



International Civil Aviation Organization

**THE SEVENTH MEETING OF AERONAUTICAL
TELECOMMUNICATION NETWORK (ATN)
TRANSITION TASK FORCE OF APANPIRG**

Shanghai, China, 18-22 April 2005.



Agenda Item 8: Review status of implementation of AFTN circuits

REVIEW THE ASIA/PAC AFTN PLAN - TABLE CNS-1A

(Presented by the Secretariat)

SUMMARY

This paper presents AFTN Plan for review by the meeting.

1. INTRODUCTION

1.1 The AFTN Plan (Table CNS-1) is provided in a tabular form in Attachment 1 and the Chart CNS-1 is at Attachment 2 to this paper for review by this meeting.

2. DISCUSSION

2.1 The AFTN Pan was reviewed and updated regularly by the ATN Transition Task Force Meetings and the CNS/MET Sub-Group meetings to reflect the changes in status of AFTN circuits implemented based on changes in operational requirements and circuit performance.

2.2 In accordance with Conclusion 15/19 of APANPIRG/15 meeting an amendment proposal APAC 05/11-CNS has been circulated to States on 11 March 2005 for comments. States are expected to provide comments by 9 May 2005. The existing Table CNS-1A contained in Part IV of the ASIA/PAC FASID will be replaced with an updated Table upon completion of approval process of the Amendment Proposal APAC 05/11-CNS.

3. ACTION BY THE MEETING

3.1 The meeting is expected to:

- a) review the AFTN Plan (Table CNS-1A); and
- b) provide comments, as required.

TABLE CNS-1A - AFTN PLAN***Explanation of the Table******Column***

1	The AFS station or facility of individual State, listed alphabetically. Each circuit appears twice in the Table.
2	Category of circuit M - Main trunk circuit connecting Main AFTN Communication Centres. T - Tributary circuit connecting Main AFTN Communication Centre and AFTN stations to relay or retransmit AFTN traffic. S - AFTN circuit which is used to transmit and receive AFTN traffic to and from a Main or Tributary AFTN communication centre directly connected to it and does not relay AFTN traffic except for the purpose of serving national station(s).
3 and 7	Type of circuit provided: LTT landline teletypewriter LTT/a landline teletypewriter, analogue (eg. cable, microwave) LTT/d landline teletypewriter, digital (eg. cable, microwave) LDD/a landline data circuit, analogue (eg. cable, microwave) LDD/d landline data circuit, digital (eg. cable, microwave) SAT/n/a/d satellite link, the number indicates the number of hubs in the circuit: Also use/a for analogue or/d for digital appropriate to the tail circuit.
4 and 8	Circuit signalling speed, current or planned.
5 and 9	Circuit protocols, current or planned. COP-B Character oriented data link control procedure – System Category - B X. 25 X.25 protocol
6 and 10	Data transfer code (syntax), current or planned. ITA-2 International Telegraph Alphabet No. 2 (Baudot code) IA-5 International Alphabet No. 5 (7 - unit code)
11	Target date of implementation
12	Remarks
Note 1:	Circuit is required for alternate routing and for national routing for international traffic.
Note 2:	Requirements exist for speech and data (S + DX) communication.

