



International Civil Aviation Organization

CAR/SAM REGIONAL PLANNING IMPLEMENTATION GROUP (GREPECAS)

Sixth Meeting of the CNS Committee of the GREPECAS ATM/CNS Subgroup  
(CNS/COMM/6)

Santo Domingo, Dominican Republic, 30 June to 4 July 2008

CNS/COMM/6-WP/16

16/06/08

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**Agenda Item 5: Future organization of CNS work within the GREPECAS environment**

**TERMS OF REFERENCE AND WORK PROGRAMME OF THE CNS COMMITTEE**

(Presented by the Secretariat)

**SUMMARY**

This paper provides the meeting with updated information on the estate of execution of the GREPECAS ATM/CNS Subgroup CNS Committee's work programme. Likewise, it proposes amendments to the Terms of References and Work Programme of the CNS Committee and future CNS Subgroup.

**References:**

- Report of the GREPECAS/14 Meeting, (San José de Costa Rica, from 16 to 20 April 2007)
- Report of ACG/7 Meeting, (Lima, Peru, from 3 to 4 March 2008)

**Strategic objectives:**

*This working paper is related with Strategic objective D.*

**1. Introduction**

1.1. According to guidelines included in GREPECAS Procedures Manual, all GREPECAS contributory bodies should review and update their terms of reference and work programme during their last meeting and previous to the GREPECAS annual meeting.

1.2. During the Seventh Meeting of the Administration and Coordination Group ACG/7, held in Lima from 3 to 4 March 2008, the CNS Committee work programme approved during GREPECAS 14 meeting held in San José de Costa Rica, from 16 to 20 April 2007, was presented on the MS Project Administration tool. This work programme in MS Project is being presented in **Appendix A** to this Working Paper.

1.3. ACG/7 meeting, when analysing work programmes of GREPECAS Contributory Bodies, agreed that these be presented in detail as deliverables for a better understanding of goals and results, and, also, be associated to ICAO strategic objectives, Global Performance Indicators, pertinent tasks of the GREPECAS Contributory Bodies, Regional Air Navigation Plan implementation, and SARPS of ICAO. In this regard, this Meeting formulated Draft Decision ACG/7/02 (*Aspects to be considered in developing the work programmes of GREPECAS Contributory Bodies*). In the same way, this Meeting agreed to

eliminate within the Committee's work programme all the tasks identified as permanent, since these would be managed by ICAO Regional Offices.

1.4. Also, ACG/7 meeting reviewed the ATM/CNS Subgroup operation mechanism, concluding on Draft Decision ACG/07/03--*Restructuring of the GREPECAS ATM/CNS mechanism*--through which the disbanding of ATM/CNS Subgroup and the ATM and CNS Committees restructuring as GREPECAS Subgroups is instructed.

## **2. Discussion**

### **Terms of Reference and Work Programme**

2.1 Having in consideration background and agreements expressed above, it is proposed that the Meeting review the terms of reference and the programme of the CNS Committee aimed at its restructuring as CNS Subgroup. In this regard, CNS Committee terms of reference and work programme revised by the ACG/7 Meeting, including different amendments proposals in this respect, is being presented in **Appendix B** to this working paper.

2.2 Applying the indications provided by Draft Decision AGC/07/02, and taking into account form used by GREPECAS/14 for the follow up of conclusions, in **Appendix C** to this working paper a new format is proposed for the work programme of the CNS Committee (future CNS Subgroup), where activities are related to the programme task number, ICAO strategic objective(s), Regional Air Navigation Plan (FASID) references and applicable valid GREPECAS conclusions/decisions, associating each activity with expected products, person or group responsible for the activity execution, deadlines for delivering the product, and a breakdown of activities.

2.3 Terms of reference and work programme of CNS Committee's Task Forces (ATN, GNSS and Surveillance) were reviewed and updated during the last meetings of these task forces, and applying similar format for their work programme. The updates are presented as appendices to working papers 7, 9 and 10 presented in this Meeting by each of the Task Forces.

2.4 The Meeting should analyse the composition of CNS Committee and invite other States of the CAR/SAM Regions that are not members of the present CNS Committee to adhere to the future CNS Subgroup. Likewise, the Meeting should analyse the issue corresponding to the President and Vice-President of the CNS Committee and its restructuring as CNS Subgroup.

## **3. Suggested actions**

3.1 The Meeting is invited to:

- a) take note and review the information presented in this working paper;
- b) review Terms of Reference and Work Programme of the present CNS Committee and future CNS Subgroup, having in consideration amendment proposals contained in Appendix B, taking note of the original Work Programme of the CNS Committee presented in Appendix A;
- c) review the format proposed for the Work Programme presented in Appendix C, attending Draft Decision ACG/7/02;

- d) analyse the composition of the present CNS Committee and future CNS Subgroup, and invite other States of the CAR/SAM Regions to adhere to the same, including issue regarding the President and Vice-President of CNS Subgroup; and
- e) consider and propose other pertinent measures.

