

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL

Working Group 2

Alexandria, Virginia 7 - 15 Oct 1996

WG 2 Configuration Control Board Activity (Internet SARPs version 6.0)

WG2 CCB Chair

SUMMARY

This paper overviews the activities and decisions made by the CCB concerning version 6.0 of the Internet SARPs.

The sections in this report are:

- 1) DRs and CPs submitted since the WG2 meeting in Munich,
- 2) recommendations.

Any recommended changes made by the CCB will require formal submission to ICAO. With this in mind, only changes of critical importance will be formally submitted.

WG 2 Configuration Control Board Activity

1. Purpose

This paper overviews the activities and decisions made by the CCB concerning version 6.0 of the Internet SARPs. The decisions are the result of the CCB voting process that had occurred between WG2/9in Munich and WG2 Validation meeting, Alexandria. CPs and DRs submitted during this time frame are covered in this report.

Any recommended changes made by the CCB will require formal submission to ICAO. With this in mind, only changes of critical importance will be formally addressed.

2. CCB Activity

2.1 CHANGE PROPOSAL (CP) CURRENT STATUS

CP number	Subject	Decision	Associated DR	WG2/10 WP
96090070	CP non-ATSC routes	accepted	9609115	
96090071	Routes under empty RIBAtt are non-ATSC	no decision	9609108	
96090072	TP APRLs	no decision	9609114	WG2WP335
96100073	Inconsistent SNDCF parameter block length	no decision	9609109	
96100074	Air-Ground Route termination defect	no decision	9609118	

Highlighted areas indicate resolved issues by the CCB.

2.2 DEFECT REPORT (DR) CURRENT STATUS

DR number	Subject	Decision	Associated CP	WG2/10 WP
9609108	Routes under empty RIBAtt are non-ATSC	accepted	96090071	
9609109	Inconsistent SNDCF parameter block length	accepted	96100073	
9609110	Miscellaneous defects in version 6.0	accepted		

9609111	Inconsistent text in 5.3.7	pending		
9609112	Routing on Longest Matching Prefix	pending		
9609113	Clarification Needed on setting CE-bit	accepted		
9609114	Transport APRLs	accepted	96090072	
9609115	non-ATSC Routes	accepted	96090070	
9609116	Editorial Defects in IDRPs APRL	accepted		WG2WP337
9609117	Editorial Defects in Network Addressing Spec	accepted		WG2WP336
9609118	Air-Ground Route termination defect	accepted	96100074	

Highlighted areas indicate resolved issues by the CCB.

3. Recommendations

Sections 2.1 and 2.2 of this report review the status of all DRs and CPs submitted to date. The following are the recommendations for the meeting:

1. Review Annex A to this report (Unresolved DRs); and
2. Review Annex B to this report (Unresolved CPs).

1. Details of outstanding DRs

1.1 *Unresolved Defects*

1.1.1 96090110.DR

Title : Miscellaneous defects in version 6.0
Defect Report Reference : 96090110.DR
Status : SUBMITTED
Defect Report Revision Date : 06/09/96
Defect Report Format Revision Date: 20 January 1995
Defect Report Submission Date : 06/09/96
Submitting State/Organization: NATS GCS CAA >
Submitting Author Name: Akhil Sharma
Submitting Author E-mail Address:akhil@aks-cs.demon.co.uk
Submitting Author Supplemental Contact Information:
Tel: 44-171-832-6281
Fax:44-171-832-6104
ATN SARPs & Guidance Material Draft Version: 6.0
Category: Minor
Summary of Defect:

Miscellaneous defects discovered upon review of version 6.0 of Internet SARPs

Discussion:

- Chapter 1 includes references to "Sub-Volume" -
- the PRLs in Section 5.8.3.4.2 appear to have some incomplete refs.
- 2nd last line of note 1 in 5.3.6.1 has a typo
- 3rd last line in note 3 of 5.3.7.1.2 has a typo

