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**SAFETY AND PERFORMANCE REQUIREMENTS STANDARD
FOR AIR TRAFFIC DATA LINK SERVICES IN
CONTINENTAL AIRSPACE
(CONTINENTAL SPR STANDARD)**

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FOREWORD

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1

INTRODUCTION

This standard provides the operational, safety, and performance requirements (SPR) for the implementation of data link services that support air traffic services (ATS) in continental airspace. It is intended to support the implementation of communication, navigation, and surveillance / air traffic management (CNS/ATM) systems in worldwide application.

This document was developed in accordance with the criteria for SPR 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." It provides the minimum operational, safety, and performance requirements and allocations based on the results of a coordinated requirements determination process, which includes an operational services and environment information capture, operational safety assessment (OSA), and an operational performance assessment (OPA). As part of the coordinated requirements determination process, these requirements were validated based on operational experience, simulations and analyses. A summary can be found in Appendix B. These requirements are necessary to provide adequate assurance that the elements of the CNS/ATM system, when operating together, will perform their intended function in an acceptably safe manner.

Figure 1-1 provides an overview of the CNS/ATM system and its elements. These elements comprise the aircraft system, the air traffic service provider (ATSP) provisions, and the operator's provisions to use the data link services. The ATSP and the operator's provisions may include third party or contracted communication services, but this standard does not provide any individual requirements for them; requirements may be derived from ATSP requirements.

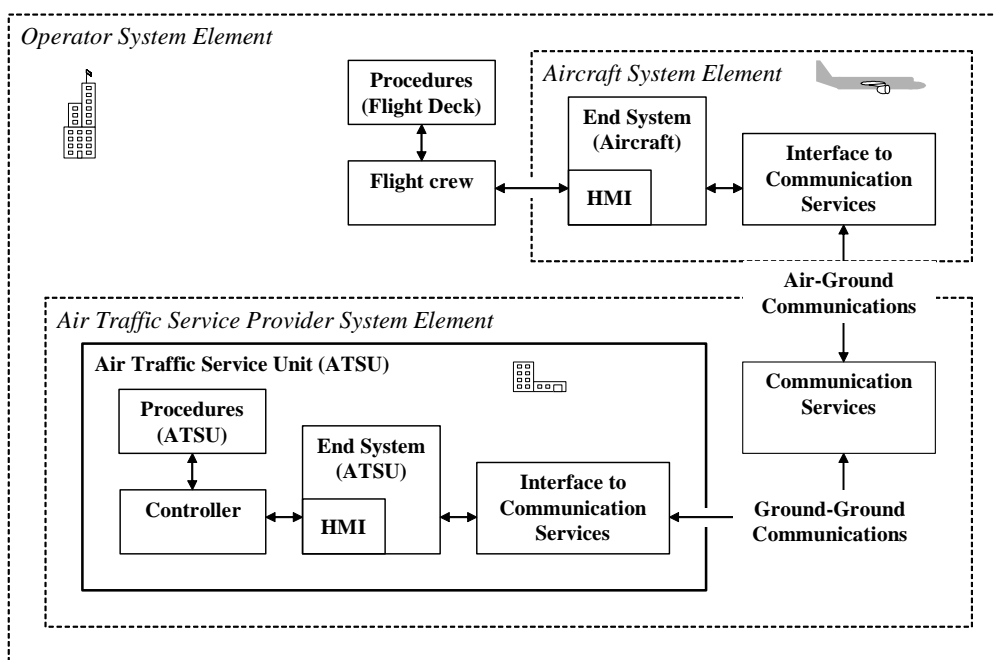


Figure 1-1: Overview of the CNS/ATM system