



## INTERNATIONAL CIVIL AVIATION ORGANIZATION

### Third Meeting of the APIRG Communications, Navigation and Surveillance Sub-Group (Nairobi, 26-30 April 2010)

#### Agenda Item 2: Terms of reference, work programme and composition of the CNS/SG as defined by APIRG/16

*(Presented by the Secretariat)*

#### SUMMARY

This working paper reviews the terms of reference, working programme and composition of the CNS Sub-group as defined by APIRG/14.

Action required is at **paragraph 3**

Reference: APIRG/16 Report

#### 1. INTRODUCTION

1.1 The AFI Planning and Implementation Regional Group (APIRG) at its 16th meeting adopted the terms of reference and work programme shown at **Appendix A** to this working paper to the Communications, Navigation and Surveillance Sub-group (CNS/SG) and . The APIRG also approved Rwanda as new member of the CNS/SG.

#### 2. DISCUSSION

2.1 The main tasks of the CNS Sub-group are the continuing and coherent development and implementation of the AFS, AMS, navigation and surveillance plans, and the identification, review and monitoring of deficiencies that affect CNS services in the AFI Region.

2.2 Items 1, 2, 3, 4, 5, 6, 7, 8,9,10, 11, 13, 16, and 19 of the work programme are included in the agenda of the present meeting and are the subject of Secretariat working/information papers.

2.3 The secretariat proposes that Item 15 of the work programme be deleted since the project is a State initiative. The submission paper to APIRG /16 was only information paper and as such it shouldn't form part of the Sub-group work program. .

2.4 The membership of the CNS/SG is now 32 members. It is interesting to note that the effective participation of members at past meetings. **Appendix B** provides information on attendance at meetings of the previous COM/SG and CNS/SG from 1995 to 2007. Participation by members has been steadily declining since 1998. It is proposed that the Sub-group adopt a conclusion urging members with less than 50% attendance at meetings (D.R. Congo, Eritrea, Guinea, Niger, Spain, ACAC and IFALPA), to effectively participate in the work of the Sub-group.

3. **ACTION BY THE SUB-GROUP**

3.1 The CNS/SG is invited to:

- a) note its terms of reference, work programme and composition as defined by APIRG/14 ;
- b) provide, as required, comments and suggestions on the terms of reference and work programme; and
- c) adopt a conclusion urging members with less than 50% attendance at meetings, to effectively participate in the work of the sub-group.

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**APPENDIX A****TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE COMMUNICATIONS, NAVIGATION AND SURVEILLANCE SUB-GROUP (CNS/SG)****1. TERMS OF REFERENCE**

- a) Ensure the continuing and coherent development of the AFI Regional Air Navigation Plan in the fields of aeronautical communications, navigation and surveillance (CNS), including the development of CNS elements of the AFI CNS/ATM Implementation Plan in the light of new developments, in harmony with the ICAO Global Air Navigation Plan (Doc 9750) and the plans for adjacent regions;
- b) Identify, review and monitor deficiencies that impede or affect the provision of efficient aeronautical telecommunications and recommend appropriate corrective action;
- c) Prepare, as necessary, CNS/ATM cost/benefit analyses for the implementation options of C, N and S elements; and
- d) Study, as necessary, institutional arrangements for the implementation of C, N and S systems in the AFI Region.

**2. WORK PROGRAMME**

Item	Global Plan Initiatives	Task description	Priority	Target date
<b>Communications</b>				
1.	GPI-22	Follow up and monitor the implementation of VHF coverage in the AFI region in accordance with AFI/7 Rec. 5/12.	A	APIRG/17
2.	GPI-22	Update the AFI AFTN routing directory	A	APIRG/17
3.	GPI-22	In coordination with the ATS/AIS/SAR Sub-group, participate in the development of a communication infrastructure to support an AFI Central AIS Database (AFI CAD)	A	APIRG/17
4.	GPI-17 GPI-22	Follow-up the implementation of suitable communication bit-oriented protocols to improve AFTN performance and to facilitate the introduction of ATN applications.	A	APIRG/17
5.	GPI-17	Monitor the development, and coordinate the implementation of guidance material for service level agreements between air navigations service providers and ATN service providers	A	APIRG/17
6.	GPI-17	Review and update, if needed, the ICAO Register of AMHS managing domains and addressing information pertaining to AFI.	A	Continuing
<b>Navigation</b>				
7.	GPI-21	Analyze and review the Report of the AFI GNSS Implementation Task Force.	A	APIRG/17
8.	GPI-21	Follow up and monitor the implementation of Phase 1 of the AFI GNSS Strategy.	A	APIRG/17
<b>Surveillance</b>				
9.	GPI -9	Analyze and review CNS aspects of the report of the ADS-B Implementation Task Force.	A	APIRG/17