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**APENDICE A /APPENDIX A**  
**PROGRAMA DE TRABAJO DEL COMITE CNS Y FUTURO SUBGRUPO CNS/WORK PROGRAMM OF CNS COMMITTEE AND FUTURE CNS SUBGROUP**

CNS/COMM/6-NE/16 - WP/16  
A1

ID	Section	References	Task Name	Responsibility	Priority	Start	End	%	2000			2008			2016		
									tr	tr	tr	tr	tr	tr	tr	tr	tr
1	CNS/1		<b>GENERAL MATTERS</b>			Fri 20/07/01	Thu 30/09/21	65%									
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 20/07/01	Thu 30/09/21	55%									
3			Review of deficiencies in the CNS systems until CNS/COMM/1			Fri 20/07/01	Fri 20/07/01	100%									
4			Review of deficiencies in the CNS systems until CNS/COMM/2			Mon 09/09/02	Fri 20/09/02	100%									
5			Review of deficiencies in the CNS systems until CNS/COMM/3			Mon 08/03/04	Fri 11/06/04	100%									
6			Review of deficiencies in the CNS systems until CNS/COMM/4			Mon 08/08/05	Fri 26/08/05	100%									
7			Review of deficiencies in the CNS systems until CNS/COMM/5			Mon 24/07/06	Thu 30/11/06	100%									
8			Review of deficiencies in the CNS systems until CNS/COMM/6			Mon 02/06/08	Thu 30/09/21	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 01/03/04	Mon 09/08/10	62%									
10			Review CNS development and Implementations of other Regions: CNS Related area			Mon 01/03/04	Mon 09/08/10	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 08/03/04	Fri 18/07/08	87%									
12	CNS/1-5.1		Suggest measures to support ICAO's position at ITU's WRC.		A	Mon 08/03/04	Fri 18/07/08	80%									
13	CNS/1-5.1.1		Suggest preparation measures to WRC-2007(CNS/COMM/3)			Mon 08/03/04	Fri 11/06/04	100%									
14	CNS/1-5.1.2		Suggest preparation measures to WRC-2007(CNS/COMM/4)			Thu 01/09/05	Wed 30/11/05	100%									
15	CNS/1-5.1.3		Review status reg. measures to WRC-2007(CNS/COMM/5)			Mon 10/07/06	Thu 30/11/06	100%									
16	CNS/1-5.1.4		Suggest preparation measures to WRC-2011(CNS/COMM/6)			Wed 30/04/08	Fri 18/07/08	0%									
17	CNS/1-5.2		Suggest regional guidelines on radio freq. spectrum managemen		A	Mon 08/03/04	Fri 11/06/04	100%									
18	CNS/1-5.2.1		Improvement of the radio-freq. Spectrum managemen			Mon 08/03/04	Fri 11/06/04	100%									
19	CNS/1-5.2.2		Protection against harmful interference in CNS systems			Mon 08/03/04	Fri 11/06/04	100%									
20	CNS/2		<b>COMMUNICATIONS SYSTEMS DEVELOPMENTS</b>			Mon 02/07/01	Tue 28/12/10	63%									
21	CNS/2-1		Develop digital data communication systems		A	Mon 02/07/01	Tue 28/12/10	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 31/05/02	Fri 24/12/10	73%									
23	CNS/2-1.1.1		Provide guidelines on the development of communication networks			Mon 10/06/02	Fri 19/09/03	100%									
24	CNS/2-1.1.2		Develop regional guidelines on digital network interconnection			Fri 31/05/02	Fri 25/11/05	100%									
25	CNS/2-1.1.3		Follow-up the develop and inteconnection of digital networks			Mon 26/01/04	Fri 30/05/08	75%									
26	CNS/2-1.1.4		Guide the preparation for the integration of digital COM networks			Mon 07/02/05	Fri 24/12/10	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 08/04/03	Mon 27/12/10	69%									

CNS Committee Work Programme Date: Fri 20/06/08	Task		Summary		Rolled Up Progress		Project Summary	
	Progress		Rolled Up Task		Split		Group By Summary	
	Milestone		Rolled Up Milestone		External Tasks			

**APENDICE A /APPENDIX A**  
**PROGRAMA DE TRABAJO DEL COMITE CNS Y FUTURO SUBGRUPO CNS/WORK PROGRAMM OF CNS COMMITTEE AND FUTURE CNS SUBGROUP**