Table CNS-1A AFTN PLAN

Attachment to ATNTTF/7-WP/15

State/Station	Cat.	CURRENT				PLANNED				Target date of implementation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
AMERICAN SAMOA PAGO PAGO - S/NSTU United States/KSLC	S	LDD/d	2400 bps	X.25	IA-5						
AUSTRALIA BRISBANE - M/YBBB Christchurch/NZCH Honolulu/AGGG Jakarta/WIII Nadi/NFFN Nauru/ANAU Port Moresby/AYPM Port Vila/NVVV Santiago/SCSC	T S S M S S S M	LDD/d LDD/d SAT/d LDD/d SAT/d LTT	2400 bps 2400 bps 9600 bps 2400 bps 9600 bps 300 baud	X.25 X.25 X.25 X.25 X.25 None	IA-5 IA-5 IA-5 IA-5 IA-5 ITA-2	LTT	75 baud	None	IA-5		Note 2 Internet as interim measure Note 1,2 Note 2 Internet as interim measure Note 2 Internet as interim measure Current routing via USA
Singapore/WSSS United States/KSLC Johannesburg	M M M	LDD/d SAT/d SAT/d	2400 bps 2400 bps 64 Kbps	X.25 X.25 X.25	IA-5 IA-5 IA-5						
BANGLADESH DHAKA - S/VGZR Bangkok/VTBB Kolkata/VECC	S S	SAT/d LDD/d	300 baud 64 Kbps	None X.25	IA-5 IA-5						
BHUTAN PARO - S/VQPR Mumbai/VABB	S	SAT/a	300 baud	None	ITA-2						
BRUNEI DARUSSALAM BRUNEI - S/WBSB Singapore/WSSS Kuala Lumpur/WMKK	S S	LDD/d LTT	2400 bps 2400 bps	X.25 None	IA-5 IAT-2	LDD/d	9600 bps	X.25	IA-5	12/05	
CAMBODIA PHNOM PENH - S/VDPP Bangkok/VTBB	S	SAT/d	300 baud	None	IA-5						
CHINA BEIJING - M/ZBBB Guangzhou/ZGGG Karachi/OPKC Kathmandu/VNKT Russian Federation/UHHH Pyongyang/ZKKK Seoul/RKSS	S M S M S S S	LDD/d LTT SAT/d SAT/d SAT/d SAT/d SAT/d	9600 bps 50 baud 300 baud 2400 bps 300 baud 9600 bps	X.25 None None None None X.25	IA-5 ITA-2 IA-5 IA-5 IA-5 IA-5	LDD/a		None	IA-5	12/04	
											(Khabarovsk)

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		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
Tokyo/RJAA	M	LDD/d	9600 bps	X.25	IA-5						Note 2
Ulaan Baatar/ZMUB	S	SAT/d	300 baud	None	IA-5						
Yangon/VYYY	S	SAT/d	300 baud	None	IA-5						
GUANGZHOU-M/ZGGG											Note 1
Beijing/ZBBB	M	LDD/d	9600 bps	X.25	IA-5						
Hanoi/VVNB	S	SAT/d	2400 bps	None	IA-5						
Hong Kong/VHHH	M	LDD/d	2400 bps	None	IA-5						
Macau/VMMC	S	LDD/d	2400 bps	None	IA-5						
Sanya/ZJSY	S	LDD/d	2400 bps	None	IA-5						
SANYA-S/ZJSY											
Guangzhou/ZGGG	S	LDD/d	2400 bps	None	IA-5						
Hong Kong/VHHH	S	LDD/d	2400 bps	None	IA-5						
TAIBEI - S/RCTP											Note 1, 2
Hong Kong/VHHH	S	LDD/d	4800 bps	X.25	IA-5						
Manila/RPLL	S	LDD/d	300 bps	None	ITA-2						
Naha/ROAH	S	LDD/d	4800 bps	X.25	IA-5						ATN link carrying AFTN Traffic Note 1
HONG KONG, CHINA											
HONG KONG-M/VHHH											
Bangkok/VTBB	M	LDD/d	64 Kbps	X.25	IA-5						
Guangzhou/ZGGG	S	LDD/d	2400 bps	None	IA-5						
Ho-Chi-Minh/VVTS	S	SAT/d	2400 bps	None	IA-5						
Macau/VMMC	S	LDD/d	2400 bps	None	IA-5						
Manila/RPLL	S	LDD/d	300 baud	None	ITA-2						
Sanya/ZJSY	S	LDD/d	2400 bps	None	IA-5						
Taipei/RCTP	S	LDD/d	4800 bps	X.25	IA-5						
Tokyo/RJAA	M	LDD/d	9600 bps	X.25	IA-5						
MACAU, CHINA											
MACAU - S/VMMC											
Hong Kong/VHHH	S	LDD/d	2400 bps	None	IA-5						Note 1
Guangzhou/ZGGG	S	LDD/d	2400 bps	None	IA-5						
COOK ISLAND											
RAROTONGA-S/NCRG											
Christchurch/NZCH	S	LDD/d	2400 bps	None	IA-5						
DPR KOREA											
PYONGYANG-S/ZKKK											
Beijing/ZBBB	S	SAT/d	300 baud	None	IA-5						

