



International Civil Aviation Organization

**THE FIRST MEETING OF ASIA/PACIFIC ATS INTER-FACILITY
DATA-LINK COMMUNICATION (AIDC) IMPLEMENTATION
TASK FORCE (APA TF/1) OF APANPIRG**

Bangkok, Thailand, 16 -18 June 2015

Agenda Item 6: Review of regional specific requirements for APAC e-ANP (Table CNS 1E)

REVIEW APAC FASID TABLE CNS 1E

(Presented by the Secretariat)

SUMMARY

This paper presents the current FASID Table CNS 1E for consideration by Task Force as the regional specific requirements for inclusion into the Vol. II of the new APAC e-ANP based on the recommendations from AIDC Seminar and ACS Implementation Coordination Group.

The meeting is also expected to further update the table and provide recommendations on the improvement with respect to the format of the Table.

1. INTRODUCTION

1.1 The AIDC Seminar held from 28 to 31 October 2014 in Bangkok recommended that the current Table CNS 1E (updated) would become regional specific requirement for APAC region and the title name of column 4 of the table should be reviewed. I.e. instead of AFTN /AMHS standard, transmission means may be considered.

1.2 The FASID Table CNS 1E - ATS Inter-facility Data Communication (AIDC) Implementation Plan which was updated during the AIDC Seminar in October 2014 provides implementation and planning information on AIDC for the APAC Region.

2. DISCUSSION

2.1 In accordance with Decision 18/23 of CNS Sub-group of APANPIRG regarding the development of CNS part of future e-ANP, the first meeting of the e-ANP working group was held in Bangkok, Thailand from 8 to 10 April 2015. Prior to this meeting, two teleconferences on the same subject were also conducted in early 2015.

2.2 The e-ANP Working Group meeting reviewed the tasks and background information contained in WP/02, WP/03 and a presentation. An initial gap analysis was provided in WP04 between harmonized templates and current tables.

2.3 The meeting noted the objective and purpose of the regional ANPs as highlighted below:

- a) the ANPs provide for the planning and implementation of air navigation systems within a specified region(s), in accordance with the agreed global and regional planning framework. They are developed to meet those needs of specific areas not covered in the worldwide provisions. The development and maintenance of the ANPs is undertaken by ICAO PIRGs with the assistance of the ICAO Secretariat;
- b) the ANPs are used as a repository document for the assignment of responsibilities to States for the provision of air navigation facilities and services within a specified area in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300);
- c) the ANPs contain requirements related to the facilities and services to be implemented by States in accordance with regional air navigation agreements. The ANPs contain provisions that States can follow in planning the provision of their air navigation facilities and services, with the assurance that facilities and services furnished in accordance with the plan will harmonise with those of other States for an integrated system adequate for the foreseeable future;
- d) The procedural parts of ANPs are published in the ICAO Regional Supplementary Procedures (SUPPs) (Doc 7030);
- e) the ANPs may serve as a basis for air navigation service charges which are levied for services provided or made available to users, in accordance with ICAO's Policies on Charges for Airports and Air Navigation Services (Doc 9082) and ICAO Manual on Air Navigation Services Economics (Doc 9161); and
- f) the ANPs support the performance-based approach to planning adopted by ICAO to measure the efforts made by States in implementing the agreed requirements.

2.4 The definition of air navigation deficiency also has very close relation with the regional ANP.

2.5 The meeting recalled that the 12th Air Navigation Conference (AN-Conf/12) developed Recommendation 6/1 - Regional Performance Framework – Planning Methodologies and Tools, regarding the alignment of regional Air Navigation Plans (ANP) with the Fourth Edition of the Global Air Navigation Plan (GANP) (Doc 9750). It was also informed that the **some common and harmonized text and templates for new e-ANP Vol. I, Vol. II and Vol. III had been reviewed by Air Navigation Commission and approved by the ICAO Council in June 2014.**

e-ANP Vol. I

2.6 Thailand did an initial analysis to the existing information of CNS Part (Part IV) in the current Basic ANP and proposed to make necessary amendments to the provisions to be retained in the Part III of new e-ANP as regional specific requirement. The meeting reviewed the proposal and made recommendations for keeping some important contents separately in the different volumes of the new e-ANP. Some out of dated APANPIRG Conclusion were suggested to be no longer kept in the e-ANP. The detailed proposal with a table of justification resulted from discussions by the meeting is provided in the Appendix B to the meeting Report. This would be included into Vol. I as regional specific requirements.

e-ANP Vol. II - common template parts

2.7 The meeting reviewed four new templates for the CNS part adopted by the Council including:

- CNS II-1 – Aeronautical Fixed Telecommunications Network (AFTN) Plan;
- CNS II-2 – Required ATN Infrastructure Routing Plan;
- Table CNS II-3 - ATS Direct Speech Circuits Plan;
- Table CNS II-4 – HF Network designators applicable for the Region

2.7.1 The required information for the above tables either were updated during the first meeting of the e-ANP working group or being updated through input from States or Secretariat.

e-ANP Vol. II - Regional Specific Requirements

2.8 The e-ANP working group meeting further reviewed the rest of CNS Tables in the Part IV of FASID (Doc 9673 Vol. II). Among the others, the outcome of discussions regarding AIDC plan was noted as follows.

