 18 - Other Information

ITEM 18 Indicators	
<b>STS</b>	Nil free text – can only file specific acronyms from allowed list of thirteen <i>(full details later)</i>
<b>PBN</b>	RNAV and/or RNP capabilities (each code comprised of 1 alpha and numeric character) MAX 8 allowed to be filed from list of 24 <i>(full details later)</i>
<b>NAV</b>	Significant NAV equipment other than specified in PBN
<b>COM</b>	Communications applications or capabilities not listed in 10a
<b>DAT</b>	Data capabilities not specified in 10a
<b>SUR</b>	Surveillance application/capability not in specified in 10b
<b>DEP</b>	Name and location of DEP AD (ZZZZ in 13). Added instructions – how to indicate aerodromes not listed in AIP.
<b>DEST</b>	Name and location of DEP AD (ZZZZ in 16). Added instructions - how to indicate aerodromes not listed in AIP.

# Item 18 - Other Information

ITEM 18 Indicators	
<b>DOF</b>	Date of Flight –up to 120 hours filing in advance (yymmdd)
<b>REG</b>	Unchanged
<b>EET</b>	Unchanged
<b>SEL</b>	SELCAL Code <b>for aircraft so equipped</b> if so prescribed by ATS authority
<b>TYP</b>	Type(s) of aircraft preceded <b>if necessary without space</b> by number(s) if ZZZZ inserted in 9.
<b>CODE</b>	Unchanged
<b>DLE</b>	Enroute Delay (currently exists in Australia as DLA – not in 4444). <b>Insert significant point on route where delay is planned followed by duration (hhmm)</b>
<b>OPR</b>	<del>Name of operator if not obvious from aircraft ID in 7.</del> <b>ICAO designator or name of aircraft operating agency if different from aircraft ID in 7.</b>

# Item 18 - Other Information

ITEM 18 Indicators	
<b>ORGN</b>	Originator 8 letter AFTN address (when not readily identifiable)
<b>PER</b>	Aircraft performance data indicated by single letter from PANS OPS Doc 8168 if so prescribed by ATS
<b>ALTN</b>	Unchanged except if AD is not listed in AIP indicate in LAT/LONG or BRG/DIST from nearest significant point
<b>RALT</b>	Unchanged except if AD is not listed in AIP indicate in LAT/LONG or BRG/DIST from nearest significant point
<b>TALT</b>	Take off Alternate i.e. close AD for landing in the event of problem on DEP. if AD is not listed in AIP indicate in LAT/LONG or BRG/DIST from nearest significant point
<b>RIF</b>	Unchanged
<b>RMK</b>	Unchanged

## Item 18 - Other Information

**STS/** - Reason for special handling

- 13 descriptors (no others allowed)
  - ALTRV
  - ATFMX
  - FFR
  - FLTCK
  - HAZMAT
  - HEAD
  - HOSP
  - HUM
  - MARSA
  - MEDEVAC
  - NONRVSM
  - SAR
  - STATE
- Refer to 2012 reference material for complete details

## Item 18 - Other Information

**PBN/** - Indication of RNAV or RNP capabilities

### RNAV Specifications

**A1** RNAV 10 (RNP10)

**B1 – B5** RNAV 5

**C1 – C4** RNAV 2

**D1 – D4** RNAV 1

**L1** RNP 4

**O1 – O4** RNP

**S1 – S2** RNP APPCH

**T1 – T2** RNP AR APCH

- Refer to 2012 reference material for complete details



# Item 18 & Item 10 Dependencies

If **R** is filed in field **10a** then

- **PBN/** must have **an entry** (and vice versa)

## Item 18 & Item 10 Dependencies

### NEW Format:

(FPL-QFA597-IS

-A332/H-SDE2E3FJ2J4J5M1HIZWRGY/LB1D1

-YBBN0450

-N0465F380 WIZZA DCT HARDD DCT DOUGY DCT RACHL T33  
MACLA/N0465F400 T33 LEC J141 KG Q41 HAMTN Q158 PH DCT

-YPPH0455

-PBN/A1B2B3B4B5D1L1 NAV/GPSRNAV DOF/YMMMDD REG/VHEBP  
EET/YMMM0054 SEL/FHEG PER/C RIF/FRT N640 AD YPAD  
RMK/TCAS)