Table CNS-1A AFTN PLAN

Attachment to ATNTTF/7-WP/15

State/Station	Cat.	CURRENT				PLANNED				Target date of implementation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
FIJI											
NADI - M/NFFN	M	LDD/d	2400 bps	X.25	IA-5						
Brisbane/YBBB	S	LDD/d	2400 bps	X.25	IA-5						Note 2
Christchurch/NZCH	S					LDD/d	2400 bps	None	IA-5	12/05	Note 2
Funafuti/NGFU	S	LDD/d	2400 bps	X.25	IA-5						Dial-up
Noumea/NWWW	S	LDD/d	2400 bps	X.25	IA-5						Note 2
Tarawa/NGTT	S	LDD/d	2400 bps	None	IA-5						
United States/KSLC	M	SAT/d	2400 bps	X.25	IA-5						
Wallis Is./NLWW	S					LDD/a	2400 bps	None	IA-5	when traffic justifies	Note 2
											Current routing via Noumea
FRENCH POLYNESIA (FRANCE)											
PAPEETE/NTAA											
Christchurch/NZCH	S	LDD/d	2400 bps	X.24	IA-5						
INDIA											
MUMBAI - M/VABB											
Bangkok/VTBB	M	LDD/d	2400 bps	X.25	IA-5						
Kolkata/VECC	S	LDD/d	9600 bps	X.25	IA-5						
Colombo/VCCC	M	LDD/d	64 Kbps	X.25	IA-5						
Karachi/OPKC	M	SAT/d	2400 bps	None	IA-5						Note 2
Kathmandu/VNKT	S	SAT/a	50 baud	None	ITA-2						
Muscat Seeb/OOMS	M	SAT/a	300 baud	None	ITA-2						Note 2
Nairobi/HKNC	M	SAT/a	50 baud	None	ITA-2						
Paro/VQPR	S	SAT/a	300 baud	None	ITA-2						Dial up
KOLKATA - S/VECC											
Dhaka/VGZR	S	LDD/d	64 Kbps	X.25	IA-5						
Mumbai/VABB	S	LDD/d	9600 bps	X.25	IA-5						
DELHI - S/MDD											
Tashkent/UTTT	S	SAT/a	50 baud	None	ITA-2						
CHENNAI - S/VOMM											
Kuala Lumpur/WMKK	S	LDD/d	9600 bps	X.25	IA-5						Note 1, 2
INDONESIA											
JAKARTA - S/WIII											
Brisbane/YBBB	S	SAT/d	9600 bps	X.25	IA-5						Note1,2
Singapore/WSSS	S	SAT/d	2400 bps	X.25	IA-5						Note 2

