



INTERNATIONAL CIVIL AVIATION ORGANIZATION

Second meeting of the AFI Region e-TOD Working Group

(Dakar , Senegal, 19 July 2011)

Agenda Item 4: ANP/FASID Requirements related to e-TOD.

(Presented by the Secretariat)

SUMMARY

This Paper provides a follow-up of the APIRG/17 Conclusion 17/90 (b) relevant to the proposed FASID Table at Appendix to be included as a requirement in the AFI FASID (Document 7474, Vol. II).

Action required in Paragraph 3

1. Introduction

- 1.1 The APIRG/17 Meeting held in Ouagadougou, Burkina Faso from 2-6 August 2011 reviewed and adopted Conclusion 17/90 emanating from the AIS/MAP Task Force 5 Meeting pertaining to the implementation of WGS-84 and electronic terrain and obstacle data (e-TOD) in the AFI Region .

2. Discussion.

- 2.1 The meeting is invited to note the relevant Conclusion 17/90 (b) related to e-TOD Implementation and decide on follow-up actions to be taken by concerned parties including the deliverables and target dates of implementation pursuant to State letter ref. T2/7-0476 of 16 June 2011.

CONCLUSION 17/90: IMPLEMENTATION OF WGS-84 AND ELECTRONIC TERRAIN AND OBSTACLE

DATA:

- b) That: The proposed FASID table at Appendix F be adopted for inclusion as a requirement in the AFI FASID (Document 7474, Vol. II);

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the deliberations of APIRG/17 Meeting;
 - b) Review and adopt the proposed amendment to include the Draft FASID Table prepared by the Secretariat to be included into the AFI FASID, Part VIII (AIS), with necessary amendments as appropriate;

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Proposal for Amendment to the AFI Basic ANP (Doc 7474 Vol.II) for the introduction of a new Section related to eTOD

World Geodetic System – 1984 (WGS-84)

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5.9 In order to ensure that quality (accuracy, resolution and integrity) and traceability requirements for the WGS-84 related geographical coordinate data are met, States must take measures to develop and introduce a quality system programme. This programme containing procedures, processes and resources should be in conformity with the International Organization for Standardization (ISO) 9000 series of quality assurance standards.

(Insert the following new Text)

Electronic Terrain and Obstacle Data (eTOD) Requirements

(FASID Table AIS 9)

6.1 Recognizing that significant safety benefits for international civil aviation will be provided by in-flight and ground-based applications that rely on quality electronic Terrain and Obstacle Data (eTOD), States should make every effort to implement the eTOD provisions in accordance with Chapter 10 of Annex 15 and Doc 9881.

6.2 FASID Table AIS-X sets out the requirements for the provision of Electronic Terrain and Obstacle Data (eTOD) to be provided by States.

6.3 The implementation of eTOD should involve different Administrations within and outside the Civil Aviation Authority i.e.: AIS, Aerodromes, Military, National Geographic and Topographic Administrations/Agencies, procedure designers, etc.

6.4 States, while maintaining the responsibility for data quality and availability, should consider to which extent the provision of electronic terrain and obstacle data could be delegated to national geodetic Institutes/Agencies, based on Service Level Agreement reflecting such delegation.

6.5 States should consider carefully the required level of details of collected terrain and obstacle data with particular emphasis on obstacle data and associated cost.

6.6 States should take into consideration the requirements for update/maintenance of data, especially related to obstacles.

6.7 States should work co-operatively with regard to the cross-border issue, for the sake of harmonization and more efficient implementation of eTOD.

(Renumber the following paragraphs)

FASID TABLE AIS-X — eTOD REQUIREMENTS

EXPLANATION OF THE TABLE

- 1 Name of the State, territory or aerodrome for which electronic Terrain and Obstacle Data (eTOD) are required with the designation of the aerodrome use:

RS — international scheduled air transport, regular use RNS — international non-scheduled air transport, regular use RG — international general aviation, regular use AS — international scheduled air transport, alternate use
- 2 Runway designation numbers
- 3 Type of each of the runways to be provided. The types of runways, as defined in Annex 14, Volume 1, Chapter I, are:

NINST — non-instrument runway;
NPA — non-precision approach runway
PA1 — precision approach runway, Category I; PA2 — precision approach runway, Category II; PA3 — precision approach runway, Category III.
- 4 Requirement for the provision of Terrain data for Area 1, shown by an “X” against the State or territory to be covered.
- 5 Requirement for the provision of Terrain data for Area 2 (TMA), shown by an “X” against the aerodrome to be covered.
- 6 Requirement for the provision of Terrain data for Area 2 (45 Km radius from the ARP), shown by an “X” against the aerodrome to be covered.
- 7 Requirement for the provision of Terrain data for Area 3, shown by an “X” against the aerodrome to be covered.
- 8 Requirement for the provision of Terrain data for Area 4, shown by an “X” against the runway threshold to be covered.
- 9 Requirement for the provision of Obstacle data for Area 1, shown by an “X” against the State or territory to be covered.
- 10 Requirement for the provision of Obstacle data for Area 2 (TMA), shown by an “X” against the aerodrome to be covered.
- 11 Requirement for the provision of Obstacle data for Area 2 (45 Km radius from the ARP), shown by an “X” against the aerodrome to be covered.
- 12 Requirement for the provision of Obstacle data for Area 3, shown by an “X” against the aerodrome to be covered.
- 13 Remarks (timetable for implementation)

Note: For Columns 4 to 12 use the following symbols:

X- Required but not implemented
XI- Required and implemented

STATE, TERRITORY OR AERODROME FOR WHICH eTOD IS REQUIRED			TERRAIN DATA REQUIRED					OBSTACLE DATA REQUIRED				REMARKS	
CITY/AERODROME	RWY No	RWY TYPE	Area 1	Area 2		Area 3	Area 4	Area 1	Area 2		Area 3	Area 4	
				TMA	45Km m				TMA	45Km			
FBSP SELEBI-PHIKWE/Selebi-Phikwe RS	12 30	NINST PA1 NINST											
BURKINA FASO													
DFOO BOBO-DIOULASSO/Bobo-Dioulasso RS	06 24	PA1 NPA											
DFFD OUAGADOUGOU/Ouagadougou RS	04L 22R	PA1 NPA											
BURUNDI													
HBBA BUJUMBURA/Bujumbura RS	18 36	PA1 NPA											
CAMEROON													
FKKD DOUALA/Douala RS	12 30	NPA PA2											
FKKR GAROUA/Garoua RS	09 27	PA1 NPA											
FKKL MAROUA/Salak RS	13 31	NPA NINST											
FKKN e AS	03 21	NPA NINST											
FKYS YAOUNDE/Nsimalen RS	01 19	NINST PA2											
CAPE VERDE													
GVFM PRAIA/Francisco Mendes RS	04 22	NPA NINST											
GVAC SAL I./Amilcar Cabral RS	01 19 07 25	PA1 NPA											
CENTRAL AFRICAN REPUBLIC													

