

TABLE CNS 1B

AERONAUTICAL TELECOMMUNICATION NETWORK (ATN) / INTERNET PROTOCOL SUITE (IPS) 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 - Connection provided with stations in other ICAO regions Intra - Regional - Connection provided between BBIS stations Sub - Regional - Connection provided between a BBIS station and a BIS station |
| 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 <u>“X.25” – Connectionless Network Protocol (CLNP) over X.25</u> <u>“IP-SNDCF” – CLNP over Internet Protocol (IP) (SNDCF - Sub-Network Dependent Convergence Function)</u> <u>“IPS” - Internet Protocol Suite</u> |
| 8 | Target Date of Implementation - date of implementation of the router TBD - To be determined |
| 9 | Remarks |

| 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 |
| Afghanistan | Kabul | BIS | Sub-Regional | Pakistan | 64000bps | IPS | 2015 | Intra-domain |
| | | BIS | Inter-Regional | Iran | 9600 bps | IPS | 2015 | |
| American Samoa | Pago Pago | | | United States | | | 2013 | Intra-domain |
| Australia | Brisbane | BBIS | Intra-Regional | Fiji | 64000 bps | CLNP/IP-SNDCF | 2014 | |
| | | BIS | Sub-Regional | Indonesia | 64000 bps | X.25/IP SNDCF | 2015 | |
| | | BBIS | Intra-Regional | Japan | 64000 bps | IP/SNDCF | TBD | Not implemented |
| | | | | Nauru | | IPS | 2013 | Intra-domain |
| | | BIS | Sub-Regional | New Zealand | 64000 bps | IPS | 2013 | Implemented |
| | | | | Papua New Guinea | 64000 bps | IPS | 2013 | Intra-domain/Implemented |
| | | BBIS | Intra-Regional | Singapore | 64000 bps | CLNP/IP-SNDCF | 2015 | |
| | | BBIS | Inter-Regional | South Africa | 64000 bps | TBD | TBD | Not implemented |
| | | | | Solomon Islands | | IPS | 2012 | Intra-domain |
| | | | | Timor Leste | | IPS | 2013 | Intra-domain |
| | | Vanuatu | | IPS | 2010 | Intra-domain | | |
| | | BBIS | Inter-Regional | United States | 64000 bps | IPS/SNDCF | 2015 | |
| Bangladesh | Dhaka | BIS | Sub-Regional | India | 64000 bps | IPS | TBD | |
| | | BIS | Sub-Regional | Thailand | 9600 bps | X.25 | 2013 | |
| Bhutan | Paro | BIS | Sub-Regional | India | 9600 bps | IPS | TBD | |

| 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 | 64000 bps | IPS | 2016 | |
| | | BIS | Sub-Regional | Singapore | 9600 bps | X.25 | 2013 | Circuit implemented |
| Cambodia | Phnom Penh | BIS | Sub-Regional | Thailand | 9600 bps | X.25 | 2013 | |
| China | Beijing | BIS | Sub-Regional | DPR Korea | 9600 bps | X.25 | 2013 | Router Implemented |
| | | BBIS | Intra-Regional | Hong Kong, China | 64000 bps | X.25 | 2015 | Router Implemented |
| | | BBIS | Intra-Regional | India | 64000 bps | IPS | 2013 | |
| | | BBIS | Intra-Regional | Japan | 64000 bps | IPS/SNDCF | TBD | |
| | | BBIS | Inter-Regional | Kuwait | 64000 bps | X.25 | 2013 | Router Implemented |
| | | BIS | Sub-Regional | Macau, China | 64000 bps | X.25 | 2012 | Implemented |
| | | BIS | Sub-Regional | Mongolia | 9600 bps | X.25 | 2013 | Router Implemented |
| | | BIS | Sub-Regional | Myanmar | 9600 bps | IPS | 2015 | Router Implemented |
| | | BIS | Sub-Regional | Nepal | 9600 bps | X.25 | 2013 | Router Implemented |
| | | BIS | Sub-Regional | Pakistan | 64000 bps | X.25 | 2013 | Router Implemented |
| | | BIS | Sub-Regional | Republic of Korea | 64000 bps | X.25 | 2011 | Implemented |
| | | BBIS | Inter-Regional | Russian Federation | 64000 bps | X.25 | 2012 | Router Implemented |
| | | BBIS | Intra-Regional | Thailand | 64000 bps | X.25 | 2014 | Router Implemented |
| | BIS | Sub-Regional | Vietnam | 9600 bps | X.25 | 2013 | | |
| | Taibei | BIS | Sub-Regional | Hong Kong, China | 64000 bps | X.25 | TBD | |
| BIS | | Sub-Regional | Japan | 64000 bps | IPS/SNDCF | TBD | | |
| Hong Kong, China | Hong Kong | BBIS | Intra-Regional | China | 64000 bps | X.25 | 2015 | |
| | | BIS | Sub-Regional | Macau, China | 64000 bps | X.25 | 2009 | Implemented |
| | | BBIS | Intra-Regional | Japan | 64000 bps | IP/SNDCF | 2017 | |