## Item 18 & Item 10 Dependencies

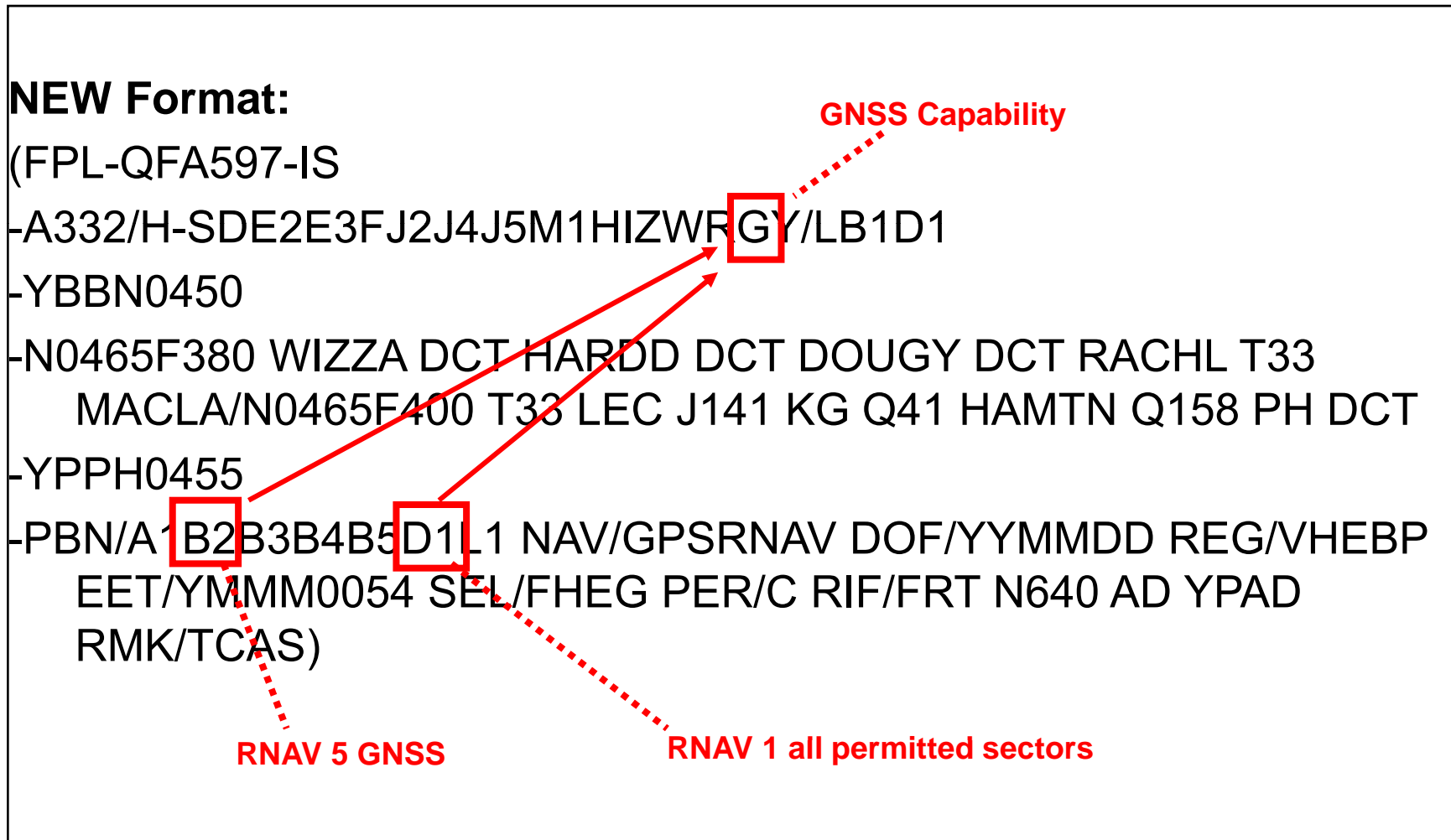
If **R** is filed in field **10a** then

- **PBN/** must have **an entry** (and vice versa)

If **B1, B2, C1, C2, D1, D2, O1 or O2** is included in **PBN/**

- then **G** must be included in field **10a**.

