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2nd October 1996

To: ATNP WG2 Members & Interested Parties

**Report of the 9th ICAO ATNP WG2 Meeting
Munich, Germany 24th - 28th June, 1996**

Please find attached the Final Issue of the Report of the ninth ATNP WG2 meeting recently hosted by the DFS in Munich. Any clarification relating to the proceedings of the meeting by those who have an interest but did not participate should be sent to me ideally addressed to the above Internet e-mail addresses. Please note that both of my Internet addresses are new !

The Munich meeting agreed in a detailed work programme which must be completed prior to the next WG2 meeting scheduled for October. Please ensure all agreed actions are completed as agreed and that, should the situation arise where you are unable to complete any agreed action let me know as soon as possible so that alternative solutions may be investigated.

In order to avoid unnecessary photocopying costs please bring a copy of this report, Version 6.0 of the Sub Volume 5 Internet SARPs, the latest version of the available draft guidance material and any available Working Papers to the next WG2 meeting.

As advised in Munich (WG2/WP308) the next series of ATNP WG meetings will be hosted by the FAA at the following location:

Holiday Inn (Old Town Alexandria)
480 King Street
Alexandria, Virginia 22314
USA

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Please note that the deadline for reservations at the Hotel is 15th September and you must indicate that you will be attending the ICAO/ATNP meeting when making your reservation. WGs 2 & 3 will meet concurrently in the period 7 - 15th October, WG1 on the 16th October and a JWG meeting will take place on 17th & 18th October. An agenda for the WG2 meeting has been sent out previously. In the mean time if you have any queries do not hesitate to contact me.

Yours Sincerely

Akhil Sharma
(Rapporteur ICAO ATNP WG2 (ATN Internet WG))

AERONAUTICAL TELECOMMUNICATIONS NETWORK PANEL

Munich, Germany

24.6.96-28.6.96

Issue 2.0

**ATN Internet Working Group 2 (WG2)
Ninth Meeting Report**

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

1. Agenda Item 0 - Meeting Organisational Issues	5
2. Agenda Item 1 - Approval of Agenda and Objectives	5
3. Agenda Item 2 - Approval of the Brussels WG2 Meeting Report - Review of Action List	5
4. Agenda Item 3 - Issues Arising out of other ATNP WGs & Other Related Bodies	7
5. Agenda Item 5.1 - Report of the WG2 Edit Committee	9
6. Agenda Item 5.2 - Review of Proposed Changes.....	9
7. Review of Flimsy #1 (“Amending the Definition of the Default Route to all Mobiles”).....	12
8. Review of Flimsy #3 (“Need for more explanation of SARPs for Aggregating ATSC Class”).....	12
9. Review of Flimsy #6 (“Addition of a call clearing diagnostic indicating ‘LREF Compression not Supported’ ”).....	12
10. Review of Flimsy #8 (“Invalid Forwarding Rule”).....	13
11. Review of Flimsy #10 (“ADM IATA Administration”).....	13
12. Review of Flimsy #7 (“Checking Call Accept User Data”).....	13
13. Review of Flimsy #9 (“Regional ATN NSAP Address Allocation”).....	13
14. Agenda Item 5.2 Continued - Review of Proposed Changes.....	14
15. Preparation for the 18:30 Joint Working Group Meeting.....	14
16. Feedback from the 18:30 Joint Working Group Meeting.....	15
17. Review of Flimsy #2 (“Use of the ISO/IEC 9542 Configuration Timer”).....	15
18. Review of Flimsy #5 (“Use of the Mobile SND CF for Ground to Ground Communications”).....	15
19. Review of Flimsy #3 (“Aggregating the ATSC Class”).....	16
20. Agenda Item 5.2 Continued - Review of Proposed Changes.....	16
21. Agenda Item 5.4 - Future role & operation of the CCB.....	16
22. Agenda Item 3 Continued - Issues Arising out of other ATNP WGs & Other Related Bodies ...	17
23. Review of Flimsy #12 (“Proposed revision to Chapter 7 to accommodate VDL requirements”).....	18
24. Agenda Item 4 - CNS/ATM-1 Registration Authority.....	18
25. Review of Flimsy #11 (“Addressing Multiple Routing Domains on board an Aircraft”).....	18
26. Review of Flimsy #15 (“Call Acceptance and the M/I Bit”).....	18
27. Review of Flimsy #13 (“DRAFT ATNP 2 recommendation for the VDL SARPs (April 1996 version)”).....	19
28. WG3 Requirements Statement for ATSC only Routes	19
29. Review of WordPerfect SARPs	19
30. Agenda Item 6. - Development of Sub-Volume V of the CNS/ATM-1 Guidance Material	20
31. Agenda Item 7 - Development of CNS/ATM-1 Internet SARPs Validation Report.....	22
32. Agenda Item 8 - Review of the draft ATNP/2 Working Papers	23
33. Agenda Item 9 - Future Work Plan up to ATNP/2	25
34. Review of Flimsy #14 “Proposed Resolution for Defect Report 96050107.DR”.....	25
35. Review of Flimsy #16 “Approach to the Further Development of Guidance Material”	25
36. Agenda Item 10 - AOB	25
37. Agenda Item 11 - Conclusions & Action List	25

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

38. WG3 Response to WG2 Flimsy 17.....	26
39. Appendix A - WG2 ATTENDANCE LIST	27
40. Appendix B - List of Working Papers.....	30
41. Appendix C - Meeting Agenda	32
42. Appendix D - Flimsy #1 - Amending the Definition of the Default Route to all Mobiles.	33
43. Appendix E - Flimsy #3 - Aggregating the ATSC Class	34
44. Appendix F - Flimsy #4 - New text for section 5.7.6.2.1.4.1	36
45. Appendix G - Flimsy #5 - Use of the Mobile SNDCF for Ground to Ground Communications ...	37
46. Appendix H - Flimsy #6 - Addition of a call clearing diagnostic indicating “LREF Compression not Supported”.....	38
47. Appendix I - Flimsy #7 - Checking Call Accept User Data.....	40
48. Appendix J - Flimsy #9 - Regional ATN NSAP Address Allocation.....	41
49. Appendix K - Flimsy #10 - ADM IATA Administration.	43
50. Appendix L - Flimsy #11 - Multiple RDs on Aircraft.....	44
51. Appendix M - Flimsy #12 - Proposed revision to Chapter 7 to accomodate VDL requirements ..	46
52. Appendix N - Flimsy # 13 - DRAFT ATNP 2 recommendation for the VDL SARPs	49
2.2 Tracing VDL requirements in ATN SARPs, Sub-Volume 5.	52
53. Appendix O - Flimsy # 14 - Proposed Resolution for Defect Report 96050107.DR.....	54
54. Appendix P - Flimsy # 15 - Call Acceptance and the M/I Bit.....	56
55. Appendix Q - Flimsy # 16 - Guidance Material Planning.....	57
56. Appendix R - Flimsy # 17 - WG2 Validation Flimsy to WG3.....	59
57. Appendix S - Action List.....	60

1. Agenda Item 0 - Meeting Organisational Issues

At the initial ATNP-1 meeting held in Montreal 8-21 June 94, three working groups were created in order to further the work of the Panel. This is a report of the ninth meeting of Working Group 2 (WG2) of the ATNP which was hosted by DFS in Munich, Germany in the period 24th - 28th June 1996.

Twenty seven experts from ten States (Australia, Brazil, Canada, Egypt, Japan, Germany, Ireland USA, France, UK) and five International Organisations (ARINC, SITA, Inmarsat, IATA, EUROCONTROL) attended the meeting. The list of attendees is at Appendix A. A total of 43 Working Papers were submitted to the meeting, the list is at Appendix B.

Mr. Graf presented WP/309, "Some Administrative Information concerning the meeting of the ATNP working groups in Munich" which explained the administrative arrangements that DFS had provided for the meeting.

2. Agenda Item 1 - Approval of Agenda and Objectives

2.1 Mr. Sharma, Rapporteur of WG2, opened the meeting and drew the participants attention to the Working Papers that had been prepared for the meeting and, in particular, to WP/283 comprising the agenda, a list of all known working papers, their assignment to agenda items, a list of meeting objectives and a proposed schedule for the meeting. This had been prepared by Mr. Sharma in advance of the meeting.

2.2 The meeting agreed the objectives for the meeting as proposed in WP/283 and these are reproduced below:

- to review Version 5.1 of Sub-Volume V draft SARPs and proposed changes to progress to Version 6.0;
- to review and agreed changes required to incorporate applicable VDL requirements on the Mobile SNDCF;
- confirm stability of Version 6.0 SARPs for submission to ICAO;
- to review report and recommendations of WG2 Edit Committee;
- to review role & operation of the CCB;
- to review the guidance material available to date;
- to agree on ATNP/2 recommendation that Sub Vol. 5 guidance material be published as an ICAO Manual/Circular;
- to develop future work plan to finalise the guidance material;
- to review proposed changes to Sub Volume 5 "ATN Validation Objectives" (AVOs);
- to assess coverage of AVOs to identify gaps and encourage remedial action;
- to review available Sub Volume 5 Validation Report material;
- to develop work plan to finalise the Validation Report;
- to review draft WG2 ATNP/2 Working Papers agreed at WG2/8;
- to ensure alignment and consistency with draft WG1 & WG3 ATNP/2 Working Papers;
- agree on objectives of October WG2 meeting;
- to review and refine overall WG2 work plan up to WG2 (Feb./March 97);
- to review and, where possible, resolve Issues from WG1/5, the Panel Secretary and other related bodies.

2.3 The agenda as proposed in WP/283 was reviewed and item 9 was modified to reflect the future work plan up to the recently scheduled Working Group of the Whole meeting in Feb./Mar 97. The agreed agenda is reproduced in Appendix C.

3. Agenda Item 2 - Approval of the Brussels WG2 Meeting Report - Review of Action List

3.1 The report of the Brussels meeting was agreed with the following minor amendments:

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

- Mr. Graf's and Mr. Tamalet's names had been spelt incorrectly for which the Rapporteur apologised.
- Section 6.3, fourth sentence was corrected to "... encouraged to propose".

3.2 The meeting reviewed the action list in order to assess the progress to date:

REF.	DELIVERABLE	ACTIONEE	STATUS
	MELBOURNE WG		
	TOULOUSE WG		
	FAIR OAKS		
ACTION - 4/1	To develop high level proposals for CNS/ATM-2 internet requirements for presentation to the October ATNP WG meetings.	Ron Cossa	Complete
	ROME		
	BANFF		
6/22	To provide IATA tool specification information based on guidance provided as a result of 6/17	Mr. Hennig	On-going
6/31	To complete draft section 3 of guidance material	Mr. Sharma/Mr. Hennig	Ongoing
6/33	To complete draft section 5 of guidance material	Mr. Roy	Ongoing
6/35	To complete draft section 7 of guidance material	Mr. Hennig	Ongoing
	BRISBANE		
7/21	Draft recommendation for ATNP/2 requesting that ICAO request states to establish registration authorities for NSAP addresses.	F Colliver	Superseded
7/22	Propose format for NSAP address repository on CENA archive	F Colliver (WG2/8 F#1)	Ongoing
7/23	Develop guidance material for route aggregation, route merging & route information reduction.	H Hof	Complete
7/24	To develop guidance material for VDL mode 3/CLNP priority mapping	R Cossa	Ongoing
7/25	To develop guidance material related to TP4 timer settings	R Cossa	Ongoing
7/26	To develop guidance material related to subnetwork priority invocation & use of the X.25 idle timer	H Thulin	Ongoing
7/27	To develop guidance material related to security label handling by transport service/entity	A Sharma	Ongoing
7/28	To develop guidance material related to traffic type semantic and handling within ISSs.	F Colliver	Ongoing
7/29	To develop guidance material related to (a) NSAP, TSAP address registration and assignment , (b) efficient assignment of ground ARS values to support efficient global routing	KP Graf	Complete
7/33	Present results of NUT Concept Validation Trials	P Hennig	Ongoing
7/35	Develop proposal for Validation Assessment Process	H Hof	Complete
7/39	Consolidate all available Validation Tool Descriptions	H Hof	Ongoing
7/40	Continue development of Validation Report for submission to WG2/8	P Whitfield	Ongoing
7/41	Review ATN Specific PRLs with respect to replacing the words "use of" with "support of"	TBA	Ongoing
	BRUSSELS		
8/1	Remove refs. glossaries & acronym list from Sub Volume 5 SARPs.	Mr. Crenais	Complete

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

REF.	DELIVERABLE	ACTIONEE	STATUS
8/2	Check for discrepancies between the glossaries/acronym list and propose updates to Sub Volume 1	Ms Cosgrove	Complete
8/3	Report WG2 recommendation that the Reference Section in the Sub Volume 1 SARPs be structured to reflect applicable references to each of the succeeding Sub Volumes.	Ms Cosgrove	Complete (failed)
8/4	To investigate what the Panel Secretary did with the combined Flimsy 9/11 AMCP WP, and if it was not presented to the AMCP meeting to agree on a strategy whereby the recommendations in the Paper could be accommodated.	Mr. Sharma	Complete
8/5	Investigate issues required to develop CP for DR100 (IDRP Timers)	TBD	Ongoing
8/6	Include explicit numbering in future SARP modifications lists.	Mr. Crenais	Complete
8/7	Continue Simulation work to determine optimum value for congestion management beta value.	Mr. Hof	Ongoing
8/8	To review Version 1.2 Guidance Material & provide comments to next WG2 meeting.	All	Ongoing
8/9	Request Mr. Whitfield to gather detailed input from participating States/Organisations on their validation plans.	Mr. Sharma	Complete
8/10	Issue Flimsy 10/12 to ATN-technical mailing list requesting feedback on proposed changes.	Mr. Sharma	Complete
8/11	Develop draft ATNP/2 WP titled "Progress Report of WG2 since ATNP/1"	Mr. Sharma	Complete
8/12	Develop draft ATNP/2 WP titled "Introduction to Sub Volume 5 SARPs"	Ms Cosgrove	Complete
8/13	Develop draft ATNP/2 WP titled "Introduction to Sub Volume 5 Guidance Material"	Ms Cosgrove	Superseded
8/14	Develop draft ATNP/2 WP introducing proposed amendments to Sub-Volume 5	Mr. Sharma	Complete
8/15	Develop draft ATNP/2 paper proposing mechanisms & procedures for on-going maintenance of SARPs post ATNP/2	Mr. Hof	Complete
8/16	Develop draft ATNP/2 paper proposing approach for the development of CNS/ATM-2 Internet SARPs	Mr. Hof	Complete

4. Agenda Item 3 - Issues Arising out of other ATNP WGs & Other Related Bodies

4.1 WP/306, "An update from the Panel Secretary", was presented by Mr. Paydar, which included information regarding the forthcoming ATNP/2 meeting:

- The paper confirmed the dates of ATNP/2 (04 -15th November 1996), provided the agenda, terms of reference and work programme of the Panel and provided information about the move of ICAO HQ within Montreal.
- To allow the impact of validation results to be considered, a Working Group of the Whole Meeting will be held in Feb./Mar 1997.
- The SARPs and guidance material at the Panel meeting will be presented in English only, but language translation of the SARPs for circulation to States will commence as soon as the documents are received (i.e. shortly after the Munich WG meetings). Any changes required by the WG meeting in Feb./Mar 97 will

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

be incorporated prior to circulation to States. Changes submitted to ATNP/2 and the WG2 meeting should be based upon the final text submitted to ICAO for language translation.

