



ICAO

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WORKING PAPER

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Thirtieth MEVA Technical Management Group Meeting (MEVA/TMG/30)
Oranjestad, Aruba, 27 to 29 May 2015

Agenda Item 5: World Radiocommunication Conference (2015) (WRC-2015) Activities

**MEVA TMG PENDING ACTIVITIES REGARDING ICAO POSITION FOR THE
INTERNATIONAL TELECOMMUNICATION UNION (ITU) WORLD
RADIOCOMMUNICATION CONFERENCE (WRC-2015)**

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This working paper recalls the States support for the ICAO position for WRC-2015, particularly focus for the follow-up to the agreed MEVA TMG pending actions with the registration and notification of Interferences.	
Action:	The suggested actions are detailed in Section 3.
Strategic Objectives:	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
References:	<ul style="list-style-type: none">• Electronic Bulletin Ref: E 3/5. 15-13/57, ICAO Position for the ITU WRC-15, 2 July 2013.• Twenty-sixth MEVA Technical Management Group Meeting (MEVA TMG/26) ICAO NACC Regional Office, Mexico City, Mexico, 4 to 7 June 2013• Twenty-ninth MEVA Technical Management Group Meeting (MEVA/TMG/29), Mexico City, Mexico, 9 to 12 December 2014

1. Introduction

1.1 States and Territories adopted the ICAO Twelfth Air Navigation Conference Assembly Recommendation 1/12 (*Development of the aeronautical frequency spectrum resource*) and Assembly Resolution A38-6 (*Support of the ICAO policy on radio frequency spectrum matters*), urging Member States, international organizations and other civil aviation stakeholders to firmly support the ICAO frequency spectrum strategy and the ICAO position at WRCs and in regional and other international activities conducted in preparation for WRCs.

1.2 ICAO submitted the ICAO position as approved by the ICAO Council through electronic bulletin, Ref: E 3/5. 15-13/57, dated 2 July 2013.

2. Discussion

2.1 ICAO and the NAM/CAR Regions have expressed their support to this position through the different Regional Implementation groups, MEVA Meetings and ICAO events, undertaking several activities for assisting the States for this support, including the participation in the Interamerican Commission of Telecommunication CITELE meetings; Direct coordination with designated States Points of Contact (PoCs) and keeping the Regional Frequency Assignment List available for States and general public: ICAO Website: <http://www.icao.int/NACC/Pages/frequency.aspx>.

2.2 During the MEVA Meetings, and specifically MEVA TMG/26, ICAO highlighted the recommendation of the Regional Preparatory Workshop for ITU noting the importance of protecting the C-band in context with WRC-15 Agenda item 1.1 (the mobile industry is looking for over 1000 MHz of additional spectrum between 300 – 5000 MHz), and that all interference cases to aeronautical VSAT must be duly recorded and documented for appropriate presentation within the ITU-R and WRC process when discussing future use and access of the Fixed Satellite-based Services (FSS) C-band; providing several studies and other information to ensure protection of the C-band for aeronautical purposes, reaching agreement such as CONCLUSION 26/21 (shown in **Appendix A** for ease of reference).

2.3 Similarly, during the MEVA TMG/29 Meeting, ITU provided guidance and assistance for the notification and record in the ITU Master International Frequency Register (MIFR) of the Earth Stations of the MEVA Network located in the Caribbean and Central American region, in order to obtain an international recognition and protection of these frequency assignments operating in C- band, highlighting the activities of the ITU Radiocommunication Bureau:

- Submission of State Letters (29 and 30 July 2014) with a set of minimum parameters required to coordinate the earth stations) to Administrations in the Caribbean and Central America Region with the aim to provide special assistance under Article 7 of the Radio Regulations to those Administrations facing difficulties to proceed with the coordination and notification of their earth stations.
- Conduction a study to identify the coordination area and potentially affected Administrations for each MEVA earth stations, results of this study were presented to the MEVA Members, as well as a consolidation of the results (<http://www.itu.int/ITU-R/go/space-preface/en>) indicating the Administrations with which Coordination is Required (see **Appendix B**)

2.4 Also ITU presented the suggested 3 follow-up steps to facilitate the process of coordination and notification of the involved earth stations:

- a) collect all the necessary parameters associated to the earth stations and associated satellite networks based on Appendix 4 of the Radio Regulations;
- b) identify coordination requirements and to complete coordination among concerned Administrations; and
- c) for Administrations having jurisdiction over the earth stations, to notify the earth stations to ITU.