ID	Section	References	Task Name	Responsibility	Priority	Start	End	%	2000			2008			2016		
									tr	tr	tr	tr	tr	tr	tr	tr	tr
28	CNS/2-1.2.1		Review perspectives of implementation VDL and HF data links			Tue 08/04/03	Wed 29/11/06	100%									
29	CNS/2-1.2.2		Develop guidelines on the implementation of VHF & HF data links			Mon 27/09/04	Thu 01/11/07	100%									
30	CNS/2-1.2.3		Develop a VDL implementation plan and its applications			Thu 01/11/07	Tue 08/07/08	65%									
31	CNS/2-1.2.4		Follow-up of VDL implementation plans and applications			Wed 09/07/08	Mon 27/12/10	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 07/04/03	Tue 28/12/10	52%									
33	CNS/2-1.3.1		Develop strategy for the transition to Inter/network ATN services			Tue 08/04/03	Mon 28/02/05	100%									
34	CNS/2-1.3.2		Review, refine and complete the Initial Regional ATN Plan		A	Mon 07/04/03	Mon 28/07/08	80%									
35	CNS/2-1.3.3		Complete the development of an ATN addressing plan		B	Mon 02/02/04	Fri 10/07/09	55%									
36	CNS/2-1.3.4		Plans for implementation of ATN ground portion and applications		A	Tue 08/07/03	Fri 10/07/09	67%									
37	CNS/2-1.3.5		Develop an ATN initial operational and managerial use			Tue 08/07/03	Tue 28/12/10	23%									
38	CNS/2-1.3.5.1		a) ground-ground applications		A	Tue 08/07/03	Mon 28/07/08	40%									
39	CNS/2-1.3.5.2		b) air-ground applications		B	Mon 02/02/04	Tue 28/12/10	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 05/06/06	Mon 13/07/09	53%									
41	CNS/2-1.3.6.1		Initial Coordinations for communication requirements for ATFM			Mon 05/06/06	Fri 08/06/07	100%									
42	CNS/2-1.3.6.1		Initial review of communication requirements for ATFM			Tue 19/06/07	Mon 30/06/08	60%									
43	CNS/2-1.3.6.1		Initial Action Plan for communication requirements implementatic			Tue 01/07/08	Mon 13/07/09	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 02/07/01	Fri 23/09/05	100%									
45	CNS/2-1.4.1		Initial study the possibilities of using the Internet services			Mon 02/07/01	Fri 11/06/04	100%									
46	CNS/2-1.4.2		Guide the use of Internet services, as ICAO guidelines			Fri 01/04/05	Fri 23/09/05	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 18/04/05	Tue 30/06/09	50%									
48	CNS/2-2		Regional development of voice communication systems	CNS Committee & Regional Offices	A	Mon 02/07/01	Fri 16/07/10	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 02/07/01	Fri 16/07/10	75%									
50	CNS/3		<b>NAVIGATION SYSTEMS DEVELOPMENTS</b>			Mon 02/07/01	Fri 31/12/10	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 02/07/01	Fri 11/06/10	62%									
52	CNS/3-2.1		Review the results of SBAS augmentation trials carried out in the CAR/SAM Regions.		A	Mon 02/07/01	Fri 11/06/10	63%									