- The working group Rapporteurs will provide an informal briefing to Panel Members before the opening of the Panel Meeting.

4.1.1 Mr. Paydar requested that any proposed changes to Annex 10 material be submitted through the Working Groups rather than directly as State papers. He also stated that the ATN Manual (as presented at SICASP/5 & ATNP/1) would not be published by ICAO as its use had been superseded by the draft ATN SARPs material.

4.1.2 Mr. Whyman sought clarification regarding submission of guidance material. Guidance material can be incorporated into the Appendix and would appear as green pages, but would need to be submitted with the SARPs material for translation. With respect to Mr. Whyman's question as to whether it was appropriate for SARPs material to refer to attachments which included "shalls" and "shoulds" Mr. Paydar replied that this was not possible. Mr. Sharma reported the results of a discussion that he had had with the Rapporteurs of the other WGs which concluded that a recommendation be made at ATNP/2 that the guidance material be published as green pages but in English only. Mr. Paydar explained that the issue of languages was a politically sensitive subject and that the Panel should stay clear of any such recommendations.

4.1.3 With reference to registration of addresses, Mr. Paydar stated that the draft SARPs should not allocate responsibilities directly to ICAO. It was possible that an ICAO Designator Document could be used to record address allocations and for that to be maintained by the Regions. The ATNP/2 meeting could recommend this to ICAO and provide the format of such a document.

4.1.4 Mr. Paydar requested that all Working Papers to ATNP/2 should state that they are presented by either a Panel Member or a Working Group Rapporteur. The actual presentation of papers can, of course, be delegated.

4.2 Mr. Sharma drew the meeting's attention to Working Paper 304, "WG2 Rapporteurs Report to WG1" which was presented for information only. He reported that this paper had been presented to WG1 at their meeting which had taken place in the preceding week.

4.3 WP/313, "Issues Related to the Language & WordPerfect Translation of the ATN SARPs" was presented by Mr. Sharma. The diagrams on pages 5 - 7 of this paper were used to illustrate potential problem areas that might arise as a result of the need to submit material to ICAO relatively early in the validation programme for some portions of the SARPs material at least. The paper had been presented at the JWG meeting on the preceding Friday which had concluded that all proposed changes submitted at either ATNP/2 or the WG2 meeting must be baselined on the text that was submitted to ICAO. It was also agreed that the WGs may, if necessary, continue to maintain their files in Word 6.0. Mr. Paydar assured the JWG meeting that ICAO would not introduce any re-formatting, re-numbering until after the WG2 meeting. The current plan was that ICAO will receive the SARPs out of the Munich meetings in WordPerfect 6.1 format and would commence the language translation task, but updates to the documents could be recommended at ATNP/2 and the WG2 meetings. This method of document control had been agreed at the JWG meeting on 21 June.

4.4 Mr. Hennig reported on the progress of the recent CADAG meeting held in Shannon 10-14 June 1996. CADAG had agreed to aim for initial operational capabilities in late 1999. The Implementation Management Group (IMG) would be meeting on Fri. 13 September 1996 and CADAG would recommend to the IMG that they (the IMG) recommend to NATSPG that they (the NATSPG) reconfirm the intent to implement ATN in the NAT region in late 1999, supporting the CNS/ATM-1 applications. Mr. Hennig also reported that the ATMG was currently conducting two safety analysis tasks, one for RHSM and one for the use of FANS-1 in the NAT.

4.5 Mr. Hennig reported on the progress of ATNSI. Two contracts were planned to be let, a Router Reference Implementation (RRI) and a Conformance Test Suite (CTS), for which the vendor announcements would be made in mid-August. The aim of operational evaluation of CNS/ATM-1 in the NAT region in August 98 may slip about six months, but that would still fit with State time-scales for the region. ATNSI would be looking at strategic alliances with the EUROCONTROL ATN programmes, and the CEC funded ProATN and EOLIA initiatives once the ATNSI contracts had been let.

4.6 The Working Group moved on to Agenda Item 5, with the intent to return to Item 3 when all the papers were available.

5. Agenda Item 5.1 - Report of the WG2 Edit Committee

5.1 Mr. Crenais presented WP/301, "Report of the SARPs Editorial Review Committee Meeting". The paper documented the work of the SARPs Editorial Committee at their meeting in Toulouse, 03-07 June 96. At the request of the eighth WG2 meeting in Brussels, the group had undertaken a page by page review of the SARPs and corrected all editorial errors. No technical changes had been introduced, although some minor technical clarification had occurred. Version 5.1 of the SARPs (i.e. WG2/WP284) were circulated via the technical mailing list shortly after that meeting.

5.1.1 Some technical defects had been found in the SARPs and the Editorial Review meeting assigned actions either to present papers for review or to bring up points for discussion at WG2-9 in Munich. The main problems were in Chapters 5.4 (Addressing) and 5.7 (SNDCFs). WPs 291 and 292, prepared by Mr. Whyman detail proposed revisions to these chapters respectively. The Editorial meeting recognised the need to review all references to ISO standards in the APRLs in chapter 5.

ACTION 9/1 - KP GRAF - CHECK ISO STANDARD REFERENCES
IN SUB-VOL V, CHAPTER 5 TRANSPORT APRLS.

5.1.2 WP/301 concluded that due to the large amount of editorial modification, Version 5.1 should be reviewed by WG2 members before its adoption as Version 6.0 and subsequent release to ICAO. This was agreed.

5.1.3 Mr. Hennig referred to WP/301, Annex B, section 2.3 and explained that IATA already had a procedure to administer the registration of the ADM field.

6. Agenda Item 5.2 - Review of Proposed Changes

6.1 The meeting undertook a review of WP/284, "ATN SARPs, Sub Volume 5 - Internet Communications Service, Version 5.1, 7th June 1996" to consider the editorial changes that had been reported in WP/301. It was noted that further changes would be made during the meeting after the presentation of other Working Papers.

6.1.1 The version 5.1 of the SARPs, as presented in WP/284, were accepted with the following comments:

- Mr. Sharma wanted to be sure that changing the title of Sub-Volume V back to "Internet Communications Service" would not cause problems with the Sub Volume 1 & Part 1 documentation being developed by WG1. Ms. Cosgrove undertook to investigate and subsequently reported that the change was consistent with the WG1 documentation.
- **Flimsy #1** - it was agreed that the definition in 5.2.2.7.1.(b) of the default route to all mobiles was deficient in that it did not recognise that this route must have two NSAP Address Prefixes in its NLRI. This is because there are two Network Addressing Domains for airborne systems. Mr. Whyman agreed to develop a flimsy (#1) that would propose text to clarify definition.
- Notes 1 c) and 6 in section 4.2.7 were re-worded to end "... in accordance with ITU resolutions on frequency management." This completed action 1 from the Editorial Review meeting.
- In chapter 6, section 5.6.3.4.1 the Echo Response Function text was reinstated and in table 5.6.4.2.1 ATN CLNP5 was made mandatory.
- **Flimsy #2** - In 5.3.5.2.10.8, it is recommended that the ISH PDU Holding Timer is set to 65535 in order to effectively suppress the generation of ISH PDUs once an IDRP BIS-BIS connection has been established. However, this is one step removed from the actual requirement which is to stop generating ISH PDUs; the generation of ISH PDUs being on expiry of the Configuration Timer. Mr. Whyman agreed to develop Flimsy #2 which would propose text to focus on the actual requirement.

- **Chapter 9:** The meeting agreed a number of changes to the Systems Management Provisions as documented in Chapter 9. The Recommendation was spilt into two recommendations. The second recommendation became “States and Organisations should assign an administrative authority to establish and maintain the management of their Management Domains,”.
- Other minor editorial changes were agreed during the meeting which the SARPs Editor, Mr. Crenais, agreed to incorporate directly into Version 6.0.

6.1.2 **Flimsy #3:** Mr. Tamalet returned to 5.8.3.2.6.4 c) 1) to comment, but Mr. Graf pointed out that there was a Defect Report against this section and further discussion was left until the DRs were reviewed under Agenda Item 5.4. It was noted however that a change to point 2) was required, but the exact wording could not be agreed within the meeting. Mr. Whyman undertook to produce a flimsy [#3] to propose new wording.

6.2 The V5.1 Sub-Volume V SARPs, as amended by WG2-9, would be issued as V6.0 at the end of the meeting. These would be given to Mr. VanTrees and Mr. Pearce who had volunteered to stay in Munich post conclusion of the WG meetings to attempt to convert all draft SARPs material into WordPerfect 6.1 format as required by ICAO. Mr. Sharma asked whether any WG2 members were in a position to support Messrs. Pearce & VanTrees to support the WP translation. Primarily due to the short notice of such a request there was no support possible. It had been agreed in Brussels that Mr. Crenais would possibly support such an activity and Mr. Graf as a fall-back. Mr. Crenais had subsequently reported that he was unable to support the meeting. Mr. Graf was unable to support the activity since it was solely concentrating on a mechanical task and no technical input was required - this being the basis of his previous understanding. Mr. Sharma felt that it was essential that members of the WG accepted actions to review the WordPerfect files produced against the Word 6.0 files and asked for volunteers to support this activity. Actions were agreed as follows:

ACTION 9/2 B CARDWELL TO REVIEW WORDPERFECT VERSION
OF SV5 CHAPTER 1

ACTION 9/3 JM CRENAIS TO REVIEW WORDPERFECT VERSION
OF SV5 CHAPTER 2

ACTION 9/4 I BARBULESCU TO REVIEW WORDPERFECT
VERSION OF SV5 CHAPTER 3

ACTION 9/5 P HENNIG TO REVIEW WORDPERFECT VERSION
OF SV5 CHAPTER 4

ACTION 9/6 S COSGROVE TO REVIEW WORDPERFECT VERSION
OF SV5 CHAPTER 5

ACTION 9/7 B CARDWELL TO REVIEW WORDPERFECT VERSION
OF SV5 CHAPTER 6

ACTION 9/8 ARINC TO REVIEW WORDPERFECT VERSION
OF SV5 CHAPTER 7

ACTION 9/9 P WHITFIELD TO REVIEW WORDPERFECT
VERSION OF SV5 CHAPTER 8

ACTION 9/10 B CARDWELL TO REVIEW WORDPERFECT VERSION OF
SV5 CHAPTER 9

6.3 The meeting noted that ICAO was only capable of accepting figures in Corel Draw format. The figures in Sub Volume 5 had been developed in a number of various packages (e.g. Designer, PowerPoint etc.) all of which had to therefore be converted. Mr. Herber agreed to attempt to convert the figures. Subsequently

the meeting requested Mr. Herber to incorporate changes to diagrams that were required after review of the SARPs.

ACTION 9/11 - A HERBER - TRANSLATE SUB VOLUME 5 FIGURES INTO COREL DRAW, CHANGING FIGS 5.7-1, 2 & 3 AS AGREED

6.4 Mr. Whyman presented WP/291, “Proposed Changes to Sub-Volume V Chapter 4 ” the need for which had been identified at the Editorial meeting. That meeting had developed a flimsy (reproduced in WP/291) which identified the areas of the Chapter which required further clarification. The paper proposed changes which clarify the use of the terms “Administrative Domains”, “Network Addressing Domains”, clarified responsibilities for assignment and administration of the various fields parts of the address space, and clarified the encoding of the DSP field. The WP introduced the Reference Publication Format concept to aid clarity by enabling address examples to be used. The paper also introduced the concept of regional addressing domains to facilitate efficient route aggregation and to support the addressing of ATSC organisations for which there is no applicable ISO country code with EUROCONTROL being cited as one possible example.

6.4.1 The meeting considered the principle of a “wholesale” replacement of Chapter 5.4 at this late stage of the process. It was pointed out that Chapter 5.4 had had up until now relatively fewer defect reports than any other Chapter and it would be better, given the limited time available, to concentrate on identifying & resolving defects in the current Chapter 5.4 text rather than replacing the whole Chapter. Mr. Hennig stated that he had reviewed the paper in detail before-hand and considered that the paper, whilst retaining all essential text, significantly improved clarity, although there were some new errors that needed correcting. The meeting finally agreed to accept the principle of the wholesale replacement and agreed to conduct a detailed review of WP/291 later in the meeting.