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		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
JAPAN											
TOKYO - M/RJAA	M	LDD/d	9600 bps	X.25	IA-5						
Beijing/ZBBB	M	LDD/d	9600 bps	X.25	IA-5						
Hong Kong/VHHH	M	LTT	2400 bps	None	IA-5						
Russian Federation/UHHH	M	LTT	200 baud	None	IA-5	LDD	2400 bps	None	IA-5		(Khabarovsk)
Russian Federation/UUUU	M	LTT	200 baud	None	IA-5						Coordination with Russian Federation in progress
Naha/ROAH	S	LDD/d	9600 bps	X.25	IA-5						Note 2
Seoul/RKSS	S	LDD/d	9600 bps	X.25	IA-5						
Singapore/WSSS	M	LDD/d	9600 bps	X.25	IA-5						
United States/KSLC	M	LDD/d	9600 bps	X.25	IA-5						
NAHA - S/ROAH	S	LDD/d	4800 bps	X.25	IA-5						
Taipei/RCTP	S	LDD/d	9600 bps	X.25	IA-5						
Tokyo/RJAA	S	LDD/d	9600 bps	X.25	IA-5						
KIRIBATI											
TARAWA - S/NGTT	S	LDD/d	2400 bps	None	IA-5						
Nadi/NFFN	S	LDD/d	2400 bps	None	IA-5						
LAO PDR											
VIENTIANE - S/VLVT	S	SAT/d	300 baud	COP-B	IA-5						Note 2
Bangkok/VTBB	S	SAT/d	9600 bps	None	IA-5						
Hanoi/VVNB	S	SAT/d	9600 bps	None	IA-5						
MALAYSIA											
KUALA LUMPUR-S/WMKK	S	SAT/d	2400 bps	X.25	IA-5	LDD/d	9600 bps	X.25	IA-5	12/05	Note 1, 2
Bangkok/VTBB	S	LTT	2400 bps	None	ITA-2						Note 1, 2
Brunei/WBSB	S	LDD/d	9600 bps	X.25	IA-5						Note 1, 2
Chennai/VOMM	S	SAT/d	1200 bps	X.25	IA-5						Note 2
Singapore/WSSS	S	SAT/d	1200 bps	X.25	IA-5						
MALDIVES											
MALE - S/VRMM	S	LTT	50 baud	None	ITA-2	SAT/d	9600 bps	X.25	IA-5	12/04	Note 2
Colombo/VCCC	S	LTT	50 baud	None	ITA-2						
MARSHALL ISLAND											
MAJURO - S/PKMJ	S	SAT/d	1200 bps	X.25	IA-5						
United States/KSLC	S	SAT/d	1200 bps	X.25	IA-5						

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MICRONESIA											
FEDERATED STATE OF											
CHUUK - S/PTKK	S	SAT/a	1200 bps	X.25	IA-5						
United States/KSLC											
KOSRAE - S/PTSA	S	SAT/a	1200 bps	X.25	IA-5						
United States/KSLC											
PONAPEI - S/PTPN	S	SAT/a	1200 bps	X.25	IA-5						
United States/KSLC											
YAP - S/PTYA	S	SAT/a	1200 bps	X.25	IA-5						
United States/KSLC											
MONGOLIA											
ULAANBAATAR-S/ZMUB	S	SAT/d	300 baud	None	IA-5						
Beijing/ZBBB	S	LTT	50 baud	None	ITA-2						Note 2 (Irkutsk)
Russian Federation/Ulll											
MYANMAR											
YANGON - S/VYYY	S	SAT/d	300 baud	COP-B	IA-5						
Bangkok/VTBB	S	SAT/d	300 baud	None	IA-5						Note 2 Note 1,2
Beijing/ZBBB											
NAURU											
NAURU - S/ANAU	S					SAT/d	2400 bps	X.25	IA-5		Internet as interim measure
Brisbane/YBBB											
NEPAL											
KATHMANDU - S/VNKT	S	SAT/d	300 baud	None	IA-5						
Beijing/ZBBB	S	SAT/a	50 baud	None	ITA-2						
Mumbai/VABB											
NEW CALEDONIA (FRANCE)											
NOUMEA - S/NWWW	S	LDD/d	2400 bps	X.25	IA-5						Note 2
Nadi/NFFN											