CNS Committee Work Programe Date: Fri 20/06/08	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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ID	Section	References	Task Name	Responsibility	Priority	Start	End	%	2000			2008			2016		
									tr	tr	tr	tr	tr	tr	tr	tr	tr
53	CNS/3-2.2	GPI 21 GPI 5 Strategic Objective D	Develop regional guidelines on implementation of GNSS augmentation systems		A	Mon 10/11/03	Mon 30/06/08	70%									
54	CNS/3-2.2.1		Update and review the regional GNSS revised guidelines			Mon 10/11/03	Mon 30/06/08	70%									
55	CNS/3-2.3	GPI 21 GPI 5 Strategic Objective D	Studies on a Regional GNSS augm. implementation plan		A	Mon 02/06/03	Tue 30/12/08	57%									
56	CNS/3-2.3.1		Considerations on the feasibility of regional GNSS augmentation		B	Mon 02/06/03	Fri 04/07/08	67%									
57	CNS/3-2.3.2		Evaluate implementation alternatives of a SBAS/GBAS system		B	Mon 14/03/05	Tue 30/12/08	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 02/02/04	Tue 19/05/09	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 02/02/04	Thu 31/08/06	100%									
60	CNS/3-3.2		Review/update guidelines/strategies on the migration towards GNSS		B	Fri 01/09/06	Tue 30/12/08	20%									
61	CNS/3-3.3		Develop a Regional GNSS implementation plan		B	Wed 31/12/08	Tue 19/05/09	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 20/05/09	Fri 31/12/10	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 02/10/06	Fri 30/05/08	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 10/03/08	Tue 30/12/08	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 10/03/08	Tue 30/12/08	0%									
66	CNS/4		<b>SURVEILLANCE SYSTEMS DEVELOPMENTS</b>			Mon 04/06/01	Fri 09/07/10	71%									
67	CNS/4-1	GPI 9,GPI17 Strategic Objective D	Development of surveillance radar systems	CNS Committee & Regional Offices	A	Mon 13/05/02	Tue 30/12/08	88%									
68	CNS/4-1.1		Develop a radar regional implementation guidelines		A	Mon 13/05/02	Thu 19/09/02	100%									
69	CNS/4-1.2		Studies and recommendations of action on the SSR Mode S		B	Fri 01/07/05	Thu 30/11/06	100%									
70	CNS4.1.3	GPI 9 Strategic Objective D	Develop regional register for aircraft equipped with Mode S transponder		B	Fri 20/04/07	Tue 30/12/08	75%									
71	CNS/4-2	GPI 9 Strategic Objective D	Studies on regional radar data sharing			Mon 04/06/01	Fri 18/11/05	100%									
72	CNS/4-2.1		Studies on radar data sharing feasibility		A	Mon 04/06/01	Thu 19/09/02	100%									
73	CNS/4-2.2		Proposal for a regional common protocol use		A	Fri 20/09/02	Wed 07/05/03	100%									
74	CNS/4-2.3		Development of regional guidelines on radar data sharing		A	Fri 28/06/02	Thu 19/09/02	100%									
75	CNS/4-2.4		Studies on a regional ASTERIX assignment codes		A	Mon 08/09/03	Fri 18/11/05	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 09/03/04	Fri 10/07/09	66%									

CNS Committee Work Programme Date: Fri 20/06/08	Task		Summary		Rolled Up Progress		Project Summary	
	Progress		Rolled Up Task		Split		Group By Summary	
	Milestone		Rolled Up Milestone		External Tasks			

**APENDICE A /APPENDIX A**  
**PROGRAMA DE TRABAJO DEL COMITE CNS Y FUTURO SUBGRUPO CNS/WORK PROGRAMM OF CNS COMMITTEE AND FUTURE CNS SUBGROUP**

CNS/COMM/6-NE/16 - WP/16  
A4

ID	Section	References	Task Name	Responsibility	Priority	Start	End	%	2000			2008			2016		
									tr	tr	tr	tr	tr	tr	tr	tr	tr
77	CNS/4-3.1		Review and improvement of ADS regional guidelines		B	Tue 09/03/04	Mon 30/06/08	70%									
78	CNS/4-3.2		Studies on regional implementation of ADS-C & ADS-B systems		B	Mon 07/11/05	Fri 04/07/08	85%									
79	CNS/4-3.3		Development of a regional plan for ADS-C & ADS-B implementation		B	Mon 07/07/08	Fri 10/07/09	0%									
80	CNS/4-4	GPI 9,GPI17 Strategic Objective D	Develop target dates and strategies for the development of the ACAS system		B	Fri 07/10/05	Fri 29/09/06	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 09/06/06	Fri 09/07/10	31%									
82	CNS/4-5.1		Update and follow-up of the regional Plan on Surveillance Systems an		B	Fri 09/06/06	Fri 09/07/10	31%									
83	CNS/5		<b>REGIONAL ATM AUTOMATION DEVELOPMENTS</b>			Mon 01/04/02	Fri 10/07/09	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 01/04/02	Fri 10/07/09	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 01/04/02	Fri 12/06/09	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 17/10/05	Fri 10/07/09	64%									

CNS Committee Work Programme Date: Fri 20/06/08	Task		Summary		Rolled Up Progress		Project Summary	
	Progress		Rolled Up Task		Split		Group By Summary	
	Milestone		Rolled Up Milestone		External Tasks			

## APPENDIX B

### TERMS OF REFERENCE AND WORK PROGRAMME FOR THE CNS COMMITTEE

#### 1. Terms of Reference

Review, fine-tune and complete the planning of the CNS systems, recommending its incorporation in the CAR/SAM FASID ANP, based on the application of planning principles developed by the CAR/SAM/3 RAN Meeting, in the global Plan of air navigation for the CNS/ATM systems, on the results of the inter-regional planning and co-ordination and on ICAO SARPs and technical guidelines, related with the coordinated implementation and harmonization of CNS/ATM systems. Also, to study, review and propose measures for the implementation of the CNS systems recommended in the ANP CAR/SAM FASID.

