



Agenda Item 1: **Review of the results of the work of the GREPECAS contributory bodies and their respective Terms of Reference:**

i) **CNS/COMM**

CNS/COMM WORK PROGRAMME AND TERMS OF REFERENCE

(Presented by the Secretariat)

SUMMARY

This working paper presents an update version of the Work Programme of the GREPECAS ATM/CNS/SG CNS Committee, in accordance with the terms of reference and work programme approved by GREPECAS/14 meeting.

References:

- GREPECAS/14 Meeting, San Jose, Costa Rica, 16 – 20 April 2007;
- ACG/6 Meeting, Lima, 2 - 3 March 2006;
- ATM/CNS/SG/5, Lima, 13 - 17 November 2006;
- Doc 9750 – Global Air Navigation Plan;
- Strategic Objective A – Safety; and
- Strategic Objective B – Efficiency.

1. **Background**

1.1 During GREPECAS/14 meeting, the terms of reference, work programme and composition of the GREPECAS contributory bodies were approved.

1.2 Taking into account ICAO guidelines to reflect in every action plan and activity the strategic objectives of the Organization and the initiatives of the Global Air Navigation Plan (IPM), as well as the application of GREPECAS Decision 14/1 on implementation of ALLPIRG/4 conclusions, the format of the CNS Committee work programme has been aligned to include the mentioned ICAO strategic objectives and Global Air Navigation Plan initiatives.

2. **Analysis**

2.1 The analysis on the results of the activities of the CNS Committee is presented in Appendices A and B. **Appendix A** indicates the progress achieved in each of the tasks, plus any inclusion and/or deletion of tasks. **Appendix B** presents the work programme in Microsoft Project; all changes made as regards that last work programme are indicated in green.

3. **Action recommended**

3.1 The Meeting is invited to:

- a) Take note of the information presented;
- b) Analyze the progress achieved in the CNS/COMM work programme described in Appendix A and presented in Appendix B in MS Project;
- c) Analyze the changes proposed, such as the inclusion of new tasks or the deletion of others (Appendices A and B);
- d) Comment to the format of the MS Project Work Programme in Appendix B; and
- e) Formulate additional comments in this regard.

APPENDIX A

ANALYSIS OF CNS/COMM WORK PROGRAMME

1. General Description

1.1 The CNS/COMM work programme is subdivided into the following areas: general matters, communications development, navigation development, surveillance development, and ATM automation development.

1.2 Each of the above indicated areas related with a task number, with a description of the activities carried out, what is pending and the estimated completion date of same. In addition, new tasks are proposed to be added, and others are proposed to be modified or deleted.

2. Detailed Description

General matters

CNS 1/1, CNS1/4 and CNS 1/5

2.1 The tasks included in *General matters* have a permanent nature and have been totally examined during the meetings of the CNS Committee. Two tasks will be added for the CNS/COMM/6 meeting: review of CNS deficiencies and measures suggested by ICAO in preparation for ITU WRC-2011 meeting.

Communications developments

CNS /2-1.1

2.2 The activity pending is MEVA II / REDDIG interconnection, which according to the action plan approved during the fifth MEVA II / REDDIG coordination meeting (MR/5) (Mexico, 3-5 October 2007), would be completed by 2008.

2.3 Upon MEVA II / REDDIG interconnection, the network interconnection task would not be completed, but would remain open for other interconnections necessary in accordance to requirements. Also, a task related with preparation for current network integration aspects has been included.

CNS /2-1.2

2.4 A CAR/SAM plan for air/ground data link planning and implementation has been established and, on the basis of the global roadmap, a CAR/SAM programme for air/ground data links implementation has been carried out. The plan of activities and the programme constitute the CAR/SAM strategy for air/ground data link implementation. Pending is a review of the plan to outline the implementation of VDL and its applications. Its completion is scheduled for July 2008. A follow up task to this implementation plan has been included.

