



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

AMHS Implementation Gap Analysis

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AMHS System Implementation



**REGIONAL PERFORMANCE OBJECTIVE – B0-25/FICE:
Increased Interoperability, Efficiency and Capacity through
Ground-Ground Integration**

**Performance Improvement Area 2:
Globally Interoperable Systems and Data – Through Globally
Interoperable System Wide Information Management**

3. ASBU B0-25/FICE: Impact on Main Key Performance Areas (KPA)

	Access & Equity	Capacity	Efficiency	Environment	Safety
Applicable	N	Y	Y	N	Y

AMHS System Implementation



4. ASBU B0-25/FICE: Planning Targets and Implementation Progress

5. Elements	6. Targets and implementation progress (Ground and Air)
MEVA III IP Network implementation	100% implementation, August 2015
AMHS implementation	6 States by December 2014
AIDC implementation	5 AIDC communications by December 2014
ATN router structure implementation	70% by June 2016

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7. ASBU B0-25/FICE: Implementation Challenges

Elements	Implementation Area			
	Ground System Implementation	Avionics Implementation	Procedures Availability	Operational Approvals
MEVA III implementation	Local site readiness	NIL	NIL	NIL
Full AMHS operation and transition from AFTN	Training and funding issues	NIL	Update procedures	NIL
AMHS interconnection	Network bandwidth availability and last mile connection	NIL	NIL	NIL
Implement AIDC	Training and funding issues	NIL	Update procedures	NIL

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8. ASBU B0-25/FICE: Performance Monitoring and Measurement

8A. ASBU B0-25/FICE: Implementation

Elements	Performance Indicators/Supporting Metrics
MEVA III IP Network implementation	Indicator: Percentage of MEVA Members implemented in MEVA III Supporting metric: MEVA III Services contracted implemented
AMHS implementation	Indicator: Percentage of States with AMHS interconnected with other AMHS Supporting metric: Number of AMHS interconnections implemented
AIDC implementation	Indicator: Percentage of ATS units with AIDC Supporting metric: Number of AIDC systems installed
ATN router structure implementation	Indicator: Percentage of ATN infrastructure implemented Supporting metric: Number of ATN routers implemented in accordance to CAR/SAM FASID Table CNS 1Ba

AMHS System Implementation

6. OPTIMIZATION AND MODERNIZATION OF COMMUNICATION INFRASTRUCTURE

Benefits

Efficiency	<ul style="list-style-type: none"> • Improvements in ATS coordination • Increase availability of communications • Avoid misunderstandings in communications • Facilitate the utilization of advanced technologies
Continuity	<ul style="list-style-type: none"> • improvement of airspace interoperability and seamlessness; and • allow improvements to the provision of air traffic control services to all aircraft operations.
Safety	<ul style="list-style-type: none"> • Improvement in safety in airspaces and aerodromes

Strategy

ATM Component	TASK DESCRIPTION	START-END	RESPONSIBLE	STATUS
AO, TS, CM, AUO AOM, SDM	c) Develop Regional ATN Planning documents	2013-2015	GREPECAS	Válida
	d) Coordination and testing of ATN G-G Application implementation aspects (AMHS, AIDC, etc.)	2013-2018	States, Territories	Valid
	f) Technical review of Regional Telecommunication networks for ATN implementation	2013-2015	States, Territories	Valid
	m) Training in the application and implementation of advanced communication related technologies and ATN	2013-2018	States, Territories	Valid



ATN/AMHS Regional IMPLEMENTATION Issues

ICAO NACC Office Regional Website:

AMHS common References:

<http://www.icao.int/NACC/Pages/docs-cns.aspx>



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Content: ICAO > North American, Central American and Caribbean Regional Office (NACC) Office > CNS - Communications, Navigation and Surveillance

