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**Interoperability Requirements Standard for
Aeronautical Telecommunication Network
Baseline 1
(ATN B1 Interop Standard)**

**Volume 1 of 2
Sections 1 – 4**

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FOREWORD

This document was jointly prepared by Special Committee 189 (SC-189) and the European Organization for Civil Aviation Equipment (EUROCAE) Working Group 53 (WG-53) and approved by the RTCA Program Management Committee (PMC) on June 26, 2007.

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- analyzing and recommending solutions to the system technical issues that aviation faces as it continues to pursue increased safety, system capacity and efficiency;
- developing consensus on the application of pertinent technology to fulfill user and provider requirements, including development of minimum operational performance standards for electronic systems and equipment that support aviation; and
- assisting in developing the appropriate technical material upon which positions for the International Civil Aviation Organization and the International Telecommunications Union and other appropriate international organizations can be based.

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1 INTRODUCTION

This document provides the interoperability requirements (INTEROP) standard for the initial implementation of the aeronautical telecommunication network (ATN), henceforth referred to as ATN Baseline 1. These interoperability requirements are based on a subset of the International Civil Aviation Organization (ICAO) Manual of Technical Provisions for the ATN (ICAO Doc 9705-AN/956). In this document, this ICAO manual is referred to as Doc 9705.

This document was developed in accordance with the criteria for INTEROP standards set forth in RTCA DO-264/EUROCAE ED-78A, “Guidelines for Approval of the Provision and Use of Air Traffic Services Supported by Data Communications”. This document represents the minimum set of interoperability requirements and allocations necessary to provide adequate assurance that the elements of the communication, navigation, and surveillance/ air traffic management (CNS/ATM) system are compatible with each other and when operating together will perform their intended function. These elements comprise the aircraft system, the air traffic service provider (ATSP) system, and the operator’s provisions to use the air traffic services. The ATSP system and the operator’s provisions may include third party or contracted communication services. The communications services include ATN-compliant subnetworks and the ATN internet communications service.

1.1 Purpose

The purpose of this document is to define the set of requirements for the interoperability aspects of ATN Baseline 1 systems. It is intended for use in conjunction with a consistent safety and performance requirement standard, other INTEROP standards, and the guidelines described in DO-264/ED-78A for each approval type associated with the elements of the CNS/ATM system.

Note: Based on ED-78A/DO-264, INTEROP and SPR standards provide recommendations intended for government organizations, conference of governments, or agencies having statutory jurisdiction over the use and provision of air traffic services supported by data communications. These recommendations are for use by such government organizations to enunciate official policy, related to such matters, in aeronautical information publications (AIPs), notices to airmen (NOTAMs), airplane flight manuals (AFMs), and operator specifications.

1.2 Scope

The scope of this document is ATN Baseline 1. ATN Baseline 1 includes a subset of ATN applications that support the following air traffic services (ATS):

- Data Link Initiation Capability (DLIC);
- ATC Communication Management (ACM);
- ATC Clearance (ACL);