# Item 18 & Item 10 Dependencies



## Item 18 & Item 10 Dependencies

If **R** is filed in field **10a** then

- **PBN/** must have **an entry** (and vice versa)

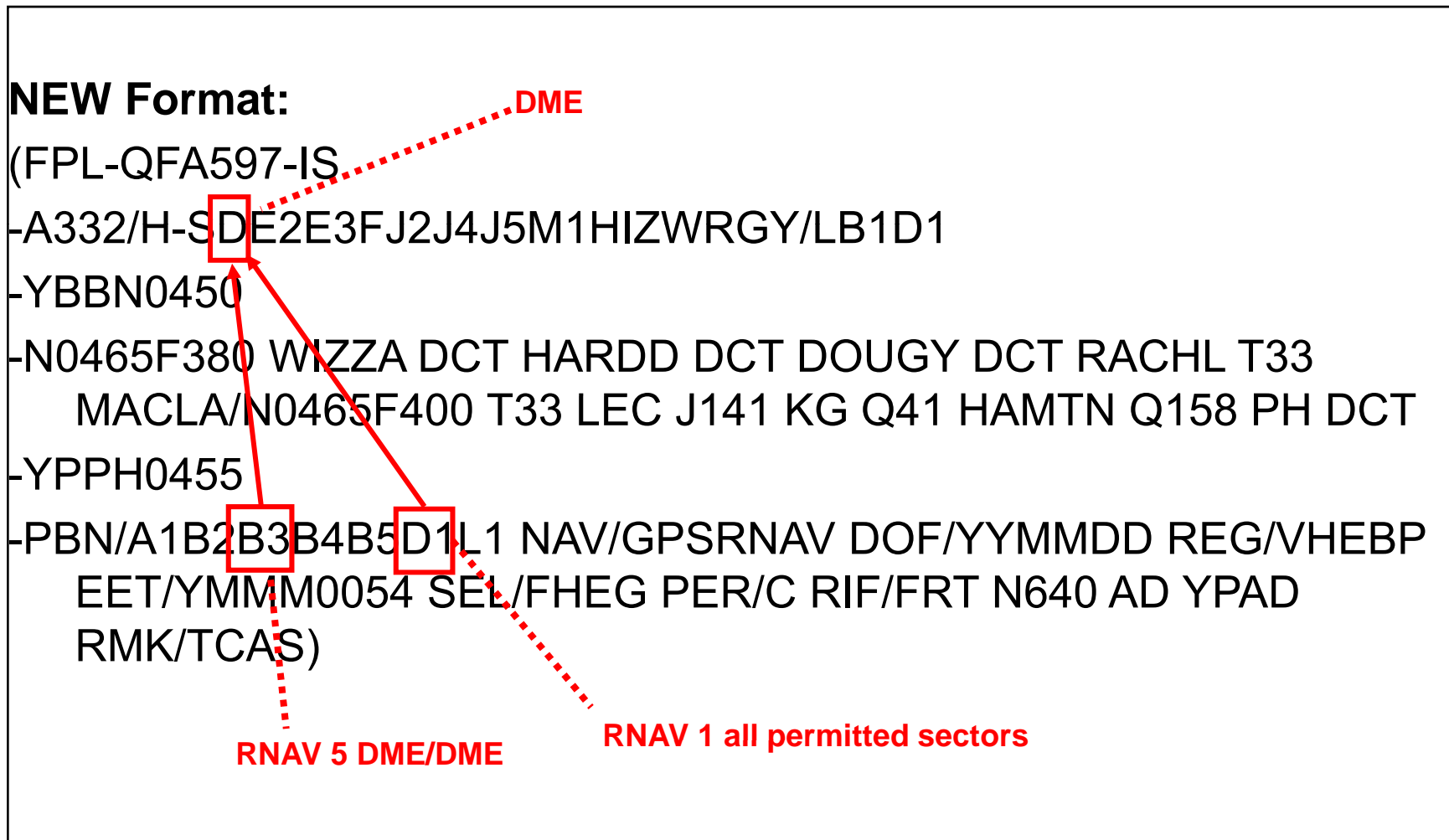
If **B1, B2, C1, C2, D1, D2, O1 or O2** is included in **PBN/**

- then **G** must be included in field **10a**.

