

AFI/FMG/2 – DAKAR  
APRIL 2011

# INTERNATIONAL CIVIL AVIATION ORGANIZATION



## Second Meeting of the AFI Frequency Management Group

(AFI/FMG/2)

(Dakar, Senegal, 18 – 19 April 2011)

## REPORT

Prepared by ICAO Secretariat

April 2011

The Frequency Management Meeting is as a result of the AFI Planning and Implementation Regional Group (APIRG), Conclusion 16/32.

Its Reports are therefore submitted to APIRG through the CNS Sub-Group for review and action.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.



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## PART I – HISTORY OF THE MEETING

### 1. Introduction

1.1 The Second Meeting of the AFI Frequency Management Group (AFI/FMG/2) was held in the Conference Room of the Agency for the safety of aerial navigation in Africa and Madagascar (ASECNA) Headquarters in Dakar, Senegal, from 18 to 19 April 2011.

1.2 The main objective of the meeting was to address the work programme assigned to the AFI Frequency Management Group by the AFI Planning and Implementation Regional Group (APIRG) under its Conclusion 16/32, including issues related to the preparation of the International Telecommunication Union (ITU) World Radiocommunication Conference of 2012 (WRC-12).

1.3 After a welcome address by **Mr. Wodiaba Samake**, Ag. Director, Technical Operations of ASECNA, on behalf of **Mr. Amadou Ousmane Guitteye**, Director General of ASECNA, the meeting was opened by **Mr. Benoit Okossi**, Regional Officer for Aeronautical Meteorology, on behalf of the ICAO Regional Director for Western and Central Africa.

### 2. Attendance

2.1 The meeting was attended by forty two (42) participants from thirteen (13) Contracting States, two (02) Regional Air Navigation Service Providers (ASECNA and Roberts FIR) representing twenty (20) AFI Contracting States two (02) International Organizations (ITU and African Broadcasting Union-ABU) and the Telecommunication Regulation Authority of Senegal. A list of participants is provided at **Appendix A**.

### 3. Officers and Secretariat

3.1 The meeting elected **Mr. Patrick RANDRIANASOLO**, Aeronautical Telecommunications Manager, ASECNA Headquarters as Chairman. **Mr. Francois Xavier SALAMBANGA**, Regional Officer, Communications, Navigation and Surveillance (CNS) from the ICAO Regional Office for Western and Central Africa (Dakar), acted as Secretary of the Frequency Management Group.

3.2 He was assisted by **Mr. Prosper ZO'O MINTO'O**, Regional Officer, Communications, Navigation and Surveillance from the ICAO Eastern and Southern Africa Office (Nairobi), Secretary of the APIRG Communications, Navigation and Surveillance Sub-group (CNS/SG).

### 4. Working language

4.1 The meeting was conducted in English and the meeting documentation was issued in this language. However, translation service was graciously provided by the ICAO Secretariat to facilitate the discussions.

### 5. Agenda and Work Programme

5.1 The adopted the following agenda:

Agenda Item 1: Election of the Rapporteur of the Frequency Management Group

Agenda Item 2: Follow up of the conclusions and decisions of the first meeting of AFI Frequency Management Group (AFI/FMG/1) (September 2009)

Agenda Item 3: Follow up on APIRG/17 Conclusions and Decisions pertaining to Frequency Management

Agenda Item 4: Report on the Regional Workshop on Frequency Management and development of training aid (December 2010)

Agenda Item 5: Position of ICAO and preparation for the World Radiocommunication Conference 2012 (WRC/12)

5.1: ICAO position for WRC 12 and Activities of ACP WG F



5.2: Report on ATU meeting (February 2011)

5.3: Report on CPM meeting

Agenda Item 6: Terms of Reference and future Work programme of AFI/FMG

Agenda Item 7: Any other business

## 6. Summary of Conclusions and decisions

The following conclusions and decisions were formulated by AFI/FMG/2 meeting:

