



International Civil Aviation Organization

Fourth ATN Transition Task Force Meeting

Mumbai, 8-12 April 2002

Agenda Item 6: Review Table CNS 1A – AFTN plan and Chart CNS-1

REVIEW STATUS OF IMPLEMENTATION OF THE ASIA/PAC AFTN PLAN

(Presented by the Secretariat)

SUMMARY

This paper presents AFTN Plan for review by the meeting.

1. Introduction

1.1 The updated AFTN Plan is provided in a tabular form in Attachment 1 and the Chart CNS-1 in 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 circuit implementation based on operational requirement and performance.

2.2 The main highlights of the AFTN improvements made during the year 2001 and early 2002 were as follows:

2.2.1 Circuits:

- Guangzhou/Sanya 2400 bps AFTN circuits was established and operational on 9 August 2001;
- Hong Kong/Sanya 2400 bps AFTN circuit was established and operational on 9 August 2001;
- Hong Kong/Manila circuit was AFTNupgraded from dual 75 baud to 300 baud on 21 December 2001;
- Singapore/Manila AFTN circuits were upgraded from one of the dual 75-baud circuits to 300 baud on 30 October 2001 with the other 75 baud circuit as backup;
- Singapore/Jakarta circuit was upgraded to 2400 bps on 10 October 2001.

- The requirement for the Apia-Faleolo/USA 2400 bps X.25 AFTN circuit has been implemented.

2.2.2 An Unified Message Switching System (UMSS) was commissioned at the new Nadi ATM Centre, Fiji in August 2001.

3. Action by the Meeting

3.1 The meeting is expected to:

- a) review the AFTN Plan (Table CNS1A-AFTN circuits); and
- b) update the entries, as required.

TABLE CNS 1A - AFTN CIRCUITS*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: HF High frequency radio teletype 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 hops 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.
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 (ICAO 7 - unit code). CBI Code and Byte Independent (ATN compliant).
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.

Sixth Meeting of CNS/MET Sub-Group of APANPIRG
TABLE CNS - 1A AFTN CIRCUITS

Attachment 1 - 2

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	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	SAT/d	2400 bps	X.25	IA-5						
AUSTRALIA BRISBANE - M/YBBB	T	LDD/d	2400 bps	X.25	IA-5						Note 2
Christchurch/NZCH	S	LTT	75 baud	None	IA-5						Note 2
Honiara/AGGG	S	SAT/d	9600 bps	X.25	IA-5						Note 1,2
Jakarta/WII	S	LTT	50 baud	None	ITA-2						
Mauritius/FIMP	M	LDD/d	2400 bps	IA-5	IA-5						Note 2
Nadi/NFFN	S	SAT/d	2400 bps	X.25	IA-5						Note 2
Nauru/ANAU	S	SAT/d	9600 bps	X.25	IA-5						Note 2
Port Moresby/AYPN	S	LTT	300 baud	None	ITA-2						SITA
Port Vila/NVVV	M					LDD/d	2400 bps	X.25	IA-5	06/02	Current routing via USA
Santiago/SCSC	M										
Singapore/WSSS	M	LDD/d	600 baud	COP-B	IA-5	LDD/d	2400 bps	X.25	IA-5	12/01	
United States/KSLC	M	SAT/d	2400 bps	X.25	IA-5						
BANGLADESH DHAKA - S/VGZR	S	SAT/d	300 baud	None	IA-5						
Bangkok/VTBB	S	HF RTT	50 baud	None	ITA-2	LTT	50 baud	None	ITA-2	12/02	Note 1,2
Calcutta/VECC											
BHUTAN PARO - S/VQPR	S					SAT/a	50 baud	None	ITA-2	12/02	Dial-up
Mumbai/VABB											
BRUNEI DARUSSALAM BRUNEI - S/WBSB	S	LTT	75 baud	None	ITA-2	LDD	2400 bps	X.25	IA-5	07/01	
Singapore/WSSS	S	LTT	75 baud	None	ITA-2	LDD/d	300 baud	COP-B	IA-5	12/01	Note 1,2
Kota Kinabalu/WBKK											
CAMBODIA PHNOM PENH - S/VDPP	S	SAT/d	300 baud	None	ITA-2						Note 2
Bangkok/VTBB											
CHINA BEIJING - M/ZBBB	M	LDD/d	9600 bps	X.25	IA-5						
Guangzhou/ZGGG	M	LTT	50 baud	None	ITA-2	LDD/a	300 baud	None	IA-5	12/01	
Karachi/OPKC	S	SAT/d	300 baud	None	IA-5						
Kathmandu/VNKT	M	SAT/d	2400 bps	None	IA-5						via Khabarovsk
Russian Fedration/UHHH	S	SAT/d	300 baud	None	IA-5						
Pyongyang/ZKKK											
Seoul/RKSS	S	SAT/d	9600 bps	X.25	IA-5						AMSS Connection 12/01
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	12/01	

