



*International Civil Aviation Organization*

**The 10<sup>th</sup> Meeting of the FANS Implementation Team for South-East Asia (FIT-SEA/10) and the 17<sup>th</sup> Meeting of the South-East Asia ATS Coordination Group (SEACG/17)**

Singapore, 24 – 27 May 2010

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**Agenda Item 2: Review of ADS/CPDLC Implementation**

**ADS/CPDLC operational  
Implementation in Ho Chi Minh FIR**

(Presented by Viet Nam)

**SUMMARY**

This Information Paper presents the status of ADS/CPDLC operational implementation in Ho Chi Minh FIR

**1. INTRODUCTION**

- 1.1 Viet Nam has officially started providing data link services on 08 ATS/RNAV routes L625, L628, L642, M765, M768, M771, N500 and N892 in the oceanic area of Ho Chi Minh FIR since 0001UTC April 2008.
- 1.2 ADS/CPDLC services are available 24/24hours per day and conducted with appropriate FAN1/A equipped aircraft of all airlines. The detailed procedures for operations have been developed basing on the FANS 1/A Operations Manual.

**2. OPERATION STATUS**

- 2.1 The status of ADS/CPDLC operations:
  - Based on the daily records, there are 200 flights overflown the above ATS routes, but only half of them have been equipped with both ADS and CPDLC applications.
  - There were about 65 flights initiating logon with Ho Chi Minh System daily, in which 98 present of flights logged on successfully.
- 2.2 Technical status:
  - Ground system: There is no modification to ground system, and the system is working satisfactorily.
  - ACARs link: With dual link provided by ARINC, there is no unplanned interruption and the connection between our system and service provider's server is stable.
  - Data link transfers between Ho Chi Minh ACC and Singapore ACC have been taking place smoothly, except for some glitches concerning late FN\_CAD uplink messages or FN\_COMP downlink messages.
- 2.3 Periodic Status Reports: The periodic status reports have been made weekly and sent to CRA-Japan for analysis and there is no recommendation for any correction received from CRA. Based on our statistic, we noted as follow:

- CPDLC Up link Performance is met the FOM criteria.
- CPDLC Down link Performance at 99 Percentile as well as at 95 Percentile are within the FOM criteria with following summary:
  - + January 2010: 58”
  - + February 2010: 59”
  - + March 2010: 58”
  - + April 2010: 59”
- Problem Reports: There was no problem report being made and forwarded to CRA.

**3. PROSPEROUS FUTURE IMPROVEMENT**

- 3.1 Further cooperation amongst ICAO, IATA, Vietnam, Singapore, Japan, and others concerning should be enhanced in supporting the implementation of ADS/CPDLC in the area. CAAV continues to request JCAB continuing to support on CRA service.
- 3.2 Future actions of improvement are as follows:
  - Maintenance of stable operation of data link.
  - Improvement of quality of data link.
  - Reduction of Up link time and Down link time in order to allow the improvement on ADS/CPDLC separation application.
  - Expansion of ADS/CPDLC operation into other FIRs in our area.

**4. ACTION BY THE MEETING**

- 4.1 The meeting is invited to note the information presented in this paper.

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