



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 6: Update Tables and Charts for the ground-to ground part of CNS FASID

REVIEW THE ASIA/PAC ATN ROUTER PLAN - TABLE CNS-1B

(Presented by the Secretariat)

SUMMARY

This paper presents ATN Router Plan for review by the meeting.

1. INTRODUCTION

1.1 The ATN Router Plan (Table CNS-1B) is provided in a tabular form in Attachment 1 for review by this meeting.

2. DISCUSSION

2.1 The ATN Transition Task Force at its sixth meeting held in 2004 reviewed the existing Table CNS-1B contained in ASIA/PAC FASID, Part IV CNS. The Table CNS 1B specifies the requirements to increase capacity of the existing AFTN circuits and to introduce BBIS and BIS routers to support ATN end system applications to be introduced gradually.

The Task Force updated the Table reflecting changes in requirements and the target dates of implementation.

2.2

2.1 In accordance with Conclusion 15/18 of APANPIRG/15 meeting an amendment proposal APAC 05/14-CNS has been circulated to States on 16 March 2005 for comments. States are expected to provide comments by 12 May 2005. The existing Table CNS-1B 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 05/14-CNS.

3. ACTION BY THE MEETING

3.1 The meeting is expected to:

- a) review the ATN Router Plan (Table CNS-1B); and
- b) provide comments, as required.

TABLE CNS 1B – ATN ROUTER PLAN**Explanation of the Table****Column**

1	Administration – the name of the Administration, State or Organization responsible for management of the router
2	Location of Router
3	Type of Router: BBIS - Backbone Boundary Intermediate System BIS - Boundary Intermediate System
4	Type of Interconnection: Inter – Regional Intra – Regional Sub – Regional
5	Interconnection, Connected to router of: name of the location of the correspondent router
6	Link Speed – Speed requirements of the interconnecting link
7	Link Protocol – Protocol requirements for the interconnecting link
8	Target Date of Implementation – date of implementation of the router TBD- To be determined
9	Remarks

TABLE CNS-1B – ATN ROUTER PLAN

Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
American Samoa	Pago Pago			United States	9600bps	X.25		Intra-domain
Australia	Brisbane			Timor Leste	9600 bps	X.25		Intra-domain
		BBIS	Sub-Regional	Fiji	19200 bps	X.25	2006	
		BIS	Sub-Regional	Indonesia	9600bps	X.25	2006	
		BBIS	Intra-Regional	Japan	64000bps	X.25	2007	
				Nauru	9600bps	X.25		Intra-domain
		BIS	Sub-Regional	New Zealand	9600bps	X.25	2006	
				Papua New Guinea	9600bps	X.25		Intra-domain
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2006	
				Solomon Islands	9600bps	X.25		Intra-domain
		BBIS	Inter-Regional	United States	64000bps	X.25	2006	
				Vanuatu	9600bps	X.25		Intra-domain
Bangladesh	Dhaka	BIS	Sub-Regional	India	9600bps	X.25	2005	
		BIS	Sub-Regional	Thailand	9600bps	X.25	2005	
Bhutan	Paro	BIS	Sub-Regional	India	9600bps	X.25	2008	

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
Brunei Darussalam	Brunei	BIS	Sub-Regional	Malaysia	9600bps	X.25	2006	
		BIS	Sub-Regional	Singapore	9600bps	X.25	2006	
Cambodia	Phnom Penh	BIS	Sub-Regional	Thailand	9600bps	X.25	2005	
China	Beijing	BIS	Sub-Regional	DPR Korea	9600bps	X.25	2005	
		BBIS	Intra-Regional	Hong Kong, China	64000bps	X.25	2005	
		BBIS	Intra-Regional	India	64000bps	X.25	2005	
		BBIS	Intra-Regional	Japan	64000bps	X.25	2005	
		BBIS	Inter-Regional	Kuwait	64000bps	X.25	2006	
		BIS	Sub-Regional	Macau, China	9600bps	X.25	2005	
		BIS	Sub-Regional	Mongolia	9600bps	X.25	2005	
		BIS	Sub-Regional	Myanmar	9600bps	X.25	2005	
		BIS	Sub-Regional	Nepal	9600bps	X.25	2005	
		BIS	Sub-Regional	Pakistan	9600bps	X.25	2006	
		BIS	Sub-Regional	Republic of Korea	9600bps	X.25	2005	
		BBIS	Inter-Regional	Russian Federation	19200bps	X.25	2005	
		BIS	Sub-Regional	Taipei	9600bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2005	
	Taipei	BIS	Sub-Regional	Hong Kong, China	9600bps	X.25	2005	
		BIS	Sub-Regional	Japan	9600bps	X.25	2007	

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
Hong Kong, China	Hong Kong	BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BIS	Sub-Regional	Macau, China	9600bps	X.25	2005	
		BBIS	Intra-Regional	Japan	64000bps	X.25	2005	
		BIS	Sub-Regional	Philippines	9600bps	X.25	2005	
		BIS	Sub-Regional	Taipei	9600bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2004	
		BIS	Sub-Regional	Viet Nam	9600bps	X.25	2005	
Macau, China	Macau	BIS	Sub-Regional	China	9600bps	X.25	2005	
		BIS	Sub-Regional	Hong Kong, China	9600bps	X.25	2005	
Cook Islands	Rarotonga			New Zealand	9600bps	X.25		Intra-domain
DPR Korea	Pyongyang	BIS	Sub-Regional	China	9600bps	X.25	2005	
Fiji	Nadi	BBIS	Intra-Regional	Australia	19200 bps	X.25	2006	
		BIS	Sub-Regional	Kiribati	9600bps	X.25	2006	
		BIS	Sub-Regional	New Caledonia	9600bps	X.25	TBD	
		BIS	Sub-Regional	Tuvalu	9600bps	X.25	2006	
		BBIS	Inter-Regional	United States	19200 bps	X.25	2005	
		BIS	Sub-Regional	Wallis Islands	9600bps	X.25	TBD	
		BIS	Sub-Regional	New Zealand	9600 bps	X.25	2006	

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
French Polynesia	Papeete			New Zealand	9600bps	X.25	TBD	Intra-domain
India	Mumbai	BIS	Sub-Regional	Bangladesh	9600bps	X.25	2005	
		BIS	Sub-Regional	Bhutan	9600bps	X.25	2008	
		BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BBIS	Inter-Regional	Kenya	19200bps	X.25	2005	
		BIS	Sub-Regional	Nepal	9600bps	X.25	2005	
		BBIS	Inter-Regional	Oman	19200bps	X.25	2005	
		BIS	Sub-Regional	Pakistan	9600bps	X.25	2006	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2005	
		BIS	Sub-Regional	Sri Lanka	9600bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2005	
Indonesia	Jakarta	BIS	Sub-Regional	Australia	9600bps	X.25	2006	
		BIS	Sub-Regional	Singapore	9600bps	X.25	2005	
Japan	Tokyo	BBIS	Intra-Regional	Australia	64000bps	X.25	2006	
		BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BBIS	Intra-Regional	Hong Kong, China	64000bps	X.25	2005	
		BBIS	Inter-Regional	Europe	64000bps	X.25	2005	
		BIS	Sub-Regional	Republic of Korea	9600bps	X.25	2005	

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
Japan (Cont'd)	Tokyo	BBIS	Inter-Regional	Russia Federation	64000bps	X.25	2005	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2005	
		BIS	Sub-Regional	Taibei	9600bps	X.25	2007	
		BBIS	Inter-Regional	United States	64000bps	X.25	2004	
Kiribati	Tarawa	BIS	Sub-Regional	Fiji	9600bps	X.25	2005	
Lao PDR	Vientiane	BIS	Sub-Regional	Thailand	9600bps	X.25	2005	
		BIS	Sub-Regional	Viet Nam	9600bps	X.25	2005	
Malaysia	Kuala Lumpur	BIS	Sub-Regional	Brunei	9600bps	X.25	2006	
		BIS	Sub-Regional	Singapore	9600bps	X.25	2005	
		BIS	Sub-Regional	Thailand	9600bps	X.25	2005	
Maldives	Male	BIS	Sub-Regional	Sri Lanka	9600bps	X.25	2005	
Marshall Islands	Majuro			United States	9600bps	X.25		Intra-domain
Micronesia Federated State of	Chuuk			United States	9600bps	X.25		Intra-domain
	Kosrae			United States	9600bps	X.25		Intra-domain
	Ponapei			United States	9600bps	X.25		Intra-domain
	Yap			United States	9600bps	X.25		Intra-domain
Mongolia	Ulaanbaatar	BIS	Sub-Regional	China	9600bps	X.25	2005	

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
Myanmar	Yangon	BIS	Sub-Regional	China	9600bps	X.25	2005	
		BIS	Sub-Regional	Thailand	9600bps	X.25	2005	
Nauru	Nauru			Australia	9600bps	X.25		Intra-domain
Nepal	Kathmandu	BIS	Sub-Regional	China	9600bps	X.25	2005	
		BIS	Sub-Regional	India	9600bps	X.25	2005	
New Caledonia	Noumea	BIS	Sub-Regional	Fiji	9600bps	X.25	TBD	
New Zealand	Christchurch	BIS	Sub-Regional	Australia	9600bps	X.25	2006	
				Cook Is	9600bps	X.25		Intra-domain
		BIS	Sub-Regional	Fiji	9600bps	X.25	2006	
				French Polynesia	9600bps	X.25	TBD	Intra-domain
				Niue	9600bps	X.25		Intra-domain
				Samoa	9600bps	X.25		Intra-domain
				Tonga	9600bps	X.25		Intra-domain
Niue Islands	Niue			New Zealand	9600bps	X.25		Intra-domain
Pakistan	Karachi	BIS	Sub-Regional	China	9600bps	X.25	2006	
		BIS	Sub-Regional	India	9600bps	X.25	2006	
Palau	Koror			United States	9600bps	X.25		Intra-domain
Papua New Guinea	Port Moresby			Australia	9600bps	X.25		Intra-domain

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
Philippines	Manila	BIS	Sub-Regional	Hong Kong, China	9600bps	X.25	2005	
		BIS	Sub-Regional	Singapore	9600bps	X.25	2005	
Republic of Korea	Seoul	BIS	Sub-Regional	China	9600bps	X.25	2005	
		BIS	Sub-Regional	Japan	9600bps	X.25	2005	
Samoa	Faleolo			New Zealand	9600 bps	X.25		Intra-domain
Singapore	Singapore	BBIS	Intra-Regional	Australia	64000bps	X.25	2006	
		BBIS	Inter-Regional	Bahrain	64000 bps	X.25	2005	
		BIS	Sub-Regional	Brunei	9600bps	X.25	2006	
		BBIS	Intra-Regional	India	64000bps	X.25	2005	
		BIS	Sub-Regional	Indonesia	9600bps	X.25	2005	
		BBIS	Intra-Regional	Japan	64000bps	X.25	2005	
		BIS	Sub-Regional	Malaysia	9600bps	X.25	2005	
		BIS	Sub-Regional	Philippines	9600bps	X.25	2005	
		BIS	Sub-Regional	Sri Lanka	9600bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2005	
		BBIS	Inter-Regional	United Kingdom	64000 bps	X.25	2005	
		BIS	Sub-Regional	Viet Nam	9600bps	X.25	2005	
Solomon Islands	Honiara			Australia	9600bps	X.25		Intra-Domain

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
Sri Lanka	Colombo	BIS	Sub-Regional	India	64000 bps	X.25	2005	
		BIS	Sub-Regional	Maldives	9600bps	X.25	2005	
		BIS	Sub-Regional	Singapore	9600bps	X.25	2005	
Thailand	Bangkok	BIS	Sub-Regional	Bangladesh	9600bps	X.25	2005	
		BIS	Sub-Regional	Cambodia	9600bps	X.25	2005	
		BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BBIS	Intra-Regional	Hong Kong, China	64000bps	X.25	2004	
		BBIS	Intra-Regional	India	64000bps	X.25	2005	
		BBIS	Inter-Regional	Italy	19200bps	X.25	2005	
		BIS	Sub-Regional	Lao PDR	9600bps	X.25	2005	
		BIS	Sub-Regional	Malaysia	9600bps	X.25	2005	
		BIS	Sub-Regional	Myanmar	9600bps	X.25	2005	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2005	
		BIS	Sub-Regional	Viet Nam	9600bps	X.25	2005	
Timor Leste	Dili			Australia	9600bps	X.25		Intra-domain
Tonga	Tongatapu			New Zealand	9600bps	X.25		Intra-domain
Tuvalu	Funafuti	BIS	Sub-Regional	Fiji	9600bps	X.25	2005	
United States	Salt Lake City			American Samoa	9600bps	X.25		Intra-domain

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Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
United States (Cont'd)	Salt Lake City	BBIS	Inter-Regional	Australia	64000 bps	X.25	2005	
		BBIS	Inter-Regional	Fiji	19200 bps	X.25	2005	
		BBIS	Inter-Regional	Japan	64000bps	X.25	2004	
				Marshall Islands	9600bps	X.25		Intra-domain
				Micronesia, Federated State of	9600bps	X.25		Intra-domain
				Palau	9600bps	X.25		Intra-domain
Vanuatu	Port Vila			Australia	9600bps	X.25		Intra-domain
Viet Nam	Hanoi	BIS	Sub-Regional	Hong Kong, China	9600bps	X.25	2005	
		BIS	Sub-Regional	Lao PDR	9600bps	X.25	2005	
		BIS	Sub-Regional	Singapore	9600bps	X.25	2005	
		BIS	Sub-Regional	Thailand	9600bps	X.25	2005	
Wallis Islands	Wallis	BIS	Sub-Regional	Fiji	9600bps	X.25	TBD	

Chart CNS 2 - ATN Router Plan
(ASIA/PAC ATN Router Interconnection)