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TABLE CNS - 1A AFTN CIRCUITS

Attachment 1 - 3

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
GUANGZHOU-M/ZGGG											
Beijing/ZBBB	M	LDD/d	9600 bps	X.25	IA-5						Note 1
Hong Kong/VHHH	M	LDD/d	2400 bps	None	IA-5						
Macau/VMMC	S	SAT/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											
Hong Kong/VHHH	S	LDD/d	4800 bps	X.25	IA-5	LDD/d	300 baud	None	IA-5	07/01	Note 1, 2
Manila/RPLL	S	LTT	75 baud	None	ITA-2						
Naha/ROAH	S	LDD/d	4800 bps	X.25	IA-5						
HONG KONG, CHINA											
HONG KONG-M/VHHH											
Bangkok/VTBB	M	LDD/d	2400 bps	X.25	IA-5						Note 1
Guangzhou/ZGGG	M	LDD/d	2400 bps	None	IA-5						
Ho-Chi-Minh/VVTS	S	SAT/a	300 baud	None	ITA-2						Note 1, 2
Macau/VMMC	S	LDD/d	2400 bps	None	IA-5						
Manila/RPLL	S	LDD/d	300 baud	None	ITA-2				IA-5		Note 2
Sanya- ZJSK	S	LDD/d	2400 bps	None	IA-5						
Taipei/RCTP	S	LDD/d	4800 bps	X.25	IA-5						Note 1
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						
Guangzhou/ZGGG	S	SAT/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						
FIJI											
NADI - M/NFFN											
Apia/NSFA	S	LTT	50 baud	None	ITA-2						Note 2
Brisbane/YBBB	M	LDD/d	2400 bps	X.25	IA-5						
Christchurch/NZCH	S	LDD/d	2400 bps	X.25	IA-5						

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TABLE CNS - 1A AFTN CIRCUITS

