



ATNP/WG3/WP 17-12

16 September 1999

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL

WORKING GROUP 3 (APPLICATIONS AND UPPER LAYERS)

Gran Canaria, Spain, 28 September - 1 October 1999

Agenda Item 6.4: ULCS Post Package 1 work

**Status of Sub-Volume 4 "Package 2" additions (GACS,
Naming, Security, CLDS)**

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SUMMARY

This paper informs the Working Group of the current status of the "Package 2" edition of Sub-Volume 4 (Upper Layer Communications Service) of the ATN Technical Provisions.

1. INTRODUCTION

The goal of this paper is to provide ATNP WG3 with the current status of work in progress on the "Package 2" edition of Sub-Volume 4 (Upper Layer Communications Service) of the ATN Technical Provisions, i.e. the SV4 edition destined for approval by ATNP/3.

The draft Sub-Volume 4 revisions were presented to the sixteenth meeting (Naples) of Working Group 3 as Working Paper 16-10: "Draft Revision to ULCS Technical Provisions for ATNP/3." This document runs to 159 pages, and it is not proposed to present it again at this meeting.

The working draft Sub-Volume 4 presented at that time included the following revisions:

1. Application of all PDRs raised against Sub-Volume 4 of the first edition of ICAO Doc 9705 that had progressed to RESOLVED status through the ATNP Change Control Board process. (This is equivalent to the second edition of Doc 9705).
2. Incorporation of Upper Layer naming and addressing extensions, as previously presented in WG3/WP 15-10.
3. Incorporation of the Connectionless Dialogue Service as Chapter 4.7. This material was previously presented as WG3/WP15-35, and had been extensively updated after review by WG3/SG3 members.
4. Placeholder for Secure Dialogue Service as Chapter 4.8. Gerard Mittaux-Biron (DGAC/CENA) presented a draft of this material in Naples as WG3/WP16-34.
5. Incorporation of the Generic ATN Communication Service (GACS) as Chapter 4.9. This material was previously presented as WG3/WP15-13, and had been updated to take account of preliminary validation results and comments from the WG3-13 meeting.

Changes to chapters 4.1 - 4.6 of Doc 9705, first edition, were indicated by revision marks in the margins. Chapters 4.7 - 4.9 were completely new and revision marks were not shown.

2. CURRENT STATUS

The status of the draft Sub-Volume 4 has not changed since the previous WG3 meeting.

Known changes still to be made to SV4 (ULCS) for edition 3 (i.e. Package 2) are:

- Minor changes to Chapter 4.9 (GACS Specification) resulting from EUROCONTROL validation work.
- Minor changes to 4.3.2.6 (Presentation Context Identification) resulting from PDR 99080001 (resulting from EUROCONTROL GACS validation).
- Major changes for the specification of the Secure Dialogue Service. This will involve:
 - major new Chapter 4.8,
 - consequential changes to Package 1 Control Function in 4.3.3,
 - consequential changes to ACSE Profile Requirements List in 4.6,
 - additional introductory material in 4.1.
- Naming and Addressing registration changes in 4.3.2. A new naming arc {iso (1) identified-organisation (3) icao (27) atn-sm (4)} is needed for Systems Management identifiers. It is likely that naming arcs will also be needed for Directory and Security identifiers, and for GACS message type identifiers. However, there have been

proposals for a new Sub-Volume 9 dedicated to Registration of identifiers. In that case, much of sections 4.3.2.1 and 4.3.2.2 could be moved to the new Sub-Volume.

- Any other ULCS PDRs that may be raised before December.

3. COMPATIBILITY ISSUES

Note that the Dialogue Service "Security Requirements" parameter proposed for Package 2 is not compatible with the existing definition. Currently, the Security Requirements value is simply conveyed end-to-end. It could be used, for example, for simple peer entity authentication. Any State that has made use of the parameter will no longer be able to use it in this way when Package 2 is published.

4. CONCLUSION

1. Significant effort is still required to update Sub-Volume 4 prior to the December meeting of Working Group 3.
2. Most of the work relates to the specification of the Secure Dialogue Service. It is recommended that a meeting of WG3/SG3 dedicated to this drafting task be convened before the December meetings.
3. An urgent decision is needed on the fate of the proposed Sub-Volume 9, as this will have significant impact on the changes required to Sub-Volume 4.
4. States and Organisations are requested to examine any use currently made of the "Security Requirements" parameter, and urgently advise WG3/SG3 if the changes to this parameter will cause any problems.