#### 2. Work Programme

TASK NUMBER	TASK DESCRIPTION	PRIORITY	DATE	
			START	END
CNS/1	<b>General Matters</b>			
CNS/2	<b>Communications Developments</b>			
CNS/2-1.1	Guide the development for interconnection/integration of digital COM networks	A	31/05/02	24/12/10
CNS/2-1.2.3	Develop a VDL implementation plan and its application	B	02/05/05	08/07/08
CNS/2-1.3.2	Review, fine-tune and complete the initial transition plan for the evolutionary development of the ATN and of its applications.	A	07/04/03	28/07/08
CNS/2-1.3.3	Guide the development of the ATN addressing plan in accordance with the ICAO principles and technical provisions.	B	02/02/04	10/07/09
CNS/2-1.3.4	Develop plans for the evolutionary implementation of the ground infrastructure of ATN and the development of ground-ground applications such as AIDC and AMHS.	A	08/07/03	10/07/09
CNS/2-1.3.5	Develop an ATN initial operation and managerial use of:	A	08/07/03	28/12/10
	a) ground-ground applications; and	A	08/07/03	28/07/08
	b) air-ground applications.	B	02/02/04	28/12/10
CNS/2-1.3.6	Review proposals for data communications infrastructure to support ATFM implementation	B	06/03/06	13/07/09
CNS/2-1.5	Develop a CAR/SAM plan to provide the communications system required for the migration toward the exchange of aeronautical MET messages (METAR/SPECI and TAF) in BUFR code form.	A	18/04/05	30/06/09
CNS/3	<b>Navigation Developments</b>			

TASK NUMBER	TASK DESCRIPTION	PRIORITY	DATE	
			START	END
CNS/3-2.1	Review the results of SBAS augmentation trials carried out in the CAR/SAM Regions.	A	02/07/01	11/06/10
CNS/3-2.2.1	Update the regional guidelines and strategies for the deployment and implementation of the GNSS augmentation systems.	A	10/11/03	30/06/08
CNS/3.2.3.1	Considerations on the feasibility of regional application, technical aspects, operational benefits, related costs, implementation, implications for the on-board equipment and other relevant aspects.	A	06/02/03	04/07/08
CNS/3.2.3.2	To lead studies on regional implementation alternatives of a SBAS/GBAS system, taking into account the evolution of GNSS.	A	14/03/05	30/12/08
CNS/3-3.5	Prepare a Regional Plan for the deactivation of NDB		02/10/06	30/05/08
CNS/4	<b>Surveillance Development</b>			
CNS/4-3.2	Studies and recommendations of actions for the SSR in Mode S, ADS-C, ADS-B and other surveillance systems, sub regional/regional implementation	B	09/03/04	04/07/08
CNS/4-3.3	Development of a regional plan for ADS-C & ADS-B implementation	B	07/07/08	10/07/09

### 3. Priority

- A** High priority tasks, on which work should be speeded up.
- B** Medium priority tasks, on which work should commence as soon as possible, but without detriment to Priority **A** tasks.
- C** Tasks of lesser priority, on which work should commence as time and resources allow, but without detriment to Priority **A** and **B** tasks.

### 4. Composition

Antigua, Argentina, Barbados, Bolivia, Brazil, Chile, Colombia, Cuba, Dominican Republic, Ecuador, France, Haiti, Jamaica, Mexico, Panama, Paraguay, Peru, Spain, Trinidad and Tobago, United States, Uruguay, Venezuela, ARINC, COCESNA, IATA, IFALPA and SITA.

The Chairperson and Vice-chairperson designated by the CNS Committee elected in the Fourth Meeting are: Ricardo Bordalí (Chile) and Mrs. Veronica Ramdath (Trinidad and Tobago) respectively.

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**APÉNDICE C/APPENDIX C**

**PROGRAMA DE TRABAJO PROPUESTO DEL COMITÉ CNS Y FUTURO SUBGRUPO CNS  
TOMANDO EN CUENTA LAS ORIENTACIONES DEL PROYECTO DE DECISIÓN ACG/7/02**

**PROPOSED WORK PROGRAMME OF CNS COMMITTEE AND FUTURE CNS SUB-GROUP  
TAKING INTO ACCOUNT ORIENTATIONS OF DRAFT DECISION ACG/7/02**

No.	Objetivo Estratégico, Iniciativas Plan Mundial, Plan Regional FASID y/o Conclusiones/Decision es válidas GREPECAS  Strategic Objective, Global Performance Indicators, FASID Regional Plan and/or valid GREPECAS Conclusions/ Decisions	Actividad/ Activity	Acción de seguimiento/ Follow-up Action	Entregable/ Deliverable	Responsable/ Responsible	Fecha límite/ Deadline	Observaciones/ Remarks
1	2	3	4	5	6	7	8
CNS/2-1.1	Objetivo EsT: D, IPM/GPI: 22, Conclusión 14/52	Guiar la interconexión/ integración de redes digitales de comunicaciones.  Guide the interconnection/integration of Communications digital networks	Oficinas Regionales, Reuniones OACI  Regional Offices, ICAO Meetings	Implantación de la interconexión de las Redes MEVAII REDDIG  Implementation of MEVAII/ REDDIG Interconnection  Plan Preliminar de integración de las redes MEVA II REDDIG y borrador de MoU para la integración MEVA II REDDIG  Preliminary Plan for the integration of MEVA II / REDDIG Networks and Draft MoU for MEVA II/REDDIG integration	Grupo/Group MEVAII REDDIG / OACI/ICAO  Grupo/Group MEVAII REDDIG / OACI/ICAO	Mayo/May 2009  Abril/April 2009	