2.8.1 FASID Table CNS 1E - AIDC Implementation Plan (which was updated through PFA in August 2012). The meeting considered that information contained in the current Table CNS 1E – AIDC Implementation Plan should be kept as regional specific requirements as implementation of AIDC had been identified as one of priorities by APANPIRG. The meeting recommended referring this Table for further refinement in terms for format and essential planning information by AIDC Task Force at APA TF/1 meeting.

2.8.2 The FASID Table CNS 1E resulted from the AIDC seminar is provided in **Attachment** to this paper for further review by the meeting.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) note the recommendations from the AIDC Seminar and ACSICG/2 meeting to keep Table CNS 1E – AIDC Implementation Plan as the regional specific requirements in the new e-ANP for the APAC Region;
- c) review the format of the AIDC Implementation Plan; and
- d) update the information contained in the Table.

TABLE CNS 1E
ATS INTER-FACILITY DATA COMMUNICATION (AIDC)
IMPLEMENTATION PLAN

EXPLANATION OF THE TABLE

Column

- 1 State/Administration – the name of the State/Administration;
- 2 Location of AIDC end system – the location of the AIDC end system under the supervision of State/Administration identified in column 1;
- 3 AIDC Pair – the correspondent AIDC end system;
Location – location of the correspondent AIDC end system
State/Administration – the name of the State/Administration responsible for management of the correspondent AIDC end system
- 4 AIDC standard used – the AIDC standard adopted for the AIDC connection between the corresponding AIDC pair, AFTN, AFTN/AMHS or ATN;
- 5 Target Date of Implementation – date of implementation of the AIDC end system;
- 6 Remarks – any additional information describing the AIDC end system or the AIDC service between the corresponding AIDC pair.

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks		
		Correspondent location	Correspondent State/Administration					
1	2	3		4	5	6		
AUSTRALIA	Brisbane ACC	Oakland ARTCC	USA	AFTN	Implemented			
				AFTN/AMHS	TBD			
		Auckland ACC	New Zealand	AFTN	Implemented			
				AFTN/AMHS	TBD			
		Melbourne	Australia	AFTN	Implemented			
				AFTN/AMHS	TBD			
		Melbourne ACC	Makassar ACC	Indonesia	AFTN	2010		
				AFTN/AMHS	TBD			
	Nadi ACC		Fiji	AFTN	Implemented			
				AFTN/AMHS	Implemented			
				Brisbane ACC	Australia	AFTN	Implemented	
						AFTN/AMHS	TBD	
		Jakarta ACC	Indonesia	AFTN	TBD			
				AFTN/AMHS	TBD			
		Mauritius ACC	Mauritius	AFTN	Implemented			
				AFTN/AMHS	TBD			
BANGLADESH	Dhaka ACC	Kolkata ACC	India	AFTN/AMHS	2017			
		Yangon ACC	Myanmar	AFTN/AMHS	2017	Subject to concurrence with Myanmar		
BHUTAN								
BRUNEI DARUSSALAM			Not Required					
CAMBODIA	Phnom Penh ACC	Bangkok ACC	Thailand	AFTN	2016			
		Hcm and Viet Tian		AFTN/AMHS	2015			
CHINA	Beijing ACC	Incheon ACC	Republic of Korea	AFTN	TBD			
	Sanya ACC	Hong Kong ACC	Hong Kong, China	AFTN	Implemented			
		Ho Chi Minh ACC	Vietnam	AFTN	TBD			
	Guangzhou ACC	Hong Kong ACC	Hong Kong, China	AFTN	TBD			
	Taipei ACC	Hong Kong ACC	China	TBD	2012			
	Shanghai ACC	Fukuoka ATMC	Japan	TBD	TBD			
HONG KONG, CHINA	Hong Kong ACC	Guangzhou ACC	China	AFTN	TBD			
		Sanya ACC	China	AFTN	Implemented			
		Manila ACC	Philippines	AMHS	TBD			

