



International Civil Aviation Organization

Fourth ATN Transition Task Force Meeting

Mumbai, India, 8 - 12 April 2002

Agenda Item: 1 Review of work carried out by Working Group B.

ATNTTF DOCUMENTATION TREE

(Presented by Australia)

SUMMARY

This paper outlines a new document called the ATNTTF Documentation Tree which catalogues all relevant ATN planning and guidance material documents that are related to the planning and implementation of the ATN for the Asia Pacific Region.

1. Purpose

ICAO and the ATNTTF has developed a number of documents associated with the ATN that there is now becoming a proliferation of documents that can be used to assist States with their planning and implementation programs in the Asia Pacific Region.

Due to the large number of documents being produced it was decided at the last ATNTTF Ad Hoc Working Group B meeting in Chiang Mai that a documentation tree should be developed to further assist States in identifying all relevant ATN documents that are available. Hence a new document call the ATNTTF Documentation Tree has been produced.

This document which is attached as Attachment A contains a list of all relevant documents associated with the ATN that will assist States to identify the relevant ATN documents that can be used when planning and implementing the ATN in the Asia Pacific region. It is proposed that this document be kept up to date with the latest revision details of ATN applicable documents including any additions and deletions of documents.

2. Action by the Meeting

The meeting is requested to:

1. Determine if the document would be of value to the Region; and
2. If so:
 - a) To review and comment on the proposed ATNTTF Documentation Tree document as outlined in Attachment A; and
 - b) For the document to be maintained and formally kept up to date by the ICAO Asia Pacific Office.

Attachment A – ATNTTF Documentation Tree Document



International Civil Aviation Organization

Attachment to WP/2

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INTERNATIONAL CIVIL AVIATION ORGANISATION
ASIA PACIFIC OFFICE



DRAFT

DOCUMENTATION MAP
FOR THE
ASIA PACIFIC ATN TRANSITION

April 2002

Version 1.0

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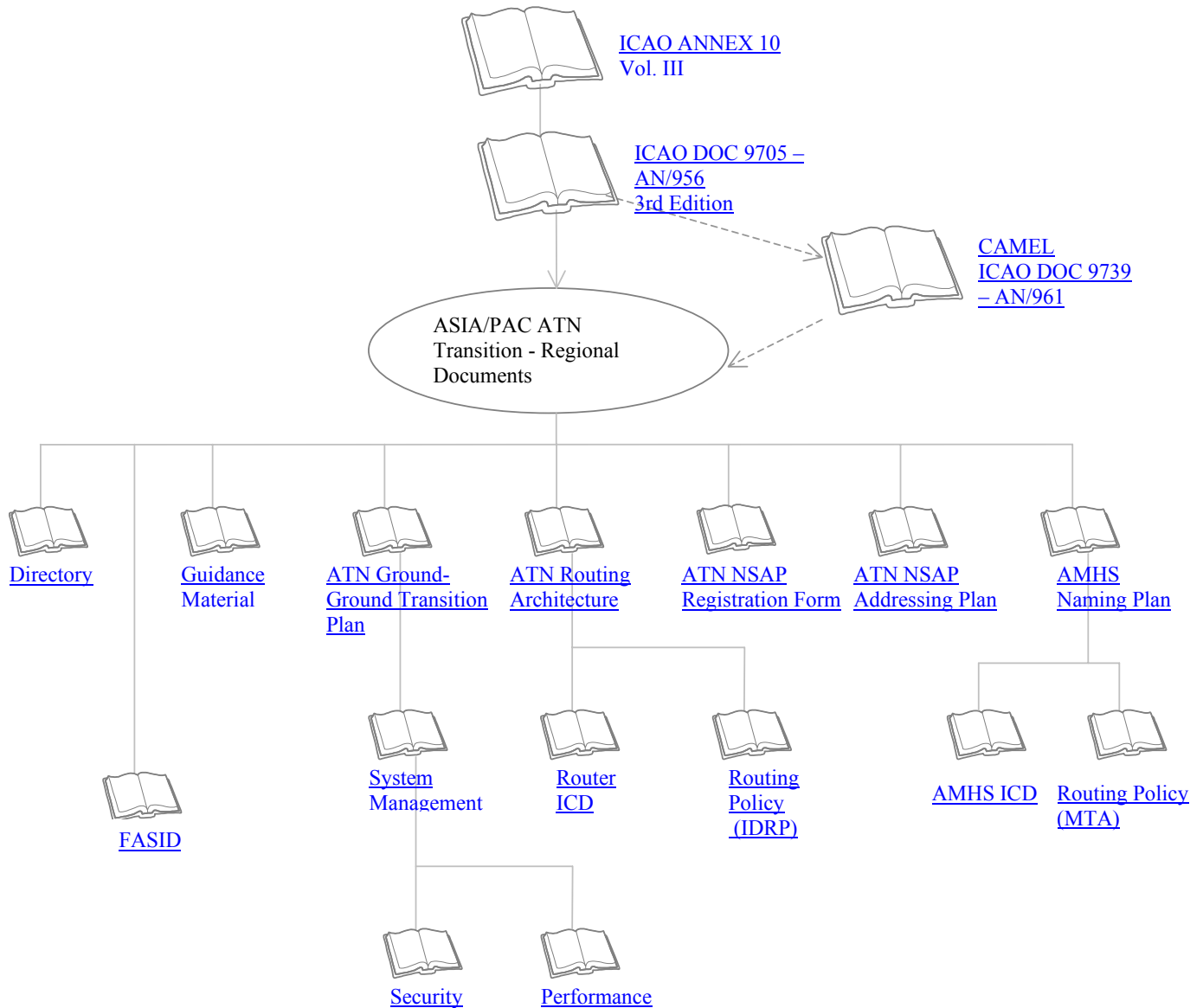
Table of Contents