6.5 Mr. Van Trees presented WP/294, “Transport Timer and Protocol Parameter Settings” which presented results from simulation work conducted in the US by Mitre/CASSD & Mayflower Communications on behalf of the FAA. The WP recalled that in response to a previous WP presented at the WG2/8 meeting it had been desired by the WG that a set of TP4 timers be identified that could provide a satisfactory service over not only the AMSS subnetwork but additionally the VDL & Mode S Subnetworks. Consequently, based upon further simulation work the WP concluded on a set of values that appeared to result in such a service and recommended that these values be included in the SARPs as “example” values alongside the minimum & maximum allowable values. Mr. Whyman asked whether more than just the AMSS air/ground subnet had been simulated. Mr. VanTrees believed that the simulation had set the parameters wide enough to smooth out the differences between the subnetworks. Mr. Hof asked whether the congestion algorithm as specified in the draft SARPs had been accounted for in the simulation as this would affect the results. Mr. Van Trees explained that the purpose of the paper was to get a common set of parameters for the airborne systems and that ground values could still be set according to operational requirements. It was concluded that the exercise had simulated congestion but had not applied the congestion algorithm. In light of the ongoing co-operative European simulation programmes, it was agreed to defer any resolution on the recommendation in WP/294 with respect to including the table with example COTP4 values until the October WG2 meeting . Further, it was agreed to co-ordinate any further work in the USA with the European work with the aim of submitting a paper on this subject to the October WG2 meeting. From an implementers perspective Mr. McGoldrick requested that the SARPs at least need to provide an indication as to which timers should be statically and which should be dynamically configured.

6.6 Mr Sharma presented WP/321, “ICAO ATN/VDL Correspondence”, which was provided by the Panel Secretary, Mr. Paydar, and described how the AMCP had dealt with the ATNP WG2 submission (i.e. Flimsies 9 & 11 from the Brisbane WG meeting) regarding the relocation of the VDL SNDCF SARPs and CLNP priority. It was noted from WP/321 that the AMCP Secretary recommended that ATNP develop a proposal that the VDL SARPs are moved to the appropriate area of Annex 10. Working Group 2 would need to prepare the draft ATNP/2 paper on this topic. This was agreed (Action 9/13).

6.7 Mr. Sharma presented WP/311, “Matters of Style” prepared by Mr. Van Trees. It was noted that the Sub Volume 5 SARPs are compliant with the requirements of WP/311 to the extent practicable.

6.8 Mr. Whyman presented WP/292, “Proposed revisions to Chapter 7”, the need for which was identified at the Editorial Review meeting. An initial comment by Mr. Tamalet questioned whether an airborne Router knew *a priori* whether or not subnetworks on an “end-to-end” path had Fast Select Support. It was agreed that it did and Mr. Hennig undertook to develop a Flimsy [#4] to add a note to make this clear. The meeting conducted a detailed review of the changes proposed by WP/292 and agreed the following:

- The recommendation in section 5.7.6.1.4 was relocated to 5.7.5, a more appropriate position, and a note added to introduce it. Mr. Whyman undertook to develop a Flimsy [#5] to provide the text of the note.
- Flimsy #4 (Appendix F) was submitted by Mr. Hennig and accepted for section 5.7.6.2.1.4.1
- Note 1 under 5.7.6.2.1.4.2 was changed to “This permits the responding DTE to accept the call and to return up to 128 octets of users data.” to provide additional clarification.
- 5.7.6.2.1.5.10 was modified to “... shall not be simultaneously offered if the Fast Select Facility ...” to remove ambiguity.
- A new note was added in 5.7.6.2.5.1.8 “While this specification mandates use of LREF Compression, this may not be the case in future versions of this specification hence procedures are used on a virtual circuit basis”.
- A new clearing diagnostic code for LREF not supported in table 5.7-3 was agreed. Mr. Tamalet undertook to develop a Flimsy [#6].
- It was agreed that there was an omission in the draft SARPs regarding the handling of incoming call user data by the calling DTE. Ms. Thulin agreed to develop a Flimsy [#7] to propose changes to explain the requirement and was directed to the last two paragraphs on page 10 of WP/272 that had been proposed for deletion, for potential contributory information.
- Other minor editorial changes were agreed during the meeting which the SARPs Editor, Mr. Crenais agreed to incorporate directly into Version 6.0.

6.9 The meeting returned to WP/291, “Proposed Changes to Sub-Volume V Chapter 4”, and reviewed the changes line by line. The working paper was accepted for incorporation into Version 6.0 with a number of detailed amendments agreed. In the review of WP/291, it was agreed that the proposed Regional Addressing Domain to allow NSAP addresses to be assigned to International Organisations, based upon the use of the VER field, should not be accepted. Instead, an approach using the existing Fixed ATSC Network Addressing Domain and making use of the unused ADM field values should be investigated. Mr. Whyman undertook to develop a Flimsy [#9] to propose such an approach. Par. 5.4.3.8.4.3, note 1 caused some discussion and it was agreed that additional/clarification text was required to enable more than one Routing Domain on board an aircraft as required by Chapter 2. Mr. Whyman undertook to develop a flimsy [#11] to propose the necessary changes to the SARPs. Other minor editorial changes were agreed during the meeting which the SARPs Editor, Mr. Crenais, was asked to incorporate directly into Version 6.0.

7. Review of Flimsy #1 (“Amending the Definition of the Default Route to all Mobiles”).

7.1 Mr. Whyman presented Flimsy #1 the development of which had been actioned during the review of the draft SARPs (WP/284). The proposed changes were accepted without comment and it was agreed that they be incorporated into version 6.0 of the SARPs. The final version of the Flimsy is at Appendix D.

8. Review of Flimsy #3 (“Need for more explanation of SARPs for Aggregating ATSC Class”).

8.1 Mr. Whyman presented Flimsy #3 the development of which had been actioned during the review of the draft SARPs (WP/284). The proposed changes were discussed and it was agreed that additional text to specifically prohibit the aggregation of ATSC and non ATSC routes was required. Mr. Whyman undertook to update the Flimsy.

9. Review of Flimsy #6 (“Addition of a call clearing diagnostic indicating ‘LREF Compression not Supported’ ”).

9.1 Mr. Tamalet presented Flimsy #6 the development of which had been actioned during the review of the proposed changes to Chapter 7 (WP/292). The proposed changes were accepted without comment and it was agreed that they be incorporated after the note in section 5.7.6.2.1.7.3 of version 6.0 of the SARPs. The final version of the Flimsy is at Appendix H.

10. Review of Flimsy #8 (“Invalid Forwarding Rule”).

10.1 Mr. Tamalet presented Flimsy #8 which provided a proposed SARPs amendment. The meeting was not sure that the identified problem (i.e. that a CLNP PDU tagged with “AOC-ATSC No Traffic Type Policy Preference” may pass over a route not approved for ATSC) was a defect and agreed to seek clarification from WG3. Mr. Whyman, who had briefed WG3 on Traffic Types reported that the current SARPs were compliant with WG3 requirements on the above. The flimsy was consequently not accepted for incorporation into the SARPs.

11. Review of Flimsy #10 (“ADM IATA Administration”).

11.1 Mr. Hennig presented Flimsy #10 which provided a proposed SARPs amendment. The proposed changes were accepted without comment and it was agreed that they be incorporated after the note in section 5.7.6.2.1.7.3 of Version 6.0 of the SARPs. The final version of the Flimsy is at Appendix K. However it was felt that the SARPs were not clear on the exact definition of an AINSC Organisations. It was agreed that such a definition must be included in the Part 1 SARPs. Ms. Cosgrove agreed to ensure that such a definition was included in Part 1.

ACTION 9/12 - MS. COSGROVE - ENSURE WG1 INCLUDE A CLEAR DEFINITION OF AINSC ORGANISATION IN PART 1

12. Review of Flimsy #7 (“Checking Call Accept User Data”).

12.1 Ms. Thulin presented Flimsy #7 which was based upon WP/272 (i.e. the revised Chapter 7) related to the verification of whether an NPDU has been transmitted in the additional User Data Field when using Fast Select. A number of detailed changes were agreed and Ms Thulin undertook to incorporate such changes and present an updated version of the Flimsy later in the meeting.

ACTION 9/11 (CONT) - A HERBER - AMEND FIGS 5.7-2 & 3 TO CHANGE USER DATA ITEM ON DIAGRAM TO USER DATA FIELD.

12.2 A revised version of Flimsy #7 was subsequently presented by Ms Thulin. A number of editorial changes were agreed and with these the flimsy was accepted for incorporation into Version 6.0 of the draft SARPs. The final version of the flimsy is at Appendix I.

13. Review of Flimsy #9 (“Regional ATN NSAP Address Allocation”).

13.1 Mr. Whyman presented Flimsy #9 which was actioned during the review of WP/291. The Flimsy proposed a solution to the problem that had been identified with respect to being able to assign addresses to International Organisations that provide ATSC services. The original proposal in WP/291, based upon the use of the VER field had been rejected and flimsy #9 proposed an alternative proposal based on the extended use of the ADM field. The Flimsy assigned an ADM value for each of the nine ICAO Regions and also included additional notes with respect to the enabling of efficient routing information distribution when addresses were assigned under such a regional addressing domain.

13.2 Version 1.1 of the flimsy was presented later in the meeting and was accepted with minor edit. The final version of the flimsy is recorded in Appendix J.

13.3 Mr. Pellegrino proposed that par. 5.4.3.9.4 and all sub paras. in WP/291, “general aviation” be changed to “general aviation and other types of aircraft registered by a State” thereby allowing military use of the addressing plan. This was agreed.

14. Agenda Item 5.2 Continued - Review of Proposed Changes

14.1 Ms. Thulin presented WP/322, “Description of ATN/VDL SNDCF and guidance on possible implementation”. This WP was presented as a pre-cursor to WP/300 which would propose changes to the ATN SARPs Mobile SNDCF in order to incorporate the Mobile SNDCF requirements that had been defined in the VDL SARPs. WP/322 recalled that the VDL SARPs adopted at the last AMCP meeting included an additional limited number of requirements which the Mobile SNDCF (specified in the ATN Sub Volume 5 SARPs) must implement in order to work over a VDL subnetwork. The paper noted that the problems that exist with AMSS are not applicable to the VDL network with respect to the need for X.75 gateways and the translation of Fast Select. Pending acceptance of the changes necessary to incorporate the VDL specific changes it was agreed that a WP for ATNP/2 was required recommending removal of the requirements from the VDL section of Annex10.

ACTION 9/13 - A SHARMA - DEVELOP ATNP/2 PAPER TO PROPOSE RELOCATION OF SNDCF SARPS.

14.2 With respect to the conclusions of WP/322 the following was noted/agreed by the WG:

- Fast Select was already mandated for use in the SARPs when supported by the subnetwork;
- Proposed change regarding the M/I bit accepted;
- Maintaining local reference directory accepted as a principle;
- Local reference compression and VDL - noted as information;

Addition of diagnostic code - not considered to be an issue for WG2.

14.2 WP/300, “Proposed revision to Chapter 7/ WP 292 to accommodate VDL requirements”, presented by Ms. Thulin. It was noted that this WP was baselined on WP/292. After a detailed review of the changes proposed in WP/300 Ms. Thulin agreed to develop a Flimsy (#12) that would incorporate all agreed comments.

15. Preparation for the 18:30 Joint Working Group Meeting.

15.1 Mr. Sharma briefly presented WP/325 (Topics for WG2/WG3 Joint Meeting, 26 June, WG3 Flimsy 9).

The meeting reviewed each of the topics proposed for the session as follows:

- **Format of WPs to ATNP/2** (WP/326) - the proposed format was agreed and the meeting did not see the need for too much debate at the joint session;
- **Guidance material** - It was agreed that, as proposed, WG1 develop an overall ATNP/2 WP addressing the subject of guidance material. It was noted that, based on progress to date on the development of guidance material, the earliest date by which guidance for Sub Volume 5 could be considered stable was the October meetings.
- **Format of Validation Report** - the meeting briefly reviewed WP/307 which proposed that a common format be adopted for the validation reports supporting each of the Sub Volumes, i.e. appendices to the main validation report (WP/312). Whilst the meeting agreed with the proposed contents of the appendices it was agreed that the Sub Volume 5 appendix be based upon the format proposed in WP/288 as presented by Mr. Hof. The meeting noted that WP/307 proposed a Validation Database based upon entries for each “shall”. The WG noted that such an approach had been initially followed by WG2 for the Sub Volume 5 validation, however, it had to be abandoned due to practical reasons, i.e. the material was insufficiently stable which required a significant amount of management overhead in attempting to keep the database up to date.
- **Package 2** - The meeting agreed that this subject should be discussed at the Joint session, however, it was preferred that any discussion on the subject be restricted to the principles for defining Package 2 requirements rather than focusing on specific technical issues such as Upper Layer services as indicated in WP/325. Mr. Hof presented WP/296 (“ATNP/2 WP on the approach for the development of new ATN Internet SARPs and guidance material”). In summary the WP proposed that all requirements for the Package 2 Internet should be based on a “top down” approach, i.e. no additional Package 2 SARPs should be developed unless there is a real user requirement. The WP additionally proposed that the WGs post ATNP/2 should focus efforts on supporting operational developments of ATN compliant systems that are planned to commence in the short term. Both of these key points were agreed by the WG and were to be put

to the joint session. Mr. Hennig believed that the current situation of whereby the ADSP define Operational Requirements needed to be reviewed since there was no apparent account taken of any input from Regional Planning groups such as the NATSPG. It was agreed to raise this point at the joint session. Mr. Hennig stated that he was considering some means of establishing a biannual ATN implementers “workshop” in order to share feedback from problems experienced in implementing the SARPs. Ideally, Mr Hennig believed that such a forum should be established under the ATNP in order to ensure adequate representation of National Administrations. It was agreed to raise this point at the joint session. Mr. Hof was concerned that the JWG had agreed the same WG structure post ATNP/2 (i.e. retain WGs 1, 2 & 3) since he felt it was premature to make such a decision in the absence of an agreed future work programme. It was agreed to raise this point at the joint session.