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks
		Correspondent location	Correspondent State/Administration			
1	2	3		4	5	6
		Taipei ACC	China	TBD	2012	
MACAO, CHINA	Macao ATZ					Automatic transfer of control with adjacent ATC units is applicable instead of AIDC
COOK ISLANDS						
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA						
FIJI	Nadi ACC	Auckland ACC	New Zealand	AFTN	Implemented	ICD V.1.0
				AFTN/AMHS	2010	
		Brisbane ACC	Australia	AFTN	Implemented	ICD V. 1.0
				AFTN/AMHS	Implemented	
		Oakland ARTCC	USA	AFTN	Implemented	ICD V.1.0
				AFTN/AMHS	2010	
FRANCE						
<i>French Polynesia</i>	Papeete ACC	Auckland ACC	New Zealand	AFTN	Implemented	ICD V. 2.0
<i>New Caledonia</i>						
INDIA	Kolkata ACC	Dhaka ACC	Bangladesh	AFTN	TBD	
	Mumbai ACC	Karachi ACC	Pakistan	AFTN	TBD	Subject to co-ordination between Administrations
				AFTN/AMHS	TBD	
INDONESIA	Jakarta ACC	Melbourne	Australia	AFTN/AMHS	TBD	
	Makassar ACC	Brisbane ACC	Australia	AFTN	2010	On trial
				AFTN/AMHS	TBD	
JAPAN	Fukuoka ATMC	Anchorage ACC	USA	AFTN	Implemented	ICD V.2.0
		Incheon ACC	Republic of Korea	AFTN	Implemented	ICD V.1.0
		Oakland ARTCC	USA	AFTN	Implemented	ICD V.2.0
		Taipei ACC	Taipei, China	AFTN	2012	ICD V.3.0
KIRIBATI						
		(Cambodia and Viet Nam)				
LAO PEOPLE'S DEMOCRATIC REPUBLIC	Vientiane ACC	Bangkok ACC	Thailand	AFTN	2016	

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks
		Correspondent location	Correspondent State/Administration			
1	2	3		4	5	6
MALAYSIA	Kuala Lumpur ACC	Bangkok ACC	Thailand	AFTN	2016	ICD V.3.0
		Singapore	Singapore	AFTN	2015	ICD V.3.0
		Chennai ACC	India	AFTN	2015	ICD V.3.0
		Ho Chi Minh ACC	Vietnam	AFTN	2015	ICD V.3.0
	Kota Kinabalu ACC	Jakarta ACC	Indonesia	AFTN	TBD	ICD V.3.0
		Singapore ACC	Singapore	AFTN	2015	ICD V.3.0
		Manila ACC	Philippines	AFTN	TBD	ICD V.3.0
		Kuching ACC	Malaysia	TCP/IP	Implemented	ICD V.3.0
		Ujung Padang	Indonesia	AFTN	TBD	ICD V.3.0
		Kuching ACC	Singapore ACC	Singapore	AFTN	2015
Kota Kinabalu ACC	Malaysia		TCP/IP	Implemented	ICD V.3.0	
MALDIVES	Male ACC	Colombo ACC	Sri Lanka	AFTN	TBD	
MARSHALL ISLANDS						
MICRONESIA (FEDERATED STATE OF)						
MONGOLIA						
MYANMAR	Yangon ACC	Bangkok ACC	Thailand	AFTN	2015-16	ICD V.2.0
		Kolkata ACC	India	AFTN	2016	
		Chennai ACC	India	AFTN	2016-17	
		Kunming ACC	China	AFTN	2016	
		Vientianne ACC	Lao PDR	AFTN	2016-17	
		Dhaka ACC	Bangladesh	AFTN	2016-17	
NEPAL	Kathmandu ACC	Kolkata ACC	India	AFTN	2010	
				AFTN/AMHS		
		Banaras ACC	India	AFTN	2010	
				AFTN/AMHS		
		Lhasa ACC	China	AFTN	2010	
		AFTN/AMHS				

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks
		Correspondent location	Correspondent State/Administration			
1	2	3		4	5	6
NAURU	Brisbane ACC	Oakland ARTCC	USA	AFTN	Implemented	ICD V.1.0
				AFTN/AMHS	TBD	
		Nadi ACC	Fiji	AFTN	Implemented	ICD V.1.0
				AFTN/AMHS	2010	
NEW ZEALAND	Auckland ACC	Brisbane ACC	Australia	AFTN	Implemented	ICD V.1.0
				AFTN/AMHS	2010	
		Nadi ACC	Fiji	AFTN	Implemented	ICD V.1.0
				AFTN/AMHS	2010	
		Oakland ARTCC	USA	AFTN	Implemented	ICD V.2.0
				AFTN/AMHS	2010	
		Papeete ACC	French Polynesia	AFTN	Implemented	ICD V.2.0
		PAKISTAN	Karachi	Mumbai ACC	India	AFTN
AFTN/AMHS						
Muscat ACC	Oman			AFTN	TBD	
				AFTN/AMHS		
Tehran ACC	Iran			AFTN	TBD	
				AFTN/AMHS		
Delhi ACC	India			AFTN	TBD	
				AFTN/AMHS		
Ahmadabad ACC	India			AFTN	TBD	
				AFTN/AMHS		
Kabul ACC	Afghanistan			AFTN	TBD	
				AFTN/AMHS		
Lahore	Delhi ACC	India	AFTN	TBD		
			Urumqui	China	AFTN/AMHS	