1	SCOPE	3
2	DOCUMENTATION TREE	3
3	DOCUMENTATION PROFILES	4
3.1	ICAO ANNEX10 VOL. III	4
3.2	MANUAL OF TECHNICAL PROVISIONS FOR THE AERONAUTICAL TELECOMMUNICATION NETWORK - ICAO DOC 9705 – AN/956 3 RD EDITION.....	4
3.3	COMPREHENSIVE AERONAUTICAL TELECOMMUNICATIONS NETWORK MANUAL (CAMEL) - ICAO DOC 9739 – AN/961	5
3.4	ROUTING POLICY (IDRP).....	5
3.5	ROUTING POLICY (MTA).....	5
3.6	DIRECTORY	5
3.7	SYSTEM MANAGEMENT	5
3.8	PERFORMANCE	5
3.9	SECURITY	5
3.10	ROUTER ICD	6
3.11	ATN GROUND-GROUND TRANSITION PLAN	6
3.12	ATN ROUTING ARCHITECTURE	6
3.13	ATN NSAP ADDRESSING PLAN	7
3.14	AMHS NAMING PLAN	7
3.15	ATN NSAP REGISTRATION FORM	7
3.16	GUIDANCE MATERIAL FOR GROUND ELEMENTS IN ATN TRANSITION.....	8
3.17	AMHS ICD	8
3.18	FACILITIES AND SERVICES IMPLEMENTATION DOCUMENT (FASID)	9

1 Scope

This document has been developed to serve as a catalogue of all documentation in the Asia Pacific Region. A hierarchical representation of the relationships between the various documents is presented in section 2 “Documentation Tree”, with associated document descriptions located in section 3 “Documentation Profiles”.

2 Documentation Tree



3 Documentation Profiles

3.1 ICAO Annex10 Vol. III

Title:

International Standards and Recommended Practices, Aeronautical Telecommunications, Annex 10 Volume III.

Latest Version: March 2001

Purpose:

This ICAO document defines the Standards and Recommended Practices (SARPs) for the Aeronautical Telecommunications Network (ATN).

Contents:

Subjects covered by the document:

- Part I – Digital Data communication Systems.
 - Chapter 1 – Definitions.
 - Chapter 3 – Aeronautical Telecommunication Network.
 - Chapter 4 – Aeronautical Mobile-Satellite Service.
 - Chapter 6 – VHF Air-Ground Digital Link (VDL).
 - Chapter 8 – AFTN.
- Part II – Voice Communication Systems.
 - Chapter 2 – Aeronautical Mobile Service.
 - Chapter 4 – Aeronautical Speech Circuits.
 - Chapter 5 – Emergency Locator Transmitter (ELT) for search and rescue.

3.2 *Manual of Technical Provisions for the Aeronautical Telecommunication Network - ICAO DOC 9705 – AN/956 3rd Edition*

Title:

Manual of Technical Provisions for the Aeronautical Telecommunication Network (ATN).

Latest Version: 3rd Edition

Purpose:

This ICAO manual contains detailed technical information and serves to further elaborate on the ATN standards as defined in Chapter 3 of Annex 10, Volume III, Part I.

Contents:

Subjects covered by the document:

- Sub-Volume I – Introduction and System Level Requirements.
- Sub-Volume II – Air-Ground Applications.
- Sub-Volume III – Ground-Ground Applications.
- Sub-Volume IV – Upper Layer Communications Services (ULCS).
- Sub-Volume V – Internet Communications Services (ICS).
- Sub-Volume VI – ATN Systems Management Provisions.
- Sub-Volume VII – ATN Directory Service.
- Sub-Volume VIII – ATN Security Service.
- Sub-Volume IX – ATN Identifier Registration.

3.3 Comprehensive Aeronautical Telecommunications Network Manual (CAMEL) - ICAO DOC 9739 – AN/961

Title:

Comprehensive Aeronautical Telecommunications Network (ATN) Manual.

Latest Version: 1st Edition - 2000

Purpose:

This document provides guidance material in support of the ATN SARPS as defined in Annex 10, Vol. III and Doc. 9705.

Contents:

Subjects covered by the document:

- Components, functionality and concepts of the ATN.
- ATN Internet lower layer routing protocols.
- ATN Upper layer application protocols.
- ATN subnetworks and corresponding SNDCF's layers.
- Air-ground applications, ADS, CPDLC, CM, FIS.
- Ground-Ground applications ATSMHS, AIDC.