Number	Title
<b>Agenda Item 1</b>	<b>Election of the Rapporteur of the Frequency Management Group</b>
<b>Decision 2/01</b>	<b>Election of the Rapporteur</b> That the <i>Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar (ASECNA)</i> be assigned the role of Rapporteur of the Africa-Indian Ocean (AFI) Planning and Implementation Regional Group (APIRG) Frequency Management Group (AFI/FMG).
<b>Conclusion 2/02</b>	<b>Terms of reference of the Group Rapporteur</b> That, considering the critical role of the Group Rapporteur in regional coordination activities: a) the Secretariat develop the terms of reference for the Rapporteur of the AFI Frequency Management Group for consideration by the next meeting of the APIRG Communications, Navigation and Surveillance Sub-group (CNS/SG); and b) the Administration/Organization discharging the function of AFI FMG Rapporteur should secure the necessary resources to ensure that the designated Officer is available to participate in all activities of relevance to his/her mandate.
<b>Agenda Item 2</b>	<b>Follow up of the Conclusions and Decisions of the First Meeting of AFI Frequency Management Group (AFI/FMG/1) (September 2009)</b>
<b>Conclusion 2/03</b>	<b>Regulatory provisions for the use of VSAT technology in the AFI Region</b> That, in accordance with ITU WRC/07 Recommendation 724 (WRC-07) on the use by civil aviation of frequency allocations on a primary basis to the fixed-satellite service, the AFI Frequency Management Group pursue its follow up action aimed to: a) protect the use of Fixed Satellite Service (FSS) for the provision of aeronautical telecommunications services, including aeronautical fixed service, aeronautical mobile service, aeronautical surveillance and aeronautical radionavigation service, in the interest of public safety; and b) establish corresponding national regulatory provisions.
<b>Agenda Item 3</b>	<b>Follow up on APIRG/17 Conclusions and Decisions pertaining to Frequency Management issues</b>
<b>Conclusion 2/04</b>	<b>Coordination of aeronautical telecommunications issues between appropriate authorities at national level</b> That the Secretariat should coordinate the development of a model of a national coordination framework to facilitate efficient dialogue between appropriate authorities and resolution of issues related to the provision, the optimum operation and protection of aeronautical telecommunications spectrum, for consideration by the next meeting of the AFI Frequency Management Group.
<b>Conclusion 2/05</b>	<b>National Policies and Regulations pertaining to aeronautical telecommunications</b> That the ICAO Secretariat should conduct a survey on AFI States policies and regulations pertaining to aeronautical telecommunications, in order to determine the areas in which assistance by the AFI Frequency Management Group is required.
<b>Conclusion 2/06</b>	<b>Implementation of AFI Air Navigation Plan provisions</b>



Number	Title
	That AFI States should implement all relevant provisions contained in the Air Navigation Plan (ICAO Doc 7474) concerning the planning, coordination, management and protection of the aeronautical radiofrequency spectrum, and related problem reporting procedures, in accordance with ICAO and ITU policies.
<b>Conclusion 2/07</b>	<p><b>Implementation of HF propagation forecast software</b>  That, in accordance with SP AFI RAN/08 Recommendation 6/20 (Improvement of air-ground high frequency (HF) communications in the AFI Region through use of ionospheric propagation forecasts):</p> <ol style="list-style-type: none"> <li>a) ICAO should ensure that States/Air Navigation Service providers implement a harmonized software tool(s) to establish HF propagation forecasts; and</li> <li>b) States/Air Navigation Service providers which have acquired HF propagation forecast software tools, should coordinate their trials with all States within the same frequencies allotment areas defined in AFI FASID Chart CNS 2.</li> </ol>
<b>Conclusion 2/08</b>	<p><b>Required Communication Performance (RCP) Training requirements</b>  That, in accordance with APIRG Conclusion 17/26 (Implementation of RCP Concept), ICAO organize as a matter of urgency regional workshops/seminars on the RCP concept as stated in the Manual on Required Communication Performance (Doc 9869) in order to facilitate its implementation by AFI States.</p>
<b>Agenda Item 4</b>	<b>Report on the Regional Workshop on Frequency Management and Development of Training Aid (December 2010)</b>
<b>Conclusion 2/09</b>	<p><b>Development of Frequency Assignment Planning Tool</b>  That:</p> <ol style="list-style-type: none"> <li>a) States implement the recommendations formulated by the 2010 Regional Workshop on Frequency Management and Development of Training Aid; and</li> <li>b) ICAO should finalize/maintain the Frequency Assignment Planning Software Tool, and ensure that all relevant CNS systems are covered to the extent feasible.</li> </ol>
<b>Conclusion 2/10</b>	<p><b>Updating of COM Lists</b>  That States:</p> <ol style="list-style-type: none"> <li>a) Review and update their COM Lists 1, 2 and 3, and send updated lists to their accredited ICAO Regional Offices no later than 30 September 2011;</li> <li>b) Provide their national Radio Regulators with updated lists of communications and navigation systems; and</li> <li>c) Pursue the evaluation of the software tool, and submit to ICAO any queries, comments and suggestions no later than 30 September 2011.</li> </ol>
<b>Conclusion 2/11</b>	<p><b>Need for pre-operational trials of frequency assignments</b>  That, taking into consideration potential sources of interference not included in the ICAO Frequency Assignment database, States should carry out pre-operational trials of frequency assignment projects cleared using the ICAO Software.</p>



