



International Civil Aviation Organization

**THE TWELFTH WORKING GROUP MEETING OF
AERONAUTICAL TELECOMMUNICATION NETWORK
(ATN) IMPLEMENTATION CO-ORDINATION GROUP OF
APANPIRG (ATNICG WG/12)**



5 – 8 August, Renton, WA, USA

Agenda item 8: Update Tasks List

TITLE AND WORK PROGRAMME OF THE ACSICG WORKING GROUP

(Presented by the Secretariat)

SUMMARY

This paper recall history of the working group and propose rename of the working group based on APANPIRG/24 Decision and review updated list of tasks for the Working Group.

1. INTRODUCTION

1.1 The First Meeting of the Aeronautical Telecommunication Network (ATN) Implementation Co-ordination Group (ATNICG/1) of APANPIRG held in May 2006 in Seoul, Republic of Korea. The group decided to establish a Working Group to progress of the tasks assigned by APANPIRG.

Establishment of a Working Group of the ATNICG

1.2 The meeting agreed to establish a Working Group to continue to undertake all the Tasks assigned to the experts and to co-ordinate timely completion of the Tasks. In this connection, the meeting formulated a Decision as follows:

Decision 1/5 – Establishment of Working Group of ATNICG

That, a Working Group consisting of 12 members of the Group was established to co-ordinate activities carried out by each team. Team Leader and supporting members were designed to complete each task as indicated in **Appendix A2**.

2. DISCUSSIONS

2.1 It was also decided that the Working Group will work by correspondence and will conduct meetings, as and when required. The First Meeting of the Working Group was held in December 2006 in Bangkok which clarified various issues and reviewed relevant activities.

2.2 It was further agreed that the Chairman of the ATNICG Group will act as the Rapporteur of the Working Group and will co-ordinate arrangements for the meeting.

2.3 APANPIRG/24 held in June 2013 agreed to change the name of ATN Implementation Group from ATNICG to ACSICG and adopted the revised TOR and noted Subject/Tasks List for the Group.

2.4 Considering the need to be in line with recommendations of AN Conf/12 on AFS and SWIM and requirements to provide communication and information management services for operational needs, the APANPIRG agreed on the proposed change of the group and adopted following Decision:

Decision 24/31 - Aeronautical Communication Services Implementation Coordination Group – (ACSICG)

That,

- a) the name “ATN Implementation Coordination Group” be replaced by “Aeronautical Communication Services Implementation Coordination Group” and
- b) the revised TOR of ACSICG provided in **Appendix B** to the Report on Agenda Item 3.4 be adopted.

2.5 The revised TOR of ACSICG is provided **in Attachment A** to this Working Paper for review by the meeting.

2.6 The ATNICG/8 meeting held in March 2013 reviewed and updated the Subject/Tasks List of the group plus some actions items list which is provided in **Attachment B** to this paper for further review and update.

2.7 The ATNICG/8 also reviewed the ATN implementation strategies for the Asia/Pacific Region as proposed in Working Paper 19. The need to migrate to an IP based network had been discussed and supported. The minimum channel speed for 64 Kbps service for AMHS interconnection was also discussed. Considering time constraints in reviewing the proposed change to the strategy, the meeting agreed to refer the draft to ATNICG WG for further consideration. The initial draft appended to WP19 is provided to **Attachment C** to this paper for further review.

2.8 The ATNICG Working Group has not updated actions items in its 10th and 11th meeting. The action items reviewed at 9th meeting are provided in the **Attachment D** to this paper for consideration as reference for the subject/task list of the Working Group of ACSICG. It may be noted that several Ad Hoc working groups were set up to progress different subjects and report to the working group at previous two meetings.

2.9 The Working Group is also invited to note that APANPIRG/24 agreed to establish a Task Force to study the proposed **Common Regional Virtual Private Network (VPN)** (Decision 24/32) quoted follow:

That, a Task Force with Subject Matter Experts (SME) be established to study the virtual private network and develop a detailed proposal by 2016. The Task Force reports the outcome of its study to APANPIRG through ACSICG and CNS SG.