No.	Objetivo Estratégico, Iniciativas Plan Mundial, Plan Regional FASID y/o Conclusiones/Decisiones válidas GREPECAS  Strategic Objective, Global Performance Indicators, FASID Regional Plan and/or valid GREPECAS Conclusions/ Decisions	Actividad/ Activity	Acción de seguimiento/ Follow-up Action	Entregable/ Deliverable	Responsable/ Responsible	Fecha límite/ Deadline	Observaciones/ Remarks
1	2	3	4	5	6	7	8
CNS/2-1.2.3	Objetivo EsT: D, IPM/GPI: 17, Tabla CNS 2A, Conclusión 13/72	Desarrollar un plan de implantación VDL y su aplicación  Develop a VDL implementation Plan and its application	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Plan de implementación VDL con sus aplicaciones  VDL Implement. Plan and applications	Comité CNS  CNS Committee	Julio/July 2008	
CNS/2-1.3.2	Objetivo EsT: D, IPM/GPI: 17 y 22, Tabla CNS 1Ba-1Bb-1Bc Conclusiones 13/74 y 13/79	Revisar, actualizar y completar el plan de transición inicial para el desarrollo evolutivo de la ATN y sus aplicaciones  Review, update and complete inicial transition plan for the evolutionary development of ATN and applications	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Plan de Transición Inicial ATN  Initial ATN Transition Plan  Información para actualización de los Planes del ATN (Tablas CNS 1Ba y 1Bc)  Information for the update of ATN Plans (Tables CNS 1Ba and 1Bc)	Grupo de Tarea ATN  ATN Task Force  Grupo de Tarea ATN  ATN Task Force	Julio/July 2008    Julio/July 2009	
CNS/2-1.3.3	Objetivo EsT: D, IPM/GPI: 22 y 17, CNS/COMM Decisión 5/3	Orientar el desarrollo del plan de direccionamiento ATN, de conformidad con los principios y disposiciones técnicas de la OACI  Guide de development of ATN addressing plan according to ICAO technical principles and guidelines	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Plan de direccionamiento ATN  ATN addressing Plan	Grupo de Tarea ATN  ATN Task Force	Julio/July 2009	

No.	Objetivo Estratégico, Iniciativas Plan Mundial, Plan Regional FASID y/o Conclusiones/Decisiones válidas GREPECAS  Strategic Objective, Global Performance Indicators, FASID Regional Plan and/or valid GREPECAS Conclusions/Decisions	Actividad/ Activity	Acción de seguimiento/ Follow-up Action	Entregable/ Deliverable	Responsable/ Responsible	Fecha límite/ Deadline	Observaciones/ Remarks
1	2	3	4	5	6	7	8
CNS/2-1.3.4	Objetivo EsT:D, IPM/GPI: 17 y 22, Tabla CNS 1Bc, Conclusiones 13/74 y 13/79	Desarrollar planes para la implantación evolutiva de la infraestructura terrestre de la ATN y el desarrollo de aplicaciones tierra-tierra, tales como AIDC y AMHS.  Develop plans for the evolutionary implementation of ATN ground infrastructure and the development of ground-ground applications, such as AIDC and AMHS.	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Información para actualización de Plan de implantación de aplicaciones tierra-tierra como AMHS y AIDC (tabla CNS 1Bb)  Information for updating Implementation plan for ground-ground application, such as AMHS and AIDC (Table CNS 1Bb)	Grupo de Tarea ATN  ATN Task Force	Julio/July 2009	
CNS/2-1.3.5	Objetivo EsT: D, IPM/GPI: 17 y 22, Conclusiones 13/74 y 13/79	Establecer dentro de la ATN el uso inicial a nivel operacional y gerencial de:  Establish within ATN the initial use at operational and managerial level of:	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings				
		a) aplicaciones tierra-tierra; y  ground to ground applications and		Uso inicial aplicaciones tierra-tierra  Initial use of ground-ground applications	Estados Regionales CAR/SAM States Regions	Julio/July 2008	
		b) aplicaciones aire-tierra.  air-ground applications.		Uso inicial aplicaciones tierra aire  Initial use of air-ground applications	Estados Regionales CAR/SAM States Regions	Diciembre/December 2010	
CNS/2-1.3.6	Objetivo EsT: D, IPM/GPI: 17 y 22, Conclusiones 14/43 y 14/44	Analizar las propuestas de infraestructura de comunicaciones de datos en apoyo de la implantación de la ATFM  Analyse proposals for data Communications infrastructure in support of ATFM implementation	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Propuesta de infraestructura de comunicaciones para la ATFM  Proposal for ATFM Communications infrastructure	Comité CNS  CNS Committee	Junio/June 2008	