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1	2	3	4	5	6	7	8	9	10	11	12
NEW ZEALAND											
CHRISTCHURCH-T/NZCH	S	LDD/d	2400	X.25	IA-5						
Faleolo/NSFA	T	LDD/d	2400 bps	X.25	IA-5						
Brisbane/YBBB	S	LDD/d	2400 bps	X.25	IA-5						
Nadi/NFFN	S	LDD/d	2400 bps	X.25	IA-5						
Niue/NIUE	S	LDD/d	2400 bps	X.25	IA-5						
Papeete/NTAA	S	SAT/d	2400 bps	X.25	IA-5						
Rarotonga/NCRC	S	LDD/d	2400 bps	None	IA-5						
Tongatapu/NFTF	S	LDD/d	2400 bps	None	IA-5						
USA/KSLC	S	LDD/d	9600 bps	X.25	IA-5						
NIUE IS											
NIUE - S/NIUE	S	LDD/d	2400 bps	X.25	IA-5						
Christchurch/NZCH	S	LDD/d	2400 bps	X.25	IA-5						
PAKISTAN											
KARACHI - M/OPKC	M	LTT	50 baud	None	ITA-2	LDD/a	64Kbps	None	IA-5	12/04	
Beijing/ZBBB	M	SAT/d	2400 bps	None	IA-5						
Mumbai/VABB	M	SAT/d	300 baud	None	IA-5						
Kabul/OAKB	S	SAT/a	50 baud	None	ITA-2						
Kuwait/OKBK	M	SAT/a	50 baud	None	ITA-2						
PALAU											
KOROR - S/PTRO	S	SAT/d	1200 bps	X.25	IA-5						
United States/KSLC	S	SAT/d	1200 bps	X.25	IA-5						
PAPUA NEW GUINEA											
PORT MORESBY-S/AYPM	S	SAT/d	9600 bps	X.25	IA-5						
Brisbane/YBBB	S	SAT/d	9600 bps	X.25	IA-5						
PHILIPPINES											
MANILA - S/RPLL	S	LDD/d	300 baud	None	ITA-2						
Hong Kong/VHHH	S	LDD/d	300 baud	None	ITA-2						
Singapore/WSSS	S	LTT	75 baud	None	ITA-2	LDD/d	300 baud	None	IA-5		
Taipei/RCTP	S	LTT	75 baud	None	ITA-2						
REPUBLIC OF KOREA											
SEOUL - S/RKSS	S	SAT/d	9600 bps	X.25	IA-5						
Beijing/ZBBB	S	LDD/d	9600 bps	X.25	IA-5						
Tokyo/RJAA	S	LDD/d	9600 bps	X.25	IA-5						
SAMOA											
FALEOLO - S/NSFA	S	LDD/d	2400 bps	X.25	IA-5						
Chistchurch/NZCH	S	LDD/d	2400 bps	X.25	IA-5						

Attachment to ATNTTF/7-WP/15

ATNTTF/7 - 8

Table CNS-1A AFTN PLAN

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		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
UNITED STATES USA-M/KSLC Brisbane/YBBB Christchurch Chuuk/PTKK Koror/PTRO Kosrae/PTSA Majuro/PKMJ Nadi/NFFN Pago Pago/NSTU Ponapei/PTPN Tokyo/RJAA Yap/PTYA	M S S S S S S M S S M S	SAT/d LDD/d SAT/d SAT/d SAT/d SAT/d SAT/d SAT/d SAT/d LDD/d SAT/d	2400 bps 9600 bps 1200 bps 1200 bps 1200 bps 1200 bps 2400 bps 2400 bps 1200 bps 9600 bps 1200 bps	X.25 X.25 X.25 X.25 X.25 X.25 X.25 X.25 X.25 X.25 X.25	IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5						
VANUATU PORT VILA - S/NVVV Brisbane/YBBB	S	LTT	300 baud	None	ITA-2						Internet as interim measure
VIET NAM HANOI-S/VVNB Vientiane/VLVT Ho-Chi-Minh/VVTS Guangzhou/ZGGG	S S S	SAT/d SAT/d SAT/d	9600 bps 9600 bps 2400 bps	None None None	IA-5 IA-5 IA-5						
HO-CHI-MINH - S/VVTS Bangkok/VTBB Hanoi/VVNB Hong Kong/VHHH Singapore/WSSS	S S S S	SAT/d SAT/d SAT/d SAT/a	2400 bps 9600 bps 2400 bps 300 baud	None None None None	IA-5 IA-5 IA-5 IA-5						
WALLIS IS. (FRANCE) WALLIS - S/NLWW Nadi/NFFN	S					LDD/A	2400 bps	None	IA-5		Current routing via Noumea Circuit will be implemented when traffic justifies.

CHART CNS-1