CNS /2-1.3

2.5 As a result of the tasks under this section, a proposal for amendment to CAR/SAM FASID Table CNS 1B was prepared, containing ATN planning in the CAR/SAM Regions. The ATN Task Force has worked intensely on the planning for ATN implementation in the Region. CNS/COMM/6 meeting will be presented with the *Initial Transition Plan for the Implementation of AMHS for the CAR/SAM Regions*, which includes the use of the IP protocol in the ATN routers, and with the *AMHS Addressing Plan for the CAR/SAM Regions*. An initial plan for the study of AIDC implementation in the CAR/SAM Regions will also be presented. Also, as a result of automation activities, final studies on communications requirements for the ATFM will be informed upon. As regards the development of ATN operations, implementation in some CAR/SAM States of ATN ground applications, such as AMHS, is to be highlighted.

2.6 An initial plan to study AIDC implementation in the CAR/SAM Regions will also be presented, as well as the results of the analyses carried out on ATFM communications requirements. As regards ATN operations development, the implementation of ground ATN applications in some CAR/SAM States, such as AMHS, is to be highlighted. The dates for the communications infrastructure necessary for ATM will depend on great measure in the progress of the ATM/COMM AFTM Action Plan.

2.7 The conclusion dates of various activities related with ATN development has been proposed to be delayed, in view that the definite SARPs and guideline material will be available in Novembre 2008.

CNS /2-1.5

2.8 The task on communications requirements to support the BUFR code for CAR/SAM OPMET message Exchange has been stopped, in view that ICAO and WMO are analyzing the use of other more Standard codes to substitute the BUFR. The result of this study is foreseen for the end of 2008. Therefore, communications requirements study will be continued with once the code to be used for OPMET exchange is decided upon. Hence, the description of this task has been modified.

CNS /2-2.1

2.9 CNS/COMM/5 meeting reviewed and amended CAR/SAM FASID Table CNS 2A. Considering that this is a permanent activity, it would be left open to future revisions and refinements.

Navigation developments*CNS /3-2.1*

2.10 As regards this task, SBAS trials in the CAR/SAM Regions continue being carried out through ICAO Technical Cooperation RLA/03/902.

CNS /3-2.2

2.11 CNS/COMM/3 meeting established the guidelines for the transition of satellite based navigation systems (GNSS) in the CAR/SAM Regions, as well as the requirements for GNSS augmentation for NPA operations. It is expected that the GNSS Task Force completes the regional guidelines on GNSS augmentation systems.

CNS /3-2.3

2.12 The GNSS Task Force is carrying out studies for a CAR/SAM GNSS augmentation systems implementation plan, taking into account the trials, guidelines formulated for the implementation of GNSS augmentation, and PBN requirements. In addition, Project RLA/03/902 continues the feasibility activities for the implementation of a SBAS system in the CAR/SAM Regions.

CNS /3-3

2.13 Tasks CNS/3-3.1 and CNS/3-3.2 could be included in Task CNS/3-2.2. Also, Task CNS/3.3.3 corresponding to development of a GNSS systems augmentation plan, to start once studies on Task CNS/3-2.3 are completed, could also be included in Task CNS/3-2.2. These changes are not reflected in **Appendix B**.

CNS /3-3.4

2.14 This Task corresponds to the review and refining of the CAR/SAM FASID Table CNS 3, to start once there is a GNSS augmentation system implementation plan.

2.15 An additional task is being proposed in the navigation development section, to be the elaboration of a “road map for the implementation of navigation systems in the CAR/SAM Regions”, which is in agreement with the PBN road map (Task CNS/3.3-6).

CNS /3-3.5

2.16 This Task has been wrongfully numbered CNS /3-3.3 in the GREPECAS/14 meeting report, and has been consequently correctly re-numbered.

Surveillance development

CNS/4-1

2.17 A new task was added CNS 4.1.3 “Develop a national register for aircraft equipped with Mode S transponder” according at 5/31 Decision formulated during the Fifth CNS Committee.

CNS/4-3

2.18 The Surveillance Task Force has completed an initial surveillance implementation plan that includes the ADS surveillance systems. It is expected that CNS/COMM/6 meeting review and approve the plan, in order to be able to start its implementation.

CNS/4-4

2.19 CNS/COMM/4 Meeting gave essential guidelines on the implementation of ACAS in the CAR/SAM Regions. In consideration to the importance of this system, ICAO has established the mandatory use of this system, by establishing target implementation dates. Therefore, this Task is considered completed.

