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Agenda

- **★NAM/CAR ICAO NACC Regional office.**
- **★**Frequency Assignment CAR region
- **★MEVA Network**
- **★NAM/CAR State Strategy to Support ICAO Position**
- **★**Future Challenges













Aruba (Netherlands) Aruba





















Guatemala

Nicaragua Nicaragua







Montserrat (UK)

Saint Lucia Santa Lucia

Saba (Netherlands)

Saint Kitts and Nevis San Kitts v Nevis

Curacao (Netherlands)











San Bartolomé

Islas Vírgenes Británicas

Grenada Grenada























★ 19 Territories

★ 26 Civil Aviation Authorities (CAAs)

★ 44 Flight Information Regions (FIRs)

★ 29 FIRs in NAM

★ 15 FIRs in CAR



Saint Vincent and the Grenadines

San Vicente y las Granadinas

Sint Maarten (Netherlands) Sint Maarten





Islas Vírgenes, Puerto Rico





Radio Frequency Assignment Lists - CAR Region

A -	List 1	List of Facilities Operating on Frequencies in the LF/MF Band (190-1750 kHz) -
	List 2	Record of VHF Frequency Assignments to Caribbean VOR and ILS Radio Navigation Aids -
	List 3	List of Frequency Assignments in the Band 117.975 - 137.000 MHz -

www.icao.int/NACC/Pages/frequency.aspx





COM List Explanatory Information

COM List 1

COM List 2

COM List 3

★ https://www.icao.int/NACC/Documents/frequencies/Int_List1A.pdf







CAR/SAM Air Navigation Plan References

Planning Principles for the Aeronautical Radio Navigation Aids

AM(R)S Planning Principles

VHF Band Geographical Separation Criteria

AM(R) VHF Sub-Bands Allotment Table

Regional Assignment of Interrogator Identifier (II) Codes







MEVA NETWORK TECHNICAL GROUP

TMG



Introduction

Since 1992 The Caribbean States and territories agreed to implement new technology to help increase the safety and regularity of operations through the implementation of a common telecommunication network called the MEVA Network: Mejoras at Enlace de Voz del ATS (MEVA—Spanish equivalent of Improvements to ATS Voice Link). These improvements were put in place to improve the Regional reliability of the Aeronautical Fixed Services (AFS) telecommunications service. This regional network was upgraded in November 2006 becoming the MEVA II Network. The analyzing and evaluation of the MEVA Network performance is carried out by the MEVA Network Technical Group, composed by experts from each of the MEVA Members and assisted by ICAO.

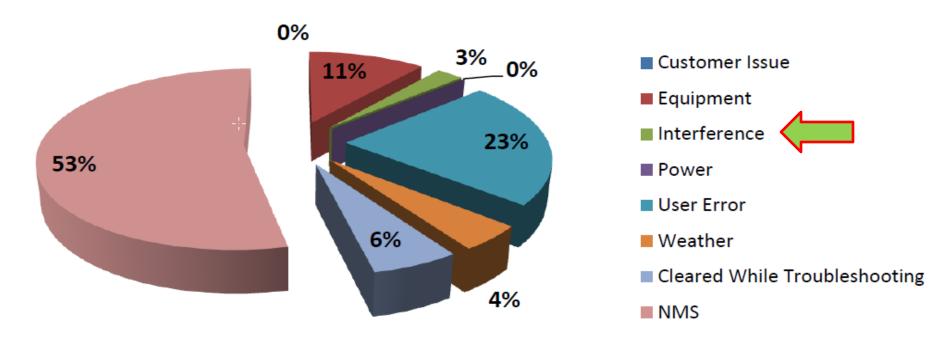
Membership







RFO Breakdown







ICAO Position for the International Telecommunication Union World Radiocommunication Conference 2019 (ITU WRC-19)

- 5.2 It is important that States and International Organizations providing air traffic control services analyse the ITU WRC-19 agenda to ensure:
 - that the radio frequency spectrum that is required to meet current and future demand for communications, navigation and surveillance services will be available.
 - 2. opposition to the reassignment of frequencies currently used for aeronautical services.
 - 3. that ITU has carried out the necessary studies to support the proposed changes and that States ensure that these changes do not affect communications for air traffic services. In this regard, States should support ICAO's position on this agenda.
 - 4. that search and rescue services are not affected.
 - 5. that frequency bands are identified for the future development of International Mobile Telecommunications (IMT) that could impact aviation systems.
 - 6. that the proposed changes do not affect the servicing of aviation systems in the frequencies of 5150-5250 MHz, 5350-5470 MHz, 5850-5925 MHz.
 - that the assignment of the international, national, air-ground, air-to-air, frequency bands of navigation systems and bands already assigned for future aeronautical development are not affected.







CONCLUSION
MEVA TMG/32/11

ACTIONS BEFORE THE ITU WORLD RADIOCOMMUNICATION CONFERENCE 2019 (WRC-19)

That, ICAO and the MEVA TMG carry out an action plan to ensure that States develop the protection of frequencies necessary in their territories to maintain current and future aeronautical services before the ITU World Radiocommunication Conference 2019, to be presented at and followed-up by the MEVA/TMG/33.







Strategy to Support ICAO Position NAM/CAR Region

The plan should contain at least the following activities:

- Each State shall communicate to the national entity information on the necessary frequencies used for civil aviation, ensuring its protection at the national level before December 2017 and report the action to ICAO.
- Encourage the participation at the national level of a representative at the ITU 2019 assembly, to ensure the protection of aeronautical frequencies.





Strategy to Support ICAO Position NAM/CAR Region

- Support the proposal made by ICAO to ensure that frequencies are available for air navigation services.
- Each State follow up the protection of the aeronautical frequencies in their own countries and report ICAO in the next MEVA meeting of the actions that they did to support the protection of aeronautical frequencies.







Frequencies challenges in NAM/CAR region



- Update the database information of all frequencies in operation in the different States.
- Work closing with the Civil Aviation Authority to ensure the protection of the frequencies need for the current and future aeronautical services.
- **★** Development the future phase of the MEVA network to ensure the available of the future communication to support new services for the NAM/CAR region, Integrate national, regional and global requirements.
- To ensure the implementation of the ICAO NACC Strategy "No Country Left Behind" in our planning.

Air Traffic Control





Strategies for the incorporation of new data and new requirements.

Be proactive!

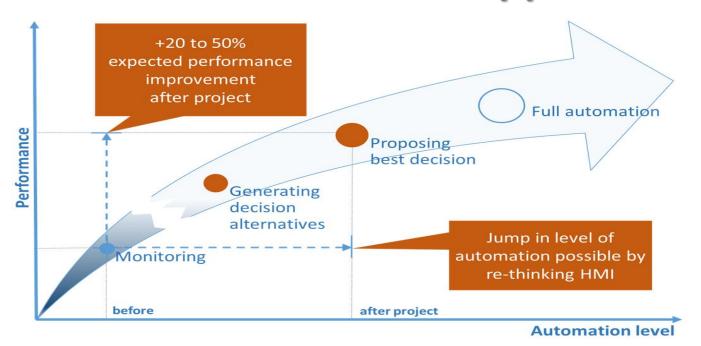
Incorporation of ADS-B satellite data in surveillance process







Automated decision support tools







New generation of communication systems



Data Communications

Data Comm is a program aimed at transitioning from an analog voice system of communication between controllers and pilots, to digital communication system.





NO COUNTRY LEFT BEHIND