Attachment 1 - 4

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
Funafuti/NGFU	S	LDD/d	2400 bps	None	IA-5						dial-up
Noumea/NWWW	S	LDD/d	2400 bps	X.25	IA-5						Note 2
Tarawa/NGTT	S	LTT	2400 bps	None	IA-5						
Tongatapu/NFTF	S	LTT	50 baud	None	ITA-2						
United States/KSLC	M	SAT/d	2400 bps	X.25	IA-5						Note 2
Wallis Is./NLWW	S					LTT	50 baud	None	ITA-2	when traffic justifies	Current routing via Noumea
FRENCH POLYNESIA (FRANCE)											
PAPEETE/NTAA											
Christchurch/NZCH	S	LDD/d	300 baud	None	ITA-2	SAT/d	2400 bps	X.25	IA-5	12/01	
INDIA											
MUMBAI - M/VABE											
Bangkok/VTBB	M	SAT/a	2400 bps	X.25	IA-5						
Kolkata/VECC	S	LTT	2x50	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	09/01	
Colombo/VCCC	M	SAT/a	50 baud	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	12/01	
Karachi/OPKC	M	SAT/a	200 baud	None	ITA-2						Note 2
Kathmandu/VNKT	S	SAT/a	50 baud	None	ITA-2						
Muscat Seeb/OOMS	M	SAT/a	300 baud	None	ITA-2	SAT	2400 bps	X.25	IA-5	09/01	Note 2
Nairobi/HKNC	M	SAT/a	50 baud	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	09/01	
Paro/VQPR	S					SAT/a	50 baud	None	ITA-2	12/02	Dial-up
KOLKATA - S/VECC											
Dhaka/VGZR	S	RTT	50 baud	None	ITA-2	LTT	50 baud	None	ITA-2	12/02	Note 1, 2
Mumbai/VABB	S	LTT	2x50	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	09/01	
DELHI - S/VIDD											
Tashkent/UTTT	S	SAT/a	50 baud	None	ITA-2						
CHENNAI - S/VOMM											
Kuala Lumpur/WMKK	S	LTT	50 baud	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	12/01	Note 1, 2
INDONESIA											
JAKARTA - S/WII											
Brisbane/YBBB	S	SAT/d	9600 bps	X.25	IA-5						Note1,2
Singapore/WSSS	S	SAT/d	300 baud	None	ITA-2	SAT/d	2400 bps	X.25	IA-5	07/01	Note 2
Ujung Pandang/WAAA	S	SAT/a	2x50 baud	None	ITA-2	SAT/d	2400 bps	X.25	IA-5	2002	Note1, 2
BATAM - S/WIKB											
Singapore/WSSS	S	LTT	50 baud	None	ITA-2						
JAPAN											
TOKYO - M/RJAA											
Beijing/ZBBB	M	LDD/d	9600 bps	X.25	IA-5						
Hong Kong/VHHH	M	LDD/a	9600 bps	X.25	IA-5						
Russian Federation/UHHH	M	LTT	2400 bps	None	IA-5						

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TABLE CNS - 1A AFTN CIRCUITS

Attachment 1 - 5

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
Russian Federation/UUUU Naha/ROAH	M S	LTT LDD/d	200 baud 9600 bps	None X.25	IA-5 IA-5	LDD/d				12/03	(Moscow)
Seoul/RKSS	S	LDD/d	9600 bps	X.25	IA-5						
Singapore/WSSS	M	LDD/a	1200 bps	COP-B	IA-5	LDD/d	9600 bps	X.25	IA-5	09/01	Note 2
United States/KSLC	M	LDD/d	9600 bps	X.25	IA-5						
NAHA - S/ROAH											
Taipei/RCTP	S	LDD/d	4800 bps	X.25	IA-5						
Tokyo/RJAA	S	LDD/d	9600 bps	X.25	IA-5						
KIRIBATI											
TARAWA - S/NGTT											
Nadi/NFFN	S	LTT	2400 bps	None	IA-5						
LAO PDR											
VIENTIANE - S/VLVT											
Bangkok/VTBB	S	SAT/d	300 baud	COP-B	IA-5						
Ho-Chi-Minh/VVTS	S	SAT/d	9600 bps	None	IA-5						Note 2 Note 1 via Hanoi
MALAYSIA											
KUALA LUMPUR-S/WMKK											
Bangkok/VTBB	S	SAT/d	2400 bps	X.25	IA-5						
Chennai/VOMM	S	LTT	50 baud	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	12/01	Note 1, 2 Note 1, 2 Note 2
Singapore/WSSS	S	SAT/d	1200 bps	X.25	IA-5						
KOTA KINABALU-S/WBKK											
Brunei/WBSB	S	LTT	75 baud	None	ITA-2	LDD/d	300 baud	COP-B	IA-5	12/01	Note 1, 2
MALDIVES											
MALE - S/VRMM											
Colombo/VCCC	S	LTT	50 baud	None	ITA-2	SAT/d	2400 bps	X.25	IA-5	06/02	Note 2
MARSHAL ISLAND											
MAJURO - S/PKMJ											
United States/KSLC	S	SAT/d	1200 bps	X.25	IA-5						
MICRONESIA											
FEDERATED											
STATE OF											
CHUUK - S/PTKK											
United States/KSLC	S	SAT/a	1200 bps	X.25	IA-5						
KOSRAE - S/PTSA											
United States/KSLC	S	SAT/a	1200 bps	X.25	IA-5						

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TABLE CNS - 1A AFTN CIRCUITS