Item	Global Plan Initiatives	Task description	Priority	Target date
10.	GPI -9	In coordination with the ATS/AIS/SAR Sub-group, continue the development of the AFI Aeronautical Surveillance Plan.	A	APIRG/17
<b>Communications, Navigation and Surveillance – General matters</b>				
11	GPI -9 GPI-17 GPI-21 GPI-22	Analyze, review and monitor the implementation and operation of aeronautical communications, navigation and surveillance (CNS) systems, identify CNS deficiencies and propose measures for their elimination, as required	A	Continuing
12.	GPI -9 GPI-17 GPI-21 GPI-22	Give further consideration, as necessary, to the concept of multinational ICAO AFI air navigation facility/service addressed in the AFI/7 Report under Agenda Item 14 (AFI/7, Conclusion 10/6c).	C	Continuing
13.	GPI -9 GPI-17 GPI-21 GPI-22	In co-ordination with the ATS/AIS/SAR Sub-group, continue the evolutionary and harmonized development of the AFI CNS/ATM Systems Implementation Plan (AFI/7 Concl. 13/1).	A	Continuing
14.	GPI -9 GPI-17 GPI-21 GPI-22	In co-ordination with the ATS/AIS/SAR Sub-group, develop, as necessary, comprehensive business cases for competing CNS/ATM elements implementation options for the routing areas.	B	Continuing
15.	GPI -9 GPI-17 GPI-21 GPI-22	Review work being done by MIDANPIRG on the Egyptian initiative for a multi-mission satellite based system dedicated to CNS/ATM services and provide advice thereon.	B	APIRG/17
16.	GPI -9 GPI-17 GPI-21 GPI-22	Co-ordinate plans developed by States, international organizations, airlines and industry for the implementation of the regional CNS/ATM systems implementation plan; and monitor CNS/ATM systems research and development, trials and demonstrations within the AFI Region and information from other regions.	B	Continuing
17.	GPI -9 GPI-17 GPI-21 GPI-22	Maintain current the database on CNS elements of CNS/ATM planning and implementation in the AFI Region.	B	Continuing
18.	GPI -9 GPI-17 GPI-21 GPI-22	Coordinate the implementation of ICAO Global Plan Initiatives pertaining to CNS and develop associated regional performance objectives.	A	Continuous
<b>Aeronautical Spectrum</b>				
19.	GPI-23	Coordinate regional activities aimed at promoting ICAO position for ITU-WRC meetings, and improving aeronautical spectrum management and control in the Region.	A	Continuing

**Priority:**

A: High priority tasks on which work should be speeded up;

B: Medium priority tasks, on which work should be undertaken as soon as possible, but without detriment to priority A tasks; and

C: Lesser priority tasks, on which work should be undertaken as time and resources permit, but without detriment to priority A and B tasks.

**3. COMPOSITION:**

Algeria, Angola, Cameroon, Congo, Côte d'Ivoire, D.R. of Congo, Egypt, Eritrea, Ethiopia, Gambia, Ghana, Guinea, Kenya, Malawi, Mauritius, Morocco, Niger, Nigeria, Senegal, South Africa, Spain, Sudan, Tanzania, Tunisia, Zambia, ACAC, ASECNA, IATA, and IFALPA.

Appendix B

**LEVEL of Participation in CNS/SG**

Member	Member since	COM/SG/3 1995	COM/SG/4 1998	COM/SG/5 2000	COM/SG/6 2002	CNS/SG/1 2005	CNS/SG/2 2007	Level %
Algeria	1981	Yes	Yes	Yes	Yes	Yes	No	83
Angola	1999		Yes	Yes	No	Yes	No	75
Cameroon						No	Yes	50
Congo	1981	Yes	Yes	Yes	Yes	No	No	75
Cote d'Ivoire	1995	Yes	Yes	Yes	No	Yes	Yes	83
D.R. Congo	1995	No	No	Yes	No	Yes	Yes	50
Egypt	1981	No	Yes	Yes	Yes	Yes	Yes	83
Eritrea	2001	-	Yes	-	No	No	No	20
Ethiopia	1981	No	Yes	Yes	Yes	NO	Yes	75
Gambia						Yes	Yes	100
Ghana	2001	No	Yes	Yes	Yes	Yes	Yes	83
Guinea	1981	Yes	No	No	No	No	No	20
Kenya	1981	Yes	Yes	No	Yes	No	Yes	75
Malawi	1981	No	Yes	Yes	No	Yes	No	75
Mali	2005					No	Yes	50
Mauritania	2005					No	Yes	50
Mauritius	2005					No	No	0
Morocco	1981	Yes	Yes	No	No	Yes	No	50
Niger	1981	No	Yes	No	No	Yes	No	25
Nigeria	1981	No	Yes	Yes	Yes	Yes	No	75
Senegal	1981	Yes	Yes	Yes	Yes	Yes	Yes	100
South Africa	1998	No	Yes	Yes	Yes	Yes	Yes	83
Spain	1995	No	No	No	Yes	Yes	No	25
Sudan	2003				Yes	No	No	20
Tanzania						Yes	No	50
Tunisia	1981	Yes	Yes	Yes	Yes	Yes	No	83
Zambia	1981	No	No	No	Yes	No	No	20
ACAC	1999	No	No	No	No	No	No	0
INEO (France)							Yes	20
ASECNA	1981	Yes	Yes	Yes	Yes	Yes	Yes	100
IATA	1981	Yes	Yes	Yes	Yes	Yes	Yes	100
IFALPA	1999	No	Yes	No	No	No	No	20
Roberts FIR						Yes	Yes	50
Total members		18	19	22	24	32	32	
Participating members		10	15	14	14	20	16	
% participation		55	78	63	58	62	50	