- **JWG session in Halifax (2nd August):** Given that it was impossible to review and accept all draft ATNP/2 WPs during the week it was agreed that there was a need to schedule a one day JWG meeting at the end of the next WG1 meeting in Halifax. This would allow sufficient time for the review of all ATNP/2 WPs. It was, however, noted that attendance from WG2 members at that JWG meeting would be limited due to short notice and limited travel budgets.

16. Feedback from the 18:30 Joint Working Group Meeting.

16.1 Mr. Sharma briefly reported on the main agreements of the joint session with WG3 that had taken place in the previous evening. It had been agreed that WP/326 be used as the format for ATNP/2 WPs. It had been agreed that WG1 develop ATNP/2 WP for all guidance material. It had been agreed that the appendices to the JWG WP on Validation need not be of identical format as had been proposed in WP/307. The principle of a “top down” approach for the development of additional SARPs had been agreed. Mr. Hennig had stated that IATA would be pursuing a proposal to establish an additional WG under ATNP, the purpose of which would be to review issues related to on-going operational implementations of the SARPs and provide industry and users with a forum where lessons learnt in implementing the SARPs may be exchanged. The joint session had recognised that any configuration control/maintenance procedures post ATNP/2 could only be proposed within the existing ICAO constraints. The need for a JWG on 2nd August had been agreed with the objective of having all ATNP/2 WPs tabled for approval. The objectives of the October series of WG meetings would be to agree on proposed amendments to the SARPs submitted to ICAO post Munich, agree on final guidance material and to agree on the final Validation Report.

17. Review of Flimsy #2 (“Use of the ISO/IEC 9542 Configuration Timer”).

17.1 Mr. Whyman presented Flimsy #2 the development of which had been actioned during the review of WP/284 (Sub Volume 5 SARPs). It was noted that the proposed resolution did not meet the expectations of the meeting when the need for such a flimsy was discussed, since it was expected that the resolution would modify the text related to the configuration timer and not the holding timer as proposed. Mr. Crenais proposed to retain the existing text and to move the recommendation in Chapter 8 in the ES-IS PRL. Mr. Whyman explained that both timers work in conjunction with each other and he was attempting to address the real requirement which was to minimise the exchange of PDUs and that his proposal would result in only one ISH being exchanged rather than two as was the current situation. Finally it was agreed that Mr. Whyman issue a defect report and associated draft CP which could be considered by the CCB.

ACTION 9/14 - T WHYMAN - PREPARE DEFECT REPORT BASED ON
FL#2.

18. Review of Flimsy #5 (“Use of the Mobile SND CF for Ground to Ground Communications”).

18.1 Mr. Whyman presented Flimsy #5, the development of which had been actioned during the review of WP/292. During the review of WP/291, it was agreed that 5.7.6.1.4 was inappropriately located. The recommendation applies to ground subnetworks, and is more appropriate for 5.7.5. The proposed revisions were accepted and agreed for incorporation into Version 6.0 of the SARPs. The final version of the Flimsy is at Appendix G.

19. Review of Flimsy #3 (“Aggregating the ATSC Class”).

19.1 Mr. Whyman presented a revised version of Flimsy #3. The proposed text was accepted with minor editorial amendments and it was agreed to revise the flimsy with changes baselined on the current revision of the SARPs. The final version of the Flimsy is at Appendix E.

20. Agenda Item 5.2 Continued - Review of Proposed Changes

20.1 Mr. Crenais questioned whether it was appropriate to retain the “FOREWORD” in WP/284 (i.e. the Sub Volume 5 SARPs) since it was essentially back-ground material specific to Sub Volume 5 and was not wholly appropriate for direct inclusion in Annex 10. The meeting agreed that the material contained therein was useful back-ground to the development of Sub Volume 5 and should therefore be retained on the understanding that it may be deleted by ICAO in the longer term. A number of detailed changes to the text were agreed.

20.2 Mr. Sayadian proposed that an additional note be added to the text in the CIDIN SNDCF section of the SARPs based on the proposed revisions to Chapter 7 WP (i.e. WP/292), page 5.7-3, sect. 5.7.4.1. The proposed note - “the SNDCF maps to Level 2 of CIDIN as specified in Annex 10 Volume II” was accepted. Mr. Sharma proposed that the existing note in the section also be modified to clarify the intent - i.e. that the CLNP assumes a CLNS subnetwork service and that the CIDIN Level 4 service essentially provides such a service. The meeting agreed the proposed revision to the SARPs text.

21. Agenda Item 5.4 - Future role & operation of the CCB

21.1 Mr. Sayadian informed the meeting that Mr. Cossa (CCB Chair) would no longer be participating in ATNP WG2 and had therefore resigned as CCB Chair. The meeting requested Mr. Sayadian to pass their appreciation to Mr. Cossa for his efforts as CCB Chair to date.

21.2 Mr. Sharma requested views from participants as to whether the CCB should continue to operate as currently defined or whether changes to the current procedures were required. Mr. Bochkarev supported the principle that knowledge of all changes to SARPs documentation be made as wide-spread as possible and therefore supported the continuation of the CCB. The general consensus of the meeting was that the CCB has operated efficiently to date and should continue. Indeed it was considered that the role of the CCB was even more critical than before as ATNP/2 approaches.

21.3 Mr. Sharma proposed that, contrary to past procedures where it was not necessary for positive acceptance of all defects and change proposals by CCB members, he preferred that CCB only presents recommendations to the WG when ALL CCB members have responded with a positive acceptance. This was agreed.

21.4 It was agreed that the CCB will provide agreed defect reports and change proposals at the October WG2 meeting and that such change proposals would not be incorporated into the baseline SARPs prior to that meeting. It was agreed that the deadline for CCB changes to be submitted to the WG in October was three weeks prior to the start of that meeting, i.e. 13th September.

21.5 The CCB membership was reviewed and the following were confirmed as **ACTIVE** members (i.e. such members are **required** to provide a response to all proposed Validation Record Configuration Items (VRCIs)) members:

- TBD (FAA), Ms Thulin (SITA), Mr. Tamalet (STNA), Ms. Cosgrove (CANADA), Mr. Briand (EUROCONTROL), Mr. Graf (Germany), Mr. Bigelow (ARINC).

(Editors Note: Subsequent to the meeting the FAA confirmed that Mr. Pat Feighery will be the US representative on the CCB).

21.6 The following were confirmed as OBSERVERS (i.e. such members are not required to provide a response to VRCIs but may chose to do so if they wish or be required to do so based upon the judgment of the CCB Chair):

- C Ricci (France) , P Whitfield (Australia), Brian Cardwell (UK), Carlos Pellegrino (Brazil), Paul Hennig (IATA), JM Crenais (France) , H Usumoto (Japan).

21.7 The meeting agreed that ALL proposed changes to the SARPs MUST be submitted via the CCB to the WG.

21.8 Mr. Sharma requested volunteers for accepting the role of the CCB Chair. Messrs. Crenais & Hof preferred that the nomination was from a region other than Europe and Ms. Cosgrove was nominated. Subsequent to discussion with her management Ms. Cosgrove accepted the position as CCB Chair for the period up to ATNP/2 at least.

21.9 WP/323 (“ CCB Status”) was presented by Mr. Hof. The paper listed all outstanding Defect Reports and Change Proposals. Attached to the paper were DRs 105, 106 & 107. The WP proposed resolutions for each of the 5 listed VRCIs (DR070, DR105, DR106, DR107, CP069). The following is the WG resolution on each of the listed VRCIs:

- DR70 - already implemented in guidance material. Status - RESOLVED. (Note. - the meeting was reminded that the CCB process does not currently apply to the guidance material).
- DR105 - it was noted that this defect has been resolved without a CP. It was agreed that it become RESOLVED.
- DR106 - accepted as a defect. It was agreed to accept the draft CP in DR106 and add to end of 5.8.3.2.4.1.1 after point 2). Status was consequently agreed as DR RESOLVED.
- DR107 - The meeting agreed the three problems listed as defects. Mr. Graf agreed to develop a Flimsy (#14) that would document a Change Proposal for the DR. The meeting was subsequently presented with and agreed the CP (Appendix O) for inclusion into Version 6.0 of the SARPs.

21.10 It was concluded that there were no outstanding VRCIs.

22. Agenda Item 3 Continued - Issues Arising out of other ATNP WGs & Other Related Bodies

22.1 Ms Cosgrove presented the attachment to WP/302 (“Draft Minutes of WG1\5 Meeting) which listed the key issues arising out of the WG1 & JWG meetings that had taken place in the preceding week. The following points were raised in the attachment:

- *VDL Mobile SND CF Requirements* - WG1 had indicated some concern over this issue as a result of the WG2 Rapporteurs Report to WG1 where the history of the issue had been documented. WG2 noted the concern and had the intention of agreeing the appropriate changes to the ATN SARPs to accommodate all applicable VDL requirements;
- *Review of ATNP/2 final Working Papers*. As a result of the joint session with WG3 it was noted that all draft ATNP/2 Working Papers will be tabled at the JWG meeting in Halifax on 2nd August;
- *WG1 Deliverable - Addressing Concept*. No action had been requested from WG2, however WG2 planned to review some related guidance material on addressing that had been derived from the WG1 addressing concept under the guidance material agenda item;
- *WG3 paper regarding non-use of Transport Checksum*. This paper had yet to be made available to the WG. It was, however, noted that the current Sub Volume 5 SARPs make the support of non-use mandatory;
- *Need to review Sub Volume 1 definitions, acronyms etc.* It was agreed that these terms need to be reviewed. However, due to lack of available time WG2 members were encouraged to review the Sub Volume 1 documentation and submit any comments directly to Ms Cosgrove;
- *WordPerfect, Corel Presentation translation*; This subject had already been considered;
- *WG1 WP5-27 - Security considerations*. It was reported that this subject would be dealt with at the JWG meeting in Halifax;
- *WG1 WP5-6 - Guidance Material for ground/ground subnetworks*. WG2 would be considering the same WP under the guidance material agenda item;
- *Validation activities, guidance material co-ordination*. This issue had already been considered at the joint session with WG3;

- *WG1 July meeting in Halifax.* This was noted.

22.2 Ms. Cosgrove also reported that drafts of Sub Volume 1, Part 1 and the World-Wide Plan were also reviewed and that comments on these documents should be submitted to Tom Kraft. In particular, Ms Cosgrove recommended that the figures in Sub Volume 1 receive some WG2 review attention.

22.3 Ms. Cosgrove presented WP/315 (“Part 1 ATN SARPs”) and provided a brief as to why the document had been produced by WG1 and briefly re-capped on the ANC guidelines requesting that Panels develop a “core” high level set of SARPs which would in turn invoke the requirements in the detailed Appendices. The meeting conducted a high level review, Ms Cosgrove undertook to provide the comments to the editor of Part 1, Mr. Kraft.

**ACTION 9/15 - S COSGROVE - REVIEW SV1 GLOSSARY AND
PORPOSE CHANGES TO INDICATE WHERE SV5 MAKES USE OF
TERMS THAT SHALL NOT BE DELETED.**

22.4 Mr. Hof proposed that additional text in Part 1 be developed which clearly explained the relationship between Part 1 and its Appendices. It was agreed that an additional note be included in 1.3 as follows: “The structure of the detailed SARPs is defined in Appendix A.1” (i.e. Sub Volume 1).

23. Review of Flimsy #12 (“Proposed revision to Chapter 7 to accommodate VDL requirements”).

23.1 Ms. Thulin presented Flimsy #12 which was essentially an update to WP/300 baselining changes to the revised Chapter 7 (i.e. WP/292) that were necessary to incorporate the VDL requirements on the Mobile SND CF. The proposed changes were reviewed in detail and accepted with minor amendment. It was, however, noted that some additional text was required in par. 2.2.2.3 related to the handling of incoming calls in the SND CF. Mr. Whyman accepted an action to develop Flimsy #15 which would propose the additional text. Other than this necessary additional text the flimsy with amendments was accepted for incorporation into Version 6.0 of the SARPs. The final text of the Flimsy is at Appendix M.

24. Agenda Item 4 - CNS/ATM-1 Registration Authority.

24.1 No WPs were presented under this Agenda Item. However, during the review of the action list it had been agreed to review action 7/21 (“Draft Recommendation for ATNP/2 requesting that ICAO request States to establish registration authorities for NSAP addresses”) which was currently outstanding. Mr. Graf reported that WG1 would be developing an ATNP/2 recommendation on this subject which may include a recommendation that ICAO establish an address designator document. It was therefore proposed that the action be closed. This was agreed. Mr. Hennig reported that IATA plans to publish ADM field values.

25. Review of Flimsy #11 (“Addressing Multiple Routing Domains on board an Aircraft”).

25.1 During the review of WP/291, it was agreed that the existing Addressing Plan was defective in that it did not provide for Aircraft on which multiple Routing Domains are implemented, although this is explicitly required by Chapter 2. The flimsy proposed revisions to Chapter 5.4 (Addressing), baselined on WP/272, to enable multiple RDs to be allocated to an aircraft through appropriate use of the LOC field. The proposed revisions were agreed with minor amendment and it was agreed that the resulting text be incorporated into Version 6.0 of the SARPs. It was noted that the term “Regional” still existed in this Flimsy and needed to be removed as a result of the acceptance of Flimsy #9. Mr. Crenais was actioned to ensure that the term was removed from Chapter 5.4. The Flimsy is at Appendix L.