2.9.1 A number of steps were suggested to be taken to further pursue this direction. The proposal of establishing a dedicated group was supported by a number of member Administrations including Singapore, Japan, Hong Kong China, India, Pakistan and Nepal. Several issues were highlighted by few States including network security, connectivity, disaster recovery and redundancy that would need to be addressed and taken into consideration by the dedicated group.

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the need to change name of the Working Group from ATNICG WG to ACSICG WG and reset as first meeting in its report.

3.2 The meeting is requested to develop the work programme for the ACSICG Working Group based on information provided in this paper.

3.3 The meeting is also requested to develop the revised ATN implementation strategies for the Asia/Pacific Region as initially proposed at ATNICG/8 meeting in March 2013.

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REVISED TERMS OF REFERENCE FOR ACSICG

Name and Terms of Reference

Name: “ATN Implementation Coordination Group (ATNICG)” be replaced by “Aeronautical Communication Services Implementation Co-ordination Group (ACSICG)”

Terms of Reference (TORs)

Complete implementation of Asia and Pacific (APAC) Aeronautical Communication Network (ATN) and ensure the underlying communications backbone continues to support the evolving ICAO operational requirements for the exchange and management of aeronautical information and data.

Composition

The Group will be composed of experts nominated by ICAO member States/Administrations in the Asia and Pacific Regions.

Reporting

The Group will present its report to APANPIRG through the CNS Sub-group.

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
1	ATN Implementation Coordination	(1) Review of implementation problems and develop co-ordinated solutions (2) Coordinate / compile the regional implementation schedule (3) Monitor Implementation	Expedite implementation activities, ensure system compatibility through out the region	(1) Co-ordination Report (2) Waterfall schedule (3) Monitor AMHS Implementation Planner	(1)On-going /Semi-annually (2) Schedule 03/2013 (3) On- going	Kapoor (India) Hong Kong, China	All members	(1)Updated the information on the ATN Router and AMHS planning tables and the implementation status (2) Completed , maintain the AMHS implementation Planner.
2	ATN Operational Procedures	(1) Development of Interim Database for Directory Services	Make available real time and quality assurance addresses for ATN message delivery	(1) Interim Database - (2)Global AMC service are used	(1) (2013)	Robert Hallman (USA)	Thailand, Hong Kong China, Japan	Completed. The database was demonstrated. Aerothai will maintain the database on behalf of the regional ICAO Office. Aerothai will serve as POC for AMC coordination between ASIA/PAC States and Eurocontrol. ATN Operational Procedures is completed and adopted.
		(2) Develop the operational database management procedures		(2) Operational Procedures	(2) (2007)			Completed.

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
3	ATN Certification & Validation Process	(1) Develop conformance procedures and checklist for AMHS and ATN routers	Expedite implementation activities, ensure global system compatibility	(1) Checklist	(1) (2007)	Sin Hie Sng (Singapore)	China, Hong Kong China, Indonesia, ROK, USA,	Completed
		(2) Develop validation process document		(2) Conformance Document	(2) 2007			Completed and adopted by APANPIRG
				(3) Update to Conformance Document	(3) Ongoing until 2010			Completed
4	(1) ATN Documentation (2) Review all documents adopted by ATNICG and ATNTTF	(1) Study DIR objects / attributes proposed in ACP and follow development within other groups (2) Update document tree / establish tracking table for suspended dates (3) Standardized Report form and Guidance Material	Expedite implementation activities, ensure global system compatibility	(1) Directory Report (2) Tracking table/Updated documentation tree (3) AMC report (4) Report Form and Report Guidance	(1) Annually (2) Periodically (3) 2012	Jittima (Thailand)	USA	Update the database. AMC mandated by ICAO. Training completed. Directory Service will be implemented in coordination with ACP and phases will be developed.

