

FANS Interoperability Team Meeting (FIT/19)

Nadi, Fiji, 28-29 February 2012

Agenda Item 4 – Working Papers

CPDLC: Use of UM 175

Presented by AIRBUS

SUMMARY

During specific CPDLC tests carried out with one new ATSU centre, it was observed that the UM 175: “Report Reaching Level” was still in use by this ATSU.

The goal of this paper is to recall that such a message is no longer part of the PANS- ATM 4444 , is no longer mentioned in the GOLD and as such, has been removed from the set of CPDLC messages on new Airbus A/C. The list of suppressed messages is also given in this paper.

1. INTRODUCTION

- 1.1 Airbus has recently been contacted by a newly FANS equipped ATSU centre to carry out CPDLC tests.
- 1.2 During these tests the ATSU sent the UM 175 message “REPORT REACHING FL350”. It appeared that on new Airbus FANS systems (e.g. A350), this message is no longer supported.

2. DISCUSSION

- 2.1 Next Airbus new “FANS A” products (e.g. FANS A+B function on A350XWB) are designed and developed in compliance with the OACI Doc4444 PANS/ATM document, the GOLD V1.0 document, and the Oceanic SPR Standard RTCA DO-306/EUROCAE ED-122 document.
- 2.2 As some messages (uplinks and downlinks) in these documents are “Reserved” or stated “Avoid use”, next Airbus new “FANS A” products do not support these messages any longer.
- 2.3 The list of these messages is given in the attached annex.



- 2.4 So, Airbus recommends controllers and ground ATSU's not to use these messages in their operational CPDLC procedures and systems and to comply with the recommended practices of the Doc 4444 and GOLD documents.
- 2.5 This recommendation will be formally stated in the Airworthiness Approval Summary document related to these next new Airbus "FANS A" products.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) Note the deletion of some CPDLC FANS messages from new Airbus aircraft as per PANS/ATM and GOLD documentation and to recommend ATSU not to use these previous messages any longer.

ANNEX

Extract from “Doc 4444 PANS/ATM Fifteenth Edition”

Appendix 5: CONTROLLER-PILOT DATA LINK COMMUNICATIONS (CPDLC) MESSAGE SET

Table A5-2. Vertical clearances (uplink)

13 (reserved) ~~AT [time] EXPECT CLIMB TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
14 (reserved) ~~AT [position] EXPECT CLIMB TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
15 (reserved) ~~AT [time] EXPECT DESCENT TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
16 (reserved) ~~AT [position] EXPECT DESCENT TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
17 (reserved) ~~AT [time] EXPECT CRUISE CLIMB TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
18 (reserved) ~~AT [position] EXPECT CRUISE CLIMB TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
185 (reserved) ~~AFTER PASSING [position] CLIMB TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
186 (reserved) ~~AFTER PASSING [position] DESCEND TO [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
40 (reserved) ~~IMMEDIATELY STOP CLIMB AT [altitude]~~ Status in ED122 and GOLDV1.0: Avoid Use
41 (reserved) ~~IMMEDIATELY STOP DESCENT AT [altitude]~~ Status in ED122 and GOLDV1.0: Avoid Use
33 (reserved) ~~CRUISE [altitude]~~ Status in ED122 and GOLDV1.0: Avoid Use

Table A5-3. Crossing constraints (uplink)

42 (reserved) ~~EXPECT TO CROSS [position] AT [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
43 (reserved) ~~EXPECT TO CROSS [position] AT OR ABOVE [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
44 (reserved) ~~EXPECT TO CROSS [position] AT OR BELOW [level]~~ Status in ED122 and GOLDV1.0: Avoid Use
45 (reserved) ~~EXPECT TO CROSS [position] AT AND MAINTAIN [level]~~ Status in ED122 and GOLDV1.0: Avoid Use

Table A5-8. Report/confirmation requests (uplink)

175 (reserved) ~~REPORT REACHING [level]~~ Status in ED122 and GOLDV1.0: Avoid Use

Table A5-12. Additional messages (uplink)

178 (reserved) ~~TRACK DETAIL MESSAGE~~ Status in ED122 and GOLDV1.0: Avoid Use

Table A5-19. Reports (downlink)

72 (reserved) ~~REACHING [level]~~ Status in ED122 and GOLDV1.0: Avoid Use