<b>Agenda Item 5</b>	<b>ICAO Position for ITU WRC-12</b>
<b>Conclusion 2/12</b>	<p><b>Development of AFI Strategies in preparation for ITU WRC-12</b></p> <p>That, in the spirit of APIRG Decision 17/37 (Follow up of AFI Frequency Management Group (AFI/FMG) Action Plan), active coordination should be maintained between States and all relevant stakeholders when developing regional strategies, including via electronic correspondence, based on ICAO position for ITU WRC-12.</p>
<b>Agenda Item 6</b>	<b>Terms of Reference, Future Work Programme and Composition of the Frequency Management Group</b>
<b>Decision 2/13</b>	<p><b>Terms of reference, future work programme and composition of the AFI FMG</b></p> <p>That the terms of reference, work programme and composition of the AFI FMG be amended <i>by the Secretariat based on AFI FMG/2 proposals.</i></p>
<b>Agenda Item 7</b>	<b>Any other business</b>
<b>Conclusion 2/14</b>	<p><b>Integrity of software tools</b></p> <p>That:</p> <ul style="list-style-type: none"> <li>a) States should establish regulations and procedures to ensure integrity of the software tools being introduced in the management of civil aviation systems; and</li> <li>b) the Rapporteur should coordinate the development of specifications and criteria for software integrity validation, in liaison with <b>Cameroon, Ghana, Morocco, Rwanda and South Africa</b>, and report to the next meeting of the AFI FMG.</li> </ul>
<b>Conclusion 2/15</b>	<p><b>Deployment of SMC frequencies at aerodromes</b></p> <p>That the deployment of aeronautical frequencies assigned to surface movement control (SMC) at aerodromes should be based on operational considerations and safety analyses.</p>



## **PART II: REPORT ON AGENDA ITEMS**

### **Agenda Item 1: Review of the Terms of Reference and Election of Rapporteur for the Group**

1.1 Under this agenda the meeting reviewed the Terms of Reference, Composition and Work Programme of the AFI Frequency Management Group and elected ASECNA as the Rapporteur for the Group.  
The following Decision was adopted:

#### **Decision 2/01: Election of the Rapporteur**

**That:**

**The Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar (ASECNA) be assigned the role of Rapporteur of the Africa-Indian Ocean (AFI) Planning and Implementation Regional Group (APIRG) Frequency Management Group (AFI/FMG).**

1.2 Taking into consideration the hurdles experienced in the management of the Group during the past years, the meeting reviewed the tasks that should be assigned to the Rapporteur and recognized the necessity to develop guidelines for the Group Rapporteur's duties and responsibilities. It also urged Administrations/Organizations discharging the function of AFI FMG Rapporteur to secure the necessary resources to ensure that the designated Officer is available to participate in all activities of relevance to his/her mandate.

The following Conclusion was formulated:

#### **Conclusion 2/02: Terms of reference of the Group Rapporteur**

**That,**

**Considering the critical role of the Group Rapporteur in regional coordination activities:**

**The Secretariat should develop the terms of reference for the Rapporteur of the AFI Frequency Management Group for consideration by the next meeting of the APIRG Communications, Navigation and Surveillance Sub-group (CNS/SG); and.**

- a) **The Administration/Organization discharging the function of AFI FMG Rapporteur should secure the necessary resources to ensure that the designated Officer is available to participate in all activities of relevance to his/her mandate.**

### **Agenda Item 2: Follow up of the conclusions and decisions of the first meeting of AFI Frequency Management Group (AFI/FMG/1) (September 2009)**

2.1 Under this agenda item the meeting assessed the status of implementation of the conclusions and decisions of the first meeting of AFI/FMG.

