



**Agenda Item 2: Based on the results of the ACG/7 meeting, review of the proposals for GREPECAS/15 concerning the future treatment of ATM and CNS matters**

### **IMPROVEMENT OF THE WORK SCHEME OF THE ATM/CNS SUBGROUP**

Presented by Brazil

#### **SUMMARY**

This working paper contains proposed changes to the mechanics of the ATM/CNS Subgroup, to ensure a more effective coordination between the ATM and CNS Committees, without dissolving the Subgroup or the Committees.

#### **References:**

- Report of the GREPECAS/13 meeting
- Report of the GREPECAS/14 meeting
- Report of the ACG/7 meeting

## **1. Introduction**

1.1 The ATM/CNS Subgroup was established during the ninth meeting of GREPECAS to replace the ATS, COM and CNS/ATM/IC Subgroups and take over their tasks. This decision made by GREPECAS was based on the premise that a single subgroup, analysing CNS/ATM matters, would be more effective in coordinating the two areas involved in the planning the implementation of the “New System.” Thus, the first five Subgroup meetings revealed the benefits of bringing together ATM and CNS experts at the same time and under the same agenda, even though these experts needed to break up into committees to address certain specific matters.

1.2 In actual fact, the Subgroup meeting involves four different working meetings: the plenary meeting and the meetings of the ATM Committee, the CNS Committee and the Coordination Group. This last group must be active throughout the entire meeting so that it can deliberate about the activities of the Committees and ensure their integration.

## **2. Problems in the mechanism of the ATM/CNS Subgroup**

2.1 Ever since the ATM/CNS Subgroup started operating, its work methodology has been the similar, with a plenary meeting on the first day to address general matters and guide the work of the ATM

and CNS Committees (review of ANC action with respect to the report of the GREPECAS meeting concerning the ATM/CNS/SG, review of intra- and inter-regional CNS/ATM developments, report about the activities of the regional technical cooperation projects, etc.). Another plenary meeting takes place on the last day of the meeting to examine the reports of the ATM and CNS Committees, which work separately. This last plenary meeting is too short for an in-depth analysis of the work done by the two Committees.

2.2 The ATM/CNS Subgroup Coordination Committee is responsible for coordinating the work of the two Committees. That coordination, however, only applies to isolated events and there is little depth in the discussions, considering that the group meets for only a short period of time.

### **3. Improvement of the ATM/CNS Subgroup Work Plan**

3.1 In order to guarantee the achievement of the main objective for which the ATM/CNS Subgroup was created, which is the coordination between ATM and CNS, the main change that should be made is the establishment of the terms of reference and work programme for the ATM/CNS Subgroup, which should include all of the high-level tasks of the ATM and CNS Committees. Obviously, these tasks should be harmonised to guarantee consistency between ATM, Communications, Navigation and Surveillance.

3.2 Once the aforementioned terms of reference and work programme have been established, the high-level tasks should be detailed within the scope of the committees, so that they can become deliverables. These deliverables should consist of specific activities, making it possible to subdivide long tasks and define appropriate project deadlines.

3.3 States should appoint two members to the ATM/CNS Subgroup, an ATM expert and a CNS expert. The two experts would also belong to the ATM/CNS Subgroup. When it breaks down into committees, the ATM experts would serve on the ATM Committee and the CNS experts on the CNS Committee. The mechanism for setting up the committees would be similar to that which exists for the *ad hoc* groups, without a formal membership. In some specific cases, it would be advisable to have ATM experts participate in the CNS Committee and *vice versa*.

3.4 The ATM/CNS Subgroup should extend the duration of the plenary meetings, in order to improve ATM and CNS coordination, mainly through the discussion of subjects requiring closer participation by ATM and CNS experts (PBN, ATFM, ATM automation, ADS, etc.). All working papers should be briefly presented during the first day of the meeting, so that they can be properly distributed to the ATM Committee, the CNS Committee or both Committees. On the last day, the reports of the two Committees should be discussed in depth so that ATM experts can make contributions to and ask questions in the CNS area and *vice versa*, making it possible to coordinate the final results of the meeting, particularly the draft conclusions.

3.5 If even closer coordination is needed between the ATM and CNS areas, the ATM/CNS Subgroup should explore the use of task forces or of *ad hoc* groups directly related to the Subgroup and made up of ATM and CNS experts.

3.6 The ATM/CNS Coordination Subgroup will play an important part in the cited changes and should meet every day before and after the meetings of the Subgroup and of the two Committees, to guarantee the coordination of the work, and to propose the setting up *ad hoc* groups that can help with the preparation of the report, the analysis of specific topics, and the production of discussion papers which could be submitted to the Committees and/or the Subgroup.

3.7 Keeping the existing structure of the ATM/CNS/SG Subgroup could represent an initial step toward a more in-depth reformulation of its mechanism in the future, which could involve the establishment of project teams, with the participation of ATM and CNS experts, which would be responsible for the specific planning of CNS/ATM system components, such as: PBN, ATFM, ATM automation, ADS, CPDLC, etc. Evolution toward this new mechanism could be progressive, starting with the implementation of the changes proposed in this working paper.

3.8 It should be stressed, as well, that the existing ATM/CNS/SG structure, with the changes proposed in this working paper, will be a way of guaranteeing attainment of the following objectives:

- a) Ensuring that the implementation of the CNS/ATM system is based on clearly established operational requirements.
- b) Avoiding unnecessary imposition of requirements for the carriage of multiple equipment in the on board components or of multiple ground systems.
- c) Preventing commercial interests from outdoing ATM operational requirements, creating unnecessary costs for CAR/SAM States and International Organisations, as well as for airspace users.

3.9 In short, dissolution of the ATM/CNS Subgroup would represent a delay in the mechanism for ATM – CNS coordination, considering that it would not only interfere with, but also impede, the accomplishment of the aforementioned objectives.

#### **4. Suggested action**

4.1 The Meeting is invited to:

- a) Take note of the information and of the proposals presented in this working paper;
- b) Create an *ad hoc* group made up of ATM and CNS experts to:
  - Review the ATM/CNS Subgroup Work Programme, in keeping with the proposal made in item 3.1.
  - Draw up a draft decision for presentation to GREPECAS, in order to reflect the proposed changes in the ATM/CNS Subgroup mechanism, mainly to make the ATM and CNS experts members of the Subgroup, as proposed in item 3.3.
  - Study the need to include the ATM/CNS Subgroup coordination mechanism in the GREPECAS Procedural Manual.
  - Analyse the working methods proposed in item 3.4.
  - Verify the need to establish task forces directly related to the Subgroup in order to guarantee close coordination between ATM and CNS experts.
- c) Request the ATM and CNS Committees to reformulate their work programmes on the basis of that of the ATM/CNS Subgroup, in order to establish appropriate deliverables.

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