



International Civil Aviation Organization

Fourth ATN Transition Task Force Meeting

Mumbai, India, 8-12 April 2002

**Agenda Item 7: Review Table and Chart for the ground-to-ground part of the
CNS FASID - ATN Routers.**

REVIEW OF TABLE CNS-1B AND CHART CNS-2 OF ASIA/PAC FASID

(Presented by the Secretariat)

SUMMARY

This paper presents Table CNS 1B and Chart CNS-2 to be incorporated in the ASIA/PAC FASID.

1. Introduction

1.1 The ASIA/PAC Regional ATN Transition Plan was adopted by APANPIRG/12 in its Conclusion 12/14 in August 2001.

1.2 The APANPIRG/12 report including the Conclusion 12/14 - ATN transition plan was reviewed by the Air Navigation Commission (ANC) (159-4) on 21 February 2002 and by the ICAO Council on 1 March 2002. The ANC noted the Conclusion and requested the Secretary General to monitor related developments in other regions.

2. Discussion

2.1 An amendment proposal to include the ASIA/PAC ATN Router Plan in the ASIA/PAC FASID will be processed in accordance with established procedure. The ATN Router Plan Table CNS 1B is provided in the Attachment 1 to this paper for review by the meeting in order to incorporate update information and editorial corrections in the amendment proposal.

2.2. The Fig 7-1 ASIA/PAC ATN Router Interconnection, which is provided in the Attachment 2 to this paper, is considered appropriate as Chart CNS 2 to be incorporated into the PART IV of ASIA/PAC FASID.

3. Action by the meeting

3.1 The meeting is expected to review the attachments 1 and 2 and make appropriate recommendations, 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 Inter – Domain
5	Interconnection, Connection to router of: name of the city or 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 services
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	BIS	Inter-Domain	United States	9600bps	X.25	2005	
Australia	Brisbane	BBIS	Intra-Regional	Japan	64000bps	X.25	2003	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2003	
		BBIS	Inter-Regional	South Africa	19200bps	X.25	2003	
		BBIS	Inter-Regional	United States	64000bps	X.25	2003	
		BIS	Inter-Domain	Fiji	9600bps	X.25	2005	May need to be upgraded to BBIS
		BIS	Inter-Domain	Indonesia	9600bps	X.25	2005	
		BIS	Inter-Domain	Nauru	9600bps	X.25	2005	
		BIS	Inter-Domain	New Zealand	9600bps	X.25	2005	
		BIS	Inter-Domain	Papua New Guinea	9600bps	X.25	2005	
		BIS	Inter-Domain	Solomon Islands	9600bps	X.25	2005	
		BIS	Inter-Domain	Vanuatu	9600bps	X.25	2005	
Bangladesh	Dhaka	BIS	Inter-Domain	India	9600bps	X.25	2005	
		BIS	Inter-Domain	Thailand	9600bps	X.25	2005	
Bhutan	Paro	BIS	Inter-Domain	India	9600bps	X.25	2005	
Brunei Darussalam	Brunei	BIS	Inter-Domain	Singapore	9600bps	X.25	2005	
Cambodia	Phnom Penh	BIS	Inter-Domain	Thailand	9600bps	X.25	2002	

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
China	Beijing	BBIS	Intra-Regional	Japan	64000bps	X.25	2005	
		BBIS	Intra-Regional	Hong Kong, China	64000bps	X.25	2005	
		BBIS	Intra-Regional	India	64000bps	X.25	2005	
		BBIS	Inter-Regional	Russian Federation	19200bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2002	
		BIS	Inter-Domain	DPR Korea	9600bps	X.25	2005	
		BIS	Inter-Domain	Macau, China	9600bps	X.25	2005	
		BIS	Inter-Domain	Mongolia	9600bps	X.25	2005	
		BIS	Inter-Domain	Myanmar	9600bps	X.25	2005	
		BIS	Inter-Domain	Nepal	9600bps	X.25	2005	
		BIS	Inter-Domain	Pakistan	9600bps	X.25	2005	
		BIS	Inter-Domain	Republic of Korea	9600bps	X.25	2005	
Hong Kong, China	Hong Kong	BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BBIS	Intra-Regional	Japan	64000bps	X.25	2003	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2003	
		BIS	Inter-Domain	Macau, China	9600bps	X.25	2005	
		BIS	Inter-Domain	Philippines	9600bps	X.25	2005	
		BIS	Inter-Domain	Taibei	9600bps	X.25	2005	
		BIS	Inter-Domain	Viet Nam	9600bps	X.25	2005	