CNS/4-5

2.20 Once the surveillance systems implementation plan is approved by the CNS Committee, CAR/SAM FASID Table CNS 4 will be amended. In addition, the respective follow up to the implementation plan will be carried out.

ATM automation developments*CNS/5*

2.21 The Automation Task Force is working on the regional development for ATM automation implementation. The Task Force has elaborated an initial ICD document, with the aim of continuing with a short term ATM automation implementation plan. It is expected that the Task Force present ATM/CNS/SG/6 meeting the pending aspects for ATM automation implementation in the CAR/SAM Regions. The Task Force is composed by CNS and ATM officials; the dates and durations of these activities should be consistent with the tasks of both the ATM and CNS Committees.

Seventh Meeting of GREPECAS Administration Coordination Group (ACG/7)

Appendix I of the Report about Agenda item 1
CNS COMMITTEE WORK PROGRAMME

ID	Section	References	Task Name	Responsibility	Priority	Start	End	%	2000		2002		2004		2006		2008		2010									
									tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr								
1	CNS/1		GENERAL MATTERS			Fri 7/20/01	Mon 8/9/10	69%																				
2	CNS/1-1	Strategic Objective A and D GPI 9, GPI 17, GPI 21, GPI 22 and GPI 23	Review, identify, evaluate and recommend solutions with the necessary priority assignment on the deficiencies of the CNS systems, based on the methodology standardized by ICAO Council.	CNS Committee & Regional Offices	A	Fri 7/20/01	Mon 7/7/08	88%																				
3			Review of deficiencies in the CNS systems until CNS/COMM/1			Fri 7/20/01	Fri 7/20/01	100%																				
4			Review of deficiencies in the CNS systems until CNS/COMM/2			Mon 9/9/02	Fri 9/20/02	100%																				
5			Review of deficiencies in the CNS systems until CNS/COMM/3			Mon 3/8/04	Fri 6/11/04	100%																				
6			Review of deficiencies in the CNS systems until CNS/COMM/4			Mon 8/8/05	Fri 8/26/05	100%																				
7			Review of deficiencies in the CNS systems until CNS/COMM/5			Mon 7/24/06	Thu 11/30/06	100%																				
8			Review of deficiencies in the CNS systems until CNS/COMM/6			Mon 6/2/08	Mon 7/7/08	0%																				
9	CNS/1-4	Strategic Objective D GPI 23	Review the development and implementation of CNS systems regarding other regions, aiming to contribute the coordinated and harmonious interregional development.	CNS Committee & Regional	B	Mon 3/1/04	Mon 8/9/10	62%																				
10			Review CNS development and Implementations of other Regions: CNS Related area			Mon 3/1/04	Mon 8/9/10	62%																				
11	CNS/1-5	Strategic Objective D GPI 23	Suggest measures for the protection of the aeronautical radio freq. spectrum management.	CNS Committee & Regional Offices	A	Mon 3/8/04	Fri 7/18/08	87%																				
12	CNS/1-5.1		Suggest measures to support ICAO's position at ITU's WRC.		A	Mon 3/8/04	Fri 7/18/08	80%																				
13	CNS/1-5.1.1		Suggest preparation measures to WRC-2007(CNS/COMM/3)			Mon 3/8/04	Fri 6/11/04	100%																				
14	CNS/1-5.1.2		Suggest preparation measures to WRC-2007(CNS/COMM/4)			Thu 9/1/05	Wed 11/30/05	100%																				
15	CNS/1-5.1.3		Review status reg. measures to WRC-2007(CNS/COMM/5)			Mon 7/10/06	Thu 11/30/06	100%																				
16	CNS/1-5.1.4		Suggest preparation measures to WRC-2011(CNS/COMM/6)			Wed 4/30/08	Fri 7/18/08	0%																				
17	CNS/1-5.2		Suggest regional guidelines on radio freq. spectrum management		A	Mon 3/8/04	Fri 6/11/04	100%																				
18	CNS/1-5.2.1		Improvement of the radio-freq. Spectrum management			Mon 3/8/04	Fri 6/11/04	100%																				
19	CNS/1-5.2.2		Protection against harmful interference in CNS systems			Mon 3/8/04	Fri 6/11/04	100%																				
20	CNS/2		COMMUNICATIONS SYSTEMS DEVELOPMENTS			Mon 7/2/01	Tue 12/28/10	63%																				
21	CNS/2-1		Develop digital data communication systems		A	Mon 7/2/01	Tue 12/28/10	62%																				
22	CNS/2-1.1	GPI 22 Strategic Objective D	Guide the development for interconnection/integration of digital COM networks	CNS Committee & Regional Offices	A	Fri 5/31/02	Fri 12/24/10	73%																				
23	CNS/2-1.1.1		Provide guidelines on the development of communication networks			Mon 6/10/02	Fri 9/19/03	100%																				
24	CNS/2-1.1.2		Develop regional guidelines on digital network interconnection			Fri 5/31/02	Fri 11/25/05	100%																				
25	CNS/2-1.1.3		Follow-up the develop and inteconnection of digital networks			Mon 1/26/04	Fri 5/30/08	75%																				
26	CNS/2-1.1.4		Guide the preparation for the integration of digital COM networks			Mon 2/7/05	Fri 12/24/10	48%																				
27	CNS/2-1.2	GPI 17 Strategic Objective D	Regional development on VDL & HFDL data link implementation	CNS Committee & Regional Offices	B	Tue 4/8/03	Mon 12/27/10	69%																				
28	CNS/2-1.2.1		Review perspectives of implementation VDL and HF data links			Tue 4/8/03	Wed 11/29/06	100%																				