2.5 The MEVA Members thanks ITU for this guidance and due to all of the above Conclusion MEVA TMG/29/15 was agreed.

2.6 The participation of the Civil Aviation Authorities from the CAR Region has been very low in the different CITEL Meetings with no one from Aviation participation in the last CITEL Meeting in Medellin. The last remaining CITEL meeting is scheduled for August 2015 in Ottawa (XXVI PCC.II). Similarly no information has been provided by the MEVA Members on the ITU Process for the register of the MEVA nodes.

2.7 COMSOFT is planning to move by 2 June the MEVA III network to the final carrier configuration (8-PSK), in which the final frequencies will be configured in coordination with Intelsat

2.8 The ICAO Position will be reviewed by mid-June 2015 introducing some updates in time before the WRC-15, none of the updates will however change the position; they will merely be clarifications in light of studies within ICAO and ITU-R.

2.9 Due to the above, the following conclusion is proposed:

CONCLUSION

MEVA TMG 30/xx –

STATE SUPPORT FOR ICAO WRC-2015 POSITION, ITU VSAT NODE REGISTRATION AND INTERFERENCE NOTIFICATION PROCEDURE

That in order to protect the use of the radiofrequency spectrum for aviation usage and the timely MEVA III VSAT Node registration in ITU Master International Frequency Register (MIFR) and Frequency interference follow-up:

a) the MEVA Members:

- i. Using the Coordinate with their National Spectrum Regulators, the support to be provided to the ICAO WRC-2015 Position for the Ottawa CITEL Meeting - August 2015 (Ottawa: (XXVI PCC.II));
- ii. ITU study carried out for the MEVA III Network (appendix B), coordinate with their National Spectrum Regulators the corresponding MEVA III Node registration into MIFR;
- iii. Register your corresponding MEVA III Node by Dec 2015;

b) COMSOFT:

- i Notify by 15 June the final working frequency to each MEVA Member; and
- ii Proposed a procedure for the timely Frequency interference notification and resolution for MEVA III by December 2015.

3. Suggested Action

3.1 The Meeting is invited to:

- a) take note of the efforts of the States/Territories and ICAO to protect and ensure the optimum use of the aeronautical spectrum;
- b) assign aviation experts to attend with the corresponding Spectrum Regulators to the Ottawa Regional CITEL meeting and vote for the Interamerican proposals related with the ICAO position; including the protection of the C-Band and the Global Flight tracking initiative;
- c) Review and approve the draft conclusion detailed in paragraph 2.9;
- d) take any other action as deemed necessary.

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**APPENDIX A
MEVA TMG/26 CONCLUSIONS**

CONCLUSION 26/21 *REVIEW AND AGREEMENT ON ACTIONS TO FOLLOW-UP ON AN-CONF/12 RECOMMENDATION 1/14 AND RECOMMENDATIONS FROM THE REGIONAL PREPARATORY WORKSHOP FOR ITU WRC-15*

That in order to protect the use of the C-band of the MEVA Network, all MEVA Administrations:

- a) *contact their national radiofrequency spectrum authorities to obtain their support for C-band protection as presented in AN-Conf/12 Recommendation 1/14 - Long-term very small aperture terminal spectrum availability and protection and the Regional Preparatory Workshop for ITU WRC-15 Recommendation: To ensure protection for these WRC-agenda items for the Aeronautical VSAT networks in the CAR/SAM Regions;*
- b) consider the studies for C-band protection; and
- c) report all aeronautical VSAT interference cases to the MEVA TMG, including recording and documenting each case.