Attachment 1 - 6

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
PONAPEI - S/PTPN United States/KSLC	S	SAT/a	1200 bps	X.25	IA-5						
YAP - S/PTYA United States/KSLC	S	SAT/a	1200 bps	X.25	IA-5						
MONGOLIA ULAANBAATAR-S/ZMUB Beijing/ZBBB Russian Federation/UII	S M	SAT/d LTT	300 baud 50 baud	None None	IA-5 ITA-2						Note 2 (Irkutsk)
MYANMAR YANGON - S/VYYY Bangkok/VTBB Beijing/ZBBB	S S	SAT/d	300 baud	COP-B	IA-5	SAT/d	300 baud	None	IA-5	12/01	Note 2 Note 1,2
NAURU NAURU - S/ANAU Brisbane/YBBB	S	SAT/d	2400 bps	X.25	IA-5						
NEPAL KATHMANDU - S/VNKT Beijing/ZBBB Mumbai/VABB	S S	SAT/d SAT/a	300 baud 50 baud	None None	IA-5 ITA-2						
NEW CALEDONIA (FRANCE) NOUMEA - S/NWWW Nadi/NFFN	S	LDD/d	2400 bps	X.25	IA-5						Note 2
NEW ZEALAND CHRISTCHURCH-T/NZCH Brisbane/YBBB Nadi/NFFN Niue/NIUE Papeete/NTAA Rarotonga/NCRG	T S S S S	LDD/d LDD/d LDD/d LDD/d	2400 bps 2400 bps 300 baud 2400 bps	X.25 X.25 None None	IA-5 IA-5 ITA-2 IA-5	SAT/d	2400 bps	X.25	IA-5	12/01	Note 2 Note 1, 2 Currently by FAX
NIUE IS NIUE - S/NIUE Christchurch/NZCH	S										Currently by FAX
PAKISTAN KARACHI - M/OPKC Beijing/ZBBB Mumbai/VABB	M M	LTT SAT/a	50 baud 200 baud	None None	ITA-2 ITA-2	LDD/a	300 baud	None	IA-5	12/01	Note 2

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TABLE CNS - 1A AFTN CIRCUITS

