

ATNP/CCB WP/8-__

ATNP/WG3/SG1 WP/231

ATNP/WG3 WP/15-36

14/01/99

AERONAUTICAL TELECOMMUNICATIONS NETWORK PANEL(ATNP)

WORKING GROUP 3 - APPLICATIONS AND UPPER LAYERS

Honolulu, 19 January - 22 January 1999 (fifteenth meeting)

Agenda Item 5.3 : Ground-Ground Applications

WP/15-36 : SME3 CCB Report

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Summary

This paper provides a summary status of PDRs raised against the Sub-Volume III SARPs since the Phuket WGW/1 meeting.

Table of contents

| | |
|--|----------|
| 1. INTRODUCTION..... | 2 |
| 2. SUMMARY OF ATSMHS PDRS..... | 2 |
| 3. SUMMARY OF AIDC PDRS | 3 |
| 4. RECOMMENDATION..... | 4 |
| 5. ATTACHMENT A : DETAILS OF SUB-VOLUME 3 PDRS..... | 4 |

1. INTRODUCTION

The goal of this paper is to provide the Working Group with the current status of the Sub-Volume 3 PDRs.

2. SUMMARY OF ATSMHS PDRS

The following table lists all PDRs raised against the ATSMHS SARPs (Doc 9705, Sub-Volume 3, Chapter 1) since their approval at the Phuket ATNP WG/1 meeting.

| Number | Name | Status (post CCB/7) | Comments |
|----------|--|---------------------|--|
| 97060014 | ATSMHS / use of implicit-conversion flag and EITS | RESOLVED | |
| 97060015 | ATSMHS / conversion of forwarded messages | RESOLVED | |
| 97060016 | ATSMHS / MHS priority and ATS-Message-Priority mismatch | RESOLVED | |
| 97060017 | ATSMHS / prohibited character check in converted AMHS messages | FORWARDED | to be discussed during the ATNP/WG3/SG1 17 th meeting in Honolulu |
| 97060018 | ATSMHS / erroneous cross-references to Sub-Volume 5 | RESOLVED | |
| 97060019 | ATSMHS / recommendation on report generation | RESOLVED | |
| 97100040 | ATSMHS / editorial corrections | RESOLVED | |
| 98030005 | ATSMHS / Year 2000 dependency | RESOLVED | For inclusion in Amdt 1 to Doc 9705. |

3. SUMMARY OF AIDC PDRs

The following table lists all PDRs raised against the AIDC SARPs (Doc 9705, Sub-Volume 3, Chapter 2) since their approval at the Phuket ATNP WG/1 meeting.

| Number | Title | Status (post-CCB/7) | Comments |
|----------|---|---------------------|-------------------------------------|
| 97060020 | AIDC / Errors and inconsistencies in AIDC Abstract Definition | RESOLVED | |
| 97060021 | AIDC / Provision of the Called ICAO Facility Designation when Info-transfer-request is invoked outside a dialogue | RESOLVED | |
| 97060022 | AIDC / construction of the calling end-system AP-title | RESOLVED | |
| 97060023 | AIDC / ASN.1 correction : Airport | RESOLVED | |
| 97060024 | AIDC / sequencing table inconsistent with state tables | RESOLVED | |
| 97100004 | AIDC / Definition of releaseIndicator | RESOLVED | |
| 97100005 | AIDC / reference error in SARPs | RESOLVED | |
| 97100015 | CPDLC/AIDC Airway Name | RESOLVED | |
| 97100016 | CPDLC/AIDC VHF Frequency/ Frequencyvhfchannel | RESOLVED | |
| 97100027 | AIDC / Year 2000 dependency | RESOLVED | |
| 97100033 | AIDC / ASN.1 message type and Abort issue | RESOLVED | |
| 97100042 | AIDC / AIDC Abstract Definition | RESOLVED | |
| 97100043 | AIDC / Transfer Control Information parameter | RESOLVED | |
| 97100044 | AIDC / Departure Airport | RESOLVED | |
| 97100045 | AIDC / AircraftIdentification | RESOLVED | |
| 97100046 | AIDC / BeaconCode | RESOLVED | |
| 98030002 | AIDC / Control Function | RESOLVED | for inclusion in Amdt 1 to Doc 9705 |
| 98030003 | AIDC / Control Function | RESOLVED | for inclusion in Amdt 1 to Doc 9705 |
| 98040005 | all / ICAO V2.2 problems | RESOLVED | |
| 98050019 | CPDLC/AIDC problems with ICAO V2.2 CPDLC SARPs | RESOLVED | for inclusion in Amdt 1 to Doc 9705 |

