

ATNP/WG3/WP8-24
October 15, 1996

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL
Working Group 3

Alexandria, 7-15 October 1996

ATNP/WG3/SG3 Chairman's Report

(Presented by Steve Van Trees)

Summary

ATNP/WG3/SG3 presents accomplishments and prospects for approval by WG3.
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1. Introduction

The paper reviews progress and deliverables produced by ATNP/WG3/SG3 in the period between the Munich and Alexandria meetings. The paper then presents activities scheduled through the ATNP/2 meeting in November 1996.

2. Membership

Mr. Steve Van Trees (USA) has chaired the group since the Banff meeting. Dr. Tony Kerr (Eurocontrol), Mr. Frederic Picard (France), Mr. Stephen Pearce (Australia), and Jim Moulton (USA) have contributed great time and effort to the group.

3. Subgroup 3 Meetings

ATNP/WG3/SG3 has held one meeting since the Bruxelles WG3 meeting.

3.a. Toulouse

The SG3 meeting on 24-26 September 1996 completed work on change pages to version 4.0z of the Upper Layers SARPs, based on a number of defect reports from Eurocontrol and the USA. There was one addition to the state machine, allowing detection of user-data on the ABORT PDU upon reentry to the NULL state. The group considered some 32 defect reports in all. SG3 also completed work on the initial validation report. The first three implementations all had different interpretations of the Packed Encoding Rules (PER) encoding of the AARQ PDU.

4. Deliverables

As detailed below, SG3 maintains the schedule agreed in San Diego in October 1994. No schedule problems are foreseen for ATNP/2 delivery in November 1996.

4.a. CNS/ATM-1 Upper Layer SARPs

The change proposals to draft SARPs 4.0z are completed. They await WG3 approval. They are under configuration control.

4.b. CNS/ATM-1 Upper Layer Guidance Material

The draft GM is again available at this meeting. Major work has been done to upgrade the guidance material to align the document with the SARPs. The document has also been recast to reach an implementor audience. The encoding material and Efficiency defect reports have been updated.

4.c. CNS/ATM-1 Upper Layer Validation

Multiple validation implementations are under way Appendix I (ULCS Validation) is available at this meeting.

4.d. CNS/ATM-2 Upper Layer SARPs

There is no paper on this topic. Current active work is in Common Management Information Protocol (CMIP) ULA, and Association Control Service Element (ACSE), edition 3..

5.0 External Dependencies

5.a. International Organization for Standardization (ISO)

SG3 is actively involved in work incorporating ATN requirements into ISO standards. The ACSE, edition 2 material is now in the publication cycle. The ISO efficiency enhancements DAM comments have been returned to ISO.. This substantially completes work on CNS/ATM-1 base standards. There is an ISO editing meeting in March 1997 in Geneva to work minor comments. CNS/ATM-2 requires further ISO work on the next edition of ACSE. These standards have just been registered for DIS ballot.

Mr. Van Trees is the ISO editor for the thirteen efficiency enhancement and base standards. Mr. Day is the ISO editor of the three ACSE standards. .

ISO, recognizing the maturity of the OSI architecture work, will disband WG8 and its OSI architecture rapporteur group this fall. Thus, the documents under ballot will complete, and further OSI work will continue under ITU-T SG7 as of their March 1997 meeting.

5.b. International Telecommunication Union (ITU-T)

The ATN community has also been active in support of ITU-T. The ITU-T upper layer efficiency enhancement ('fast-byte') standards were approved in April 1995. The ATN community also supports the OSIEFF technical report on efficiency. As noted, all future work will proceed in ITU-T.

6. Conclusion

WG3 is invited to note the schedule and deliverables accomplished by SG3.

ATNP/WG3/SG3
Upper Layer Architecture
24-26 September 1996
Reston

Attendance

Tony Kerr (Eurocontrol)
James Moulton (USA)
Frederic Picard (France)
Stephen Pearce (Australia)
Steve Van Trees (USA)

1. Introduction

Steve Van Trees welcomed the group to Toulouse. In accordance with WG3 instructions and schedule, the meeting determined to produce CNS/ATM-1 Upper Layers SARPs, v4.1 proposed, CNS/ATM-1 guidance material, and CNS/ATM-1 Upper Layers validation material.

2. CNS/ATM-1 Upper Layers SARPs, v4.1 proposed

The group reviewed defect reports. The majority of the defect reports were filed by the Eurocontrol Geode validation. This led to a change to the NULL state handling of the ABORT with user-data. The group also clarified the ATN non-use of ACSE authentication mechanisms.

3. CNS/ATM-1 guidance material

The group spent an entire day on the GM. The material was recast along the lines of the SARPs. All classic encoding material was deleted, and replaced by newly checked ATN encoding material.

4. CNS/ATM-1 Upper Layers validation material

The group reviewed early implementation results. Indications were that the first three implementations had different understanding of the PER encoding of the AARQ, specifically in the application-context-name OID.

5. ISO Efficiency Enhancements

The group fixed the bug that allowed the negative presentation fast-byte response to have an ambiguous error code.

6. CNS/ATM-2 SARPs

No activity.

7. Action Items

- a. Validation Paper Update (Kerr)
- b. ULCS SARPs, v4.1p (Kerr)
- c. Guidance Material (Van Trees)
- d. Encoding Examples (Picard)
- e. ISO DAM IP (Van Trees)
- f. PER (SG3)

8. Meeting Input Papers

- a. Tony Kerr, ULCS Defect Reports against v4.0z
- b. Frederic Picard, TES Defect Reports

11. Meeting Output Papers

- a. ULA SARPs, v4.1p
- b. ULCS Change Pages

12. Next Meeting

ATNP/WG3/SG3
Toulouse
FLIMSY 1

Note for Sub-Volume 5 Guidance Material

The Upper Layer SARPs consistently use the term Residual Error Rate (RER). In fact, the "RER" is used to invoke the TP4

Additional Options Checksum Parameter, rather than invoking the TP4 RER parameter.

A Guidance note in Sub-Volume 5, section 5.5.1.2 Note 1 c) to this effect may be useful.

SARPs 5.5.1.2 Note 1 c) should also delete 'or'.