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No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
		(2) Development AIDC documentation (including ICD) and follow development within other groups		(2) AFTN AIDC / ATN Gateway Specification ATN AIDC ICD	(2) 2014 (IRAIDTF-dependent)	(Thailand)	Thailand	Remark: Removal of provision from Doc 9880 was noted. IR AIDC ICD has been taken over by Inter-regional Task Force. Monitoring progress and provides input
		(3) Update of AMHS ICD to comply with SARPs 3rd Edition		(1) Report differences between existing ICD and requirements for Edition 3 of Doc 9705 (2) Updated AMHS ICD	(1) Sept 2011 (2) (2013)	USA	Japan	Ad-hoc group formed and consolidated APAC Technical Specification replacing AMHS ICD developed. Further verification of function are assigned to members of ATNICG WG.
		Managing PDR	Update ICAO Documents (9880 /9896)	PDR filing and tracking	On-going	USA	All the Member States	Additional Task proposed in ATNICG/5. PDR filing procedure already circulated.
5	ATN Performance	(1) Develop/establish/adapt/monitor/identify/analyse performance indicators	Assure QOS, service continuity, timely delivery of services	(1) AMHS performance report	(1) Annually until (2010)	Japan	Republic of Korea, India	Will resisit when regional IP-VPN be considered.

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No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
6	ATN Service Enhancements	(1) Review the impact of the implementation of Directory Services in the Region	Enhancing the service	(1) Report on directory	(1) Annually	Fiji	USA, Thailand New Zealand Japan Australia	AMC directory temporarily being used. Directory service will be considered when regional IP-VPN becoming available.
		(2) Directory Service - Implementation Strategy	Enhancing the operation	Requirement Analysis Report & Implementation Strategy	(2) 2012	Thailand		Closed in view of the implementation of AMC
7	IPM Implementation	ATN/IPS Implementation Plan	Inter-regional and intra regional network compatibility	(1) ATN/IPS router ICD (2) IPS addressing plan (3) ATN/OSI - ATN/IPS Transition Plan (4) ATN/IPS routing policy (5) Update FASIS Tables to accommodate IPS (6) IDRP over IP subnet - ICD	(1) 2011 (2) 2011 (3) 2011 (4) 2012 (5) 2011 (6) 2011	USA	Australia, China, India, Fiji, Hong Kong, China, Japan, and USA	Proposed an additional task 1) ongoing 2) IPv4 addressing plan has been adopted

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
		Providing support for emerging requirements of OPMET, AIS/AIM, AIDC etc.	Enhancing the service	Task Report on XML based messages over AMHS platform	2011	USA	Hong Kong China,	Additional Task proposed in ATNICG/5
		(5) Study for transition of AFTN-based AIDC as an alternative to ATN based AIDC to ATN environment	Improving the service and lowering the operating cost	(5) Report on the impact of transition of AFTN-AIDC to ATN-AIDC AFTN AIDC/ATN Gateway Specification	(5) (2008)	Thailand	India, Indonesia, New Zealand, USA,	A Draft specification of AFTN AIDC/ATN Gateway was presented. Completed. Task closed in view of removal of provision from Doc 9880
8	Address Prefix	Analyze Common Address Prefix Proposal	Improving the service and routing efficiency	Report on common prefix based analysis conducted	End of 2010	Mark Brown (Japan)	Australia, Fiji, Hong Kong China, New Zealand and USA	Closed. Action Items developed at ATNICG/2 for follow-up at WG meetings.
9	Security	(1) Develop ATN System Security policy	Safe and Secure Inter and Intra Regional Communication and service infrastructure	(1) Policy Document	(1) Annually until (2010)	Vidyut Patel (USA)	Australia, Hong Kong China	Completed and Adopted by APANPIRG/19

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
		(2) Develop ATN System Security Guidance		(2) Guidance Document	(2) (2011)			reviewed and updated - closed
		(3) Develop ATN System Security Solution for Initial and Enhanced Services		(3) Security, Technical, Management and Operational Control	(3) (2008)			Completed
		(4) Co-ordinate and monitor ACP working group and other regions including Directory Service, PDRs		(4) Report	(4) Semi-Annually		Thailand	On-Going review and update
		(5) Develop IPS Security Policy and update the relevant guidance documents		Policy and updated guidance documents	2011			Proposed additional task to facilitate ATN/IPS
		(6) Develop ATN System Security Check List based on Security Control and Regional Incident Response Plan and Contingency Plan		(5) Check List, Regional Incident Response Plan and Contingency Plan	(5) (2009)			Forward to CNS/MET SG and APANPIRG for review and adoption