2.2 The meeting was briefed on the work being carrying out by the Aeronautical Communications Panel Working Group F (ACP WG/F), with respect to the preparation of a thorough analysis of frequency assignments within AFI Region, using the VHF COM frequency planning programme developed by ICAO..

2.3 Regarding the planning criteria for VDL the meeting was informed that the Aeronautical Communications Panel Working Group F (ACP/WG/F) had set up a sub-group tasked with the related planning criteria.



2.4 The meeting also discussed at length the issue of the protection of the Fixed Satellite Service (FSS) accordance with ITU WRC/07 Recommendation 724 (WRC-07). It acknowledged that VSAT technology was being used for the provision of all aeronautical telecommunications services, including aeronautical fixed service (AFS), aeronautical mobile service (AMS), aeronautical surveillance (AS) and aeronautical radionavigation service (ARNS), in the interest of public safety. It therefore called States to accordingly establish appropriate national regulatory provisions.

The following conclusion was formulated:

### **Conclusion 2/03: Regulatory provisions for the use of VSAT technology in the AFI Region**

**That, in accordance with ITU WRC/07 Recommendation 724 (WRC-07) on the use by civil aviation of frequency allocations on a primary basis to the fixed-satellite service, the AFI Frequency Management Group pursue its follow up action aimed to:**

- a) **Protect the use of Fixed Satellite Service (FSS) for the provision of aeronautical telecommunications services, including aeronautical fixed service, aeronautical mobile service, aeronautical surveillance and aeronautical radionavigation service, in the interest of public safety; and**
- b) **Establish corresponding national regulatory provisions.**

### **Agenda Item 3: Follow up APIRG/17 outcome pertaining to Frequency Management**

3.1 Under this agenda item the meeting reviewed APIRG/17 Conclusions and Decisions pertaining to Frequency Management, with emphasis on issues of relevance to the future activities of the Group.

3.2 The meeting was informed that APIRG/17 Meeting (Ouagadougou, Burkina Faso, August 2010) endorsed the Terms of Reference of AFI/FMG drafted by CNS/SG 3<sup>rd</sup> meeting and discussed key issues related to the optimum usage and protection of aeronautical Spectrum.

3.3 The support to the position of ICAO for the World Radiocommunication Conference (WRC) scheduled to take place in Geneva during the first quarter of year 2012 was discussed through the review of APIRG/17 Conclusions dealing with the issue of Deletion of footnotes, Registration of operational frequencies, AFI Position on WRC-12 Agenda as well as the issue of Non-Application of Charges for the Utilization of Aeronautical Frequency Spectrum.

3.4 ***In accordance with APIRG/17 conclusion***, Ghana and South Africa presented to the meeting the follow up action taken on APIRG/17 conclusion with respect to WRC 12 Agenda Item 1.3 (*Spectrum requirements and possible regulatory actions, including allocations, in order to support the safe operation of unmanned aircraft systems (UAS), based on the results of ITU-R studies, in accordance with Resolution 421 (WRC-07)*) and Agenda Item 1.7 (*Ensure long-term spectrum availability and access to spectrum necessary to meet requirements for the aeronautical mobile-satellite (R) service, and to take appropriate action on this subject, while retaining unchanged the generic allocation to the mobile-satellite service in the bands 1 525 - 1 559 MHz and 1 626.5 - 1 660.5 MHz*).

Kenya's submission concerning WRC-12 Agenda Item 1.4 (*Any further regulatory measures to facilitate introduction of new aeronautical mobile (R) service (AM(R)S) systems in the bands 112 - 117.975 MHz, 960 - 1 164 MHz and 5 000 - 5 030 MHz in accordance with Resolutions 413 (Rev. WRC-07), 417 (WRC-07) and 420 (WRC-07)*) was not made available to the meeting.

