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**Minimum Aviation System Performance
Standards for Automatic Dependent Surveillance
Broadcast (ADS-B)**

RTCA DO-242A
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Prepared by: SC-186
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FOREWORD

This report was prepared by Special Committee 186 (SC-186) and approved by the RTCA Program Management Committee (PMC) on June 25, 2002. This document (RTCA/DO-242A) supersedes and replaces its first edition (RTCA/DO-242, dated February 19, 1998).

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1 Purpose and Scope

1.1 Introduction

This document contains Minimum Aviation System Performance Standards (MASPS) for Automatic Dependent Surveillance-Broadcast (ADS-B). These standards specify operational characteristics that should be useful to designers, manufacturers, installers, service providers and users of an ADS-B system intended for operational use on an international basis. This document provides a view of the system-wide operational use of ADS-B, but does not describe a specific technical implementation or design architecture meeting the operational and technical characteristics defined herein.

The diagram in [Figure 1-1](#) shows the relationships between the ADS-B MASPS and other SC-186 documents, such as the ASA MASPS and the 1090 MHz extended squitter (1090ES) Link Minimum Operational Performance Standards (MOPS). [Figure 1-1](#) also shows the functions under the auspices of SC-186 and those functions outside the scope of SC-186. The ADS-B MASPS accepts system level requirements allocated to the ADS-B link function and derives lower level link specific requirements allocated to the various link subsystems MOPS documents.

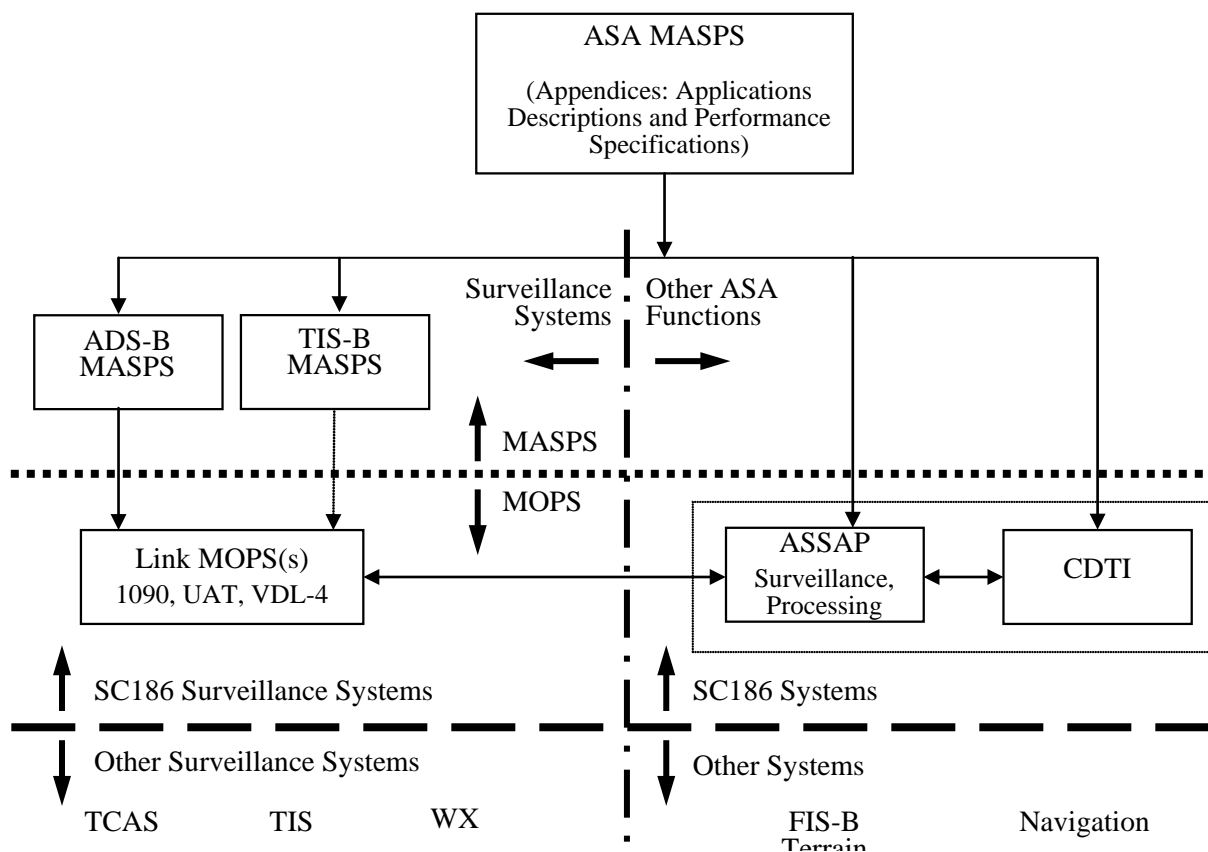


Figure 1-1: Relationship Between ADS-B MASPS And Other SC-186 Documents