26. Review of Flimsy #15 (“Call Acceptance and the M/I Bit”).

26.1 Mr. Whyman presented Flimsy #15, the development of which had been actioned during the review of Flimsy #12. In the review of Flimsy #12, it was noted that the proposed additions did not include procedures

to handle an incoming call accept packet. This flimsy proposes suitable text. The proposed text was accepted, with minor amendment, for inclusion into Version 6.0 of the SARPs. The final version of the Flimsy is at Appendix P.

27. Review of Flimsy #13 (“DRAFT ATNP 2 recommendation for the VDL SARPs (April 1996 version)”).

27.1 Ms. Thulin presented Flimsy #13, the development of which had been actioned following conclusion of the discussion on Flimsy #12 related to the incorporation of the VDL specific mobile SNDCF requirements. The flimsy proposed a draft ATNP/2 recommendation that recommended that the VDL mobile SNDCF specific requirements are removed from the VDL SARPs and that instead a reference to the ATN SARPs is inserted. A number of amendments to the Flimsy (Appendix N) were agreed. It was agreed that a final form of the recommendation needs to be included in an ATNP/2 WP. Mr. Sharma undertook to develop such a WP for presentation to the JWG meeting in Halifax.

**ACTION 9/13 - MR. SHARMA - DEVELOP ATNP/2 WP TO PROPOSE
RELOCATION OF VDL SNDCF SARPS**

27.2 Mr. Whyman raised the fact that join and leave events do not appear to have been specified in the VDL SARPs. Ms Thulin & Mr. Barbulescu did not consider this to be a problem since they believed it was a local VDL specific issue. Mr. Whyman remained unconvinced. Mr. Sharma concluded that, in the absence of available time and concrete written proposals, papers on the subject would be welcome at the October WG2 meeting.

28. WG3 Requirements Statement for ATSC only Routes

28.1 Mr Van Trees presented WP/328 , “WG3 Requirements Statement for ATSC only Routes”. The WP required the Internet to provide the ability to tag routes as ATSC only, AOC only or both. This implied a change to the current provisions defined in the SARPs which allowed ATSC tagged routes to handle AOC traffic. Mr. Sharma stated that the WG should accept the requirement as written and should therefore only address the impact of implementing such a change at this late stage of the standardisation/validation process. Mr. Whyman, from an editing point of view, considered the required changes as being relatively simple and localised with the basis of a solution being documented in WP/327. Mr. Graf agreed with the simple fix that would be required to tag the routes as required but believed that there may be additional impact on the route aggregation procedures which might result in a significant amount of change overall. From a Validation perspective Mr. Hof could not see how the resulting necessary changes to validation tools could be accomplished and reported on by ATNP/2 due to lack of available resource. Mr. Crenais was of the opinion that the reason for not being able to define the appropriate solution and to validate in time for ATNP/2 did not mean that the WG should not try and agree on a solution. Mr. Pearce stated that WP/326 was the requirement and that WG3 was not concerned with the specific solution that was finally adopted in WG2. Mr. Sharma concluded that the WG should investigate possible solutions whilst recognising that validation may be incomplete at ATNP/2 but perhaps completed by the WG2 in early 1997. Ms. Thulin preferred a solution based on local policy and believed that the approach defined in WP/327 was over complex.

**ACTION 9/16 - H THULIN/H HOF - TO IDENTIFY POSSIBLE
SOLUTIONS , CHANNEL THROUGH CCB, IF GET AGREED SOLN,
THEN ISSUE CP FOR OCTOBER.**

29. Review of WordPerfect SARPs

29.1 Ms. Cosgrove reported that she would be mailing out hard copies of the appropriate sections of the WordPerfect format SARPs to those members that had accepted actions to cross-check the material and that comments should be returned to her for incorporation into the WordPerfect master files for which she would be the editor.

**ACTION 9/17 - MS COSGROVE - COORDINATE WORDPERFRCT
REVIEW**

**30. Agenda Item 6. - Development of Sub-Volume V of the CNS/ATM-1
Guidance Material**

30.1 Mr. Pellegrino presented WP/314, "Approach to the further development of Sub Volume 5 Guidance Material". The WP proposed a number of subjects which required WG directions related to the future development of guidance material. These being:

- approval of proposed timeline plan;
- incorporation of new guidance material presented as Working Papers;
- completion of outstanding actions from previous WG meetings;
- agreement of terms of reference of a guidance material drafting group;
- agreement of dates & venue for drafting group meeting, with Brazil once again offering to host such a meeting.

30.2 The WG agreed with the proposed timeline in principle and agreed on the need for a drafting group meeting which would develop Version 1.4 of the material.

30.3 Before addressing each of the points raised in WP/314 the meeting reviewed the current version (1.2) of the guidance material as presented in WP/285. The following was agreed:

- It was agreed that WP/235 (Brussels) still needs to be incorporated into the guidance
- Given that the SARPs text on priority had been moved to Sub Volume 1 it was questioned to what extent that the Sub Volume 5 guidance need address the subject. Ms. Cosgrove undertook an action to check with Ron Jones whether the WP that he had submitted to an earlier WG2 meeting on Priority should be included in the Sub Volume 1 guidance material.

**ACTION -9/18 - S COSGROVE - CHECK WITH RON JONES IF HIS
PAPER (184) WILL BE INCLUDED IN SV1 GUIDANCE, WHERE IT IS
MORE SUITED.**

- It was agreed that WPs 235 & 295 (Route Aggregation) be integrated into Section 4;
- It was agreed that WP/320 (Address Registration) be incorporated in section 3.2.3 and that additional material on the subject needed development for section 3.3.3;
- It was agreed that appropriate sections of WP/322 (VDL guidance) be included in section 8;
- It was agreed that WP/290 (Guidance related to the integration of ground/ground subnetworks) be incorporated into section 8.4;
- It was agreed that the majority of material in Section 2.13 (Congestion Avoidance) needed to be moved to Section 4 with some high level introductory text remaining in 2.13;
- It was noted that the figures did not print correctly and that this needed to be fixed for the next draft;
- It was agreed that guidance derived from Eurocontrol simulation results related to the hold time timer needed to be included in section 2.8.7.1;

**ACTION 9/19 - H HOF - PREPARE GUIDANCE ON HOLD DOWN
TIMER FOR SECTION 2.8.7.1**

- It was agreed that in Figure 2-15 the title and figure need to be "Air/Ground Router";
- It was agreed that section 2 needs review in order to remove redundant information;
- It was agreed that material related to the priority and security models needed to be developed and that some elements of WP/184 may be applicable to the priority model;

**ACTION 9/20 - TBD - DEVELOPMENT OF GUIDANCE FOR ATN
PRIORITY MODEL (2.11)**

ACTION 9/21 - TBD - DEVELOPMENT OF GUIDANCE FOR ATN SECURITY MODEL (2.12)

ACTION 9/22 - MR PELLEGRINO - FORMAT GM AND INTEGRATE WPS 320, 295,235, 322 & 290

- It was agreed that Version 1.3 would be completed as soon as possible and placed on the CENA server;

ACTION 9/23 - ALL - TO REVIEW GUIDANCE AND COMMENT TO THE EDITOR

30.4 With respect to the drafting group meeting it was noted that the WG had tentatively agreed at WG2\8 to schedule such a meeting in the period 5th -9th August. Mr. Crenais stated that France could only support such a meeting if it was scheduled for the end of August. Mr Herber stated that he could support such a meeting but not with the existing dates and only if it could take place in Europe. Mr. Hof stated that he could support such a meeting if it took place in Europe. Mr. Whitfield could only support such a meeting if hosted in Australia. Ms. Cosgrove could only support such a meeting if hosted in Canada. Mr. Pellegrino would try and attend a meeting in Europe but could not provide a positive confirmation. Mr. Bigelow preferred the meeting to be hosted in the US but could attend in Europe if required.

ACTION 9/24 - MR. SHARMA - CHECK WITH FAA AND SITA IF THEY CAN SUPPORT THE GUIDANCE MATERIAL DRAFTING MEETING

30.5 It was agreed that the drafting group meeting will take place in the period 2nd to 6th September. Mr. Sharma undertook to investigate whether the UK could host such a meeting. Mr. Hof offered EUROCONTROL as a possible alternative venue in the event the UK could not host the meeting. The meeting thanked Mr. Pellegrino for his offer and the efforts that he had made to date for arranging such a meeting in Brazil.

ACTION 9/25 - MR. SHARMA - CONFIRM WHETHER UK CAN HOST THE MEETING

30.6 Mr. Pellegrino stated that he may not be in a position to continue as editor of the document after the issue of Version 1.4 and that an alternative may need to be nominated. It was agreed that Version 1.3 of the guidance would be available on 4th July and that Version 1.4 would be available on 26th August. All comments on version 1.4 were agreed to be made available by 19th August. It was agreed that the drafting meeting would take version 1.4 as an input document and produce version 1.5 which would be presented to the October WG2 meeting for final review.

30.7 The WG noted that due to the late completion of the guidance material it would not be possible to recommend its inclusion in Annex 10 as green page material. Instead the WG agreed that a recommendation at ATNP/2 be made that the material be included in the ATNP/2 Report.

ACTION 9/26 - S COSGROVE - INCLUDE RECOMMENDATION IN WG1 ATNP/2 PAPER THAT WG2 GM IS PUBLISHED AS PART OF ATNP/2 REPORT

30.8 Mr. Pellegrino agreed to update WP/314 to reflect the above as Flimsy #16, the final version of which is at Appendix Q.

30.9 Mr. VanTrees presented WP/290 "Guidance concerning End System connectivity to multiple ground based subnetworks". The meeting considered whether the material was indeed appropriate guidance or

whether it was better suited as an input to the Package 2 definition. The meeting finally concluded that appropriate sections of WP/290 be included in section 8.4 of the guidance material with an introductory section explaining that the material is provided as guidance for States wishing to use the referenced ground subnetworks within their national boundaries.

ACTION 9/27 - MR. PELLEGRINO - INCLUDE WP/290 IN 8.4 BUT SAY IT'S FOR STATES WISHING IMPLEMENT IN THIS WAY WITHIN NATIONAL BOUNDARIES.

30.9 WP/295 “Proposed Guidance Material for Route Aggregation in the ATN” was presented by Mr. Whyman. He stated that an earlier version of the material had been presented at WG2/8 as an information paper. Since then the material had been revised based on experience acquired in defining an implementation of the Route Aggregation procedures within the context of a EUROCONTROL validation project.

30.10 WP/320, “Proposed Guidance Material for Address Registration” was presented by Mr. Graf. Mr. Graf reported that the material requires some further updating e.g. related to the allocation of ARS fields in the figure on page 4 of the WP which was correct for mobile systems but not ground systems. The material also needed to include material related to the use of the ADM fields with respect to regional addresses (Flimsy #9 refers). It was agreed that WP/320 be included into Version 1.3 and that Mr. Graf would propose the additional text as comments for inclusion in Version 1.4.

30.11 The meeting briefly reviewed WP/322 “Description of ATN/VDL SNDCF and guidance on possible implementation”. It was agreed that appropriate sections of the WP be included into the guidance material. It was agreed that at least all of sections 3 and 5 be incorporated excluding the acronym list.

31. Agenda Item 7 - Development of CNS/ATM-1 Internet SARPs Validation Report

32.1 Mr. Hof briefly presented WP/288 “CNS/ATM-1 Package Sub Volume 5 Validation Report” . The WP had already been presented in greater detail during the preparatory joint WG2\WG3 meeting. The WG agreed that WP/288 be used as the basis for the Sub Volume 5 Validation Report.

31.2 Mr. Hof briefly presented WP/287 “Coverage of ATN Validation Objectives by Validation Exercises” . The WP had already been presented in greater detail during the preparatory joint WG2\WG3 meeting. The meeting agreed to use the format proposed in WP/287 as the basis for the WG2 validation database output. WG2 members agreed that where practical and possible all validation contributions should be provided in this format. Mr. Whitfield suggested that it would be necessary to supply validation contributors with blank versions of the files and request that these be completed by the originators of the results.

ACTION 9/28 - MR. HOF - PROVIDE VALIDATION DATABASE ACCESS FILES AND TOOL DESCRIPTIONS TO PETER WHITFIELD

ACTION 9/29 : VALIDATORS : PROVIDE UPDATED VALIDATION DATABASE FILES TO PETER WHITFIELD BY THREE WEEKS BEFORE THE OCTOBER MEETINGS TO ENABLE INCORPORATION INTO VALIDATION REPORT.

31.3 It was noted that validation results from Germany, France, SITA and the UK would at least be reported through the EUROCONTROL database. Mr. Whitfield reported that no validation results could be expected from Australia before ATNP/2 since the programme was just starting up. Ms. Cosgrove reported that no validation activities in Canada were currently planned. Mr. Usumoto reported that no validation work was currently planned in Japan. Mr. Pellegrino reported that Brazil would be conducting validation activities after the WG2 meeting in March next year. Mr. Bigelow reported that ARINC may be in a position to provide some validation results prior to the WG2 meeting. The meeting was unable to reconfirm the US input since no member was present during the Agenda item. It was assumed that the US will be in a position to present results prior to ATNP/2 based upon statements made at WG2/8 in Brussels.

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

31.4 The following persons were nominated as “Site Validation Managers” thereby providing Peter Whitfield with a single point of contact within a State/Organisation for soliciting input for the WG2 Validation Report. Mr. Roy for ARINC, Mr. Ron Jones for the US, Mr. Bochkarev for Inmarsat, Mr. Cardwell for the UK, Ms. Thulin for SITA. Mr. Hennig for IATA, Ms. Ricci for France, Mr. Herber for Germany, Mr. Briand for EUROCONTROL.