3.5 The meeting recognized the need for a suitable coordination framework at national level to address aeronautical telecommunications issues, in order to efficiently promote the ICAO position for ITU WRCs. The following conclusion was therefore formulated:



**Conclusion 2/04: Coordination of aeronautical telecommunications issues between appropriate authorities at national level**

**That the Secretariat should coordinate the development of a model of a national coordination framework to facilitate efficient dialogue between appropriate authorities and resolution of issues related to the provision, the optimum operation and protection of aeronautical telecommunications spectrum, for consideration by the next meeting of the AFI Frequency Management Group.**

3.6 The meeting noted the efforts made by some States to address issues related to aeronautical telecommunication management. However, it recognized that most AFI States had not yet established their national policy and regulatory framework for aeronautical telecommunications. The meeting requested ICAO to conduct a survey in order to determine in which areas assistance by the AFI Frequency Management Group is required. The following conclusion was adopted:

**Conclusion 2/05: National Policies and Regulations pertaining to aeronautical telecommunications**

**That the ICAO Secretariat should conduct a survey on AFI States policies and regulations pertaining to aeronautical telecommunications, in order to determine the areas in which assistance by the AFI Frequency Management Group is required.**

3.7 The meeting reviewed the provisions contained in the Air Navigation Plan (ICAO Doc 7474) concerning the planning, coordination, management and protection of the aeronautical radiofrequency spectrum, and related problem reporting procedures, which were developed in accordance with ICAO and ITU policies, and encouraged States to take the necessary steps to fully comply with these provisions. The following conclusion was formulated:

**Conclusion 2/06: Implementation of AFI Air Navigation Plan provisions**

**That AFI States should implement all relevant provisions contained in the Air Navigation Plan (ICAO Doc 7474) concerning the planning, coordination, management and protection of the aeronautical radiofrequency spectrum, and related problem reporting procedures, in accordance with ICAO and ITU policies.**

3.8 The meeting discussed the status of implementation of SP AFI RAN/08 Recommendation 6/20 (Improvement of air-ground high frequency (HF) communications in the AFI Region through use of ionospheric propagation forecasts) and noted that some airnavigation service providers namely ASECNA have provided their center with a HF propagation forecast software.

3.9 The meeting requested ICAO to coordinate the implementation of this conclusion in order to ensure a harmonized software tool(s) to establish HF propagation within AFI Region and recommended Administrations /organizations that have already purchased such tool (s) to conduct trials with all States within the Same HF frequencies allotment areas defined in AFI FASID Chart CNS 2;

The following conclusion was adopted:

**Conclusion 2/07: Implementation of HF propagation forecast software**

**That, in accordance with SP AFI RAN/08 Recommendation 6/20 (Improvement of air-ground high frequency (HF) communications in the AFI Region through use of ionospheric propagation forecasts):**

- a) ICAO should ensure that States/Air Navigation Service providers implement a harmonized software tool(s) to establish HF propagation forecasts; and
- b) States/Air Navigation Service providers which have acquired HF propagation forecast software tools should coordinate their trials with all States within the same frequencies allotment areas defined in AFI FASID Chart CNS 2.



3.10 The meeting was also informed of the action undertaken by ASECNA to address interference issues mindful of the RCP concept requirements, and in the spirit of APIRG/17 Conclusion 17/26 (Implementation of RCP Concept).

The implementation of this conclusion relies on the availability of a well-protected frequency spectrum for Aeronautical Mobile Service. The meeting therefore appealed to ICAO to urgently provide more guidance on RCP to assist the AFI Region, through regional training workshop and seminars.

The following conclusion was formulated:

**Conclusion 2/08: Required Communication Performance (RCP) Training requirements**

That, in accordance with APIRG Conclusion 17/26 (Implementation of RCP Concept), ICAO organize as a matter of urgency regional workshops/seminars on the RCP concept as stated in the Manual on Required Communication Performance (Doc 9869) in order to facilitate its implementation by AFI States.

**Agenda Item 4: Report on the Regional Workshop on Frequency Management and development of training aid (December 2010)**

4.1 The meeting reviewed and analyzed the report on the Workshop on Frequency Management and development of training aid. It endorsed the recommendations of the Workshop and requested ICAO to finalize and maintain its Frequency Assignment Planning Software Tool, and ensure that all relevant CNS systems are covered to the extent feasible.