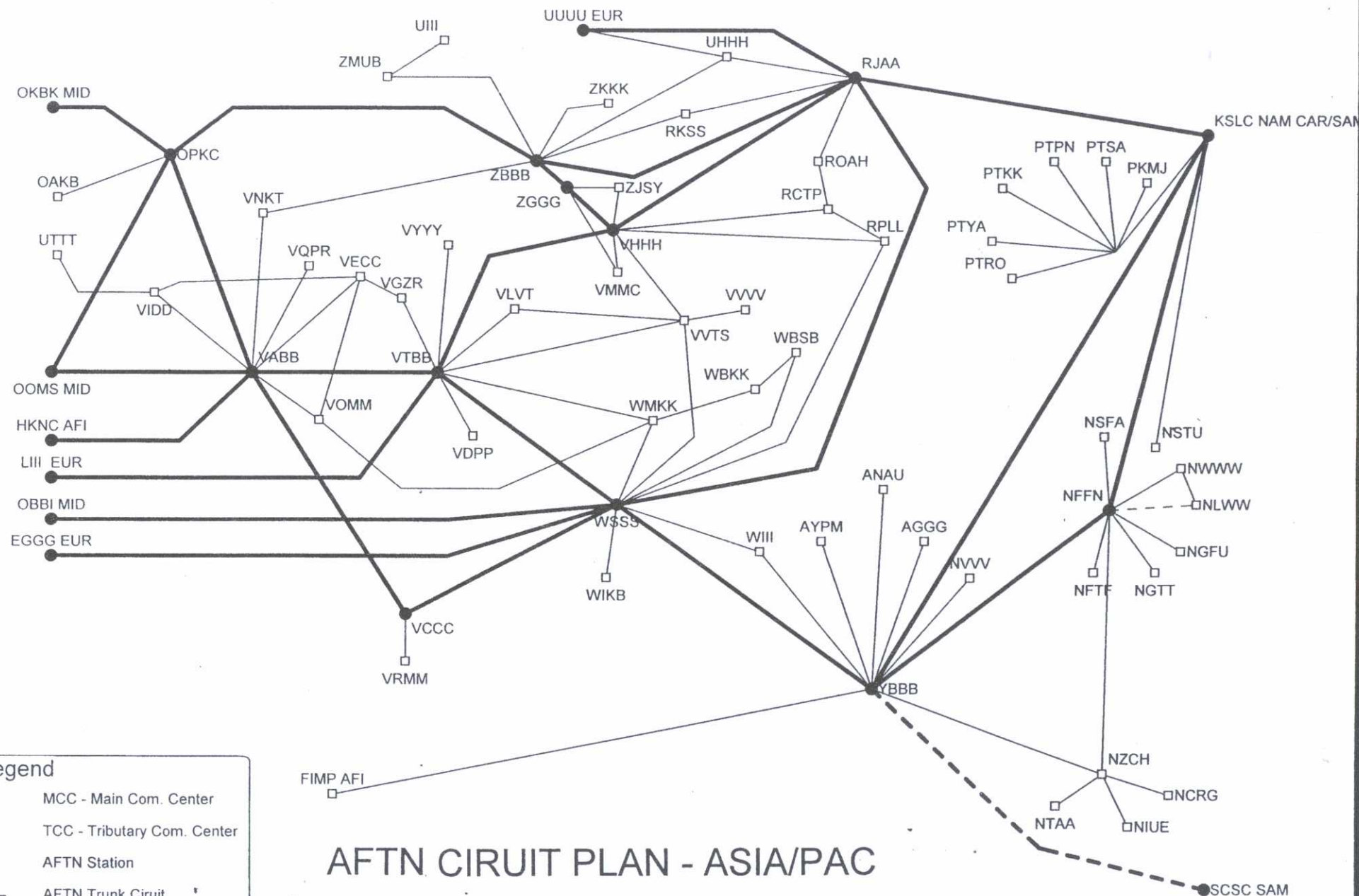
Attachment 1 - 7

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
Kabul/OAKB Kuwait/OKBK	S M	SAT/d SAT/a	300 baud 50 baud	None None	IA-5 ITA-2						Note 2
PALAU KOROR - S/PTR0 United States/KSLC	S	SAT/d	1200 bps	X.25	IA-5						
PAPUA NEW GUINEA PORT MORESBY-S/AYPM Brisbane/YBBB	S	SAT/d	9600 bps	X.25	IA-5						Note 2
PHILIPPINES MANILA - S/RPLL Hong Kong/VHHH Singapore/WSSS Taibei/RCTP	S S S	LDD/d LDD/d LTT	300 baud 300 baud 75 baud	None None None	ITA-2 ITA-2 ITA-2	LDD/d	300 baud	None	IA-5 IA-5 IA-5	12/01	Note 2 Note 1, 2 Note 1, 2
REPUBLIC OF KOREA SEOUL - S/RKSS Beijing/ZBBB Tokyo/RJAA	S S	SAT/d LDD/d	9600 bps 9600 bps	X.25 X.25	IA-5 IA-5						AMSS Connection 12/01 Note 2
SAMOA APIA - S/NSFA Nadi/NFFN	S	LTT	50 baud	None	ITA-2						Note 2
SINGAPORE SINGAPORE-M/WSSS Bahrain/OBBI Bangkok/VTBB Batam/WIKB Brisbane/YBBB Brunei/WBSB Colombo/VCCC Ho-Chi-Minh/VVTS Jakarta/WII Kuala Lumpur/WMKK London/EGGG Manila/RPLL Tokyo/RJAA	M M S M S M S S S S M S M	LTT LDD/d LTT LDD/d LTT LTT SAT/a LTT SAT/d LDD/d LDD/d LDD/a	200 baud 1200 bps 50 baud 600 baud 75 baud 75 baud 300 baud 2x50 baud 1200 bps 1200 bps 300 baud 1200 bps	None X.25 None COP-B None None None None X.25 X.25 None COP-B	ITA-2 IA-5 ITA-2 IA-5 ITA-2 IA-5 ITA-2 IA-5 IA-5 ITA-2 IA-5	SAT/a LDD/d LDD/d LDD	2400 bps 2400 bps 2400 bps 2400 bps	X.25 X.25 X.25	IA-5 IA-5 IA-5 IA-5	12/01 12/01 07/01 12/01	Note 2 Note 2
SOLOMON IS. HONIARA - S/AGGC Brisbane/YBBB	S	LTT	75 baud	None	IA-5						Note 2 Note 1,2
SRI LANKA COLOMBO - M/VCCC Mumbai/VABB	M	SAT/a	50 baud	None	ITA-2	LDD/d	2400 bps	X.25	IA-5	12/01	