CNS Committee Work Programme Date: Mon 2/25/08	Task		Summary		Rolled Up Progress		Project Summary	
	Progress		Rolled Up Task		Split		Group By Summary	
	Milestone		Rolled Up Milestone		External Tasks			

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									tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr
29	CNS/2-1.2.2		Develop guidelines on the implementation of VHF & HF data links			Mon 9/27/04	Thu 11/1/07	100%												
30	CNS/2-1.2.3		Develop a VDL implementation plan and its applications			Thu 11/1/07	Tue 7/8/08	65%												
31	CNS/2-1.2.4		Follow-up of VDL implementation plans and applications			Wed 7/9/08	Mon 12/27/10	0%												
32	CNS/2-1.3	GPI 17 and 22 Strategic Objective D	Provide guidelines on ATN development and its applications	ATN Task Force, CNS Committee & Regional	A	Mon 4/7/03	Tue 12/28/10	52%												
33	CNS/2-1.3.1		Develop strategy for the transition to Inter/network ATN services			Tue 4/8/03	Mon 2/28/05	100%												
34	CNS/2-1.3.2		Review, refine and complete the Initial Regional ATN Plan		A	Mon 4/7/03	Mon 7/28/08	80%												
35	CNS/2-1.3.3		Complete the development of an ATN addressing plan		B	Mon 2/2/04	Fri 7/10/09	55%												
36	CNS/2-1.3.4		Plans for implementation of ATN ground portion and applications		A	Tue 7/8/03	Fri 7/10/09	67%												
37	CNS/2-1.3.5		Develop an ATN initial operational and managerial use			Tue 7/8/03	Tue 12/28/10	23%												
38	CNS/2-1.3.5.1		a) ground-ground applications		A	Tue 7/8/03	Mon 7/28/08	40%												
39	CNS/2-1.3.5.2		b) air-ground applications		B	Mon 2/2/04	Tue 12/28/10	11%												
40	CNS/2-1.3.6	GPI 6, GPI 17 and GPI 22; Strategic Objective D	Review proposals for data communication infrastructure to support ATFM implementation	CNS Committee & Regional Offices	B	Mon 6/5/06	Mon 7/13/09	53%												
41	CNS/2-1.3.6.1		Initial Coordinations for communication requirements for ATFM			Mon 6/5/06	Fri 6/8/07	100%												
42	CNS/2-1.3.6.1		Initial review of communication requirements for ATFM			Tue 6/19/07	Mon 6/30/08	60%												
43	CNS/2-1.3.6.1		Initial Action Plan for communication requirements implementatic			Tue 7/1/08	Mon 7/13/09	0%												
44	CNS/2-1.4	GPI 22 Strategic Objective D	Study the possibilities of using the Internet services	CNS Committee & Regional Offices	B	Mon 7/2/01	Fri 9/23/05	100%												
45	CNS/2-1.4.1		Initial study the possibilities of using the Internet services			Mon 7/2/01	Fri 6/11/04	100%												
46	CNS/2-1.4.2		Guide the use of Internet services, as ICAO guidelines			Fri 4/1/05	Fri 9/23/05	100%												
47	CNS/2-1.5	GPI 17 GPI 22 GPI 19 Strategic Objective D	Recommend a COM system to support MET messages exchange in BUFR u other code approved by the ICAO.	CNS Committee & Regional Offices	A	Mon 4/18/05	Tue 6/30/09	50%												
48	CNS/2-2		Regional development of voice communication systems	CNS Committee & Regional Offices	A	Mon 7/2/01	Fri 7/16/10	75%												
49	CNS/2-2.1		Continue the development of AMS VHF & HF voice and data communications. Review, refine and complete the Table CNS 2A-FASID	CNS Committee & Regional Offices	A	Mon 7/2/01	Fri 7/16/10	75%												
50	CNS/3		NAVIGATION SYSTEMS DEVELOPMENTS			Mon 7/2/01	Fri 12/31/10	55%												
51	CNS/3-2	GPI 21 GPI 5 Strategic Objective D	Regional Development on GNSS augmentation	GNSS Task Force, CNS Committee & Regional	A	Mon 7/2/01	Fri 6/11/10	62%												
52	CNS/3-2.1		Review the results of SBAS augmentation trials carried out in the CAR/SAM Regions.		A	Mon 7/2/01	Fri 6/11/10	63%												
53	CNS/3-2.2	GPI 21 GPI 5 Strategic Objective D	Develop regional guidelines on implementation of GNSS augmentation systems		A	Mon 11/10/03	Mon 6/30/08	70%												
54	CNS/3-2.2.1		Update and review the regional GNSS revised guidelines			Mon 11/10/03	Mon 6/30/08	70%												