The following conclusion was formulated:

**Conclusion 2/09: Development of Frequency Assignment Planning Tool**

**That:**

- a) States implement the recommendations formulated by the 2010 Regional Workshop on Frequency Management and Development of Training Aid; and
- b) ICAO finalizes / maintains the Frequency Assignment Planning Software Tool, and ensures that all relevant CNS systems are covered to the extent feasible.

*Note: List of the Recommendations of the Workshop*

- 1) *In order to ensure a reliable usage of the software globally and regionally, the COM List database should be reviewed and updated;*
- 2) *ICAO should update the database in coordination with States;*
- 3) *Non-AFI States should be removed from the AFI Regional COM Lists used by the software;*
- 4) *ICAO should develop a procedure (script) to facilitate the processing of States' requests through ICAO Regional Offices;*
- 5) *The administration process should prevent database modifications by States;*
- 6) *Provisions should be made to apply ICAO Annex 10 or regional planning criteria for combined air traffic services;*
- 7) *Software for assigning secondary surveillance radar (SSR) Interrogator Identifier (II) codes should be included; and*
- 8) *Software quick user guide should be expanded with a point by point procedure to carry out the different functions offered by the programme*
- 9) *FileMaker Pro network should be operational as early as possible for trial purposes with the Regional Offices.*

4.2 The updated frequency management software was briefly presented to the meeting.

It was agreed that the optimum performance of the software relies on the availability of the frequency consolidated COMM Lists: COM List 1 (NDB), 2 (VOR/DME/ILS) & 3 (VHF).



The meeting also encouraged States to provide their national Telecommunication Regulatory Authorities with the updated COM Lists for registration and protection.

The meeting also invited the States to pursue the evaluation of the ICAO software tool.

The following conclusion was adopted:

**Conclusion 2/10: Updating of COM Lists**

**That States:**

- a) Review and update their COM Lists 1, 2 and 3, and send updated lists to their accredited ICAO Regional Offices no later than 30 September 2011;
- b) Provide their national Radio Regulators with updated lists of communications and navigation systems; and
- c) Pursue the evaluation of the software tool, and submit to ICAO any queries, comments and suggestions no later than 30 September 2011.

4.3 The meeting discussed the issue of interference and noted that AFI State are experimenting more and more interferences caused by non aeronautical. It was agreed that Administration/Organization should carry out pre-operational trials for frequency assignment projects using the ICAO software with feedback to ICAO Regional Offices.

The following conclusion was formulated:

**Conclusion 2/11: Need for pre-operational trials of frequency assignments**

**That, taking into consideration potential sources of interference not included in the ICAO Frequency Assignment database, States should carry out pre-operational trials of frequency assignment projects cleared using the ICAO Software.**

**Agenda Item 5: Position of ICAO and preparation for the World Radiocommunication Conference 2012 (WRC 12)**

5.1 Under this agenda item the meeting was provided with the updated ICAO position for WRC 12. A summary of the activities carried out by ICAO ACP/WG F was presented to the meeting as well as the outcome of the CPM second meeting (CPM/2).

The secretariat briefed the meeting on the outcome of the ATU preparatory meeting held in February 2011 in Abuja, Nigeria and the meeting discussed strategies for efficient coordination with national Telecommunication Regulators.

5.2 The meeting agreed that in accordance with APIRG/ Decision 17/37(Follow up of AFI Frequency Management Group (AFI/FMG), the development of a common position of AFI Civil Aviation Authorities to support ICAO position requires an active coordination between States and all relevant stakeholders. Therefore an active participation of Administration/Organization in the national, regional (ATU),international (CPM, ACP WG F) preparatory meetings and the inclusion of CAA representatives into the national delegation to WRC 12 are strongly requested.

The following conclusion was formulated:

**Conclusion 2/12: Development of AFI Strategies in preparation for ITU WRC-12**

**That, in the spirit of APIRG Decision 17/37 (Follow up of AFI Frequency Management Group (AFI/FMG) Action Plan):**

- a) active coordination should be maintained between States and all relevant stakeholders when developing regional strategies, including via electronic correspondence, based on ICAO position for ITU WRC-12,



b) Administrations/Organizations should actively participate in the national, regional (ATU) and international (CPM, ACP WG F) preparatory meetings and,

c) CAA should pursue their efforts to ensure the inclusion of their representatives into the national delegation to WRC 12

**Agenda Item 6: Terms of Reference and future Work programme of AFI/FMG**

6.1 Under this Agenda item the meeting reviewed the Terms of Reference and the future work programme of the AFI/FMG, and decided to amend it based on Conclusion 2/02 (*Terms of reference of the Group Rapporteur*) of this current meeting. The current Terms of Reference are presented in **Appendix B**.