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks	
		Correspondent location	Correspondent State/Administration				
1	2	3		4	5	6	
		Tajakistan Kabul ACC	Tajakistan Afghanistan	AFTN AFTN/AMHS	TBD		
		Karachi	Lahore	Pakistan between Domestic ACCs Karachi and Lahore	AFTN		end 2010
PALAU							
PAPUA NEW GUINEA							
PHILIPPINES	Manila ACC	Hong Kong ACC	Hong Kong, China	AFTN AFTN/AMHS	TBD TBD		
		Singapore ACC	Singapore	AFTN AFTN/AMHS	TBD TBD		
		Taibei	Taibei, China	AFTN AFTN/AMHS	TBD TBD		
		Kota Kinabalu ACC	Malaysia	AFTN AFTN/AMHS	TBD TBD		
		Ho Chi Minh ACC	Viet Nam	AFTN AFTN/AMHS	TBD TBD		
		Oakland ARTCC	USA	AFTN AFTN/AMHS	TBD TBD		
		Fukoka ATMC	Japan	AFTN AFTN/AMHS	TBD TBD		
		Ujung Pandang ACC	Indonesia	AFTN AFTN/AMHS	TBD TBD		
		REPUBLIC OF KOREA	Incheon ACC	Fukoka ATMC	Japan	AFTN	Implemented
Beijing	China			AFTN	TBD		
SAMOA							
	Singapore ACC	Ho Chi Minh ACC	Vietnam	AFTN/AMHS ATN	2014 TBN	ICD Version 1.0 Implemented on Aug. 2014.	
		Manila ACC	Philippines	AFTN/AMHS	2015		ICD Version 3.0 Subject to

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks
		Correspondent location	Correspondent State/Administration			
1	2	3		4	5	6
SINGAPORE				ATN	TBN	concurrence from States
		Jakarta ACC	Indonesia	AFTN/AMHS	2016	Technical trials
		Kuala Lumpur ACC	Malaysia	AFTN/AMHS	2015	ICD Version 1.0 Subject to concurrence from Kuala Lumpur Technical trials
		Kota Kinabalu ACC	Malaysia	AFTN/AMHS	2014	
		Kuching	Malaysia	AFTN/AMHS	2015	
				ATN	TBN	
				ATN	TBN	
SOLOM ISLANDS						
SRI LANKA	Colombo ACC	Male ACC Chennai ACC	Maldives India	AFTN/AMHS AFTN/AMHS	TBD 2015	
TIMOR LASTE		Melbourne ACC	Austrlia	AFTN/AMHS	March 2015	
THAILAND	Bangkok ACC	Kuala Lumpur ACC	Malaysia	AFTN/AMHS	2016	
		Phnom Penh ACC	Cambodia	AFTN/AMHS	2016	
		Vientiane ACC	Lao PDR	AFTN/AMHS	2016	
		Yangon ACC	Myanmar	AFTN/AMSH	2016	
TONGA						
UNITED STATES	Oakland ARTCC	Auckland OAC	New Zealand	AFTN	Implemented	ICD V.2.0
		Fukuoka ATMC	Japan	AFTN	Implemented	ICD V.2.0
		Nadi ATMC	Fiji	AFTN	Implemented	ICD V.2.0 (04/2010)
		Brisbane ATSC	Australia	AFTN	Implemented	ICD V.1.0 and Block Altitudes
		Tahiti ACC	Tahiti	AFTN	Implemented	ICD V 2.0
	Anchorage ARTCC	United States	AFTN	Implemented	ICD V 2.0	
	Anchorage ARTCC	Fukuoka ATMC	Japan	AFTN	Implemented	ICD V.2.0
	Oakland ARTCC	United States	AFTN	Implemented	ICD V.2.0	

State/Administration	Location of AIDC end system	AIDC Pair		AIDC standard used	Target date of Implementation	Remarks
		Correspondent location	Correspondent State/Administration			
1	2	3		4	5	6
VIET NAM	Ho Chi Minh ACC	Sanya ACC	China	AFTN/AMHS	TBD	
		Phnom Penh ACC	Cambodia	AFTN/AMHS	2015	
		Vientiane ACC	Lao PDR	AFTN/AMHS	2015	
	Ho Chi Minh ACC	Singapore ACC	Singapore	AFTN/AMHS	Operational implemented 24 - Aug. 2014	ICD V.3.0
		Manila	Philippines	TBD	2016	Subject to concurrence from Philippines
		Kuala Lumpur	Malaysia	AFTN	2015	

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