**ACTION 9/30 - MR. SHARMA - PROVIDE VALIDATION SITE
MANAGER CONTACT DETAILS TO PETER WHITFIELD.**

**ACTION 9/31 - PETER WHITFIELD - EDIT THE VALIDATION
REPORT, MAINTAINING CLOSE COORDINATION WITH JP BRIAND,
AND MAKE A FIRST DRAFT AVAILABLE BY THE END OF JULY.**

31.5 WP/307, “Proposed Format for ATN SARPs Validation Report” was briefly reviewed. The WP proposed a common format for the appendices to the Overall JWG ATNP/2 Validation WP (WP/312). The WP had been discussed earlier in the meeting when preparing for the joint session with WG3. It had been agreed at the joint session that the various appendices of the JWG WP need not comply exactly with the format proposed in WP/307, however, the concepts of that WP should be retained. Indeed, the WG had already adopted the format proposed in WP/288 as the basis for the Sub Volume 5 Validation Report. The meeting agreed to inform WG3 of the method by which WG2 will document validation results and Peter Whitfield agreed to develop a flimsy (#17) (Appendix R) with the intent to submit it to WG3.

31.6 WP/312, “WG3 Inputs on Validation for JWG to ATNP/2” was briefly introduced by Mr. Sharma. He stated that a previous version of the WP had been presented at the joint WG2\WG3 session that had taken place at the previous series of WG meetings in Brussels. Due to lack of available time the meeting could not review the WP in detail.

**ACTION 9/32 - ALL - PROVIDE COMMENT ON WP/312 TO THE WG1
MEETING IN HALIFAX.**

31.7 WP/318, “CNS/ATM-1 Package Internet SARPs Validation Objectives” was presented by Mr. Hof. The changes proposed to the AVOs agreed in Brussels at WG2/8 were presented and indicated with revision marks in the document. The meeting accepted the revised set of AVOs.

31.8 WP/319, “Report of Live Global ATN Demonstration at EUROCONTROL/IATA ATN Seminar ” was presented by Mr. Hof. Mr. Hof proposed that the demonstration should comprise a significant contribution to the validation programme and that the applicable documentation that defined the demonstration topology etc. will be referenced in the WG2 Validation Report. This was agreed.

31.9 The meeting reviewed Action 7/35 (Develop Proposal for Validation Assessment Process, Mr. Hof). It was noted that this action was closed since WP/287 effectively defined the process.

31.10 Mr. Hof reported that EUROCONTROL would align the ATN Requirements Database with Version 6.0 of the SARPs and make it available at the end of August at the latest. As a part of the assessment process it was agreed that the validation tools will be cross-checked against agreed AVOs in order to determine coverage. It was further agreed that, where possible and practical, validation exercises will reference the applicable AVOs.

**ACTION 9/33 - MR. HOF - PROVIDE V6.0 SARPS ALIGNED ATN
REQUIREMENTS DATABASE TO PETER WHITFIELD.**

32. Agenda Item 8 - Review of the draft ATNP/2 Working Papers

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

32.1 Mr. Sharma presented WP/286, "ATN Internet Working Group (WG2) - Report of Progress since ATNP/1", a high level report of the work completed by WG2. The paper was reviewed in detail and accepted with few editorial corrections. It was agreed that the structure of the paper would be used for the remainder of WG2 ATNP/2 papers.

32.2 Mr. Hof presented WP/289, "Proposal for CNS/ATM-1 SARPs Maintenance". The paper proposed two options for how SARPs may be maintained post ATNP/2. It was reported that the subject was also discussed at the JWG based on a WP presented by Al Burgemeister (WP/310) where it was pointed out that any proposal for maintenance must be within the ICAO constraints, i.e. the Panel should not expect to be able to change ICAO practices. It was noted that, currently, the principle method of approving amendments to Annex 10 is through a Panel recommendation and that this may prove to be too slow a method with the ATN SARPs given the fact that validation will be on-going post JWG in February 1997. Mr. Pellegrino suggested that an "exceptional" Panel meeting be scheduled at the end of 1997 to agree draft amendments to identified defects. It was agreed that a draft ATNP/2 WP be drafted on the subject taking into account ICAO constraints, WPs 289 & 310 for initial presentation at the JWG. It was suggested that this paper cite reference to the mechanisms adopted by the ITU who faced similar document maintenance problems and have developed fast track methods of keeping standards up to date. This was agreed. It was suggested that the maintenance be carried out at the WG level & thus make the process transparent to ICAO. It was agreed that the JWG WP consider this option.

**ACTION 9/34 - MR. SHARMA - DEVELOP A DRAFT ATNP/2 PAPER
BASED ON WP/289, WP/310 AND THE DISCUSSION IN THE
MEETING**

32.3 Mr. Hof presented WP/296 "WG2 ATNP/2 WP on the approach for the development of new ATN Internet SARPs and Guidance Material". This WP had already been presented and discussed during the preparation for the joint session with WG3 where the principles of a "top down" approach had been accepted.

**ACTION 9/35 - MR. SHARMA - FORMAT WP/296 INTO ATNP/2
FORMAT**

32.4 WP/293 "CNS/ATM-2 Internet SARPs Requirements" was presented by Mr. Sharma on behalf of the author Mr. Cossa who was unable to attend the meeting. The WP closed action 4\1 in proposing potential areas for CNS\ATM-2 standardisation. A number of amendments and additions were agreed.

- inter-operability with COTS Routers
- financial accounting mechanisms
- SND CF for HF networks
- deletion of CLTP since it is already defined in the SARPs
- deletion of directory service since it is an application issue.

32.5 It was agreed that any omissions from the list agreed at the Brussels WG2 meeting also be included and that the list of potential CNS/ATM-2 Internet functionality be included in the ATNP/2 WP based on WP/296.

**ACTION 9/36 - MR. SHARMA - CROSS CHECK WITH THE LIST
AGREED AT BRUSSELS AND THEN INCORPORATE INTO SECTION
5 OF WP/296.**

32.6 WP/297 "Proposed Amendments to Sub Volume 5" was presented by Mr. Sharma. A number of minor defects were identified and it was agreed that the draft ATNP/2 WP be presented at the JWG meeting. It was agreed that all proposed amendments to Sub Volume 5 would be an attachment to this paper and not be included in the Validation Report.

**ACTION 9/38 - MR. SHARMA - SUBMIT PAPER BASED ON WP/297 TO
HAILFAX JWG**

32.7 WP/298 "Introduction to Sub Volume 5 SARPs" was presented by Ms Cosgrove. It was agreed that comments on this WP be made available by mid July and that the final version be tabled at the JWG meeting.

32.8 Mr. Sharma reported that it had been agreed at the JWG meeting that the Rapporteurs of each of the WGs would develop an ATNP/2 WP proposing a future work programme for their respective WGs.

**ACTION 9/37 - MR. SHARMA - DEVELOP DRAFT ATNP/2 WP FOR
WG2 FUTURE WORK PROGRAMME**

32.9 Ms Cosgrove agreed to include an updated list of WG2 ATNP/2 WPs as an attachment to the minutes of the JWG meeting as had been requested by Mr. Platz, Panel Chairman.

**ACTION 9/39 - MS COSGROVE - UPDATE THE ATNP/2 WORKING
PAPER LIST AND ATTACH TO THE MINUTES OF THE JWG.**

33 Agenda Item 9 - Future Work Plan up to ATNP/2

33.1 The meeting agreed that the future work planning for the SARPs, Guidance Material, Validation Report and the ATNP/2 Working papers had been agreed during the discussion of the relevant agenda items.

33.2 Mr. Sharma confirmed that the October WG2 meeting was currently scheduled to take place in the period 7th - 15th October, WG1 on the 16th and a JWG on the 17th and 18th in the USA. ATNP/2 was currently scheduled to take place 4th - 15th November. WP/308 "Announcement for October 1996 ATNP WG Meetings" provided details regarding hotel bookings, location etc.

**34. Review of Flimsy #14 "Proposed Resolution for Defect Report
96050107.DR"**

34.1 Flimsy #14 was presented by Mr. Graf. Defect Report 96050107.DR identified several problems in the current specification of Chapter 5.4.3.2 of Sub Volume 5 related to the update of the FIB and RIB information in Airborne Routers when more than one mobile subnetwork connectivity with the same Air/Ground Router becomes available or ceases to exist respectively. The flimsy proposed a resolution to the defect and was accepted with one amendment for inclusion into Version 6.0 of the SARPs. The final version of the Flimsy is at Appendix O.

**35. Review of Flimsy #16 "Approach to the Further Development of
Guidance Material"**

35.1 Mr. Pellegrino presented Flimsy #16. The Flimsy documenting the future planning for the development of the guidance material, was accepted as presented and the final version is at Appendix Q.

36. Agenda Item 10 - AOB

36.1 Ms Cosgrove stated that she would be mailing out hard copies of the WordPerfect SARPs to reviewers on Monday 8th July. It was agreed that comments should be available by Friday 12th July.

37. Agenda Item 11 - Conclusions & Action List

37.1 The meeting reviewed and, where appropriate, amended the draft action list. It was agreed that the next draft of the action list would be mailed out to the Internet mailing list as soon as possible.

37.2 The meeting concluded that its objectives had been achieved. Mr. Sharma thanked DFS for hosting the meeting and the excellent administrative support that had been provided throughout.

38. WG3 Response to WG2 Flimsy 17

38.1 Mr. Jones briefly presented the WG3 response to WG2. Mr. Jones agreed that the approach to validation was differing from that adopted by WG2 in the definition of AVOs and the format of the WG3 appendix to the Validation report. He further reported that WG3 intended to develop a database that would include SARPs requirements at the “shall” level.

38.2 The meeting was then closed.

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

39. Appendix A - WG2 ATTENDANCE LIST

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ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

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ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

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40. Appendix B - List of Working Papers

No.	Title	Presented By	Agenda Item
283	Proposed Agenda & Planning	A Sharma	1,2
284	CNS/ATM-1 SARPS & Guidance Material - Sub-Volume V:Internet Communications Service (Version 5.1)	JM Crenais	5.1
285	Version 1.2 Sub Volume 5 Guidance Material	C Pellegrino	6
286	Draft WG2 ATNP/2 WP on WG2 Progress since ATNP/1	A Sharma	8
287	Coverage of ATN Validation Objectives by Validation Exercises	H Hof	7
288	CNS/ATM-1 Package Sub-Volume V Validation Report	H Hof	7
289	Proposal for CNS/ATM-1 Package SARPs Maintenance	H Hof	8
290	Guidance Concerning End System Connectivity to Multiple Ground-Based Subnetworks	L Sayadian	6
291	Proposed Changes to Sub-Volume V Chapter 4	H Hof	5.2
292	Proposed Revisions to Chapter 7	H Hof	5.2
293	CNS/ATM-2 Internet SARPs Requirements	S VanTrees	8
294	Transport Timer and Protocol Parameter Settings	S VanTrees	5.2
295	Proposed Draft Guidance Material For Route Aggregation in the ATN	H Hof	6
296	WG/2 ATNP/2 Working Paper on the approach for the development of new ATN internet SARPs and Guidance Material	H Hof	8
297	Proposed Amendments to Sub Volume 5	A Sharma	8
298	Introduction to Sub Volume 5 SARPs	S Cosgrove	8
299	Paper Withdrawn	-	-
300	Proposed revision to Chapter 7/ WP 292 to accomodate VDL requirements	H Thulin	5.2
301	Report of the SARPs Editorial Review Committee Meeting	JM Crenais	5.1
302	Draft Report of WG1	S Cosgrove	3
303	Draft Report of JWG	A Sharma	3
304	WG2 Rapporteurs Report to WG1	A Sharma	3
305	Harmonisation of IATA and ICAO ATN standardisation	P Hennig	3
306	An Update from the Panel Secretary	M Paydar	3
307	Proposed Format for ATN SARPs Validation Report	R Jones	7
308	Announcement for October 1996 ATNP WG Meetings	R Jones	9
309	Some Administrative Information concerning the ATNP WGs in Munich	A Herber	0
310	ATN SARPs Defect Reporting and Configuration Management after ATNP/2	A Burgemeister	8
311	Matters of Style	S VanTrees	5.2
312	WG3 Inputs on Validation for JWG WP to ATNP/2	R Jones	7
313	Issues Related to the Language & WordPerfect Translation of the ATN SARPs	A Sharma	3
314	Approach to further development of Sub-Volume V Guidance Material	C Pelligrino	6
315	Draft ATN SARPs - Part 1	S Cosgrove	3
316	Sub Volume 1, Introduction to System-Level Requirements	S Cosgrove	3
317	Location of ATN SARPs and Guidance Material	S Cosgrove	3
318	CNS/ATM-1 Package Internet SARPs Validation Objectives	H Hof	7
319	Report of Live Global ATN Demonstration at EUROCONTROL / IATA ATN Seminar	H Hof	7
320	Proposed Guidance Material for Address Registration	KP Graf	6
321	ICAO ATN/VDL Correspondence	M Paydar	5.2
322	Description of ATN/VDL SNDCF and guidance on possible implementation	H Thulin	6
323	CCB Status	H Hof	5.4
324	Paper Withdrawn	-	-

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

325	Topics for WG2/WG3 Joint Meeting, 1830 - 2000, 26 June	R Jones	-
326	Format of Summary Working Papers to ATNP/2	R Jones	8
327	The AOC Traffic Type and Strong QoS	H Hof	5.2
328	WG3 Requirements Statement for "ATSC-only routes"	S Van Trees	-

41. Appendix C - Meeting Agenda

0.	Meeting Organisational Issues	309,
1.	Approval of Agenda and Objectives	283
2.	Approval of the Brussels WG2 Meeting Report - Review of Action List	283
3.	Issues Arising out of other ATNP WGs & other Related Bodies - WG1 - JWG - CADAG - ATNSI	302, 303,304, 305, 306, 313, 315, 316, 317
4.	CNS/ATM-1 Registration Authority	
5.	Review of Sub-Volume V of the CNS/ATM-1 SARPs (Version 5.1)	
5.1	Report of the WG2 Edit Committee	301, 284
5.2	Review of Proposed Changes	291, 292, 294, 300, 311, 321, 322
5.3	General	
5.4	Future role & operation of the CCB	323
6.	Development of Sub-Volume V of the CNS/ATM-1 Guidance Material	285, 290,295,314, 320, 322
7.	Development of the CNS/ATM-1 Internet SARPs Validation Report	287, 288, 307,312, 318, 319
8.	Review of draft WG2 ATNP/2 Working Papers	286, 289, 293, 296, 297, 298, 299, 310
9.	Future Work Plan up to WG2 (Feb / Mar 97) - guidance material drafting group - arrangements for October WG2 meeting (USA) - dates for ATNP/2	308,
10.	Any Other Business	
11.	Conclusions and Action List	

42. Appendix D - Flimsy #1 - Amending the Definition of the Default Route to all Mobiles.

1. Introduction

During a review of the draft ATN SARPs Sub-Volume 5, it was agreed that the definition in 5.2.2.7.1.(b) of the default route to all mobiles was deficient in that it did not recognise that this route must have two NSAP Address Prefixes in its NLRI. This is because there are two Network Addressing Domains for airborne systems.