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|------------------|--------------------|----------------|-------------------------|--|------------|---------------|-------------------------------|------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | BIS | Sub-Regional | Philippines | 64000 bps | X.25/IPS | 2015 | |
| | | BBIS | Sub-Regional | Taibei | 64000 bps | X.25 | TBD | |
| | | BBIS | Intra-Regional | Thailand | 64000 bps | X.25 | 2014 | Implemented |
| | | BIS | Sub-Regional | Viet Nam | 64000 bps | X.25 | 2015 | |
| Macau, China | Macau | BIS | Sub-Regional | China | 64000 bps | X.25 | 2012 | Implemented |
| | | BIS | Sub-Regional | Hong Kong, China | 64000 bps | X.25 | 2009 | Implemented |
| Cook Islands | Rarotonga | | | New Zealand | 9600 bps | IPS | 2013 | Intra-domain |
| DPR Korea | Pyongyang | BIS | Sub-Regional | China | 9600 bps | X.25 | 2013 | |
| Fiji | Nadi | BBIS | Intra-Regional | Australia | 64000 bps | CLNP/IP-SNDCF | 2014 | |
| | | | | Kiribati | 64000 bps | IPS | 2014 | Intra-domain |
| | | BIS | Sub-Regional | New Caledonia | | | 2013 | Intra-domain |
| | | | | Tuvalu | | IPS | 2011 | Intra-domain |
| | | BBIS | Inter-Regional | United States | 9600 bps | X.25 | 2011 | Circuit implemented |
| | | | | Wallis Islands | | | 2013 | Intra-domain |
| French Polynesia | Papeete | | | New Zealand | 9600 bps | IPS | 2013 | Intra-domain |
| India | Mumbai | BIS | Sub-Regional | Bangladesh | 64000 bps | IPS | TBD | |
| | | BIS | Sub-Regional | Bhutan | 9600 bps | IPS | TBD | |
| | | BBIS | Intra-Regional | China | 64000 bps | IPS | 2013 | |
| | | BIS | Inter-Regional | Kenya | 9600 bps | TBD | TBD | |
| | | BIS | Sub-Regional | Nepal | 64000 bps | IPS | 2014 | |
| | | BIS | Inter-Regional | Oman | 9600 bps | IPS | 2012 | Interoperability trials in Q2/2012 |