1.1.2 96090111.DR

1.1.3 96090112.DR

Title : Routing on Longest Matching Prefix
Defect Report Reference : 96090112.DR
Status : SUBMITTED
Defect Report Revision Date : 11/09/96
Defect Report Format Revision Date: 20 January 1995
Defect Report Submission Date : 11/09/96
Submitting State/Organization: Eurocontrol/MWA
Submitting Author Name: Tony Whyman
Submitting Author E-mail Address: whyman@mwassocs.demon.co.uk
Submitting Author Supplemental Contact Information:
21 Orchard Close, Alresford, Hants, SO24 9PY, England
Tel: +44 1962 735580

FAX: +44 1962 735581

ATN SARPs & Guidance Material Draft Version: 6.0

SARPs/GM Document Reference: Section 5.3.2.2.3.2.1.1, etc, Page 5.3-2 to 5.3-5

Category: MINOR

Summary of Defect:

The phrase "a selected route to the NPDUs' destination" used in 5.3.2.2.3.2.1.1 and on several other occasions in 5.3.2.2 does not refer back to the requirement in 5.3.2.2.1.1 that routes are always selected on the basis of the longest matching NSAP Address Prefix. Furthermore, the text in 5.3.2.2.3.2.2 does not explicitly make selection on the basis of the longest matching NSAP Address Prefix superior to selection using ATSC Class.

Discussion:

Selection on the basis of the longest matching NSAP Address Prefix is a fundamental principle of IDRP. If it is not enforced then routing loops can occur. It is proposed to replace the text: "a selected route to the NPDUs' destination that" with "the selected route to the NPDUs' destination with the longest matching NSAP Address Prefix, and which" on each occasion that it occurs in 5.3.2.2.

In addition a new note is proposed to be added to 5.3.2.2.3.2.2 i.e.

Note._ The requirement in 5.3.2.2.1.1 always takes precedence over selection based on ATSC Class i.e. a route with a longer matching NSAP Address Prefix with no ATSC Class or a lower ATSC Class, is always preferred over a route with a higher ATSC Class but with a shorter NSAP Address Prefix. This is essential for the avoidance of routing loops.

1.1.4 96090113.DR

1.1.5 96090116.DR

Title : Editorial Defects in IDRP APRL

Defect Report Reference : 96090116.DR

Status : SUBMITTED

Defect Report Revision Date : 20/09/96

Defect Report Format Revision Date: 20 January 1995

Defect Report Submission Date : 20/09/96

Submitting State/Organisation: Germany (DFS)

Submitting Author Name: Graf, K.-P.

Submitting Author E-mail Address: esg@esgff.m.eunet.de

Submitting Author Supplemental Contact Information:

ESG, Dept. FF

Einsteinstrasse 174

81675 München

Tel: +49 89 9216 2742

Fax: +49 89 9216 2632

ATN SARPs & Guidance Material Draft Version: 6.0

SARPs/GM Document Reference: Sections 5.8.3.4.2 and 5.8.3.4.4

Category: Minor

Summary of Defect:

a) The heading of the second column of the APRL tables contained in the Sections 5.8.3.4.2 and 5.8.3.4.4 is "Item" whereas the heading "Description" is used for all other APRL tables. It is believed that the correct heading of the first column of each APRL table is "Item" and of the second column is "Description".

Draft Change Proposal:

Replace "Index" by "Item" in the heading of the first column of the table in section 5.8.3.4.2.

Replace "Item" by "Description" in the heading of the second column of the table in section 5.8.3.4.2.

Add "Item" as heading to the first column of the table in section 5.8.3.4.4.

Replace "Item" by "Description" in the heading of the second column of the table in section 5.8.3.4.4.

b) In order to be used as PICS, the items in Section 5.8.3.4.2 should be presented in question form, as this is done for all other APRL tables.

Draft Change Proposal:

Reformulate all entries in the second column of the table of section 5.8.3.4.2 to start with "Does this BIS "

c) The description of the entry ATNIDRP2 in Section 5.8.3.4.2 is unclear and the ATN SARPs Reference is missing. It is believed that the requirements in section 5.8.3.2.7 are meant.