| | | | |
|------------------------|------------------------------------|-----------|--|
| 98040005 Addendum 1 | AIDC / Realignment of state tables | RESOLVED | |
| 98040005 Addendum 2 | AIDC / Additional V2.2 edits | RESOLVED | |
| 98090006 | AIDC / AIDC UCF Indication | WITHDRAWN | |
| 98090009 | AIDC / AIDC PM variable names | RESOLVED | for inclusion in Amdt 1 to Doc 9705 |

4. RECOMMENDATION

The CCB is invited to note the information provided.

5. ATTACHMENT A : DETAILS OF SUB-VOLUME 3 PDRS

PDR 98030005

Title: ATSMHS / Year 2000 in UTCTime
PDR Reference: 98030005
Originator Reference: 98030005.TXT
SARPs Document Reference: ATSMHS SARPs
Status: SUBMITTED -> ACCEPTED (CCB-5)
RESOLVED (CCB-7) for inclusion
in ICAO Doc 9705 Amdt 1
PDR Revision Date: 14/01/99 (post CCB/7)
PDR Submission Date: 12/03/98
Submitting State/Organization: ATSMHS Editor
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SARPs Date: ICAO Doc 9705
SARPs Language: English

Summary of Defect:

The MHS ASN.1 definitions of messages included in the base standards make an extensive use of ASN.1 type UTCTime, e.g. for message submission and delivery time stamps, for deferred delivery, etc. This data type uses two decimal digits to represent the considered year, which may be insufficient to pass Year 2000.

Also in the ATSMHS SARPs, a reference to this data type is made in Clause 3.1.2.3.4.3.2.4, for the generation of the message-receipt-time, when converting an AFTN acknowledgement message into an AMHS RN.

Assigned SME: SME 3

Proposed SARPs amendment:

1. Insert the following new clause and note :

"3.1.2.2.1.1.3 Interpretation of UTC Time values

When generating and interpreting UTC Time values, an ATS Message User Agent shall associate dates up to ten years prior to the current time and up to

forty years ahead of the current time with the corresponding century, with the interpretation of the remaining 49 values being implementation dependent.

Note: This requirement is aligned on the convention used in ISO 10021-4:1997/Cor. 1:1998 and in ISO 10021-7:1997/Cor. 1:1998 for equivalent purposes."

2. Insert the following new clause and note :

"3.1.2.2.2.1.3 Interpretation of UTC Time values

When generating and interpreting UTC Time values, an ATS Message Server shall associate dates up to ten years prior to the current time and up to forty years ahead of the current time with the corresponding century, with the interpretation of the remaining 49 values being implementation dependent.

Note: This requirement is aligned on the convention used in ISO 10021-4:1997/Cor. 1:1998 for equivalent purposes."

3. In 3.1.2.3.4.3.2.4, item a), insert the word "current" before "year".

4. In 3.1.2.3.4.3.2.4, item b), insert the word "current" before "month".

SME Comment (extraction from the referenced ISO Technical Corrigenda):

For example, for a system operating in 1996 the values " 86 " to " 99 " are interpreted as 1986 to 1999 and the values " 00 " to " 36 " are interpreted as 2000 to 2036, and the values " 37 " to " 85 " are implementation dependent.

This convention permits two possible implementation strategies . An implementation can choose a fixed interpretation of all the year values, such that the convention is satisfied throughout the expected life of the product, or it can interpret the dates dynamically, based on the current date, such that the implementation remains valid indefinitely. For example, an implementation could choose the fixed range 1970 to 2069 for the available values, meaning that the implementation would require revision if it is still in use by the year 2029.

SME Recommendation to CCB: RESOLVED

CCB Decision: RESOLVED (CCB/7)
for inclusion in ICAO Doc 9705 Amdt 1