CONCLUSION 29/15 – *MEVA MEMBER's SUPPORT FOR ICAO WRC-2015 POSITION AND ITU VSAT NODE REGISTRATION*

That in order to protect the use of the radiofrequency spectrum for aviation usage and the timely MEVA III VSAT Node registration in ITU Master International Frequency Register (MIFR), the MEVA Members:

- a) Coordinate with their National Spectrum Regulators, the support to be provided to the ICAO WRC-2015 Position for the upcoming CITEL Meetings in February 2015 (Medellin: (XXV PCC.II) and August 2015 (Ottawa: (XXVI PCC.II));
- b) Using the ITU study carried out for the MEVA III Network (appendix B), coordinate with their National Spectrum Regulators the corresponding MEVA III Node registration into MIFR; and
- c) Report the progress of action a) and b) by MEVA TMG/30 Meeting.

APPENDIX B
SUMMARY OF ADMINISTRATIONS WITH WHICH COORDINATION IS REQUIRED:

EARTH STATION NAME	COUNTRY NAME OR GEOGRAPHICAL AREA	ITU COUNTRY CODE / NOTIFYING ADMINISTRATION	COORDINATION UNDER 9.17 REQUIRED WITH		REMARKS
			UPLINK	DOWNLINK	
MEVAIII-WILLEMSTAD	CURACAO / HOLLAND	CUW/HOL	ABW BES CLM VEN	ABW BES CLM DOM GRD HTI KNA MSR PTR TRD VCT VEN VIR VRG	
MEVAIII-BOGOT@	COLOMBIA	CLM	Null	VEN	
MEVAIII-SANTO DOMINGO	DOMINICAN REPUBLIC	DOM	PTR	ABW BES CLM CUW HTI KNA MSR PTR TCA VEN VIR VRG	
MEVAIII-SAN JUAN	PUERTO RICO / USA	PTR/USA	VIR VRG	AIA ATG BAH BES BLM DOM GLP KNA MAF MSR SXM TCA VIR VRG	
MEVAIII-PORT-AU-PRIN	HAITI	HTI	DOM	BAH CUB CYM DOM TCA USA	
MEVAIII-PHILLIPSBURG	ST. MARTEEN/HOLL AND	SXM/HOL	AIA ATG BES BLM KNA MAF MSR PTR VIR VRG	AIA ATG BES BLM DMA DOM GLP GRD KNA LCA MAF MRT MSR PTR TRD VCT VEN VIR VRG	
MEVAIII-PANAMA CITY	PANAMA	PNR	Null	CLM CTR EQA NCG	
MEVAIII-ORANJESTAD	ARUBA / HOLLAND	ABW/HOL	BES CLM CUW VEN	BES CLM CUW DOM HTI PTR VEN VIR	
MEVAIII-MERIDA	MEXICO	MEX	Null	BLZ CUB GTM	
MEVAIII-KINGSTON	JAMAICA	JMC	Null	CLM CUB CYM HND HTI NCG USA	
MEVAIII-HAVANA	CUBA	CUB	USA	BAH BLZ CYM HND MEX SWN USA	
MEVAIII-GEORGETOWN	CAYMAN ISLANDS / UK	CYM/G	Null	BAH BLZ CLM CUB GTM HND HTI JMC MEX NCG SWN USA	
MEVAIII-NASSAU	BAHAMAS	BAH	Null	CUB DOM HTI TCA USA	
MEVAIII-FREEPORT	BAHAMAS	BAH	USA	CUB TCA USA	
MEVAIII-COCESNA	HONDURAS	HND	NCG SLV	BLZ CTR GTM NCG SLV	coordinates to be confirmed by ICAO
MEVAIII-CARACAS	VENEZUELA	VEN	BES	ABW BES BRB CLM CUW DMA DOM GLP GRD KNA LCA MRT MSR PTR TRD VCT VIR	
MEVAIII-ATLANTA	USA	USA	Null	null	

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