Section: **CNS - Communications, Navigation and Surveillance**

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AMHS

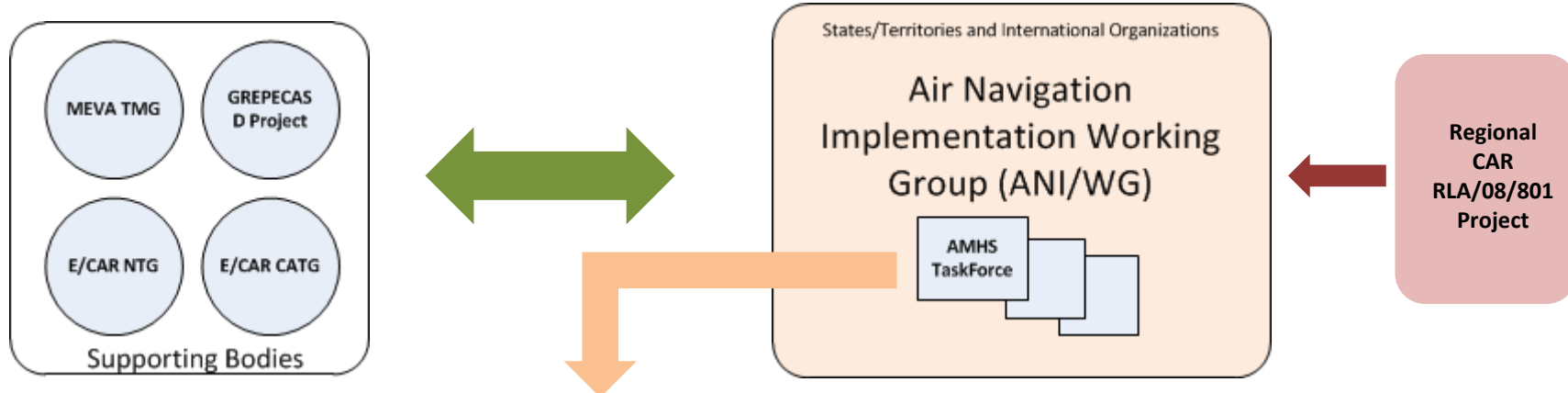
Subject	Language
CAR-AMHS ImplementationPlan	en
CAR Regions AMHS Implementation Matrix	en
AMHS Interoperability Test Plan v1.0	en
AMHS Implementation Workshop Web Page	Link
List of participants Web	en
Draft Technical Letter of Agreement for AMHS	en
1st Teleconf Meeting for AMHS Implementation	en
FAA Transition Process	en
ATS Messaging Management Centre (AMC) Users Training Including AMC Phase 2 functions	en

Regional Groups

Links to Regional Groups and Regional Documents
CAR/SAM Regional Planning and Implementation Group (GREPECAS)
Regional Aviation Safety Group – Pan America (RASG-PA)
Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA)
MEVA Technical Management Group (MEVA TMG)
NAM/CAR Air Navigation Implementation Working Group (ANI/WG)
Haiti Civil Aviation Steering Committee (Haiti CASC)
NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (NAM/CAR RPBANIP) Version 2.0, May 2011

ATN/AMHS Regional IMPLEMENTATION Issues

NAM/CAR Implementation supporting and implementing Bodies



Task Force Member- Name:	State/T/IO
Carlos Jimenez Guerra	Cuba
Carmen Dearmas	
Jean Baptiste Getrouw	Curacao
Fernando A. Casso	Dominican Republic
Raul van Heyningen	Sint Maarten
Veronica Ramdath	Trinidad-Tobago
Randy Gomez	
Emmanuel Rigby	Turks and Caicos Islands
Dulce M. Rosés (Rapporteur)	United States
Mayda Avila	COCESNA
Eduardo Vega	
Roger Pérez	

NAM/CAR Regional Performance-based Air Navigation Implementation Plan (RPBANIP)

AMHS TaskForce Responsibilities:

- a) Work Programme Management
- b) Coordination, implementation and trials of ATN ground applications/AMHS implementation (AMHS Regional Plan)
- c) Revising and updating the IPv4 address plan and other CAR Region technical implementation issues in accordance with ICAO technical principles and guidelines

III AMHS Workshop Objectives



Discuss AMHS Implementation Limitations and Concerns to Decide Actions And Agreements to Streamline the Implementations.



AMHS System Implementation Gap Analysis



- ✓ identify operational/technical requirements and implementation aspects – interfaces and configuration
- ✓ AMHS knowledge and network design
- ✓ AMHS and IP Addressing scheme
- ✓ Requirements and framework for bilateral agreements for between States

AMHS System Implementation Gap Analysis



- ✓ Discussion of schedule activities and agreements on dates for trials
- ✓ Assistance for design/guidance
- ✓ training needs
- ✓ Communication requirements analysis
- ✓ Operational issues and coordination.



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Southern African
(ESAF) Office
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(APAC) Office
Bangkok

Thank You

A world map is shown in a light blue color. Eight colored dots (one orange for Montreal, seven blue for other offices) are placed on the map. Lines connect these dots to their respective office names listed above. A large, rounded rectangular box with a grey-to-white gradient background and a dark blue border is centered over the map, containing the text "Thank You" in a bold, dark blue font.