



**International Civil Aviation Organization**

**THE EIGHTH MEETING OF AERONAUTICAL  
TELECOMMUNICATION NETWORK (ATN)  
IMPLEMENTATION CO-ORDINATION GROUP  
OF APANPIRG (ATNICG/8)**

Jakarta, Indonesia, 18 - 21 March 2013



Ministry Of Transportation  
Republic of Indonesia

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**Agenda Item 9: Review and update Subject/Tasks List and Actions Items List**

**AERONAUTICAL TELECOMMUNICATIONS NETWORK  
IMPLEMENTATION COORDINATION GROUP (ATNICG)  
TERMS OF REFERENCE AND SUBJECT/TASKS LIST**

(Presented by the Secretariat)

**SUMMARY**

The revised Terms of Reference for ATNICG was adopted by APANPIRG/22 under Decision 22/16. This paper presents the TOR and Subject/Task List of ATNICG for review by this meeting.

**1. INTRODUCTION**

1.1 Subject and Tasks assigned to the Aeronautical Telecommunication Network Implementation Coordination Group (ATNICG) along with the Terms of Reference were adopted by Asia Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG), through its Decision 22/16 of the Twenty Second meeting held in 2011.

1.2 Though the Terms of Reference have remained the same since 2011, the Subject/Tasks list has been reviewed and has been updated periodically taking into account the changes in the implementation environment and the implementation issues faced from time to time.

**2. DISCUSSION**

2.1 The meeting may recall that CNS/MET SG/15 meeting noted tasks accomplished by the Sixth Meeting of Aeronautical Telecommunication Network Implementation Coordination Group (ATNICG/6) and reviewed the Terms of Reference and the Subject/Tasks list for the group. CNS/MET SG agreed with the ATNICG view that the Terms of Reference of the Group. After reviewing the revised Terms of Reference proposed by ATNICG/6, CNS/MET SG/15 recommended them for adoption by APANPIRG/22. The revised Terms of Reference (**Attachment A**) for ATNICG were adopted by APANPIRG through Decision 22/16.

2.2 There has been a significant change in the ATN/AMHS implementation environment since the adoption of the revised Terms of Reference. ATN over IPS has been included in Annex 10 and AN Conf/12 has adopted ASBU concept and SWIM has been recommended for implementation for regions and States. Information Rich environment has become critically important for harmonized global air navigation systems. It is therefore proposed that Terms of Reference for ATNICG be reviewed by the meeting and recommendations for change, if any may be made to the APANPIRG through CNS SG.

2.3 The subject/tasks List for ATNICG has been reviewed periodically and has been updated in line with the changing implementation environment. Subject/Tasks list for ATNICG was last reviewed by ATNICG/6 and was adopted through APANPIRG Decision 22/16. A copy of the adopted Subject/Tasks list is provided at **Attachment B**. It is proposed to review the Subject/Tasks list and recommend updates if any.

### **3. ACTION REQUIRED THE MEETING**

3.1 Meeting is invited to

- a) review the Terms of Reference for Aeronautical Telecommunication Network Implementation Coordination Group (ATNICG) and recommend required changes for the consideration of CNS SG and APANPIRG; and
- b) review the Subject/Tasks list for ATNICG and recommend changes required for the consideration of CNS SG and APANPIRG

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APANPIRG/22  
Appendix A to the Report on Agenda Item 3.4

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**Approved Terms of Reference (ToRs) in 2011**

Title and Terms of Reference

**Title: Aeronautical Telecommunication Network Implementation Co-ordination Group (ATNICG)**

Terms of Reference (TORs)

Coordinate implementation of ATN and those services identified and assigned by APANPIRG and ICAO in the Asia and Pacific Regions to satisfy operational requirements, achieve inter-operability and address regional implementation and operation related issues.

Composition

The Group will be composed of experts nominated by all ICAO member states in the Asia and Pacific Regions.

Reporting

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

**DRAFT REVISED TERMS OF REFERENCE**

Title and Terms of Reference

**Title: Aeronautical Telecommunication Network Implementation Co-ordination Group (ATNICG)**

Terms of Reference (TORs)

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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) <b>Completed</b> , 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	<b>Completed</b> . 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	Chonlawit B. (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.
		(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

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
		(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	Final Draft of the Document <b>complete</b> .
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	<b>Completed</b> . AMC has been adopted by ICAO. Aerothai has been designed as POC for ASIA/PAC region.
		(2) Directory Service - Implementation Strategy	Enhancing the operation	Requirement Analysis Report & Implementation Strategy	(2) 2012	Thailand		<b>Closed</b> in view of the implementation of AMC

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
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
		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

No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
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.



No.	PERFORMANCE OBJECTIVE	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	ATNICG/8 Update
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; Adopted by APANPIRG/19
		(2) Develop ATN System Security Guidance		(2) Guidance Document	(2) (2011)			On-Going review and update
		(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

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

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	Fiji, India Hong Kong New Zealand Singapore USA	Completed.
<p><b>The ATN PERFORMANCE OBJECTIVE</b></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><b>(GPI-22) COMMUNICATION NETWORK INFRASTRUCTURE</b>  <b>Related ATM objectives:</b> AMSS; HF data; VHF data; SSR Mode S; ATN  <b>Scope:</b> 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</p> <p><b>(GPI-19) METEOROLOGICAL SYSTEMS</b>  <b>Objective:</b> To improve the availability of meteorological information in support of a seamless global ATM system.</p> <p><b>(GPI-17) IMPLEMENTATION OF DATA LINK APPLICATIONS</b>  <b>Scope:</b> Increase the use of data link applications  <b>Related ATM objectives:</b> Application of data link; Functional integration of ground systems; with airborne systems; ATS inter-facility data communication (AIDC)</p>								