

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL

Working Groups 1 and 2

San Diego, California , USA 17 - 28 October 1994

**Draft ATN Standards and Recommended
Practices (SARPs) and Guidance Material (GM):
Version 0.0**

Prepared by F. Colliver

SUMMARY

This paper presents to the ATNP Working Groups Version 0.0 of the Draft ATN Standards and Recommended Practices (SARPs) and Guidance Material, as developed from the Second Edition of the ICAO ATN Manual. This document is technically aligned with the ICAO ATN Manual, but incorporates certain editorial enhancements, including the explicit identification of requirements contained in the draft ATN Requirements Database.

REVISION HISTORY

Section	Date	Issue	Reason for Change
	12 October 1994	Issue 1.0	Document Creation

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1. Introduction

This paper presents to the ATNP Working Groups Version 0.0 of the Draft ATN Standards and Recommended Practices (SARPs) and Guidance Material, as developed from the Second Edition of the ICAO ATN Manual.

2. Description of the Document

2.1 Technical Status

This document is technically aligned with the ICAO ATN Manual, but incorporates certain editorial enhancements, including the explicit identification of requirements contained in the draft ATN Requirements Database. This document is also in alignment with Version 0.0 of the ATN Requirements Database.

2.2 Editorial Structure

The native format for this document is Microsoft Word for Windows 6.0, and files containing the document in this format are available on the CENA ATN Validation Server for public access to the ATN community. Instructions for document retrieval are documented in ATNP WG/1-WP/35.

When viewed in native format, text segments related to SARPs and Guidance Material are separately color-highlighted, to facilitate the observation of requirements text within the overall text derived from the ATN Manual.

Each requirement is also tagged with a database identifier that can be used to correlate requirements text with individual database requirements entered in the ATN Requirements Database. These tags are entered as hidden text, which can be viewed or suppressed, as desired, when viewed in native format. Additionally, the tags can be either present or absent, as desired, when printed in native format.

2.3 Document Evolution

This document forms the technical basis for the ICAO ATN validation process. However, during the recent ATN Panel evaluation of the ICAO ATN Manual (Second Edition), certain typographical and semantic errors were discovered in the source document (Draft ATN Manual, dated 19 November 1993) with respect to the ICAO publication. Thus, Version 1.0 of this document has been identified as the target for resolution of these differences, and will be produced as soon as possible. At the time that the Version 1.0 update is produced, it will be made publicly-available on the validation archive in the same manner as Version 0.0.

Future versions (i.e. versions following 1.0) will be produced and archived as a result of the validation process, as described in ATNP WG/1-WP/35.

It is expected that future versions will be updated using a change page approach.

3. Conclusions and Recommendations

It is recommended that the Working Groups accept the attached draft SARPs and Guidance Material document as a baseline for the validation process.

**Draft Aeronautical
Telecommunication Network (ATN)
Standards and Recommended
Practices (SARPs) and Guidance
Material**

Version 0.0

30 August 1994

Foreword

In January 1989, the Air Navigation Commission (ANC) expanded the terms of reference of the Secondary Surveillance Radar Improvements and Collision Avoidance Systems Panel (SICASP) to include the development of ICAO material as necessary to permit, to the maximum extent practicable, systems commonality and interoperability between ATS data links, including satellite data links.

The task emerged from the work of the Special Committee on Future Air Navigation Systems (FANS) which emphasized the need for the interchange of digital data over dissimilar aeronautical data links. The committee also recommended that the principles of the International Organization for Standardization (ISO) open systems interconnection (OSI) architecture be applied in developing aeronautical data links in order to provide for their interoperability.

Subsequent studies undertaken by the SICAS Panel resulted in the concept of the aeronautical telecommunication network (ATN) which is intended to support computer-to-computer communications operated by civil aviation authorities and aeronautical operating agencies. At its fourth meeting, the SICAS Panel developed a description of the ATN and recommended it be published as an ICAO manual. The first edition of the manual was published in 1991, and the second edition was subsequently developed by the SICAS Panel and recommended for publication at the fifth meeting of the panel, and is expected to be published by ICAO during 1994. The development of the ATN continues with the objective of recommending Standards and Recommended Practices (SARPs) and Guidance Material for the ATN during 1996, for inclusion in Annex 10 at that time.

Following the completion of the work on the ATN Manual (Second Edition) by the SICAS Panel, the Air Navigation Commission transferred the work of developing SARPs and Guidance Material to the ATN Panel (ATNP). This document contains these draft SARPs and Guidance Material, as derived from the material in the ATN Manual (second edition) by the ATN Panel. This document will be maintained and updated by the ATNP during the development and validation of these draft SARPs and Guidance Material, resulting in validated material expected for recommendation to the ANC during 1996. During this period, this document and its change history will be available to all interested parties.

Please note that the material in this document contains references to the documents of the International Organization for Standardization (ISO) and the International Telecommunication Union (ITU). In using these documents, due attention should be given to their publication dates as shown on the list of references reproduced at the end of the manual.