No.	Objetivo Estratégico, Iniciativas Plan Mundial, Plan Regional FASID y/o Conclusiones/Decisiones válidas GREPECAS  Strategic Objective, Global Performance Indicators, FASID Regional Plan and/or valid GREPECAS Conclusions/Decisions	Actividad/ Activity	Acción de seguimiento/ Follow-up Action	Entregable/ Deliverable	Responsable/ Responsible	Fecha límite/ Deadline	Observaciones/ Remarks
1	2	3	4	5	6	7	8
CNS/2-1.5	Objetivo EsT: D, IPM/GPI: 17 y 22, Tabla MET 2A y 2B, Conclusión 14/54	Elaborar un plan CAR/SAM para establecer el sistema de comunicaciones necesario para la migración hacia el intercambio de mensajes aeronáuticos MET (METAR/SPECI y TAF) en forma de clave BUFR  Elaborate a CAR/SAM plan for the establishment of the communications system needed for the migration towards aeronautical MET messages exchange (METAR/SPECI and TAF) in BUFR code form	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Definición de los requerimientos/consideraciones en comunicaciones para el intercambio de mensajes aeronáuticos MET en nuevos formatos  Definition of requirements and considerations in Communications for MET aeronautical messages Exchange in new formats	Grupo de Tarea ATN  ATN Task Force	Junio/June 2009	Tarea conjunta con COM/MET del Subgrupo MET  Joint tasks with COM/MET of MET Subgroup
CNS/3-2.1	Objetivo EsT: D, IPM/GPI: 21 y 5	Analizar los resultados de los ensayos de aumentación SBAS realizados en las Regiones CAR/SAM  Analyse results of SBAS augmentation trials carried out in CAR/SAM Regions	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Análisis de los resultados de los ensayos SBAS.  Analysis of SBAS trials results.	Grupo de tarea GNSS  GNSS Task Force	Junio/June 2010	
CNS/3-2.2.1	Objetivo EsT: D, IPM/GPI: 21 y 5, Conclusión 12/45 y Decisión 14/55	Actualizar los textos de orientación y las estrategias regionales para la instalación e implantación de los sistemas de aumentación GNSS  Update guideline texts and regional strategies for the installation and implementation of GNSS augmentation Systems.	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Propuesta de actualizaciones a Estrategia Regional para la implementación de los sistemas de aumentación GNSS Regional Strategy update proposal for the implementation of the GNSS augmentation Systems.	Grupo de tarea GNSS  GNSS Task Force	Julio/July 2008	

No.	Objetivo Estratégico, Iniciativas Plan Mundial, Plan Regional FASID y/o Conclusiones/Decisiones válidas GREPECAS  Strategic Objective, Global Performance Indicators, FASID Regional Plan and/or valid GREPECAS Conclusions/ Decisions	Actividad/ Activity	Acción de seguimiento/ Follow-up Action	Entregable/ Deliverable	Responsible/ Responsible	Fecha límite/ Deadline	Observaciones/ Remarks
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CNS/3.2.3.1	Objetivo EsT: D, IPM/GPI: 21 y 5, Tabla CNS 3, Conclusión 12/45 y Decisión 14/55	Consideraciones sobre la factibilidad de la aplicación regional, los aspectos técnicos, los beneficios operacionales, los costos asociados, la implantación, las implicancias para los equipos de a bordo y otros aspectos pertinentes.  Considerations on regional application, technical aspects, operational benefits, associated costs, implementation itself, implications for on/board equipment and other pertinent aspects.	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Análisis costo beneficio para la implementación de sistemas de aumentación GNSS  Cost-benefit analysis for the implementation of GNSS augmentation systems	Grupo de Tarea GNSS  GNSS Task Force	Julio/July 2008	
CNS/3.2.3.2	Objetivo EsT: D, IPM/GPI: 21 y 5, Tabla CNS 3, Conclusión 12/45	Dirigir estudios sobre las opciones de implantación de un sistema SBAS/GBAS a nivel regional, tomando en cuenta la evolución del GNSS.  Carry out studies on the options for the implementation of a regional SBAS/ GBAS system, taking into account GNSS evolution.	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Estudio sobre opciones de implementación de un sistema SBAS/GBAS  Study on implementation options of a SBAS/GBAS system	Comité CNS  CNS Committee	Diciembre/ December 2008	
CNS/3-3.5	Objetivo EsT: D, IPM/GPI: 21 y 5, Tabla CNS 3, Conclusiones 14/56 y 14/57	Elaborar un plan regional para la desactivación de los NDB.  Elaborate a regional for NDB deactivation.	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Plan Regional de desactivación de Estación NDB  Regional Plan for deactivation of NDB Station	Comité CNS  CNS Committee	Mayo/May 2008	