CNS Committee Work Programme Date: Mon 2/25/08	Task		Summary		Rolled Up Progress		Project Summary	
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55	CNS/3-2.3	GPI 21 GPI 5 Strategic Objective D	Studies on a Regional GNSS augm. implementation plan		A	Mon 6/2/03	Tue 12/30/08	57%												
56	CNS/3-2.3.1		Considerations on the feasibility of regional GNSS augmentation		B	Mon 6/2/03	Fri 7/4/08	67%												
57	CNS/3-2.3.2		Evaluate implementation alternatives of a SBAS/GBAS system		B	Mon 3/14/05	Tue 12/30/08	43%												
58	CNS/3-3	GPI 21 GPI 5 Strategic Objective D	Development of the Regional GNSS Implementation Plan	GNSS Task Force, CNS Committee & Regional	A	Mon 2/2/04	Tue 5/19/09	58%												
59	CNS/3-3.1		Amendment to the "Regional Guidelines for the transition to the GNSS" and the "Regional Strategy for the Introduction and application of non-visual aids to approach, landing and departure"		A	Mon 2/2/04	Thu 8/31/06	100%												
60	CNS/3-3.2		Review/update guidelines/strategies on the migration towards GNSS		B	Fri 9/1/06	Tue 12/30/08	20%												
61	CNS/3-3.3		Develop a Regional GNSS implementation plan		B	Wed 12/31/08	Tue 5/19/09	0%												
62	CNS/3-3.4	GPI 21 GPI 5 Strategic Objective D	Review, fine-tune Table CNS3 - Regional navigation plan, of the FASID	CNS Committee & Regional Offices	B	Wed 5/20/09	Fri 12/31/10	0%												
63	CNS/3-3.5	GPI 21 Strategic Objective D	Prepare a Regional Plan for the deactivation of NDB station	CNS Committee & Regional Offices	A	Mon 10/2/06	Fri 5/30/08	40%												
64	CNS/3-3.6	GPI 21 GPI 5 Strategic Objective D	Development of a navigation system road map	CNS Committee & Regional Offices	A	Mon 3/10/08	Tue 12/30/08	0%												
65	CNS/3-3.6.1		Taking in consideration the PBN road map in the CAR/SAM Region elaborate a navigation system road map	CNS Committee & Regional Offices	A	Mon 3/10/08	Tue 12/30/08	0%												
66	CNS/4		SURVEILLANCE SYSTEMS DEVELOPMENTS			Mon 6/4/01	Fri 7/9/10	71%												
67	CNS/4-1	GPI 9,GPI17 Strategic Objective D	Development of surveillance radar systems	CNS Committee & Regional Offices	A	Mon 5/13/02	Tue 12/30/08	88%												
68	CNS/4-1.1		Develop a radar regional implementation guidelines		A	Mon 5/13/02	Thu 9/19/02	100%												
69	CNS/4-1.2		Studies and recommendations of action on the SSR Mode S		B	Fri 7/1/05	Thu 11/30/06	100%												
70	CNS4.1.3	GPI 9 Strategic Objective D	Develop national register for aircraft equipped with Mode S transponder		B	Fri 4/20/07	Tue 12/30/08	75%												
71	CNS/4-2	GPI 9 Strategic Objective D	Studies on regional radar data sharing			Mon 6/4/01	Fri 11/18/05	100%												
72	CNS/4-2.1		Studies on radar data sharing feasibility		A	Mon 6/4/01	Thu 9/19/02	100%												
73	CNS/4-2.2		Proposal for a regional common protocol use		A	Fri 9/20/02	Wed 5/7/03	100%												
74	CNS/4-2.3		Development of regional guidelines on radar data sharing		A	Fri 6/28/02	Thu 9/19/02	100%												
75	CNS/4-2.4		Studies on a regional ASTERIX asigment codes		A	Mon 9/8/03	Fri 11/18/05	100%												
76	CNS/4-3	GPI 9,GPI17 Strategic Objective D	Development of the ADS-C and ADS-B Systems	CNS Committee & Regional Offices	B	Tue 3/9/04	Fri 7/10/09	66%												
77	CNS/4-3.1		Review and improvement of ADS regional guidelines		B	Tue 3/9/04	Mon 6/30/08	70%												
78	CNS/4-3.2		Studies on regional implementation of ADS-C & ADS-B systems		B	Mon 11/7/05	Fri 7/4/08	85%												
79	CNS/4-3.3		Development of a regional plan for ADS-C & ADS-B implementation		B	Mon 7/7/08	Fri 7/10/09	0%												