Attachment 1 to WP/12

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
Macau, China	Macau	BIS	Inter-Domain	China	9600bps	X.25	2005	
		BIS	Inter-Domain	Hong Kong, China	9600bps	X.25	2005	
Cook Island	Rarotonga	BIS	Inter-Domain	New Zealand	9600bps	X.25	2005	
DPR Korea	Pyongyang	BIS	Inter-Domain	China	9600bps	X.25	2005	
Fiji	Nadi	BIS	Inter-Domain	Australia	9600bps	X.25	2005	May need to be upgraded to BBIS
		BIS	Inter-Domain	Kiribati	9600bps	X.25	2005	
		BIS	Inter-Domain	New Caledonia	9600bps	X.25	2005	
		BIS	Inter-Domain	Samoa	9600bps	X.25	2005	
		BIS	Inter-Domain	Tonga	9600bps	X.25	2005	
		BIS	Inter-Domain	Tuvalu	9600bps	X.25	2005	
		BIS	Inter-Domain	United States	9600bps	X.25	2005	May need to be upgraded to BBIS
		BIS	Inter-Domain	Wallis Is	9600bps	X.25	2005	
		BIS	Inter-Domain	New Zealand	9600bps	X.25	2005	
		BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BBIS	Inter-Regional	Kenya, Nairobi	19200bps	X.25	2005	
		BBIS	Inter-Regional	Oman-Muscat	19200bps	X.25	2005	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	64000bps	X.25	2003	

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
		BIS	Inter-Domain	Bangladesh	9600bps	X.25	2005	
		BIS	Inter-Domain	Bhutan	9600bps	X.25	2005	
		BIS	Inter-Domain	Nepal	9600bps	X.25	2005	
		BIS	Inter-Domain	Pakistan	9600bps	X.25	2005	
		BIS	Inter-Domain	Sri Lanka	9600bps	X.25	2005	
Indonesia	Jakarta	BIS	Inter-Domain	Australia	9600bps	X.25	2005	
		BIS	Inter-Domain	Singapore	9600bps	X.25	2005	
Japan	Tokyo	BBIS	Intra-Regional	Australia	64000bps	X.25	2003	Proposed new service
		BBIS	Intra-Regional	China	64000bps	X.25	2005	
		BBIS	Intra-Regional	Hong Kong, China	64000bps	X.25	2003	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2003	
		BBIS	Inter-Regional	United States	64000bps	X.25	2003	
		BIS	Inter-Domain	Europe	64000bps	X.25	2005	May need to be BBIS for the short term.
		BIS	Inter-Domain	Russia Federation	64000bps	X.25	2005	May need to be BBIS for the short term.
		BIS	Inter-Domain	Republic of Korea	9600bps	X.25	2005	
		BIS	Inter-Domain	Taibei	9600bps	X.25	2005	
Kiribati	Tarawa	BIS	Inter-Domain	Fiji	9600bps	X.25	2005	
Lao PDR	Vientiane	BIS	Inter-Domain	Thailand	9600bps	X.25	2002	

