International Civil Aviation Organization

SIXTEENTH MEETING ON THE IMPROVEMENT OF AIR TRAFFIC SERVICES OVER THE SOUTH ATLANTIC

(Recife, Brazil, 4-6 May 2008)

Agenda Item 2:   **Communications, navigation, surveillance (CNS)**

**ATS-N5 Voice protocol for EUR-SAM
Spain**

(Presented by Spain)

SUMMARY

This paper comments the benefits of a Voice Switching Network ATS-N5 and presents the work done between Cape Verde (Sal) and Spain (Canaries ACC) starting up a full operative link based on ATS Ground-Ground voice protocol on a CAFSAT support.

1.   **INTRODUCTION**

The main advantages derived from the use of an ATS Ground Voice Switching Network are summarized below:

1.   Reduction of the number of circuits (Ground-Ground links are shared by a number of users);

2.   More than one link to access to a user;

3.   Direct route and alternate routes are configured among VCSs for call routing;

4.   Normal and Priority calls;

5.   Automatic line checking;

In that sense, in order to promote this protocol in EUR/SAM Corridor, SAT/CNS group has adopted several conclusions aimed to establish a common line for ATS-N5:

Conclusion SAT/15/11: Trials for extension of ATS-N5 Voice switching protocol; *that:*

SAT States continue their collaborative technical arrangements to conduct trials for extension of ATS-N5 voice switching protocol by adopting the following steps:

1) Spain to provide an updated form containing the technical requirements for VCSSs capability to support ATS-N5 voice switching protocol;

(3 pages)

2) Other SAT States to assess their current VCSSs capability in line with the technical requirements provided by Spain and take into account these requirements when updating their VCSSs and report the assessment results to ICAO; and

3) ICAO to coordinate the process by compiling the available information to be forwarded to all stakeholders.

Conclusion SAT 14/08: ATS Voice Numbering Plans for AFI Region That ICAO take the necessary steps to include in the appropriate working group the need to study the implementation of ATS Voice Numbering Plans for AFI Region, as defined by the recommendation contained within the ICAO Manual on ATS Ground-Ground Voice Switching and Signaling (Doc 9804,Chapter 2 Section 2.3). .

Conclusion SAT 14/09: Trials for extension of ATS-N5 Voice Switching protocol Encourage SAT States to participate in the trials for extension of ATS-N5 Voice Switching protocol following the successful implementation of ATS-N5 (via CAFSAT) between Cape Verde and Las Palmas

Conclusion SAT13/18b -CAPE VERDE, SPAIN, PORTUGAL and ASECNA implement trials in order to establish the prerequisites related to the implementation of the ATS Nº5 protocols in the SAT area, in accordance with ICAO guidance material contained in ANNEX 10 and Doc 9804

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2.   **DISCUSSION**

Portugal, Cape Verde and Spain has already informed about VCSS compatibility, about conducted trials and operative and implemented ATS-N5 circuits for ATC ground-ground communications. This experience has been also presented to the rest of SAT States.

In order all SAT States to achieve this protocol here are *The minimum requirements for a VCSS to operate as an AGVN node* (ATS Ground Voice Network) on ATS-N5:

a) **Support the configuration of a numbering plan AGVN, according to ICAO recommendation ("ICAO Manual on ATS Ground-Ground Voice Switching and Signaling", Chapter 2 Section 2.3"), and additionally according to Eurocontrol document (ATS Ground Voice Network Implementation and Planning Guidelines Ed 1-0 (Feb 05)")·**

b) **Availability of ATS-N5 interface, according to Eurocontrol recommendation ("ATS-R2 and ATS-No.5 protocol specification Ed 2.0 (June 05)")**

c) **Confirm/upgrade operative VCSS to referred documents in a) and b).**

d) **Ensure related requisites AGVN/ATS-N5 are met in the specification and implementation of a new VCSS.**

e) **Numbering Plan**

A numbering plan has to be designed so ATS-N5 can be configured to be used. At this point is important to comment that "Area benefits" only can be met if a Numbering plan is established so conclusion SAT13/7 should be recalled

> "*SAT States, Organizations concerned and ICAO Regional Offices take the necessary steps to include in GREPPECAS and APIRG work programs studies on the implementation of ATS Voice Numbering Plan for AFI and SAM Regions , as defined by the recommendation contained within ICAO Manual on ATS Ground-Ground Voice Switching and Signalling (Doc 9804,Chapter 2 Section 2.3).*

3.   **ACTION BY THE MEETING**

The SAT/16 Meeting is invited to:

a)   Take note of the information provided in this WP

b)   SAT States provide information about VCSS ATS-N5 compatibility.

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