Draft Change Proposal:

Replace the existing text for the entry ATNIDRP2 by "Does this BIS immediately re-advertise routes if the security information contained in the route's security path attribute changes ?"

Replace the existing ATN SARPs Reference by "5.8.3.2.7" for the entry ATNIDRP2 in the table of section 5.8.3.4.2.

d) The ATN SARPs Reference of the entries ATNIDRP6 and ATNIDRP7 in Section 5.8.3.4.2 are missing. It is believed that the correct references are 5.8.3.2.6.3 and 5.8.3.2.6.4 respectively.

Draft Change Proposal:

Replace the existing ATN SARPs Reference for the entries ATNIDRP6 and ATNIDRP7 by "5.8.3.2.6.3" and "5.8.3.2.6.4" respectively in the table of section 5.8.3.4.2.

e) It is believed that there is some overlap and potential conflict between the requirements associated with the entries RTSEL and ATNIDRP2 in Section 5.8.3.4.4.

1.1.6 96090117.DR

Draft Change Proposal:

Add "(except in the case specified in ATNIDRP2)" at the end of the existing text in the second column of the entry RTSEL in the table of section 5.8.3.4.4.

Title : Editorial Defects in Network Addressing Spec
Defect Report Reference : 96090117.DR
Status : SUBMITTED
Defect Report Revision Date : 20/09/96
Defect Report Format Revision Date: 20 January 1995
Defect Report Submission Date : 20/09/96
Submitting State/Organisation: Germany (DFS)
Submitting Author Name: Graf, K.-P.
Submitting Author E-mail Address: esg@esgff.m.eunet.de
Submitting Author Supplemental Contact Information:

ESG, Dept. FF
Einsteinstrasse 174
81675 München
Tel: +49 89 9216 2742
Fax: +49 89 9216 2632

ATN SARPs & Guidance Material Draft Version: 6.0
SARPs/GM Document Reference: Chapter 5.4

Category: Minor

Summary of Defect:

Chapter 5.4 ("Network and Transport Addressing Specification") of the Draft Internet Communications Service SARPs has undergone considerable restructuring and modifications recently. Consequently, this chapter has not been subject to the same level of editorial review as the remaining material (which has been extensively reviewed by the WG2 Editorial Committee in June 1996 in Toulouse) and thus is more prone to editorial problems.

This defect report compiles a number of editorial defects which have been identified when reviewing Chapter 5.4 of Version 6.0 of the Draft Internet Communications Service SARPs. A draft change proposal and draft replacement text is offered for each identified editorial problem.

a) Section 5.4.1.3.1

It is not clear to which specification the text refers when talking about "... future versions of the specification."

Proposed Change:

Replace "... of the specification" by "... of this specification"

b) Figure 5.4-1

The figure uses the term "Global OSI Addressing Domain" to illustrate the whole addressing space, whereas the figure title is "The OSI Global Network Addressing Domain". The used figure label and the figure title should be made consistent.

Proposed Change:

Swap the second and third word in the title of Figure 5.4-1 to read "The Global OSI Network Addressing Domain".

c) Section 5.4.3.5.2

Although it is believed that the whole section should be deleted, as the specified requirement seems more to be a text filler to be in line with numbering conventions than a meaningful requirement, from an editorial viewpoint there seems to be a superfluous "then" in the second line of this paragraph.

Proposed Change:

Delete "then" in the second line of section 5.4.3.5.2.

d) Figure 5.4-3

The upper left address structure is labeled "ISO 8348 NSAP Address Format". In order to be consistent with the associated SARPs text, the correct label is "ISO/IEC 8348 NSAP Address Format".

Proposed Change:

Add "/IEC" in the label of the upper left address structure in Figure 5.4-3 to read "ISO/IEC 8348 NSAP Address Format".

e) Section 5.4.3.8

Missing full stop at the end of the section.