Attachment 1 to WP/12

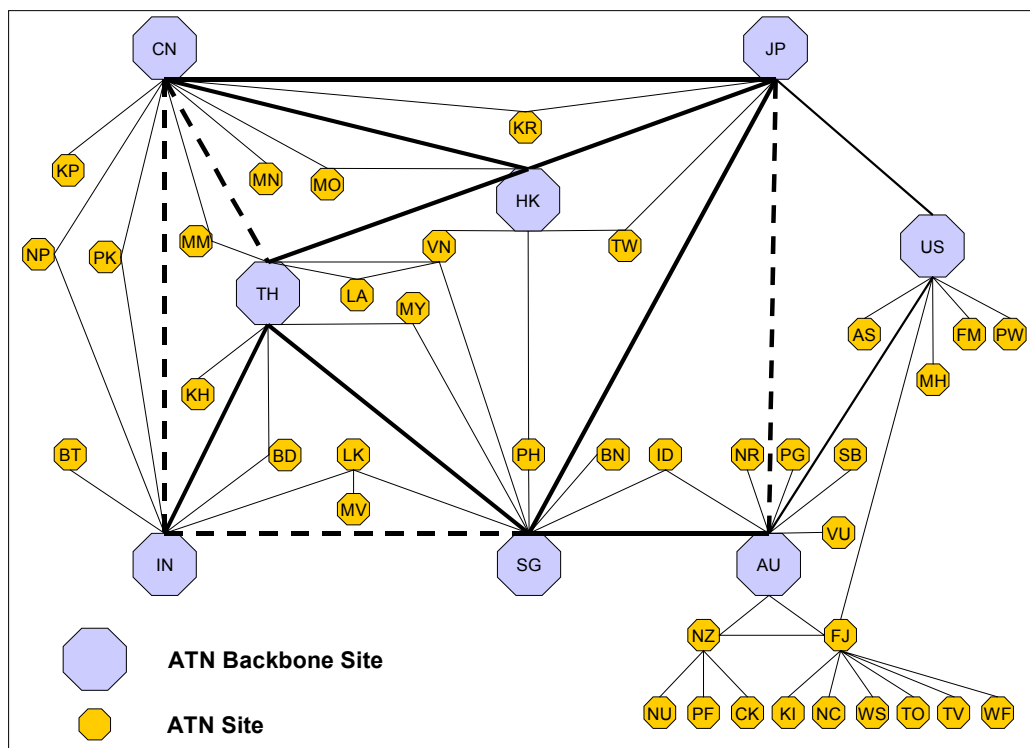
Administration	Location of Router	Type of Router	Type of Interconnection	Interconnection, Connected to router of:	Link Speed	Link Protocol	Target date of Implementation	Remarks
1	2	3	4	5	6	7	8	9
		BIS	Inter-Domain	Viet Nam	9600bps	X.25	2005	
Malaysia	Kuala Lumpur	BIS	Inter Domain	Singapore	9600bps	X.25	2005	
		BIS	Inter-Domain	Thailand	9600bps	X.25	2005	
Maldives	Male	BIS	Inter-Domain	Sri Lanka	9600bps	X.25	2005	
Marshal Island	Majuro	BIS	Inter-Domain	United States	9600bps	X.25	2005	
Micronesia Federated State of	CHUUK	BIS	Inter-Domain	United States	9600bps	X.25	2005	
	Kosrae	BIS	Inter-Domain	United States	9600bps	X.25	2005	
	Ponapei	BIS	Inter-Domain	United States	9600bps	X.25	2005	
	Yap	BIS	Inter-Domain	United States	9600bps	X.25	2005	
Mongolia	Ulaanbaatar	BIS	Inter-Domain	China	9600bps	X.25	2005	
Myanmar	Yangon	BIS	Inter-Domain	China	9600bps	X.25	2005	
		BIS	Inter-Domain	Thailand	9600bps	X.25	2005	
Nauru	Nauru	BIS	Inter-Domain	Australia	9600bps	X.25	2005	
Nepal	Kathmandu	BIS	Inter-Domain	China	9600bps	X.25	2005	
		BIS	Inter-Domain	India	9600bps	X.25	2005	
New Caledonia	Noumea	BIS	Inter-Domain	Fiji	9600bps	X.25	2005	
New Zealand	Christchurch	BIS	Inter-Domain	Australia	9600bps	X.25	2005	
		BIS	Inter-Domain	Cook Is	9600bps	X.25	2005	
		BIS	Inter-Domain	Fiji	9600bps	X.25	2005	

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
		BIS	Inter-Domain	French Polynesia	9600bps	X.25	2005	
		BIS	Inter-Domain	Niue	9600bps	X.25	2005	
Niue Is	Niue	BIS	Inter-Domain	New Zealand	9600bps	X.25	2005	
Pakistan	Karachi	BIS	Inter-Domain	China	9600bps	X.25	2005	
		BIS	Inter-Domain	India	9600bps	X.25	2005	
Palau	Koror	BIS	Inter-Domain	United States	9600bps	X.25	2005	
Papua New Guinea	Port Moresby	BIS	Inter-Domain	Australia	9600bps	X.25	2005	
Philippines	Manila	BIS	Inter-Domain	Hong Kong, China	9600bps	X.25	2005	
		BIS	Inter-Domain	Singapore	9600bps	X.25	2005	
Republic of Korea	Seoul	BIS	Inter-Domain	China	9600bps	X.25	2005	
		BIS	Inter-Domain	Japan	9600bps	X.25	2005	
Samoa	Apia	BIS	Inter-Domain	Fiji	9600bps	X.25	2005	
Singapore	Singapore	BBIS	Intra-Regional	Australia	64000bps	X.25	2003	
		BBIS	Inter-Regional	Bahrain	19200bps	X.25	2005	
		BBIS	Inter-Regional	England, London	19200bps	X.25	2005	
		BBIS	Intra-Regional	Japan	64000bps	X.25	2003	
		BBIS	Intra-Regional	India	64000bps	X.25	2005	
		BBIS	Intra-Regional	Thailand	6400bps	X.25	2003	
		BIS	Inter-Domain	Brunei	9600bps	X.25	2005	