| 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 | Sub-Regional | Pakistan | 64000 bps | IPS | 2013 | Interoperability test completed in 2010. Trial operations in progress. |
| | | BBIS | Intra-Regional | Singapore | 64000 bps | X.25 | 2011 | Circuit Implemented |
| | | BIS | Sub-Regional | Sri Lanka | 9600 bps | IPS | TBD | |
| | | BBIS | Intra-Regional | Thailand | 64000 bps | X. 25 | 2013 | Trials Commence from Q2/2012 |
| Indonesia | Jakarta | BIS | Sub-Regional | Australia | 64000bps | IPS | 2015 | |
| | | BIS | Sub-Regional | Singapore | 19200 bps | IPS | 2015 | |
| Japan | Tokyo | BBIS | Intra-Regional | Australia | 64000 bps | X.25/IP-SNDCF | TBD | Not implemented |
| | | BBIS | Intra-Regional | China | 64000 bps | X.25/IP-SNDCF | 2017 | Implement gradually from 2016 on-wards |
| | | BBIS | Intra-Regional | Hong Kong, China | 64000 bps | IP/SNDCF | TBD | Implement gradually from 2016 on-wards |
| | | BBIS | Inter-Regional | Europe | 64000 bps | X.25/IP-SNDCF | TBD | Implement gradually from 2016 on-wards |
| | | BIS | Sub-Regional | Republic of Korea | 64000 bps | X .25/IP-SNDCF | TBD | |
| | | BBIS | Inter-Regional | Russia Federation | 64000 bps | X.25/IP-SNDCF | TBD | Implement gradually from 2016 on-wards |
| | | BBIS | Intra-Regional | Singapore | 64000 bps | IPS-SNDCF | 2016 | Implement gradually from 2016 on-wards |
| | | BIS | Sub-Regional | Taibei | 64000 bps | X.25/IP-SNDCF | TBD | Implement gradually from 2016 on-wards |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | BBIS | Inter-Regional | United States | 64000 bps | X.25/IP-SNDCF | 2015 | Circuit implemented |
| Kiribati | Tarawa | BIS | Sub-Regional | Fiji | 64000 bps | IPS | 2014 | Intra-domain |
| Lao PDR | Vientiane | BIS | Sub-Regional | Thailand | 64000 bps | IPS | 2013 | VSAT |
| | | BIS | Sub-Regional | Viet Nam | 9600 bps | X.25 | 2013 | |
| Malaysia | Kuala Lumpur | BIS | Sub-Regional | Brunei | 64000 bps | IPS | 2016 | |
| | | BIS | Sub-Regional | Singapore | 64000 bps | IPS | 2015 | |
| | | BIS | Sub-Regional | Thailand | 64000 bps | IPS | 2015 | |
| Maldives | Male | BIS | Sub-Regional | Sri Lanka | 64000 bps | X.25 | 2013 | |
| Marshall Islands | Majuro | | Internet | United States | 64000 bps | IP | 2006 | Intra-domain |
| Micronesia Federated State of | Chuuk | | Internet | United States | 64000 bps | IP | 2006 | Intra-domain |
| | Kosrae | | Internet | United States | 64000 bps | IP | 2006 | Intra-domain |
| | Ponapei | | Internet | United States | 64000 bps | IP | 2006 | Intra-domain |
| | Yap | | Internet | United States | 64000 bps | IP | 2006 | Intra-domain |
| Mongolia | Ulaanbaatar | BIS | Sub-Regional | China | 9600 bps | X.25 | 2013 | |
| Myanmar | Yangon | BIS | Sub-Regional | China | 9600 bps | IPS | 2015 | |
| | | BIS | Sub-Regional | Thailand | 9600 bps | IPS | 2015 | |
| Nauru | Nauru | | | Australia | | | 2013 | Intra-domain |
| Nepal | Kathmandu | BIS | Sub-Regional | China | 9600bps | X.25 | 2013 | |
| | | BIS | Sub-Regional | India | 64000 bps | IPS | 2014 | |
| New Caledonia | Noumea | | | Fiji | | | 2013 | Intra-domain |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| New Zealand | Christchurch | BIS | Sub-Regional | Australia | 64000 bps | IPS | 2013 | |
| | | | | Cook Is. | 24000 bps | IPS | 2013 | Intra-domain |
| | | | | French Polynesia | 9600 bps | IPS | 2013 | Intra-domain |
| | | | | Samoa | 2400 bps | IPS | 2013 | Intra-domain |
| | | | | Tonga | 85000 bps | IPS | 2013 | Intra-domain |
| | | BIS | Inter-Regional | USA | 64000 bps | IPS | 2015 | |
| Pakistan | Karachi | BIS | Sub-Regional | Afghanistan | 64000 bps | IPS | 2013 | |
| | | BIS | Sub-Regional | China | 64000 bps | X.25 | 2013 | |
| | | BIS | Sub-Regional | India | 64000 bps | IPS | 2013 | Interoperability test completed in 2010. Trial operations in progress. |
| | | BIS | Inter-Regional | Oman | 64000 bps | - | 2013 | |
| | | BIS | Inter-Regional | Iran | 64000 bps | - | 2013 | |
| | | BIS | Inter-Regional | Kuwait | 64000 bps | - | 2013 | |
| Palau | Koror | | Internet | United States | 64000 bps | IP | 2006 | Intra-domain |
