



*International Civil Aviation Organization*

**The Fifth Meeting of the Asia/Pacific ICAO Flight Plan and ATS Messages  
Implementation Task Force (FPL&AM/TF/5)**

Manila, Philippines, 8 -9 November 2011

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**Agenda Item 4: Asia/Pacific implementation strategies and aspects**

**CHG message processing during transition**

(Presented by Australia)

**SUMMARY**

This paper presents considerations when down converting CHG messages for States still in PRESENT

**1. INTRODUCTION**

- 1.1 Flight Data processing systems capable of processing NEW format flight plans during the Phase 3 transition period are required to also process PRESENT format, to cater for those airspace users and states that are yet to upgrade their systems.
- 1.2 Down conversion tables have been published by ICAO head office and APAC to facilitate this requirement.
- 1.3 States using NEW format are expected to software code their systems to down convert NEW format messages for ANSP's that are still only using PRESENT format.
- 1.4 Australia has identified an issue relating to the submission of CHG messages (with changes to Field 18) that require conversion.

**2. DISCUSSION**

- 2.1 The issue is best described by way of example. Consider the following NEW flight plan:

**NEW**

(FPL-UAE407-IS  
-B77W/H-SDFGIJ1RXWYZ/SB1  
-NZAA0550  
-M081F300 DCT PEBLU DCT UNTET L513 COOPS L508 MILLA DCT WAREN DCT ML  
-YMML0342 YSSY  
-PBN/D1B2L1A1 NAV/RNVD1E2A1 DOF/121120 REG/A6ECT EET/NZZO0031  
UNTET0117 YBBB0122 TUBBY0137 COOPS0155 YMMM0247 SEL/APEJ RALT/NZAA  
YSSY RMK/ADSB TCAS 7.0 HAR NRP)

- 2.2 ANSP 1 receives this flight plan addressed as ZQ and is required to forward (and down convert where required) to down stream recipients. ANSP 2 requires a PRESENT format flight plan which is down converted by ANSP 1 as follows:

**PRESENT**

(FPL-UAE407-IS  
 -B77W/H-SDGIJPRWXYZ/SD  
 -NZAA0550  
 -M081F300 DCT PEBLU DCT UNTET L513 COOPS L508 MILLA DCT WAREN DCT ML  
 -YMML0342 YSSY  
 -EET/NZZO0031 UNTET0117 YBBB0122 TUBBY0137 COOPS0155 YMMM0247  
 REG/A6ECT SEL/APEJ COM/B1 J1 DAT/V NAV/RNVD1E2A1 RNAV10 RNP10 A1 RNAV5 B2  
 RNAV1 D1  
 RNP4 L1 DOF/121120 RALT/NZAA YSSY RMK/ADSB TCAS 7.0 HAR NRP)

- 2.3 Subsequently a CHG message on this flight is required as a result of a change of Registration.

**NEW**

(CHG-UAE407-NZAA0550-YMML-DOF/110704  
 -18/PBN/D1B2L1A1 NAV/RNVD1E2A1 DOF/121120 REG/A6ECN EET/NZZO0031  
 UNTET0117 YBBB0122 TUBBY0137 COOPS0155 YMMM0247 SEL/JLGS RALT/NZAA  
 YSSY RMK/ADSB TCAS 7.0 HAR NRP)

- 2.4 This message will require down conversion for those ANSPs that are in PRESENT format only. ANSP 2 receives the following:

**PRESENT**

(CHG-UAE407-NZAA0550  
 -18/EET/NZZO0031 UNTET0117 YBBB0122 TUBBY0137 COOPS0155 YMMM0247  
 REG/A6ECN SEL/JLGS NAV/RNVD1E2A1 RNAV10 RNP10 A1 RNAV5 B2 RNAV1 D1  
 RNP4 L1 DOF/121120 RALT/NZAA YSSY RMK/ADSB TCAS 7.0 HAR NRP)

- 2.5 As there is a requirement to send the whole of the field being amended in Field 22 of a CHG message, most systems are coded to update their copy of the flight plan by overwriting the field(s) received in the CHG message.

- 2.6 This highlights an issue in the resulting content, in this case for ANSP 2, in relation to Field 18 after processing of the CHG message:

**Original Field 18:**

-EET/NZZO0031 UNTET0117 YBBB0122 TUBBY0137 COOPS0155 YMMM0247  
 REG/A6ECT SEL/APEJ **COM/B1 J1 DAT/V** NAV/RNVD1E2A1 RNAV10 RNP10 A1 RNAV5 B2  
 RNAV1 D1  
 RNP4 L1 DOF/121120RALT/NZAA YSSY RMK/ADSB TCAS 7.0 HAR NRP)

**Changed Field 18:**

-EET/NZZO0031 UNTET0117 YBBB0122 TUBBY0137 COOPS0155 YMMM0247  
 REG/**A6ECN** SEL/**JLGS** NAV/RNVD1E2A1 RNAV10 RNP10 A1 RNAV5 B2 RNAV1 D1  
 RNP4 L1 DOF/121120 RALT/NZAA YSSY RMK/ADSB TCAS 7.0 HAR NRP)

2.7 The change should have only been to the REG/ and SEL/, however as can be seen the COM/ and DAT/ entries are lost as they were originally populated through down converting Field 10a and 10b of the original flight plan.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to

- a. Take note of the information provided
- b. Consider the feasibility of sending field's 10a/b and field 18 in any submitted NEW format CHG message requiring down conversion to ensure that information is not inadvertently lost in processing of the message.
- c. Identify any issues expected in the region.

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