If **B1, B3, B4, C1, C3, C4, D1, D3, D4, O1, O3 or O4** is included in **PBN/**

- then **D** must be included in field **10a**.

# Item 18 & Item 10 Dependencies



## Item 18 & Item 10 Dependencies

<p>If <b>R</b> is filed in field <b>10a</b> then - <b>PBN/</b> must have <b>an entry</b> (and vice versa)</p>
<p>If <b>B1, B2, C1, C2, D1, D2, O1 or O2</b> is included in <b>PBN/</b> - then <b>G</b> must be included in field <b>10a</b>.</p>
<p>If <b>B1, B3, B4, C1, C3, C4, D1, D3, D4, O1, O3 or O4</b> is included in <b>PBN/</b> - then <b>D</b> must be included in field <b>10a</b>.</p>
<p>If <b>B1</b> or <b>B4</b> is included in <b>PBN/</b> - then <b>O</b> or <b>S</b> must be included in field <b>10a</b>.</p>

# Item 18 & Item 10 Dependencies

## NEW Format:

(FPL-QFA597-IS

-A332/H-SDE2E3FJ2J4J5M1HIZWRGY/LB1D1

-YBBN0450

-N0465F380 WIZZA DCT HARDD DCT DOUGY DCT RACHL T33  
MACLA/N0465F400 T33 LEC J141 KG Q41 HAMTN Q158 PH DCT

-YPPH0455

-PBN/A1B2B3B4B5D1L1 NAV/GPSRNAV DOF/YMMMDD REG/VHEBP  
EET/YMMM0054 SEL/FHEG PER/C RIF/FRT N640 AD YPAD  
RMK/TCAS)

**RNAV 5 VOR/DME**



## Item 18 & Item 10 Dependencies

<p>If <b>R</b> is filed in field <b>10a</b> then - <b>PBN/</b> must have <b>an entry</b> (and vice versa)</p>
<p>If <b>B1, B2, C1, C2, D1, D2, O1 or O2</b> is included in <b>PBN/</b> - then <b>G</b> must be included in field <b>10a</b>.</p>
<p>If <b>B1, B3, B4, C1, C3, C4, D1, D3, D4, O1, O3 or O4</b> is included in <b>PBN/</b> - then <b>D</b> must be included in field <b>10a</b>.</p>
<p>If <b>B1</b> or <b>B4</b> is included in <b>PBN/</b> - then <b>O</b> or <b>S</b> must be included in field <b>10a</b>.</p>
<p>If <b>B1, B5, C1, C4, D1, D4, O1 or O4</b> is included in <b>PBN/</b> - then <b>I</b> must be included in field <b>10a</b>.</p>