3.4 Routing Policy (IDRP)

To be developed.

3.5 Routing Policy (MTA)

To be developed.

3.6 Directory

To be developed.

3.7 System Management

To be developed.

3.8 Performance

To be developed.

3.9 Security

To be developed.

3.10 Router ICD

To be developed.

3.11 ATN Ground-Ground Transition Plan

Title:

ASIA/PAC ATN Transition Plan.

Latest Version: 1.0

Purpose:

This document describes the transition activities that are to be performed by States in the region for a coordinated migration from AFTN to the new ATN environment.

Contents:

Subjects covered by the document:

- Existing ground infrastructure.
- ATN End system applications.
- ATN Traffic, both ground-ground and air-ground communication paths.
- ATN routing architecture.
- ATN backbone trunks.
- Interconnection of ATN routers.
- Transition activities.

Remarks:

Subsequent to discussions stemming from the CNS/MET SG/5 meeting much of the document's contents has been included into the CNS FASID. This document will under go no further revisions.

3.12 ATN Routing Architecture

Title:

ASIA/PAC ATN Routing Architecture.

Latest Version: 1.0

Purpose:

This document presents the routing architecture for the ground-ground infrastructure to eventually replace the existing AFTN. It is intended that this architecture will also be suitable for the accommodation of the air-ground communications traffic at some later time.

Contents:

Subjects covered by the document:

- Routing Domain Fundamentals.
- Router Fundamentals.
- ASIA/Pacific regional routing architecture.
- Routing domains.
- ATN Transition.

3.13 ATN NSAP Addressing Plan

Title:

ASIA/PAC ATN Addressing Plan.

Latest Version: 1.0

Purpose:

This document presents recommendations for the assignment of ATN NSAP addresses within the region. It also defines the methods by which values are assigned to each field of the NSAP Address and specifies the assumptions upon which the addressing format has been defined.

Contents:

Subjects covered by the document:

- NSAP Address structure to be adopted by states of the ASIA/PAC Region.
- Recommendations for the values of each field of the NSAP address.
- Authority responsible for NSAP field assignments.

3.14 AMHS Naming Plan

Title:

ASIA/PAC AMHS Naming Plan.

Latest Version: 1.0

Purpose:

This document presents recommendations for the AMHS naming conventions to be adopted by AMHS users within the region.

Contents:

Subjects covered by the document:

- MF-Addressing scheme.
- XF-Addressing scheme.
- Conventions for use of MF-Addressing Format.
- Conventions for use of XF-Addressing Format.
- General use of X.400 O/R Addresses.

3.15 ATN NSAP Registration Form

Title:

ASIA/PAC ATN NSAP Registration Form.

Latest Version: 1.0

Purpose:

This document specifies the information that is required for registration of devices that are to connect to the ATN environment within the Region.

Contents:

Subjects covered by the document:

- Registration of NSAP Addresses for ATN Routers and ATN End-System.
- Registration of Communication Circuits for ATN Routers and ATN End-Systems.

3.16 Guidance Material for Ground Elements in ATN Transition

Title:

Guidance Material for Ground Elements in ATN Transition.

Latest Version: 2.0**Purpose:**

This document contains guidance material for ATN transition planning within the ASIA/PAC region.

Contents:

Subjects covered by the document:

- ATN overview
 - Ground-ground service components.
 - Air-ground service components.
 - ATN security service.
 - ATN system management.
 - ATN directory.
- Planning Issues to be considered
 - ATM operational concept.
 - Transition planning.
 - Implementation planning.
 - Proposed regional planning activities for transition.
 - Proposed State planning activities for transition.
- Guidance material for ground based elements
 - Integration of new and existing infrastructure.
 - Message service definition, benefit and procedure in inter-domain operation.
 - Guidance for administrative domain definition.
 - Guidance for architectural design of ATN ground elements.
 - Connection for inter-domain operation and guidance material.
 - Identification of traffic type, quality of service with respect to inter-domain operation.
 - Performance issues of reliability, maintainability, and reliability with respect to inter-domain operation.
 - Transition paths and transitional procedure in inter-domain operation.
 - Cost analysis of ATN ground elements in transitional development for inter-domain operation.
 - ATN security solution.

3.17 AMHS ICD

Title:

ICD for ATS Message Handling System (AMHS) in Asia/Pacific Region

Latest Version: 1.0**Purpose:**

This ICD has been developed in order to facilitate interoperability between States in the deployment of AMHS within the ASIA/PAC region.

Contents:

Subjects covered by the document:

- AMHS functions.

- Network configuration.
- Protocol specification overview.
- AMHS specifications.
- Upper layer specifications.
- Lower layer specifications.
- AHMS PICS.

3.18 Facilities and Services Implementation Document (FASID)

Title:

Facilities and Services Implementation Document.

Latest Version: To be advised.

Purpose:

This document contains elements of Part IV, CNS of the ASIA/PAC FASID.

Contents:

Subjects covered by the document:

- Table 1A, AFTN/Data Circuit Plan.
- Table 1B, ATN Router Plan.
- Table 1C, ATSMHS Routing Plan.
- Table 1D, AIDC Circuit Plan.