



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
TWELFTH MEETING ON THE IMPROVEMENT OF THE AIR TRAFFIC SERVICES IN THE SOUTH
ATLANTIC**

(Sal, Cape Verde, 15 – 17 December 2004)

Agenda Item 6: Any other business

Future Work Programme

(Presented by the Secretariat)

SUMMARY

Appendices to this paper propose the tasks to be addressed by SAT Task Force, Random RNAV Routing and Technical Working Group respectively.

Action by the meeting:

The meeting is invited to review and amend as necessary the terms of reference, and compositions of SAT/12 Task Force, Random RNAV Routing Study Group and Technical Working Group.

Appendix A

**TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE SAT
ATM WORKING GROUP (ATM/WG)**

<ul style="list-style-type: none"> Considering the evolutionary implementation of CNS/ATM systems in areas of routing AR1/AH2 AR-2/AH8, the Task Force should explore ways and means to achieve further enhancements in ATM capacity and aeronautical telecommunications, and to implement CNS/ATM elements taking into consideration the timescales agreed for these areas of routing. It will be guided by the requirements identified in the AFI and CAR/SAM CNS/ATM Implementation Plans. <i>Note: The Task Force will adopt a pragmatic approach and may set up auxiliary bodies to carry out specific tasks, as necessary.</i> 		
WORK PROGRAMME		
TASK No.	SUBJECT	TARGET DATE
1.	Analyze ATM deficiencies and make proposals for their elimination.	Continuous
2.	Monitor pre-implementation/post-implementation safety assessments for RVSM and RNP operations in the South Atlantic.	Continuous
3.	Study and evaluate RVSM, RNP/RNAV procedures applicable in the AFI/CAR/SAM and EUR/SAM Interface areas.	Continuous
4.	Monitor flight plan availability and propose appropriate corrective measures.	Continuous
5.	Keep ADS/CPDLC operational guidance material updated.	Continuous
6.	Conduct studies related to the implementation of the Global ATM Operational Concept and other enabling concepts within the SAT area.	Continuous
7.	Continue studies related to the implementation of the AORRA airspace.	SAT/13
<ul style="list-style-type: none"> Note: The ATM/WG should take appropriate action on pressing issues and submit its proposal to the SAT/13 meeting. 		
COMPOSITION		
<ul style="list-style-type: none"> <i>The Task Force of multi-disciplinary nature shall comprise of experts from States responsible of FIRs in routing areas AR1/AH2 and AR2/AH8, and experts from adjacent FIRs and international organizations.</i> Rapporteur: Spain Task Team leaders: South Africa (Tasks Nos. 5 and 7). Working arrangements: The ATM/WG should complete its work and submit its proposal to the SAT Group. The ATM/WG should work through electronic correspondence prior to meetings. 		

Appendix B

TERMS OF REFERENCE, WORKING PROGRAMME AND COMPOSITION OF THE SAT STUDY GROUP ON THE IMPROVEMENT OF THE AIRSPACE STRUCTURE IN THE EUR/SAM CORRIDOR (IAS/SG)

To develop a strategy for the short-term, mid-term and long term for the implementation of a new airspace structure in the EUR/SAM Corridor with the end to improve the capacity and efficiency of the operations and to meet users needs.

WORK PROGRAMME

TASK No.	SUBJECT	TARGET DATE
1.	Analyze the current operational situation within the EUR/SAM Corridor taking into account statistics and users needs.	SAT/13
2.	Explore ways and means to restructure the EUR/SAM Corridor airspace	SAT/13
3.	Develop a short term plan using the current separation standards based on RNP 10 including the implementation of new ATS routes.	SAT/13
4.	Analyze the advantage of introducing unidirectional ATS routes.	SAT/13
5.	Study the feasibility of implementing RNP 4, using ADS/CPDLC functionalities.	SAT/13
6.	Continue studies to implement a random routing area, using ADS/CPDLC functionalities.	SAT/13
7.	Develop necessary cost benefit analysis for the different options.	SAT/13
8.	Establish means to develop the safety assessment for the different options.	SAT/13
9.	Develop an action plan for the different options.	SAT/13

COMPOSITION

- Brazil, Cape Verde, France, Portugal, Senegal, Spain, Trinidad and Tobago, United States, ASECNA and IATA.
- **Rapporteur: Spain.**
- **Working arrangements:** *The IAS/SG should take the appropriate action to complete its work and submit its proposals to the next meeting of the SAT Group. The IAS/SG should work through electronic correspondence prior to meetings.*

**TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE
SAT CNS WORKING GROUP(CNS/WG)**

- Considering the CAR/SAM and AFI Air Navigation Plans, the SAT CNS/WG should explore ways and means of achieving further enhancements in ATM efficiency within in areas of routing AR1/AH2 AR-2/AH8, by resorting to emerging technologies and, in particular, by taking advantage of rationalization, integration and harmonization of systems where appropriate.
- Implementation of new systems should be sufficiently flexible to accommodate existing and future services in an evolutionary and cost-effective manner.
- The associated institutional arrangements shall not inhibit competition among service providers complying with relevant ICAO Standards, Recommended Practices and Procedures.

WORK PROGRAMME

TASK No.	SUBJECT	TARGET DATE
10.	Analyze CNS deficiencies and make proposals for their elimination.	Continuous
11.	Carry out, as required, studies on the use of existing VSAT networks potentialities to cater for aeronautical telecommunication requirements in the SAT area. Such studies should include coordination issues, service channel interfaces, monitoring and control, system architecture, new services, user interfaces and bandwidth monitoring.	Continuous
12.	Undertake investigations on the lack of flight plans, including individual cases, with emphasis on the aeronautical fixed telecommunication network (links, switching centres, routing directory and transit time statistics).	Continuous
13.	Carry out a detailed feasibility study on the interoperability between aeronautical VSAT networks of relevance to SAT area (AFISNET, CAFSAT, REDDIG, SADC), including their consolidation on Satellite IS 10.02 and harmonization of AFS end-to-end protocols, in order to achieve an integrated, seamless and cost-effective network.	SAT/13
14.	Evaluate the feasibility of using existing or emerging digital VSAT networks (AFISNET, CAFSAT, , REDDIG, SADC, etc.) to support ATS data link applications in an ATN environment.	SAT/13
15.	Considering the implementation time-frames in the AFI and SAM CNS/ATM implementation plans, address cost-benefit aspects for the use of CNS/ATM applications (as required).	Continuous
16.	Harmonize the technical aspects of ADS/CPDLC programmes developed by SAT States/FIRs, taking due account of the operational guidance material contained in the FANS 1/A Operational Manual. Issues such as the use of common standards, transmission protocols, data formats, procedures, methods of work, etc... should be addressed in this connection.	SAT/13

COMPOSITION

- The CNS/WG being of multi-disciplinary nature shall comprise of experts from States responsible of FIRs in the area concerned, experts from adjacent FIRs and international organizations and the aeronautical industry.
- **Rapporteur:** Senegal.
- **Task Team leaders:** ASECNA (Tasks. Nos.2 and 4), South Africa (Task No.7)
- **Working arrangements:** The CNS/WG should complete its work and submit its proposal to the CNS/WG. The CNS/WG should work through electronic correspondence prior to meetings.