# Item 18 & Item 10 Dependencies

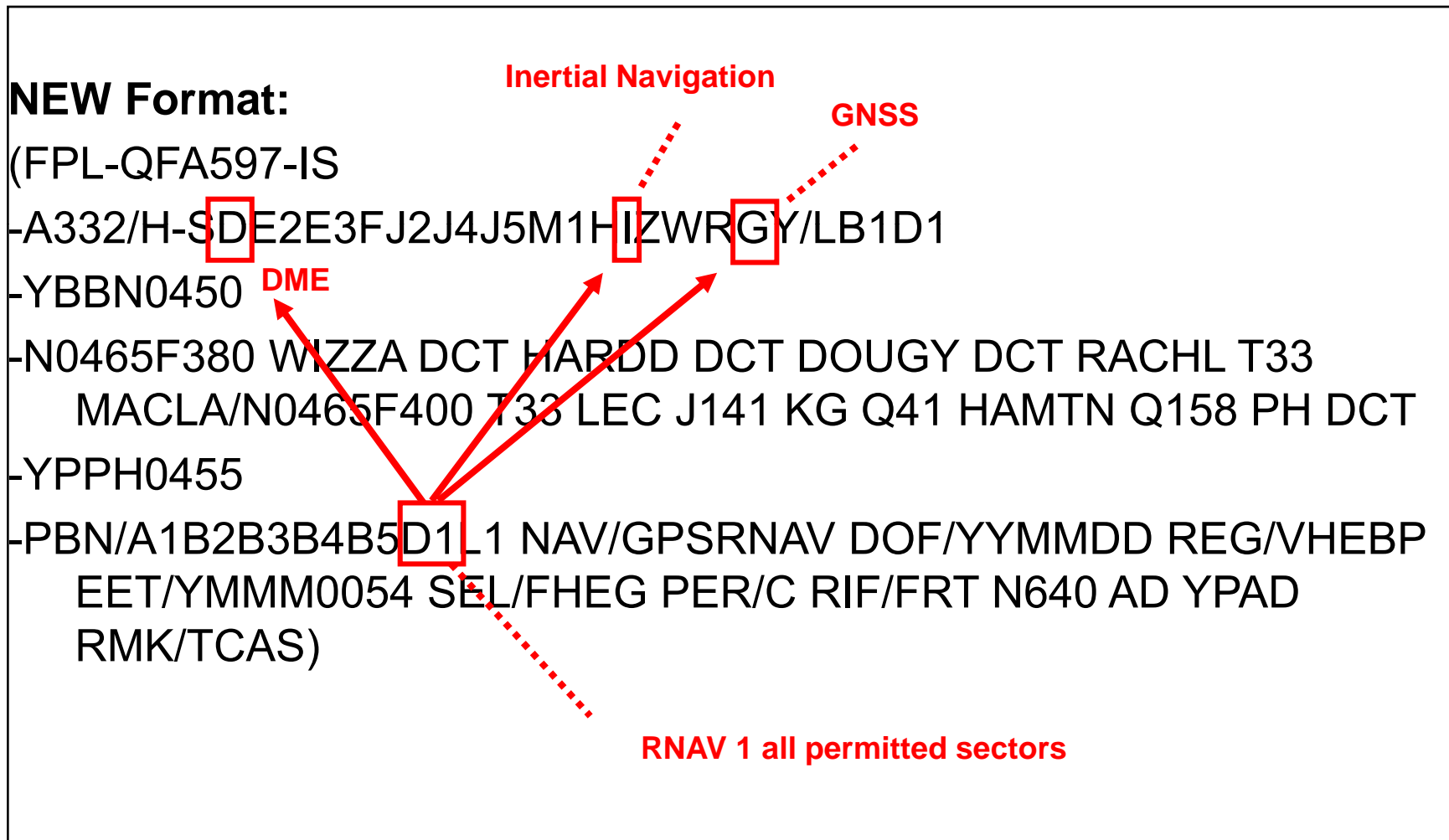
**NEW Format:**

(FPL-QFA597-IS  
-A332/H-SDE2E3FJ2J4J5M1HIZWRGY/LB1D1  
-YBBN0450  
-N0465F380 WIZZA DCT HARDD DCT DOUGY DCT RACHL T33  
MACLA/N0465F400 T33 LEC J141 KG Q41 HAMTN Q158 PH DCT  
-YPPH0455  
-PBN/A1B2B3B4B5D1L1 NAV/GPSRNAV DOF/YMMDD REG/VHEBP  
EET/YMMM0054 SEL/FHEG PER/C RIF/FRT N640 AD YPAD  
RMK/TCAS)

**Inertial Navigation**

**RNAV 5 INS or IRS**

# Item 18 & Item 10 Dependencies



## Other Item Changes

Item 15 – Can nominate a bearing & distance from a ‘Significant Point’ (rather than from a navigation aid)

Item 7 – Aircraft Identification up to 7 characters with no hyphen or symbol

- Refer to 2012 reference material for complete details

# General Message Processing

- 1) Flight Plan and Message Uniqueness checking
- 2) Flight plans with DOF and without DOF
- 3) Messages and DOF
- 4) Modification of DOF
- 5) DOF in AIDC messages

# General Message Processing

## Flight plan and Message Uniqueness Checking

To ensure uniqueness and correct message association the following keys are currently used:

- Aircraft Identification
- ADEP
- EOBT (except for DEP & DLA)
- ADES

After implementation, an additional uniqueness key will be used:

- DOF

# General Message Processing

## Flight plan and Message Uniqueness Checking

Where DOF has been filed in a flight plan, a DOF identifier (eg '-121105') must be included in subsequent message types:

- CHG
- CNL
- DLA
- DEP
- RQS
- RQP

Where DOF has not been filed in a flight plan, a DOF identifier '-0' must be included in the above messages

# General Message Processing

## Flight Plan and Message Uniqueness Checking

DLA-QFA663-YBBN0730-YPAD-DOF/121105

(FPL-QFA663-IS

-B738/M-SDE2E3FHIJ2J4J5M1RWZG/LB1

-YBBN0545

-M078F380 DCT WIZZA UQ440 HARDD Q295 NBR UH408 NYN T77 VENEL Q53

WOONA Q60 BLACK V454 AD DCT

-YPAD0234

-PBN/A1S1S2T1 NAV/GPSRNAV-DOF/121105 REG/VHVYL EET/YMMM0100 SEL/AMDP  
OPR/QANTAS PER/C RMK/TCAS)



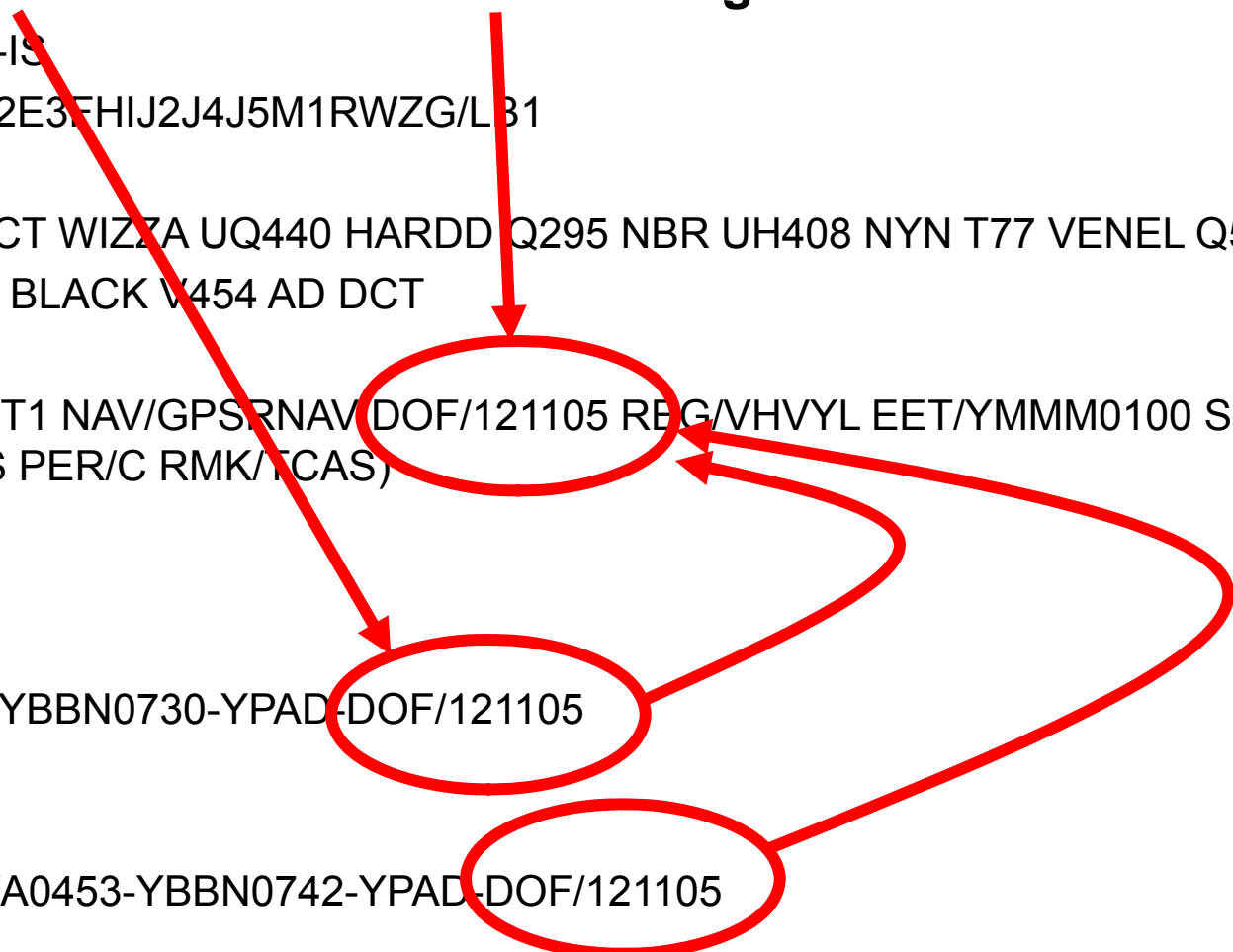
# General Message Processing

## DOF Identifier and DOF Indicator – Flight Plan with DOF

(FPL-QFA663-IS  
