

**AERONAUTICAL TELECOMMUNICATIONS NETWORK PANEL**

**ATN Internet Working Group (WG2)**

**7th Meeting**

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**South Brisbane, Australia**

**Proposed Changes to "Foreword" of Sub-Volume V.**

(Presented By Akhil Sharma)

**Summary**

This WP proposes a number of detailed editorial changes to the "Foreword" of Sub-Volume V, primarily to include information related to the "CNS\ATM-1" Package.

# 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, (March 1989), 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, (November 1993), and is expected to be published by ICAO during 1996. 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 for the ATN to the ATN Panel (ATNP). At its first meeting, (ATNP/1, June 1994), it was agreed that the ATNP develop draft SARPs & guidance material for the "CNS/ATM-1 Package" which was to include the technical provisions for the internet, the upper layers and a limited set of initial air/ground and ground/ground applications in order to define the initial operational implementation of the ATN. This document, "Sub-Volume V" of the "CNS/ATM-1 Package" -contains these draft SARPs and Guidance Material for the Internet (i.e. network & transport layers) component of the ATN, as derived from the material in the ATN Manual (second edition) by the ATN Panel Working Group 2 (WG2). Sub-Volume 1 contains introductory material to the CNS/ATM-1 Package, and additionally "system level" provisions applicable to the Package as a whole. Sub-Volume II contains provisions for the initial set of air/ground applications i.e. Automatic Dependent Surveillance (ADS), Controller Pilot Data Link Communications (CPDLC), Flight Information Services (FIS) & Context Management (CM). Sub-Volume III contains provisions for the initial set of ground/ground applications i.e. Inter-Centre Communications (ICC) and Aeronautical Message Handling Service (AHMS). Sub-Volume IV contains provisions for the Upper Layer Architecture (ULA) to be supported by CNS/ATM-1 compliant End Systems.

This document will be maintained and updated by the ATNP WG2 during the development and validation of these draft SARPs and Guidance Material, resulting in validated material expected for recommendation to the ANC at ATNP/2 in November 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.