Attachment 1 to WP/12

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
		BIS	Inter-Domain	Indonesia	9600bps	X.25	2005	
		BIS	Inter-Domain	Malaysia	9600bps	X.25	2005	
		BIS	Inter-Domain	Philippines	9600bps	X.25	2005	
		BIS	Inter-Domain	Sri Lanka	9600bps	X.25	2005	
		BIS	Inter-Domain	Viet Nam	9600bps	X.25	2005	
Solomon Is	Honiara	BIS	Inter-Domain	Australia	9600bps	X.25	2005	
Sri Lanka	Colombo	BIS	Inter-Domain	India	9600bps	X.25	2005	
		BIS	Inter-Domain	Maldives	9600bps	X.25	2005	
		BIS	Inter-Domain	Singapore	9600bps	X.25	2005	
Thailand	Bangkok	BBIS	Inter-Regional	Italy	19200bps	X.25	2005	
		BBIS	Intra-Regional	China	64000bps	X.25	2002	
		BBIS	Intra-Regional	Hong Kong, China	64000bps	X.25	2003	
		BBIS	Intra-Regional	India	64000bps	X.25	2005	
		BBIS	Intra-Regional	Singapore	64000bps	X.25	2003	
		BIS	Inter-Domain	Bangladesh	9600bps	X.25	2005	
		BIS	Inter-Domain	Cambodia	9600bps	X.25	2002	
		BIS	Inter-Domain	Lao PDR	9600bps	X.25	2002	
		BIS	Inter-Domain	Malaysia	9600bps	X.25	2005	
		BIS	Inter-Domain	Myanmar	9600bps	X.25	2005	

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
		BIS	Inter-Domain	Viet Nam	9600bps	X.25	2005	
Tonga	Tongatapu	BIS	Inter-Domain	Fiji	9600bps	X.25	2005	
Tuvalu	Funafuti	BIS	Inter-Domain	Fiji	9600bps	X.25	2005	
United States	Oakland	BBIS	Inter-Regional	Australia	64000bps	X.25	2003	
		BBIS	Inter-Regional	Japan	64000bps	X.25	2003	
		BIS	Inter-Domain	American Samoa	9600bps	X.25	2005	
		BIS	Inter-Domain	Marshal Islands	9600bps	X.25	2005	
		BIS	Inter-Domain	Micronesia	9600bps	X.25	2005	
		BIS	Inter-Domain	Palau	9600bps	X.25	2005	
Vanuatu	Port Vila	BIS	Inter-Domain	Australia	9600bps	X.25	2005	
Viet Nam	Ho-Chi-Minh	BIS	Inter-Domain	Hong Kong, China	9600bps	X.25	2005	
		BIS	Inter-Domain	Lao PDR	9600bps	X.25	2005	
		BIS	Inter-Domain	Singapore	9600bps	X.25	2005	
		BIS	Inter-Domain	Thailand	9600bps	X.25	2002	
Wallis Is.	Wallis	BIS	Inter-Domain	Fiji	9600bps	X.25	2005	



Proposed Chart CNS 2 ASIA/PAC ATN Router Connection Plan

Note for codes used in the Chart CNS – 2

Attachment 2 to WP/12

Country	ISO Code	Country	ISO Code
American Samoa	AS	Mongolia	MN
Australia	AU	Myanmar	MM
Bangladesh	BD	Nauru	NR
Bhutan	BT	Nepal	NP
Brunei Darussalam	BN	New Caledonia	NC
Cambodia	KH	New Zealand	NZ
China	CN	Niue	NU
Cook Islands	CK	Pakistan	PK
Fiji	FJ	Palau	PW
French Polynesia	PF	Papua New Guinea	PG
Hong Kong China	HK	Philippines	PH
India	IN	Samoa	WS
Indonesia	ID	Singapore	SG
Japan	JP	Solomon Islands	SB
Kiribati	KI	Sri Lanka	LK
Korea, Democratic People's Republic of	KP	Taipei	TW
Korea, Republic of	KR	Thailand	TH
Lao	LA	Tonga	TO
Macau China	MO	Tuvalu	TV
Malaysia	MY	United States	US
Maldives Islands	MV	Vanuatu	VU
Marshall Islands	MH	Viet Nam	VN
Micronesia, Federated States of	FM	Wallis and Futuna Islands	WF