-B738/M-SDE2E3FHJ2J4J5M1RWZG/L31  
-YBBN0545  
-M078F380 DCT WIZZA UQ440 HARDD Q295 NBR UH408 NYN T77 VENEL Q53  
WOONA Q60 BLACK V454 AD DCT  
-YPAD0234  
-PBN/A1S1S2T1 NAV/GPSRNAV DOF/121105 REG/VHVYL EET/YMMM0100 SEL/AMDP  
OPR/QANTAS PER/C RMK/TCAS)

DLA-QFA663-YBBN0730-YPAD-DOF/121105

DEP-QFA663/A0453-YBBN0742-YPAD-DOF/121105



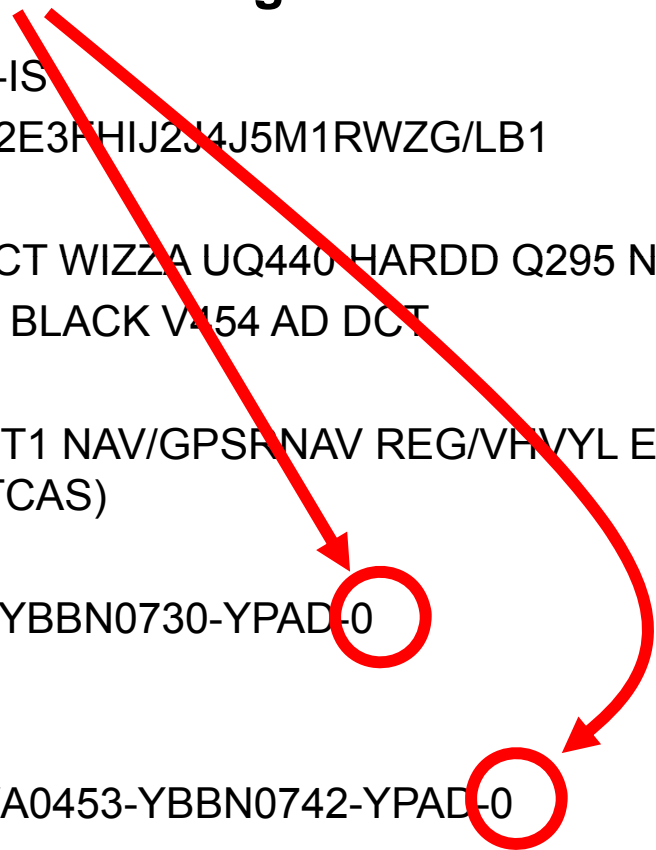
# General Message Processing

## DOF Identifier – Flight Plan with no DOF

(FPL-QFA663-IS  
-B738/M-SDE2E3FHIJ2J4J5M1RWZG/LB1  
-YBBN0545  
-M078F380 DCT WIZZA UQ440 HARDD Q295 NBR UH408 NYN T77 VENEL Q53  
WOONA Q60 BLACK V154 AD DCT  
-YPAD0234  
-PBN/A1S1S2T1 NAV/GPSR NAV REG/VH/VYL EET/YMMM0100 SEL/AMDP OPR/QANTAS  
PER/C RMK/TCAS)

DLA-QFA663-YBBN0730-YPAD-0

DEP-QFA663/A0453-YBBN0742-YPAD-0



# Questions