No.	Objetivo Estratégico, Iniciativas Plan Mundial, Plan Regional FASID y/o Conclusiones/Decisiones válidas GREPECAS  Strategic Objective, Global Performance Indicators, FASID Regional Plan and/or valid GREPECAS Conclusions/Decisions	Actividad/ Activity	Acción de seguimiento/ Follow-up Action	Entregable/ Deliverable	Responsable/ Responsible	Fecha límite/ Deadline	Observaciones/ Remarks
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CNS/4-3.2	Objetivo EsT: D, IPM/GPI: 9 y 17, Conclusión 13/87	Estudios y recomendaciones de acción para el SSR en Modo S, ADS-C, ADS-B y otros sistemas de vigilancia, implantación a nivel sub-regional/regional.  Studies and recommendations for the SSR in Mode S, ADS-C, ADS-B and other surveillance Systems, subregional/regional implementation	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	Estrategia unificada de implementación de sistemas de vigilancia  Unified Strategy for the implementation of surveillance systems	Grupo de tarea de vigilancia  Surveillance Task Force	Julio/July 2009	
CNS/4-3.3	Objetivo EsT: D, IPM/GPI: 9 y 17, Tabla CNS 4A, Conclusión 13/87	Elaboración de un plan regional para la implantación ADS-C y ADS-B.  Elaboration of a regional plan for ADS-C and ADS-B implementation.	Oficinas Regionales Reuniones OACI  Regional Offices, ICAO Meetings	información para actualización de Plan de Sistemas de Vigilancia (Tabla CNS 4A) en sus apartados de ADS-B y ADS-C  Updated information of the Surveillance System Plan (Table CNS 4A) parts ADS-B and ADS-C	Grupo de Tarea de Vigilancia  Surveillance Task Force	Julio/July 2009	

## EXPLICACIÓN DE LA TABLA/EXPLANATION OF THE TABLE

### PROGRAMA DE TRABAJO PROPUESTO PARA EL COMITÉ CNS Y FUTURO SUBGRUPO CNS/ PROPOSED WORK PROGRAMME FOR THE CNS COMMITTEE AND FUTURE CNS SUBGROUP

Número / Título de Columna Number / Column Title	Descripción del Contenido / Content Description
1 / No.	Indica el numero de tarea asociado al Comité CNS y futuro Subgrupo CNS / Indicates the task number in relation to the CNS Committee and future CNS Subgroup
2/ Objetivo Estratégico, Iniciativas del Plan mundial, Plan Regional FASID y/o Conclusiones/Decisiones válidas GREPECAS / Strategic Objective, Global Performance Indicators, Regional Plan FASID and/or GREPECAS valid Conclusions/Decisions	Indica la relación de la tarea con el /los objetivos estratégicos de la OACI, las Iniciativas del Plan Mundial de la OACI, el Plan Regional FASID y/o las conclusiones o decisiones válidas del GREPECAS / Indicates the relation of the task with ICAO strategic objective/objectives, ICAO Global Performance Indicators, Regional Plan FASID and/or GREPECAS valid conclusions or decisions
3/ Actividad / Activity	Descripción de la Tarea a realizar / Description of the Task to be carried out
4/ Acción de seguimiento / Follow-up Action	Indica los mecanismo para el seguimiento de la ejecución de las tareas (Actividades de las Oficinas Regionales de la OACI, Reuniones de coordinación, de grupo de tareas del subgrupo o informales, etc.) / Indicates the mechanism for follow up of the tasks execution (ICAO Regional Offices Activities, Coordination Meeting, Meetings of the Subgroup Task Forces or informal meetings, etc.)
5/ Entregable / Deliverable	Indica el producto esperado a obtenerse / Indicates the expected product
6/ Responsable / Responsible	Indica Responsable/s para la ejecución de la tarea / Indicates Responsible person or group for the execution of the task
7/ Fecha limite / Deadline	Indica la fecha limite para la entrega del producto descrito en la columna 5 / Indicates the deadline for the delivery of the product describes in column 5
8/ Observaciones / Remarks	Indica observaciones relevantes a la tarea indicada / Indicates relevant remarks for the indicated task