The following Decision was formulated:

**Decision 2/13: Terms of reference, future work programme and composition of the AFI FMG**

**That the Terms of Reference, Work Programme and Composition of the AFI FMG be updated by the Secretariat based on AFI FMG/2 proposals.**

**Agenda Item 7: Any other business**

7.1 Under this agenda item, the meeting discussed the topic related to integrity of the software developed or purchased for the frequency management. It was noted a need to establish regulations and procedures to ensure integrity of the software being introduced in the management of the spectrum.

7.2 The meeting tasked **Cameroon, Ghana, Morocco, Rwanda and South Africa** to develop specifications and criteria for software validation under the coordination of the Rapporteur.

The following conclusions were formulated:

**Conclusion 2/14: Integrity of software tools**

**That:**

- a) **States should establish regulations and procedures to ensure integrity of the software tools being introduced in the management of civil aviation systems; and**
- b) **The Rapporteur should coordinate the development of specifications and criteria for software integrity validation, in liaison with Cameroon, Ghana, Morocco, Rwanda and South Africa, and report to the next meeting of the AFI FMG.**

7.3 The meeting also discussed the issue regarding the implementation of frequencies assigned to Surface Movement Control (SMC) at aerodrome and agreed that such assignment should be conducted based on operational considerations and safety analysis.

The following conclusion was formulated:

**Conclusion 2/15: Deployment of SMC frequencies at aerodromes**

**That:**

**The deployment of aeronautical frequencies assigned to surface movement control (SMC) at aerodromes should be based on operational considerations and safety analyses.**



**Second Meeting of the AFI Frequency Management Group (AFI FMG/2)**  
(Dakar, Senegal, 18 - 19 April 2011)

Appendix A

**LIST OF PARTICIPANTS**

STATE/ ORGANIZATION	NAME	FONCTION	ADDRESS	TELEPHONE/FAX/E-Mail
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10. MALI				



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## APPENDIX B

### TERMS OF REFERENCE COMPOSITION AND WORK PROGRAMME OF THE AFI FREQUENCY MANAGEMENT GROUP (AFI/FMG)

#### Terms of Reference:

The FMG works within the terms of reference of the APIRG, on the matters related to the aviation radio frequency spectrum that are included in the following task list in co-ordination with other relevant international organizations.

**Composition:** Angola, Algeria, Benin, Burkina Faso, Burundi, Botswana, Democratic Republic of Congo, Cameroun, Cape Verde, Comoros, Congo, Cote d'Ivoire, Djibouti, Egypt, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea Bissau, Guinée Equatoriale, Kenya, Lesotho, Liberia, Libya, Mali, Mauritania, Morocco, Niger, Nigeria, Seychelles, South Africa, Tunisia, RCA Rwanda, Sao Tome et Principe, Senegal, Sierra Leone, Somalia, Sudan, Swaziland, Tanzania, Tchad, Togo, Uganda, Zambia, Zimbabwe, France, Britain, Spain

#### Work Programme:

	Ref.	Title/Brief description	Deliverables	Action by	Target Date
1	GPI 23	Aviation Spectrum requirements	Monitor and report to APIRG the status of available capacity in the various aviation bands	FMG	On-going
2	GPI 23	Frequency planning	Ensure the effective operation of the coordination process for the necessary agreement to make new frequency assignments	FMG	On-going
3	GPI 23	Coordinate with other agencies to protect aviation spectrum	Coordinate activities for the conduct of the 'block planning' process to provide for new frequency requirements which can only be satisfied by the relocation of existing assignments	FMG	On-going
4	GPI 23	Table COM 3 maintenance	Maintain a parallel draft TABLE COM 3 until merging with the ICAO table is completed with refinement of COM3 Tables at the next stage	Study Group, ICAO	On-going
5	GPI 23	Support for ICAO Position at WRC meeting	Ensure AFI States support ICAO at ITU meetings	FMG	On-going