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No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
10	ATN Service Enhancements (supporting amended ICAO Flight Plan and ATS Message Formats)	(1) Review the impact of the implementation of Amendment 1 to 15th Edition of Doc 4444 effective 15 Nov. 2012 (PANS ATM Chapter 4 and Appendix 3 relating to the ICAO Flight Plan and associated ATS Message formats to the AFS	Enhancing the service	(1) Report on capability of existing and planned AFS systems to the revised ICAO Flight Plan and ATS Message Format	(1) Annually until 2012	USA	Fiji, India Hong Kong, China New Zealand Singapore USA	Completed. Post Monitor the performance.
		(2) Identify the new requirements for AMHS/AFTN to support new message format	Enhancing the operation	(2) Report on impact of New ATS message format in AMHS	(2) 2010	Thailand	Fiji, India Hong Kong, China New Zealand Singapore USA	Completed
			Enhancing the operation	Develop Voice over IP point-to-point ICD	2012	USA, Japan, India		Task created in ATNICG/6

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No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
			(3) Identify the link control procedure using the AMHS to support the revised ATS message format to the ATC automation system	Enhancing the service	(3) Report whether special link control procedure is required	(3) 2010	Thailand	Completed Fiji, India Hong Kong New Zealand Singapore USA
		Develop Regional Strategy for the implementation of SWIM/IMS	To meet the requirements of ASBU as recommended in AN Conf/12	Regional SWIM/IMS Implementation Strategy	2014	USA		Draft Strategy will be presented to the ATNICG WG/12 meeting for consideration by CNS SG in 2014
		Common Communication Service Provider for the region.	Will facilitate implementation of circuits/connections within the region. Will also facilitate harmonization of regional network	Joint Working Paper for the consideration of CNS SG of the APANPIRG	May, 2013	USA	Japan, Singapore, Thailand, China, Hong Kong China and New Zealand	USA, Japan, Singapore, Thailand, China, Hong Kong China & New Zealand assigned the task of preparing common Working Paper
11	Update regional ATN/AMHS implementation strategy	Update regional ATN/AMHS Implementation Strategy to include recent developments	Regional Strategy will be aligned to the changing requirements	Updated Strategy	Apr. 2014	ATNICG WG Members		Draft Strategy to be reviewed by ATNICG/13

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
	<p>The ATN PERFORMANCE OBJECTIVE</p> <p>Workprogramme of ATNICG relates to ICAO Strategic Objective: Sustainability and GPS22, 19 and 17. The APAC ATN ground-to-ground infrastructure will be fully operational 80 percent at 23 locations by December 2013.</p> <p>(GPI-22) COMMUNICATION NETWORK INFRASTRUCTURE Related ATM objectives: AMSS; HF data; VHF data; SSR Mode S; ATN Scope: To evolve the aeronautical mobile and fixed communication infrastructure, supporting both voice and data communications, accommodating new functions as well as providing the adequate capacity and quality of service to support ATM requirements.</p> <p>(GPI-19) METEOROLOGICAL SYSTEMS Objective: To improve the availability of meteorological information in support of a seamless global ATM system.</p> <p>(GPI-17) IMPLEMENTATION OF DATA LINK APPLICATIONS Scope: Increase the use of data link applications Related ATM objectives: Application of data link; Functional integration of ground systems; with airborne systems; ATS inter-facility data communication (AIDC)</p>							

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**STRATEGY FOR IMPLEMENTATION OF COMMUNICATION SYSTEMS TO SUPPORT OPERATIONS ~~THE~~
AERONAUTICAL TELECOMMUNICATION NETWORK (ATN)
IN THE ASIA/PACIFIC REGION**

Considering that:

- 1) the requirement ~~offer~~ a robust ground-to-ground Aeronautical Telecommunication Network (ATN) and integration of future communication systems to meet the growing need for digital data communication to support the Air Traffic Management Concept and other aeronautical applications;
- 2) the availability of ICAO SARPs and technical manuals for the ATN based on the OSI protocols (ATN/OSI) and the Internet Protocol Suite (ATN/IPS), and the availability of equipment and readiness of vendors to support both ATN/OSI and ATN/IPS ground-to-ground communications, Availability of other new communication systems under consideration for adoption;
- 3) Availability~~the availability~~ of AMHS Transition and Implementation guidance materials required to assist States to ensure harmonization of procedures and protocols and thereby assure inter-operability within the region.;
- 4) the need to develop operational applications over AMHS to support complete replacement of States currently using AFTN terminals for communication with AMHS other States, and the need to replace these aging terminals with ATN Message User Agents (UA); and
- 5) the backbone States in the Asia/Pacific region have already implemented, or are in the process of procuring and implementing, dual stack AMHS based ATN/OSI and ATN/IPS. Some States hosting BIS have also implemented dual stack AMHS and some are in the process of implementation~~AMHS based ATN/OSI~~.

THE GENERAL STRATEGY FOR THE IMPLEMENTATION OF THE ATN AND OTHER COMMUNICATION INFRASTRUCTURE AND ASSOCIATED ATN APPLICATIONS IN THE ASIA/PACIFIC REGION IS AS FOLLOWS:

- a) strategically deploy the ground-ground~~a~~ backbone network of ATN/~~OSI~~ routers and AMHS Message Transfer System (MTS) to provide a reliable communication service~~infrastructure~~ to initially support ground-to-ground applications and the planned ~~ATN/OSI~~ air-ground applications.
- b) strategically deploy the~~an ATN/IPS backbone~~ network as a private network which comprises dedicated point-to-point and other circuits including without connection to the Public Internet, to support data communication, ~~and migrate ATN/OSI router interconnections from X.25 sub-network to IP sub-network connectivity~~;
- c) permit non-backbone States, and States in other regions with connections to the Asia/Pacific region, to connect their Message Transfer Agents (MTA) to backbone States using either the OSI-based ATN Internet Communications Services (ICS) or the ATN IPS on a bilateral basis;

- d) permit States with limited AFS connections or traffic with other States to operate only UA terminals and to use the MTA of another State, subject to bilateral agreement. Such UA to MTA connections may use the Public Internet subject to appropriate security provisions and access control;
- e) complete migration from AFTN to AMHS within the time frame specified in the FASID ~~;~~ and
- f) once a robust ATN/IPS backbone network has been established, eventually phase out use of the ATN ICS by AMHS and operate the AMHS MTA network using the ATN/IPS as specified in ICAO Doc 9880 section 3.2.2.2.3.
- g) Integrate future communication systems with the operational regional ATN Network to form an integrated communication infrastructure in the region to meet all the operational requirements.
- h) Migrate currently used AFTN applications to operate over AMHS. Develop new operational applications over AMHS

IN ORDER TO ACHIEVE THE ABOVE STRATEGY THE FOLLOWING IS REQUIRED OF STATES IN THE ASIA/PACIFIC REGION:

- ~~g~~i) States shall provide implementation in compliance with Annex 10 SARPS and ICAO Manuals, and with the Plans, Policies and AMHS Transition and Implementation guidance materials adopted by APANPIRG;
- ~~h~~j) Backbone States shall implement AMHS MTAs that support both the ATN ICS and ATN/IPS network services as specified in ICAO Doc 9880 section 3.2.2.2. Non-backbone States may implement MTAs that support either or both network services.
- ~~i~~k) Backbone States shall implement ~~ATN/OSI routers with X.25 sub-network capability and later migrate to IP sub-network capability for interconnection with other Backbone States and Non-backbone States.~~
- l) States shall take initiative to participate in the operational testing of applications over AMHS
- ~~j~~m) States shall work co-operatively to assist each other on a multinational basis to implement the ATN and AMHS in an expeditious and coordinated manner and to ensure system inter-operability; and
- ~~k~~n) States shall organize training of personnel to provide necessary capability to maintain and operate the ground-to-ground ATN infrastructure and applications.