| Papua New Guinea | Port Moresby | | | Australia | 64000 bps | IPS | 2013 | Intra-domain |
| Philippines | Manila | BIS | Sub-Regional | Hong Kong, China | 64000 bps | X.25/IPS | 2015 | Circuit Implemented |
| | | BIS | Sub-Regional | Singapore | 64000 bps | IPS | 2016 | |
| Republic of Korea | Seoul | BIS | Sub-Regional | China | 64000 bps | X.25 | 2011 | Implemented |
| | | BIS | Sub-Regional | Japan | 64000 bps | X.25 | TBD | |
| Samoa | Faleolo | | | New Zealand | 2400 bps | IPS | 2013 | Intra-domain |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Singapore | Singapore | BBIS | Intra-Regional | Australia | 64000 bps | CLNP/IP-SNDCF | 2015 | |
| | | BBIS | Inter-Regional | Bahrain | 64000 bps | IPS | 2015 | |
| | | BIS | Sub-Regional | Brunei | 9600bps | IPS | 2016 | |
| | | BBIS | Intra-Regional | India | 64000 bps | X.25 | 2011 | Implemented |
| | | BIS | Sub-Regional | Indonesia | 19200bps | IPS | 2015 | |
| | | BBIS | Intra-Regional | Japan | 64000 bps | IPS/SNDCF | 2016 | |
| | | BIS | Sub-Regional | Malaysia | 64000 bps | IPS | 2015 | |
| | | BIS | Sub-Regional | Philippines | 64000 bps | IPS | 2016 | |
| | | BIS | Sub-Regional | Sri Lanka | 64000 bps | IPS | 2015 | |
| | | BBIS | Intra-Regional | Thailand | 64000 bps | X.25 | 2014 | Implemented |
| | | BBIS | Inter-Regional | United Kingdom | 64000 bps | IPS | 2012 | Implemented |
| BIS | Sub-Regional | Viet Nam | 9600 bps | X.25 | 2015 | | | |
| Solomon Islands | Honiara | | | Australia | | IPS | 2012 | Intra-Domain |
| Sri Lanka | Colombo | BIS | Sub-Regional | India | 9600 bps | IPS | TBD | |
| | | BIS | Sub-Regional | Maldives | 64000 bps | X.25 | 2013 | |
| | | BIS | Sub-Regional | Singapore | 64000 bps | IPS | 2015 | |
| Thailand | Bangkok | BIS | Sub-Regional | Bangladesh | 32000 bps | IPS | 2014 | VSAT |
| | | BIS | Sub-Regional | Cambodia | 32000bps | IPS | 2013 | VSAT |
| | | BBIS | Intra-Regional | Beijing, China | 64000 bps | X.25 | 2014 | |
| | | BBIS | Intra-Regional | Hong Kong, China | 64000 bps | X.25 | 2014 | Implemented |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | BBIS | Intra-Regional | India | 64000 bps | X.25 | 2014 | |
| | | BBIS | Inter-Regional | Italy | 64000 bps | X.25 | 2014 | |
| | | BIS | Sub-Regional | Lao PDR. | 32000 bps | IPS | 2014 | VSAT |
| | | BIS | Sub-Regional | Malaysia | 64000 bps | IPS | 2015 | |
| | | BIS | Sub-Regional | Myanmar | 32000 bps | IPS | 2015 | VSAT |
| | | BBIS | Intra-Regional | Singapore | 64000 bps | X.25 | 2014 | Implemented |
| | | BIS | Sub-Regional | Viet Nam | 32000 bps | IPS | 2015 | VSAT |
| Timor Leste | Dili | | | Australia | | IPS | 2013 | Intra-domain |
| Tonga | Tongatapu | | | New Zealand | 9600 bps | IPS | 2013 | Intra-domain |
| Tuvalu | Funafuti | | | Fiji | | IPS | 2011 | Intra-domain |
| United States | Salt Lake City | BBIS | Inter-Regional | Australia | 64000 bps | IPS/SNDCF | 2015 | |
| | | | | American Samoa | | | 2013 | Intra-domain |
| | | BBIS | Inter-Regional | Fiji | 9600 bps | X.25 | 2011 | Circuit implemented |
| | | BBIS | Inter-Regional | Japan | 64000 bps | IPS/SNDCF | 2015 | Circuit implemented |
| | | | Internet | Marshall Islands | 64000 bps | IP | 2006 | Intra-domain |
| | | | Internet | Micronesia, Federated State of | 64000 bps | IP | 2006 | Intra-domain |
| | | BIS | Inter-Regional | New Zealand | 64000 bps | IPS | 2015 | Circuit Implemented |
| | | Internet | Palau | 64000 bps | IP | 2006 | Intra-domain | |
| Vanuatu | Port Vila | | | Australia | | IPS | 2010 | Intra-domain |

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|----------------|--------------------|----------------|-------------------------|--|------------|---------------|-------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Viet Nam | Ho Chin Minh/Hanoi | BIS | Sub-Regional | China | 9600 bps | X.25 | 2013 | |
| | | BIS | Sub-Regional | Hong Kong, China | 64000 bps | X.25 | 2015 | |
| | | BIS | Sub-Regional | Lao PDR. | 9600 bps | X.25 | 2013 | |
| | | BIS | Sub-Regional | Singapore | 9600 bps | X.25 | 2015 | |
| | | BIS | Sub-Regional | Thailand | 9600 bps | X.25 | 2015 | |
| Wallis Islands | Wallis | | | Fiji | | | 2013 | Intra-domain |