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TABLE CNS - 1A AFTN CIRCUITS

Attachment 1 - 8

State/Station	Cat.	CURRENT				PLANNED				Target date of implemen-tation	Remarks
		Type	Signalling Speed	Protocol	Code	Type	Signalling Speed	Protocol	Code		
1	2	3	4	5	6	7	8	9	10	11	12
Male/VRMM	S	LTT	50 baud	None	ITA-2	SAT/d	2400 bps	X.25	IA-5	06/02	Note2
Singapore/WSSS	M	LTT	75 baud	None	ITA-2	LDD	2400 bps	X.25	IA-5	12/01	
THAILAND											
BANGKOK - M/VTBB											
Mumbai/VABB	M	SAT/a	2400 bps	X.25	IA-5						
Dhaka/VGZR	S	SAT/d	300 baud	None	IA-5						
Ho-Chi-Minh/VVTS	S	SAT/d	2400 bps	None	IA-5						
Hong Kong/VHHH	M	LDD/d	2400 bps	X.25	IA-5						
Kuala Lumpur/WMKK	S	SAT/d	2400 bps	X.25	IA-5						Note 1, 2
Phnom Penh/VDPP	S	SAT/d	300 baud	None	ITA-2						Note 2
Rome/LII	M	SAT/d	2400 bps	X.25	IA-5						
Singapore/WSSS	M	LDD/d	1200 bps	X.25	IA-5						Note 2
Vientiane/VLVT	S	SAT/d	300 baud	COP-B	IA-5						
Yangon/VYYY	S	SAT/d	300 baud	COP-B	IA-5						Note 2
TONGA											
TONGATAPU - S/NFTF											
Nadi/NFFN	S	LTT	50 baud	None	ITA-2						
TUVALU											
FUNAFUTI - S/NGFU											
Nadi/NFFN	S	LTT	50 baud	None	ITA-2						Dial-up Note 2
UNITED STATES											
USA-M/KSLC											
Brisbane/YBBB	M	SAT/d	2400 bps	X.25	IA-5						
Chuuk/PTKK	S	SAT/d	1200 bps	X.25	IA-5						
Koror/PTRO	S	SAT/d	1200 bps	X.25	IA-5						
Kosrae/PTSA	S	SAT/d	1200 bps	X.25	IA-5						
Majuro/PKMJ	S	SAT/d	1200 bps	X.25	IA-5						
Nadi/NFFN	M	SAT/d	2400 bps	X.25	IA-5						
Pago Pago/NSTU	S	SAT/d	2400 bps	X.25	IA-5						
Ponapei/PTPN	S	SAT/a	1200 bps	X.25	IA-5						
Tokyo/RJAA	M	LDD/d	9600 bps	X.25	IA-5						
Yap/PTYA	S	SAT/d	1200 bps	X.25	IA-5						
VANUATU											
PORT VILA - S/NVVV											
Brisbane/YBBB	S	LTT	300 baud	None	ITA-2						SITA
VIET NAM											
HO-CHI-MINH - S/VVTS											
Bangkok/VTBB	S	SAT/d	2400 bps	None	IA-5						
Hong Kong/VHHH	S	SAT/a	300 baud	None	ITA-2						Note 1, 2
Singapore/WSSS	S	SAT/a	300 baud	None	IA-5						
Vientiane/VLVT	S	SAT/d	9600 bps	None	IA-5						Note 1 via Hanoi
WALLIS IS. (FRANCE)											
WALLIS - S/NLWW											
Nadi/NFFN	S					LTT	50 baud	None	ITA-2	when traffic justifies	Current routing via Noumea



01/12/2001