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**List of current Action Items carried forward
from previous Meetings**

No.	Item	Status
3.	All issues requiring justification in ATN implementation like security of network etc. should be adequately reflected in the strategy.	Strategy being reviewed.
5.	Take up with ACP, usage of 3 bits next to the /32 address block acquired by Europe for inclusion of 7 ICAO regions and ICAO HQ amongst the planned usage of this space by Europe.	Coordinate with ACP for IPv6 addressing plan & track development. IPv6 will be considered in future technical refresh cycle.
7.	States required to provide implementation status for reflection in the ATN/AMHS implementation planner developed.	On-going. Some States provided update information. ICAO will circulate questionnaire along with invitation for ATNICG/6.
8.	Asia Pacific ATN AMHS will adopt IPv4 address assignment proposed by CAR/SAM region as an interim measure and will transit to IPv6 after the related implementation issues are resolved. This approach will be based on point-to-point IP network.	Guidance Doc on IPv4 address plan to be developed & Lima to be informed about adoption. USA will develop the Guidance Material.
10.	USA assured to present a paper on issue of ATN/OSI interface with IPS, when it completes the MTA interface with UK in 2010 using RFC 1006 over TCP/IP.	USA-UK AMHS service delayed. Report to be presented in 2011 (ATNICG/6).
12.	Currency of the documents required to be confirmed.	Updates on Documentation tree presented in the Flow Chart Format to be presented by USA to ATNICG/6. Information will be updated on the ICAO APAC website.

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14.	Concerned States should consider Hong Kong China proposal for change in ATN routing structure and present a proposal to the ATNICG.	Hong Kong China to take up proposal.
Action Item from ATNICG WG/8		
16.	Japan to address issues related to incompatibility of AMHS installed in Fukuoka with the AMHS installed in neighboring States as it affects overall network connectivity and hence implementation of AMHS in the region.	Issue to be addressed in ATNICG/6.
17.	USA to prepare a Working paper for presentation to CNS/MET SG-15 through ATNICG/6 addressing the requirement of standards for using XML over ATN for the transmission of OPMET data.	On going. Information Paper to be presented by USA to OPMET/TF/M meeting in March.
18.	Decide about the sunset of X.25. Strategy to phase out X.25 network protocol and implementation of point to point IP.	Include in the ICD for ATN over IP at subnet level, material supporting migration from X.25 to point to point IP. Sunset schedule for X.25 shelved for the time being.
19.	USA to develop an IPv6 addressing approach for presentation to the next ACP Working Group – I meeting. IPv6 addressing plan proposed by Japan in ATNICG/5 meeting to be reviewed to explore the possibility of adopting the address structure used by EUR region.	Completed. Paper developed for presentation to ACP WG-M.
20.	Hong Kong China, USA, Singapore, Japan & other States to review recently published Doc 9896 & to provide inputs to Mr. Patel (FAA) for developing a paper for presentation to ACP WG-M, ATNICG etc. bringing out significant issues	Closed in view of the development of the paper.
21.	Information provided in Part II, Paragraphs 1 and 3.3 in the Global Interface Control Document (ICD) for AIDC may be reviewed and comments on the same may be conveyed to ICAO APAC Office for onward transmission to Ms. Karen Chiodini.	Mr. Mark Brown and Mr. Chonlawit to develop ATNICG view for onward transmission by February 2011
22.	USA will develop and present the point-to-point IP Router ICD after cut over with UK in early 2011.	Planned to be presented in ATNICG/6
23.	Japan to review the current AMHS ICD and suggest changes required for making it compatible for Doc 9705 Edition III	Recommended to drop as it is repeat of AI 16.

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Action Item from ATNICG WG/9		
24	Meeting was of the opinion that APANPIRG Conclusion 19/20 requiring the States hosting BBIS hubs to complete implementation of dual stack systems was not comprehensive. USA was requested to recommend a comprehensive draft Conclusion for the consideration of ATNICG/CNS MET SG and APANPIRG.	
25	USA was requested to investigate/analyze current and future applications of ATN/AMHS along with the requirements to be met and present a paper to ATNICG/6.	
26	APAC office may include a questionnaire along with the ATNICG/6 invitation to assess the readiness of the States to migrate to AMHS connectivity.	
27	India, China and other States to share their experiences of migrating from X.25 to IP in the ATNICG/6 meeting. ATNICG to develop a schedule for migration from X.25 to IP in the region and assess the requirement of developing a regional ICD for AFTN over IP.	