2. Proposed Text

The following is the proposed new text of 5.2.2.7.1.(b):

- (b) has in its destination two NSAP address prefixes. One of these is the NSAP Address Prefix that is common to all AINSC Airborne Systems and only AINSC Airborne Systems, and the other is the NSAP Address Prefix that is common to all ATSC Airborne Systems and only ATSC Airborne Systems.

43. Appendix E - Flimsy #3 - Aggregating the ATSC Class

1. Introduction

During a review of the draft ATN SARPs Sub-Volume 5, it was agreed that the SARPs in 5.8.3.2.6.4.1.(c).1 in respect of the aggregation of the ATSC Class Security Tag, did not result in an appropriate outcome, and that in this case, aggregation should be prohibited. It was also agreed that it was necessary to explain the background behind the required action.

2. Proposed New Text for 5.8.3.2.6.4.

5.8.3.2.6.4 Aggregation of the Security Path Attribute Information Field

5.8.3.2.6.4.1 General

5.8.3.2.6.4.1 ATSC and non-ATSC routes with dissimilar NLRI shall not be aggregated.

Note 1. — An ATSC Route is a route containing an ATSC Class Security Tag in its Security Path Attribute. A non-ATSC Route is similarly a route that does not contain an ATSC Class Security Tag in its Security Path Attribute.

Note 2. — Two possible strategies for aggregating such routes were considered. However, neither gave a satisfactory outcome. This is because the aggregated route must either be identified as an ATSC route, or a non-ATSC route. If the aggregated route is identified as a non-ATSC Route, then this would result in ATSC Routes being “hidden” when aggregated with non-ATSC Routes. On the other hand, if the aggregated route is identified as an ATSC Route, then this would result in a situation where an aggregated route that was apparently approved for ATSC Traffic, included a destination which could not be reached over a path that was approved end-to-end for ATSC Traffic. This runs the risk of creating a “black hole” for ATSC traffic.

5.8.3.2.6.4.1.2 Otherwise, the aggregation rules for the security information field contained in security path attributes that include the ATN Security Registration Identifier shall be as follows:

5.8.3.2.6.4.2 Air/Ground Subnetwork Security Tag

5.8.3.2.6.4.2.1 The aggregated security path attribute shall comprise each air/ground subnetwork security tag contained in the security path attribute of the component routes.

5.8.3.2.6.4.2.2 When an air/ground subnetwork type security tag for the same air/ground subnetwork type occurs in more than one component route, then these shall be combined by a logical “OR” of the second octet of the Air/Ground Subnetwork type security tags.

5.8.3.2.6.4.2.3 Only a single air/ground subnetwork type security tag for each distinct air/ground subnetwork type shall be present in the aggregated route.

5.8.3.2.6.4.3 ATSC Class Security Tag

5.8.3.2.6.4.3.1 General

5.8.3.2.6.4.3.1.1 If an ATSC Class security tag is not present in any component route, then the aggregated route shall not contain an ATSC Class security tag.

5.8.3.2.6.4.3.1.1.1 Non-Identical NLRI in Component Routes

5.8.3.2.6.4.3.1.1.2 ~~When aggregating an ATSC Class Security Tag,~~

5.8.3.2.6.4.3.1.1.2 ~~If the NLRI of the component routes is not identical then, when an ATSC Class security tag occurs in all component routes the aggregated route shall contain an ATSC Class security tag.~~

5.8.3.2.6.4.3.1.1.3 The ATSC Class of the aggregated route shall be the lowest ATSC Class of the aggregated route's component routes, indicated by setting the value of the corresponding bit in the security tag value to one.

5.8.3.2.6.4.3.1.1.4 All the other bits in this tag shall be set to zero. ~~If at least one of the component routes does not contain an ATSC Class security tag, then the aggregated route shall not contain an ATSC Class security tag.~~

5.8.3.2.6.4.3.1.1.5 *Identical NLRI in Component Routes*

5.8.3.2.6.4.3.1.1.6 ~~Otherwise,~~ If the NLRI of the component routes is identical then, when an ATSC Class security tag occurs in one or more component routes then the aggregated route shall contain an ATSC Class security tag.

5.8.3.2.6.4.3.1.1.6 The ATSC Class of the aggregated route shall be formed by a logical 'OR' of the encoded representation of the supported ATSC Class in each of the aggregated route's component routes that contain an ATSC Class security. ~~If an ATSC Class security tag is not present in any component route, then the aggregated route shall not contain an ATSC Class security tag.~~

5.8.3.2.6.4.4 Security Classification security tag

5.8.3.2.6.4.4.1 When a Security Classification security tag occurs in all component routes, then the aggregated route shall contain a Security Classification security tag.

5.8.3.2.6.4.4.2 This tag shall be set to the lowest classification from the classifications given to the aggregated route's component routes.

5.8.3.2.6.4.4.3 If a Security Classification security tag is not present in at least one component route then the aggregated route shall not contain a Security Classification security tag.

44. Appendix F - Flimsy #4 - New text for section 5.7.6.2.1.4.1

Following modified text and new NOTE is suggested for insertion in Section 7, paragraph 5.7.6.2.1.4.1

The Fast Select Facility shall be used if supported by all Subnetwork Provider(s) in the DTE-DTE virtual path.

Note.-- Airborne routers are assumed to have a priori knowledge of Fast Select support (or lack thereof) along the DTE-DTE virtual path based on each individual destination air/ground router's DTE address.

45. Appendix G - Flimsy #5 - Use of the Mobile SNDCF for Ground to Ground Communications

1. Introduction

During the review of WP/291, it was agreed that 5.7.6.1.4 was inappropriately located. The recommendation applies to ground subnetworks, and is more appropriate for 5.7.5.

2. Proposed Change

It is therefore proposed to move 5.7.5.1.4 to become 5.7.5.2. In order to place it in context, an explanatory note should precede the new 5.7.5.2., and 5.7.5.1 needs also to be amended to acknowledge the possibility of the use of the Mobile SNDCF.

5.7.5.1 Over ISO/IEC 8208 General Topology Subnetworks, the subnetwork service described in 5.7.2 shall be provided using either the SNDCF for ISO/IEC 8208 General Topology Subnetworks as specified in ISO/IEC 8473-3, or the Mobile SNDCF specified below in 5.7.6.

Note. — Although most ATN Ground Systems are generally expected to use the ISO/IEC 8473-3 specified SNDCF over ISO/IEC 8208 General Topology Subnetworks, Ground Systems may specify the use of the Mobile SNDCF, in order to improve bandwidth utilisation over fixed ISO/IEC 8208 subnetworks.

5.7.5.2 Recommendation.— Implementations using the Mobile SNDCF as specified in 5.7.6, and the LREF Compression Procedure for Ground/Ground communications, should also use the LREF optional local reference cancellation mechanism.

46. Appendix H - Flimsy #6 - Addition of a call clearing diagnostic indicating “LREF Compression not Supported”

1. Introduction

During the review of the proposed revisions to chapter 7 (WP/292), it was agreed that the mobile SNDCF call setup procedures should anticipate a future possible withdrawal of the requirement to always use the LREF compression on mobile subnetwork connections.

The new text for chapter 7 effectively considers the case where the calling DTE would not offer the LREF compression in the call user data of the ISO 8208 call request packet (e.g. in paragraph 5.7.6.2.1.5.12).

But the text for chapter 7 omits to consider the case where the called DTE would not support the LREF compression mechanism and would clear a call indication for this reason.

2. Proposed Modifications

Add the following paragraph at the beginning of section 5.7.6.2.1.7.3:

When a DTE originated ISO/IEC 8208 Call Clearing Packet is received with a diagnostic indicating *LREF compression not supported* (see Table 5.7-3), the call shall be re-attempted without offering LREF compression.

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

Modify the Table 5.7-3 as follows:

	Hexadecimal value	Decimal value	Clearing Cause
1	1111 1001	249	Connection Rejection - unrecognized protocol identifier in user data
2	1000 0000	128	Version number not supported
3	1000 0001	129	Length field invalid
4	1000 0010	130	Call Collision Resolution
5	1000 0011	131	Proposed Directory Size too large
6	1000 0100	132	Local Reference Cancellation Not Supported
7	1000 0101	133	Received DTE refused, received NET refused or invalid NET selector
8	1000 0110	134	Invalid SNCR field
9	1000 0111	135	ACA compression not supported
10	1000 1000	136	LREF compression not supported
11 10	1000 1111	143	V42bis compression not supported
12 11	1111 0000	240	System lack of resources
13 12	0000 0000	0	Cleared by System Management
14 13	1001 0000	144	Idle Timer expiration
15 14	1001 0001	145	Need to re-use the circuit
16 15	1001 0010	146	By local means (to be used for system local error)
17 16	1001 0011	147	Invalid SEL field value in received NET

47. Appendix I - Flimsy #7 - Checking Call Accept User Data

FLIMSY 7 - 27/06/96
ATNP/WG2-9

Objective of the proposed SNDCF change : To describe in the Fast Select processing that the SNDCF should verify whether an NPDU has been transmitted in the additional User Data field -

This flimsy references the revised Chapter 7 (26/6/96) -

**On page 5-7 , section 5.7.6.2.1.6.1 (Calling DTE procedure , Fast Select Facility in Use)
Add a paragraph**

5.7.6.2.1.6.1.3 : If the length indicator in the SNDCF header of the received Call Confirm packet exceeds two and if the User Data field is a recognized NPDU SPI, then the User Data field contains an NPDU and the calling SNDCF shall pass this NPDU in an SN-UNIT-DATA indication to the appropriate ATN SN-service User.

**On page 5-7, section 5.7.6.2.2 (Call Acceptance with the Fast Select Facility in Use)
Add a paragraph**

5.7.6.2.2.3 If the length indicator in the SNDCF header of the received Incoming Call packet exceeds seven (or nine if Local Reference Compression is offered) and if the User Data field is a recognized NPDU SPI, then the User Data field contains an NPDU and the called SNDCF shall pass this NPDU in an SN-UNIT-DATA indication to the appropriate ATN SN-service User.

48. Appendix J - Flimsy #9 - Regional ATN NSAP Address Allocation

1. Introduction

In the review of WP/291, it was agreed that the proposed Regional Addressing Domain should not be accepted. Instead, an approach using the existing Fixed ATSC Network Addressing Domain and making use of the unused ADM field values should be investigated.

This flimsy has been prepared to propose such an approach.

2. Proposed Change to 5.4.3.8.2.4

5.4.3.8.2.4 Fixed ATSC NSAP Addresses and NETs

Note. — In the Fixed ATSC Network Addressing Domain, the ADM field is used to sub-divide this Addressing Domain into a number of sub-ordinate Network Addressing Domains, each of which comprises NSAP Addresses and NETs for fixed systems operated by a single ATSC-State or within an ICAO Region.

5.4.3.8.2.4.1 Allocation of NSAP Addresses and NETs in each such Network Addressing Domain subordinate to the Fixed ATSC Network Addressing Domain shall be the responsibility of the State or ICAO Region identified by the value of the ADM field.

5.4.3.8.2.4.2 When used for identifying a State~~In this case~~, the ADM field shall contain the State's three-character alphanumeric ISO 3166 Country Code, represented as upper case characters.

5.4.3.8.2.4.3 In this case, the value of the field shall be determined according to 5.**Error! Reference source not found.**

Note. — For example, the encoding of 'GBR' is 744252 in hexadecimal. Therefore the NSAP Address Prefix 470027+81744252 is the common NSAP Address Prefix for all NSAP Addresses and NETs in the UK Fixed ATSC Network Addressing Domain.

5.4.3.8.2.4.4 When used to identify an ICAO Region, the first octet of the ADM field shall identify the ICAO Region, according to Table 5.4-3, while the values of the remaining two octets shall be assigned by the identified ICAO Region.

Note. — The ISO 3166 character codes are always represented as binary octets, each of which has a zero most significant bit. Therefore, it is possible to guarantee that the field values listed in Table 5.4-3 do not conflict with ISO 3166 derived State Identifiers.