Proposed Change:

Add full stop at the end of the section.

f) Section 5.4.3.8.2.3.4

The text of this section is a complete duplication of section 5.4.3.8.2.3.2 and consequently should be deleted.

Proposed Change:

Delete section 5.4.3.8.2.3.4.

g) Section 5.4.3.8.2.4.4

There are two consecutive notes in this section which are both labeled by "Note." without appropriate numbering.

Proposed Change:

Change the label of the first note in Section 5.4.3.8.2.4.4 to read "Note 1." and the label of the second note to read "Note 2.".

h) Section 5.4.3.8.2.4.4

There is a typo in the last but second line of the second note in this section: "Rds" should read RDs".

Proposed Change:

Replace "Rds" by "RDs" in the last but second line of the second note in Section 5.4.3.8.2.4.4.

i) Section 5.4.3.8.2.5.2

There is a typo in the last but one line of this section: "state" should be capitalized.

Proposed Change:

Replace "state" by "State" in the last but one line of Section 5.4.3.8.2.5.2

j) Section 5.4.3.8.3.1.1

There is a typo in the first line of this section: "is" should be "in".

Proposed Change:

Replace "is" by "in" in the first line of Section 5.4.3.8.3.1.1.

k) Section 5.4.3.8.4, Note 1

Note 1 ends with double full stop.

Proposed Change:

Delete one full stop at the end of Note 1 in Section 5.4.3.8.4.

l) Section 5.4.3.8.4, Note 2

Missing space character in last but one line of Note 2.

Proposed Change:

Replace "thenpart" by "then part" in the last but one line of Note 2.

m) Section 5.4.3.8.4.1

There is a typo in the last but second line of this section: "NSAPs" should read "NSAP".

Proposed Change:

Replace "NSAPs" by "NSAP" in the last but second line of Section 5.4.3.8.4.1.

n) Section 5.4.3.8.4.2

The text in the first line is incomplete.

Proposed Change:

Add "Network Addressing Domains" after "In the Fixed AINSC and ATSC" in the first line of Section 5.4.3.8.4.2.

o) Section 5.4.3.8.5, Note 4

The text "The combination of AFI" is followed by a full stop instead of a comma.

Proposed Change:

Replace full stop by comma in the first line of Note 4 in section 5.4.3.8.5.

p) Section 5.4.3.8.4

Unlike the sections related to the other DSP fields, section 5.4.3.8.4 misses to specify the length of the ARS field.

Proposed Change:

Add a new section 5.4.3.8.4.1 with the following text: "5.4.3.8.4.1 The ARS field shall be three octets in length." and renumber all existing paragraphs in section 5.4.3.8.4.

q) Section 5.4.3.8.7

Unlike the sections related to the other DSP fields, section 5.4.3.8.7 misses to specify the length of the SEL field.

Proposed Change:

Add a new section 5.4.3.8.7.1 with the following text: "5.4.3.8.7.1 The SEL field shall be one octet in length." and renumber all existing paragraphs in section 5.4.3.8.7.

r) Section 5.4.3.8.7

Unlike the sections related to the other DSP fields, section 5.4.3.8.7 misses to specify the addressing authority for the SEL field value.

Proposed Change:

Add a new section 5.4.3.8.7.4 after Note 2 with the following text:
"5.4.3.8.7.4 SEL field values other than those defined for Intermediate System Network Entities in 5.4.3.8.7.1 and 5.4.3.8.7.2 above or being reserved, shall be assigned by the addressing authority responsible for the identified End or Intermediate System."

