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Minimum Operational Performance Standards (MOPS) for Flight-deck Interval Management (FIM)

Note: Since the FIM operational concept is still in development and trials, the FAA is not intending to recognize this document under the Technical Standard Order (TSO) program at this time. However, the FAA may consider citing this MOPS for use by legacy (e.g. non-integrated) aircraft in the future.

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FOREWORD

This document was prepared by Special Committee 186 (SC-186) and was approved by the RTCA Program Management Committee (PMC) on September 22, 2015

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1 PURPOSE AND SCOPE

1.1 Introduction

This document was prepared jointly by RTCA Special Committee 186 (SC-186) and EUROCAE Working Group 51 (WG51). This document contains the Minimum Operational Performance Standards (MOPS) for the Flight-deck-based Interval Management (FIM) application building upon the MOPS for the *Aircraft Surveillance Applications (ASA) System*, RTCA DO-317B/EUROCAE ED-194A. Because of the length and complexity of the additional requirements for the FIM application, they are included in this separate document. The FIM application requirements in this document are assumed to be integrated in an ASA System that is compliant with all requirements related to the Basic Airborne Situational Awareness (AIRB) application, which is defined in the ASA MOPS, DO-317B / ED-194A, unless explicitly stated otherwise.

Note: *During FIM operations, the AIRB application may be required to be shown on the Traffic Display to facilitate pilot monitoring.*

1.2 System Overview

The ASA System provides the avionics for surveillance processing and display of ADS-B based aircraft-to-aircraft applications. It is part of the larger aviation system originally described in the MASPS for ASA (RTCA DO-289), and later updated in the *ADS-B Traffic Surveillance Systems and Applications MASPS*, RTCA DO-338. ASA System avionics functions necessary to support or perform the FIM application were approved by RTCA SC-186 and EUROCAE WG-51, in the ASA MOPS, DO-317B / ED-194A, and in the *Safety, Performance and Interoperability Requirements (SPR) Document for Airborne Spacing - Flight Deck Interval Management (ASPA-FIM)*, [DO-328()/ED-195()].

1.2.1 Aircraft Surveillance Applications

The Aircraft Surveillance Applications are described in the ASA MOPS, DO-317B / ED-194A, §1.2.1.

[Figure 1-1](#) provides an overview of the standard ASA architecture and depicts the Interfaces between functional elements for an ASA aircraft participant.