



## INTERNATIONAL CIVIL AVIATION ORGANIZATION

## WESTERN AND CENTRAL AFRICAN OFFICE

Sixth Meeting of the APIRG Communications, Navigation  
and Surveillance Sub-group (CNS/SG/6)  
Dakar, Senegal, 18–22 May 2015**Agenda Item 6: Identification and development of Regional Projects based on Aviation System Block  
Upgrades (B0) and Regional Performance Objectives****Proposals for AFI CNS Projects***(Presented by Secretariat)***SUMMARY**

This working paper identifies possible projects to be conducted in the framework of the new APIRG structure and method of work.

**Action by the meeting is at paragraph 3.**

**REFERENCE**

- **Annex 10-** Aeronautical Telecommunications (Volumes 1-5)
- **Annex 11-** Air Traffic Services
- **GANP Doc. 9750**
- **Doc 9702** - Report of the Seventh Africa-Indian-Ocean Regional Air Navigation (AFI / RAN /7 Meeting)
- Report on the AFI SP AFI / RAN /8 Meeting
- Reports on APIRG Meetings

*Note: References can be downloaded from [www.icao.int/wacaf](http://www.icao.int/wacaf).*

Related **ICAO Strategic Objectives: A: Safety; B: Air Navigation Capacity and Efficiency**

Related **ICAO ASBU Performance Improvement Areas and Block0 Modules:**

**1. Introduction**

1.1 The APIRG Extraordinary meeting held in Lusaka Zambia, from 10 to 11 July 2014 adopted a new structure and working methods for the group. This new approach consists on reducing the number of Sub groups and replacing the tasks forces by projects.

1.2 Therefore after having identified the remaining and new tasks that should be considered for the future work programme of the Group it should be advisable to identify possible projects consisting on grouping similar tasks in order to optimize their conduct.

**2. Discussion**

The table attached in Appendix to this working paper is a set of identified possible guidance material for the identification of possible regional CNS projects to be developed and implemented in the framework of the new approach adopted by APIRG.

**3. Action by the meeting**

The meeting is invited to:

- a) Take note of the information given above
- b) Review, amend and complete the draft proposal
- c) Identify the necessary linkage of the identified projects with those identified by the APIRG ATM/AIM/SAR, MET and AOP Sub Groups

End

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**APPENDIX**  
**Draft Projects components and tasks for the development of AFI CNS Projects**

<b>Operational Requirements</b>	<b>CNS Services</b>	<b>Identified projects components</b>	<b>Identified Tasks</b>	<b>To be completed</b>	<b>New Task</b>	<b>ASBU PIA</b>	<b>ASBU Module</b>
<b>G/G Coordination</b>	<b>AFS</b>	<b>Ground/Ground coordination communication</b>	<b>Implementation of ATS/DS</b>	<b>x</b>			
			<b>Implementation of VoIP</b>		<b>x</b>		
			<b>Implementation of AIDC</b>		<b>x</b>		
<b>Aeronautical Information and MET data flow</b>	<b>AFS</b>	<b>Ground digital data dissemination</b>	<b>AFTN</b>	<b>x</b>			
			<b>AMHS</b>	<b>x</b>			
<b>Air/Ground Communication</b>	<b>AMS</b>	<b>Improvement of Air/Ground voice communication</b>	<b>Implementation of VHF &amp; HF (Voice)</b>	<b>x</b>			
			<b>Implementation of Air/Ground digital communication</b>	<b>Implementation of CPDLC (data)</b>	<b>x</b>		
		<b>Implementation of VDL (data)</b>			<b>x</b>		
		<b>Implementation of HF DL (data)</b>			<b>x</b>		
		<b>Implementation of SSR Mode S DL (data)</b>		<b>x</b>			
<b>Maintain an acceptable QoS</b>	<b>AMS</b>	<b>Identification and of AFI Required Communication Performance (RCP)</b>	<b>Implementation of RCP</b>		<b>x</b>		
	<b>ARNS</b>		<b>Implementation of GNSS</b>	<b>x</b>			
<b>Increase situational awareness</b>	<b>ASS</b>	<b>Implementation of Surveillance systems</b>	<b>Implementation of SSR Mode S</b>	<b>x</b>			
			<b>ADS-C</b>	<b>x</b>			
			<b>ADS-B</b>		<b>x</b>		
			<b>Mlat</b>		<b>x</b>		

<b>Seamless aeronautical surveillance</b>		<b>Interconnection/Interoperability of surveillance systems</b>	<b>Surveillance data sharing (SSR ADS-B..)</b>		<b>x</b>		
<b>Available spectrum for CNS services</b>	<b>Spectrum</b>	<b>Protection of Aeronautical spectrum</b>	<b>Preparation of ITU WRC</b>	<b>x</b>			