1. Details of outstanding Change Proposals

1.1 Unresolved CPs

1.1.1 96090071.CP

Title : Routes under empty RIBAtt are non-ATSC
Change Proposal Reference : 96090071.CP
Defect Report or Change Request Reference: 96080108.DR
Status : SUBMITTED
Change Proposal Revision Date : 24/09/96
Change Proposal Format Revision Date: 20 January 1995
Change Proposal Submission Date : 24/09/96
Submitting State/Organization: France (STNA)
Submitting Author Name: Tamalet Stephane
Submitting Author E-mail Address: TAMALET_Stephane@cmail.dgac.fr
Submitting Author Supplemental Contact Information:
STNA - 1, avenue Grynfogel
BP 1085 - 31035 Toulouse Cedex
Fax: (33) 62.14.53.53
Tel: (33) 62.14.54.83

ATN SARPs & Guidance Material Draft Version: 6.0
SARPs/GM Document Reference: section 5.8.3.2.12
Summary of Proposal:

In the paragraph 5.8.3.2.12.2 replace the item c):
"c) have been classed as ATSC Class H"
by:
"c) are not available to ATSC traffic"

Discussion:

The item c) was wrong. An ATSC Route is a route containing an ATSC Class Security tag in its Security Path attribute. Routes advertised under the empty RIB_Att are non-ATSC routes.

1.1.2 960900072.CP

WG2 WP 335

1.1.3 96100073.CP

Title : Inconsistent SNDCF parameter block length
Change Proposal Reference : 96100073.CP
DR or CR Reference : 96090109.DR
Status : SUBMITTED
Change Proposal Revision Date : 03/10/96

Change Proposal Format Revision Date: 20 January 1995
Change Proposal Submission Date : 03/10/96
Submitting State/Organization: Eurocontrol
Submitting Author Name: Jean-Pierre Briand
Submitting Author E-mail Address: bri@eurocontrol.fr
Submitting Author Supplemental Contact Information:
Tel: +33 1 69 88 76 19
Fax: +33 1 69 88 73 33
ATN SARPs & Guidance Material Draft Version: 6.0
SARPs/GM Document Reference: 5.7.6.2.1.5.3 and Fig. 5.7-2
Category: Minor Technical

Discussion:

Some concerns were raised during DR vote on which way the inconsistency should be fixed. The general opinion seems to be in favor of aligning the text.

Summary of Proposal:

Clause 5.7.6.2.1.5.3 should be rewritten as follows:

"5.7.6.2.1.5.3 The value of the second octet (length indicator) shall be an unsigned binary number giving the number of octets in the SNDCF parameter block (from version number field up to and including (if present) the maximum number of directory entries field)."

Impact on requirements database: none

1.1.4 96100074.CP

Title : Air-Ground Route termination defect
Change Proposal Reference : 96100074.CP
DR or CR Reference: 96090118.DR
Status : SUBMITTED
Change Proposal Revision Date : 03/10/96
Change Proposal Format Revision Date: 20 January 1995
Change Proposal Submission Date : 03/10/96
Submitting State/Organization: France (STNA)
Submitting Author Name: Tamalet Stephane
Submitting Author E-mail Address: TAMALET_Stephane@cmail.dgac.fr
Submitting Author Supplemental Contact Information:

STNA - 1, avenue Grynfogel
BP 1085 - 31035 Toulouse Cedex
Fax: (33) 62.14.53.53
Tel: (33) 62.14.54.83

ATN SARPs & Guidance Material Draft Version: 6.0
SARPs/GM Document Reference: section 5.3.5.2.13
Summary of Proposal:

The proposed changes to section 5.3.5.2.13 are described in the attached document. This includes change bars to show where changes have been made to original text.

Discussion:

Comments 1), 2) and 3) from Klaus-Peter on the DR have been taken into account in this proposal. Comment 4) (" Shouldn't the new paragraph 5.3.5.2.13.7 also include an ATN Airborne Router having established an BIS-BIS connection ? ") has been considered, but has not modified the initial proposal, because it is believed that the answer to this comment is "No".

Compared to the initial draft change proposal included in the DR, this CP proposes also that the air/ground route termination actions to be performed by the IS_SME be not only initiated in case of Leave Event but also in case of ISH Holding Timer expiration. (Quote : "If, as a result of this procedure or subsequent to the execution of the ISO/IEC 9542 "Flush Hold Configuration" function, ...")

Impact on Requirements: