



ICAO

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North American, Central American and Caribbean Office

WORKING PAPER

E/CAR/NTG/8 & E/CAR/RD/6 — WP/17
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**Eighth Eastern Caribbean Network Technical Group (E/CAR/NTG/8) and
Sixth Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/6)**
Saint George's, Grenada, 3 - 5 September 2018

Agenda Item 7: Other Business

ADDITIONAL COMMUNICATIONS REQUIREMENTS FOR AIM/SWIM IMPLEMENTATION

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This working paper presents information to be taken into account in order to promote communications systems that support future aviation services.	
Action:	The suggested actions are presented in Section 3.
Strategic Objectives:	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
References:	<ul style="list-style-type: none">• Thirty Third MEVA Technical Management Group Meeting (MEVA/TMG/33) Willemstad, Curaçao, 29 - 31 May 2018• Aeronautical Information Management (AIM) Implementation Task Force Meeting (AIM/TF/2), Miami, United States, 20 August 2018• Fourth NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/4), Miami, United States, 21 – 24 August 2018

1. Introduction

1.1 In accordance with the air traffic statistical analysis, it is expected that for 2034, the current aviation operations will be duplicated, this new challenge demands a more complex air traffic control to satisfy security and efficiency needs demanded by aviation.

1.2 The Global Air Navigation Plan (GANP) (Doc 9750), the Aviation System Block Upgrades (ASBUs) and the Global Air Traffic Management Operational Concept (Doc 9854); present a technology implementation perspective and the vision of an interoperable global system of air traffic management during all phases of flight.

1.3 AIM, SWIM, ATFM, Meteorological radar data and other demand a communication channel with a high performance, high availability and safe.

1.4 AFTN and AMHS systems not only transport aeronautical information, also information to allow automatization between ATC system, which means that systems provide information for making decisions based on real information and improving situational awareness.

1.5 There are other regional needs, as to count with backup communication channels, take care of cybersecurity, increase channel communication bandwidth and other.

1.6 The Manual on the Air Traffic Management System Requirements (Doc 9882) identifies the SWIM implementation as a requirement for the next ATM system and the Manual on System Wide Information Management (SWIM) Concept (Doc 10039), provides a vision for the management of interoperable global information while addressing the transition to a mixed operational environment.

1.7 Annex 19 – Safety Management provides the qualities that the information must have regarding quality and flight safety.

2. Discussion

2.1 It is necessary that Eastern Caribbean States make an analysis about their current and future communications needs and integrate these needs on a regional approach that allows implementing and integrating a new network within an IP-based ATN network, which complies with availability requirements, security, efficiency and low cost.

3. Suggested actions

3.1 The meeting is invited to:

- a) take note of the information provided; and
- b) agree to any other actions as deemed appropriate.