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	Progress		Rollo Up Task		Split		Group By Summary	
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									tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr
80	CNS/4-4	GPI 9,GPI17 Strategic Objective D	Develop target dates and strategies for the development of the ACAS system		B	Fri 10/7/05	Fri 9/29/06	100%												
81	CNS/4-5	GPI 9 Strategic Objective D	Update and follow-up of the regional Plan on Surveillance Systems and update of FASID Table CNS 4A	CNS Committee & Regional Offices	B	Fri 6/9/06	Fri 7/9/10	31%												
82	CNS/4-5.1		Update and follow-up of the regional Plan on Surveillance Systems an		B	Fri 6/9/06	Fri 7/9/10	31%												
83	CNS/5		REGIONAL ATM AUTOMATION DEVELOPMENTS			Mon 4/1/02	Fri 7/10/09	63%												
84	CNS/5-1	GPI 9 GPI17 GPI 22 Strategic Objective D	Develop a regional strategy for ATM automation	CNS Committee & Regional Offices	A	Mon 4/1/02	Fri 7/10/09	49%												
85	CNS/5-1.1	GPI 9 GPI17 GPI 22 Strategic Objective D	Develop functional levels and a regional strategy on ATM automation			Mon 4/1/02	Fri 6/12/09	75%												
86	CNS/5-3	GPI 9 GPI17 GPI 22 Strategic Objective D	Develop guidance material and regional guidelines for data exchange among ATM Units taking into consideration the communication platform.	CNS Committee & Regional Offices	A	Mon 10/17/05	Fri 7/10/09	64%												

CNS Committee Work Programme Date: Mon 2/25/08	Task		Summary		Rolled Up Progress		Project Summary	
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	Milestone		Rolled Up Milestone		External Tasks			