

ATNP/WG3/WP3-14/07
September 27, 1998

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL
Working Group 3

Bordeaux, 29 September - 2 October 1998

ATNP/WG3/SG3 Activity Report

(Presented by Steve Van Trees (USA))

Summary

Progress and prospects of SG3 (Upper Layer Architecture) are presented.

1. Introduction

ATNP/WG3 is responsible for Upper Layer Architecture (ULA). The group is responsible for SARPs Sub-Volume 4 (Upper Layer Communications Service), SARPs Sub-Volume 4 Enhancements (Secure Dialogue), and SARPs Sub-Volume 7 (Data Dictionary).

2. ATNP/WG3/SG3 Requirements

ATNP/WG3/SG3 in its work plan responds to the following requirements of ATNP/WG1.

Task	Description
B&C	Develop a Security Strategy for the ATN
X	Multicast

3. ATNP/WG3/SG3 Work Plan

ATNP/WG3/SG3 offers the following overview of its work plan.

SARPs	Topic	Responsible	Bordeaux Deliverable	Honolulu Deliverable
Sub-Volume 4	Secure Dialogue	Mittaux-Biron	Security Draft	Security Final
Sub-Volume 4	Connectionless Multicast	Van Trees	Connectionless Final	
Sub-Volume 4	ASO-ACSE	Van Trees	ASO-ACSE Final	ASO-ACSE GM
Sub-Volume 6	System Management	Kerr	Sub-Volume 6 Draft	Sub-Volume 6 Final
Sub-Volume 7	Data Dictionary	Moulton	Draft X.500 Schema	Final X.500 Schema

4. Schedule

Observing the work plan, we note that Connectionless Multicast and ASO-ACSE are proposed final at this meeting. The Secure Dialogue Service continues an intensive schedule before Honolulu within the draft presented at this meeting.

The work on the Data Dictionary (X.500 Schema) reached a major draft this period. The continued coordination with WG3/SG1 on use of X.500 is very important.

5. Recommendation

WG3 is invited to approve the work plan provided.

ATNP/WG3/SG3 (Upper Layer Architecture)
9-10 September 1998
CENA, Toulouse

ATNP/WG3/SG3 Meeting

The meeting was hosted by Gerard Mittaux-Biron at Centre d'Etudes de la Navigation Aerienne at Toulouse. SG3 thanks M. Mittaux-Biron for his excellent hospitality.

Attendance

Tony Kerr, EUROCONTROL
Gerard Mittaux-Biron, France
Frederic Picard, France
Steve Van Trees, USA

1. Review of SARPs

ATNP/WG3/SG3 knows of no PDRs against the ULCS SARPs.

The group reviewed Dr. Kerr's paper on CNS/ATM-2 Naming and Addressing. It was noted that the SYS field alone is insufficient to disambiguate multiple ESs. The LOC field is required to disambiguate multiple routing domains. This has the effect of reintegrating almost the entire address back into the CNS/ATM-2 name. The proposal was made to allow AOC passage of the PSAP address. The requirement for handling of non-ICAO ground facility designators was also discussed.

ACTION: (Kerr) Add note about ICAO registration for Facility Designation

2. Security

Gerard Mittaux-Biron present his Security paper. It represents major progress on upper layer security authentication framework usage and encoding. SG3 noted that the two major issues are backwards compatibility with present applications, and secure-non-secure implementation interworking.

ACTION: (Van Trees) Overview of Security Service

ACTION: (SG3) Security Usage of Directory beyond use of X.509 certificate

ACTION: (Van Trees) System Management in Security (Certificate Revocation)

ACTION: (Mittaux-Biron) Expansion of Security Macro Notation

ACTION: (Mittaux-Biron) Security-CM Relation

ACTION: (Picard) Liaison with WG3/SG2 for Applications Implication of Security

3. Directory

SG3 believes that the ATNP Directory Schema was presented to SG1 at their recent meeting. There was no activity at this meeting.

4. System Management

Dr. Kerr briefed recent ATNP activity in SM Profile and Conops. M. Mittaux-Biron noted that CENA have recently developed a CMISE ROSE implementation over the ULCS. There was no activity at this meeting

ACTION: (Van Trees) ITU-T SM Sources

5. Connectionless ULA

M. Picard presented connectionless upper layer fast byte standards.

ACTION: (Van Trees) Incorporate upper layer connectionless fast byte in ATNP CLULA.

ACTION: (Van Trees) ITU-T Determination of Fast-Byte Connectionless Protocols in Beijing.

6. Generic ATN Comms Service

Dr. Kerr presented the GACS specification Comments from M. Picard were incorporated.

7. Miscellaneous CNS/ATM-2

ACTION: (Van Trees) Upper Layer Multicast Addressing

ACTION: (Van Trees) ASO Template Development

ACTION: (Kerr) Fast Associate Enhancement

8. Base Standards

Mr. Van Trees will travel to Beijing next week to complete ASO-ACSE standardisation. All base standards are complete. The OSI Efficiency Technical Report is also complete for Beijing.

9. WG3 Bordeaux Prep

SG3 Report (Van Trees)

Sub-Volume 4 Connectionless ULA (Van Trees)

Sub-Volume 4 Security (Mittaux-Biron)

Sub-Volume 4 Generic ATN Comms Service (Kerr)

ITU-T ASO-ACSE Final Texts (Van Trees)

ITU-T OSIEFF Final Text (Van Trees)

10. EOLIA Demonstration

The group also witnessed an effective demonstrations of the European Preoperational Datalink Services (using the CHARME ULCS implementation as a basis).

11. Next Meeting

SG3 is contemplating its next meeting in November-December 1998 in Phoenix, Arizona, USA