Table 5.4-3 ICAO Region Identifiers

<u>ADM Field</u> <u>First</u> <u>Octet</u>	<u>ICAO Region</u>
<u>[1000 0000]</u>	<u>Africa</u>
<u>[1000 0001]</u>	<u>Asia</u>
<u>[1000 0010]</u>	<u>Caribbean</u>
<u>[1000 0011]</u>	<u>Europe</u>
<u>[1000 0100]</u>	<u>Middle East</u>
<u>[1000 0101]</u>	<u>North America</u>

[1000 0110]	North Atlantic
[1000 0111]	Pacific
[1000 1000]	South America

Note. — This Addressing Plan enables ICAO Regions to allocate ADM field values in the Fixed ATSC Network Addressing Domain to States and Organisations within the ICAO Region, in a structured manner. This is in order to permit the efficient advertisement of routing information. For example, in the advertisement of routes to “all RDs in the same ATN Island” as recommended in 5.3.7.1.4.2.

5.4.3.8.2.4.54 All ADM field values in the Fixed ATSC Network Addressing Domain that do not correspond to valid ISO 3166 Country Codes or which are not assigned to ICAO Regions shall be reserved.

49. Appendix K - Flimsy #10 - ADM IATA Administration.

FLIMSY 10
ATNP WG2/9

The following is proposed to correct and clarify IATA administration of ADM fields for VER values 01 (AINSC fixed) and 41 (AINSC mobiles).

5.4.3.8.2.3.3 AINSC organizations shall register their ADM values with IATA.

5.4.3.8.2.3.4 *Recommendation.* — **The field value should be derived from the set of three-character alphanumeric symbols representing an IATA Airline or Aeronautical Stakeholder Designator, according to 5.**Error! Reference source not found..

50. Appendix L - Flimsy #11 - Multiple RDs on Aircraft

Introduction

During the review of WP/291, it was agreed that the existing Addressing Plan was defective in that it did not provide for Aircraft on which multiple Routing Domains are implemented, although this is explicitly required by Chapter 2.

Discussion

The basic problem is that the ARS field has been defined as identifying a Routing Domain (i.e. it terminates the NSAP Address Prefix that defines the Network Addressing Domain that co-incides with the Routing Domain). For Mobile RDs, the ARS field takes on the value of the aircraft's 24-bit aircraft identifier, and this does not leave any further addressing fields to address separate RDs on board the same Aircraft.

However, apart from the Optional Non-use of IDRP, there is no use made of the length of the NSAP Address Prefix that "identifies a Routing Domain". It therefore appears reasonable to make available all or part of the LOC field in Mobile RDs to permit the addressing of separate RDs on board the same Aircraft, provided that the optional non-use is explicitly associated with a single Routing Domain per aircraft and, in such a case, no use is made of the LOC field.

Proposed Change

Changes To 5.3.5.2.12

In order to make clear the assumption on addressing made by the optional non-use of IDRP, it is proposed to add a new General section, as follows, including the existing introductory note.

5.3.5.2.12.1 General *Note.— In this case, there is no recommendation to suppress the periodic re-transmission of ISH PDUs according to the ISO/IEC 9542 Report Configuration Function. In the absence of IDRP, this re-transmission is necessary to maintain the "liveness" of the connection.*

5.3.5.2.12.1.1 When the procedures for the optional non-use of IDRP are employed by an Airborne Router, then all ATN airborne systems on the same aircraft shall be located in the same Routing Domain.

Note. — This is because the procedures specified below make assumptions on the value and length of the NSAP Address Prefix that is common to all systems on board an aircraft, and these assumptions are invalidated if a single aircraft hosts multiple RDs

Changes to 5.4.3.6

It is proposed to change note 4 of 5.4.3.6, to insert a new note 5, and to renumber subsequent notes accordingly.

Note 4.— In Fixed Network Addressing Domains, the ARS field may then be used to identify a Network Addressing Domain that will correspond to each Routing Domain under the control of each such manager, and the LOC field may then be used to identify each Routing Area within each Routing Domain.

Note 5. — In Mobile Network Addressing Domains, the ARS field identifies an aircraft. Where all ATN systems onboard an aircraft form a single Routing Domain, the ARS field also identifies the Addressing Domain that will correspond to that Routing Domain, and the LOC field is used as above. However, when the ATN systems onboard a single aircraft form more than one Routing Domain, then part of the LOC field is also used to identify such an Addressing Domain.

Changes To 5.4.3.8.4

It is proposed to modify the introductory note to recognise handling of multiple RDs per aircraft. Notes 1 and 2 following 5.4.3.8.4.3 should also be deleted.

Note 1. — In Fixed Network Addressing Domains, the purpose of the ARS field is to distinguish Routing Domains operated by the same State or Organisation, or within the same region.

Note 2. — In Mobile Network Addressing Domain, the purpose of the ARS field is to identify the aircraft on which the addressed system is located. When the systems onboard an aircraft form a single Routing Domain, then the ARS field also identifies the Routing Domain. When the systems onboard an aircraft form multiple RDs, then part of the LOC field is used to distinguish them.

Changes to 5.4.3.8.5

It is again proposed to modify the introductory note to recognise handling of multiple RDs per aircraft.

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

Note 1. — In Fixed Network Addressing Domains, the purpose of the LOC field is to distinguish Routing Areas within the same Routing Domain.

Note 2. — In Mobile Network Addressing Domains, the LOC field is used

- a) to distinguish Routing Areas within the same Mobile Routing Domain, or,
- b) when more than one Routing Domain is located on a single Aircraft, to distinguish each Routing Domain and the Routing Areas contained within them.

Note 3. — For example, the first octet of the LOC field may be used to distinguish each Routing Domain on board a single aircraft, and the second octet to distinguish each Routing Area.

Note 4. — The combination of AFI, IDI, VER, ADM, RDF, ARS and LOC fields therefore forms an Area Address.

51. Appendix M - Flimsy #12 - Proposed revision to Chapter 7 to accommodate VDL requirements

Introduction :

The VDL SARPs require the addition in the ATN SNDCF of a procedure to maintain the Local Reference directory when a VC has been established and a local directory already exists for this remote DTE.

The VDL SARPs have specified the negotiation of this procedure when the VC is established using fast select and the compression option parameter defined by ATN in the Call Request/Call confirm User Data

For this change proposal , it is assumed that when Fast Select is not available, the procedure to maintain Local Reference Directory is not used.

P 5.7-3 in 5.7.6.1.1

Note :3 - ~~An~~ Optional features of LREF Compression provide for “Local Reference Cancellation” and for “maintenance of the Local Reference Directory”. The mechanism for maintaining the Local Reference Directory requires the support of the ISO/IEC 8208 Fast Select facility.

Note 4 - A Subnetwork Connection Group is the set of virtual circuits simultaneously active between the same pair of DTEs, and which use the same subnetwork priority level, the same Data Compression Mechanisms and options, and share the same Local Reference Directory as defined in section 5.7.6.3.1.

Note 5: If a Subnetwork Connection Group already exists with the same remote DTE and the same compression mechanisms but with a different priority than the one used by the newly established virtual circuit, this circuit may not use the Local Reference Directory of this group, as packets will not travel at the same speed on two circuits which have different priorities.

Note 4-6: The supported Data Compression Mechanisms and their options are negotiated when each virtual circuit used by the SNDCF is established ,and are applied on a per Virtual Circuit basis. As a result of this negotiation, the virtual circuit is placed into a new Subnetwork Connection Group or is inserted in an existing Subnetwork Connection Group. Negotiated Data Compression mechanisms and their options are applied on a Subnetwork Connection Group basis.

P 5.7-5 Table 5.7-2 Compressions Options Offered Parameters

bit number	option
bit 8	Spare (S)
bit 7	<i>ICAO Address Compression Algorithm (ACA)</i>
bit 6	<i>V.42 BIS</i>
bit 5	<i>Maintenance/Initiation of Local Reference directory option (M/I)</i>
bit 4	Spare (S)
bit 3	Spare (S)
bit 2	<i>Local Reference (LREF) option</i>
bit 1	<i>Local Reference Cancellation Option (CAN) supported</i>

P 5.7-5 - modify figure 5.7-2, Format for Call Request User Data, to show that the bit following the V42bis bit (fifth bit of the compression parameter) is the M/I bit

P 5.7-6 , in 5.7.6.2.1.5 , renumber 5.7.6.2.1.5.12 to 5.7.6.2.1.5.14 and 5.7.6.2.1.5.13 to 5.7.6.2.1.5.15 and add before these paragraphs

5.7.6.2.1.5.12 The M/I bit shall be set to one by the calling SNDCF in the call request packet when the calling SNDCF has identified a Subnetwork Connection Group with the Called DTE, with the requested subnetwork priority and Data Compression mechanisms and options, to request that the newly established circuit shares the Local Reference Directory associated with this group.

5.7.6.2.1.5.13 The request for Local Reference directory maintenance shall only be used when the Call request uses the Fast Select facility and when bit 2 of the Compressions Options Parameter (Local Reference compression) is set to 1.

P 5.7-7 , add a paragraph

5.7.6.2.2.2.3 If the M/I bit is set to 1 in the Call Request User data and,

a) There is only one existing Subnetwork Connection Group with the calling DTE with the same Data Compression Procedures and options as indicated in the Call Accept User data, and call priority as this virtual circuit, and

b) It is acceptable to share the Local reference Directory associated with this Subnetwork Connection Group with this virtual circuit,

then the virtual circuit shall be inserted in this Subnetwork Connection Group and the M/I bit set to 1 in the Call Accept User data.

Otherwise, a new Subnetwork Connection Group shall be created , with this virtual circuit as the first member of the group and the M/I bit to zero in the Call Accept User data.

Note : By setting the M/I bit to 0, the responding SNDCF can refuse to maintain the Local Reference directory from the old Virtual Circuit to the Virtual Circuit. This will result in an additional Subnetwork Connection Group and as long as more than one exists, all further Local Reference Directory maintenance requests to be rejected .

P 5.7-7, modify Figure 5.7-3, Format for Call Accept User Data to show that the bit following the V42bis compression option bit (fifth bit of the compression parameter) is the M/I bit

P 5.7-9 , section 5.7.6.3.1 , Local reference Compression procedures

5.7.6.3.1.1 Both Calling and Called SNDCFs shall create a local directory to be associated with each newly established Subnetwork Connection Group .~~virtual circuit~~

P 5.7-22 , section 5.7.6.3.8

5.7.6.3.8.1 When a virtual circuit has been terminated ~~and the corresponding Subnetwork Connection Group is now empty~~, then the Local Reference Directory associated with ~~the virtual circuit~~ this group shall be discarded.

P 7-11, section 5.7.6.3.2.4

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

5.7.6.3.2.4.3 The entry number shall have the lowest possible entry number that has not been previously used for the local directory associated with this virtual circuit, and shall be in the range [0..63] or [128..16447] if the SNDCF is the initiator of the ~~virtual circuit~~ first virtual circuit in a Subnetwork Connection Group, or [64..127] or [16448..32767], if the SNDCF is the responder for such a virtual circuit.

Page 5.7-37 table 5.7.7.8.1 Major Capabilities

Item	Capability	ATN SARPs Ref	ATN Support
McM/I	Local Reference directory maintenance	5.7.6.3	Snvdl:M ^Snvdl:O

Note.- Snvdl is true when the VDL SNDCF is implemented

table 5.7.7.8.2 Call setup and Clearing Procedures

Item	Capability	ATN SARPs Ref	ATN Support
csM/I	Local Reference Directory maintenance request/ acceptance	5.7.6.2.1.5.13 5.7.6.2.2.2.3	^csFast:- McM/I:M

52. Appendix N - Flimsy # 13 - DRAFT ATNP 2 recommendation for the VDL SARPs

27/06/1996

1) DRAFT ATNP 2 recommendation

During the ninth meeting of ATNP WG2, held in Munich on 24-28 June 1996, the group has reviewed the section of the AMCP VDL SARPs relating to the SNDCF (VDL SARPs, April 1996 version).

The ATN SARPs (SubVolume 5 , TBD) specification of mobile SNDCF will be fully consistent with the VDL SARPs SNDCF specification and for the purpose of avoiding duplication , **ATN WG2 recommends that the section 5 of the VDL SARPs, which specifies additional requirements for the SNDCF, be removed.**

II) ATNP WG2 Review of the VDL SARPs (April 1996 version)

Section 1 of this document presents the comparison of the VDL and ATN SARP requirements regarding ISO/IEC 8208 facilities.

Section 2 shows how the requirements of section 5 of the VDL SNDCF are accounted for in the version 6.0 of the SubVolume 5 of the ATN SARPs.

2.1) ISO 8208 facilities

2.1.1) VDL SARPS Specifications

SECTION 4 - SUBNETWORK LAYER PROTOCOLS AND SERVICES

Supported facilities. Table 4-2 lists options and facilities, documented in ISO 8208, that shall be supported by VDL.

Table 4-2. Facilities supported by the VDL

<i>FACILITY</i>	<i>ISO 8208 SECTION</i>
Packet retransmission	13.4
Nonstandard default packet sizes	13.9
Nonstandard default window sizes	13.10
Flow control param. negotiation	13.12
Fast select	13.16
Fast select acceptance	13.17
Called line address modified notification	13.26
Called address extension	14.2

2.1.2 ATN SARPs specification

The ATN SARP only explicitly refers to the following ISO/IEC 8208 facilities in section 5.7.6.2.1 (Calling DTE Procedures):

- Priority
- Non standard default packet size
- Fast select Facilities

5.7.6.2.1.2 The Priority Facility

5.7.6.2.1.2.1 The Priority Facility shall be used if the subnetwork provider supports prioritisation of Virtual Circuits and specifies the mapping of Network Service to Subnetwork Service priorities.

5.7.6.2.1.3 The Non-Standard default packet size Facility

5.7.6.2.1.4 Non-standard default packet size Facility shall be used and the value requested set to the maximum supported by the subnetwork.

5.7.6.2.1.4 The Fast Select Facility

5.7.6.2.1.4 The Fast Select Facility shall be used if supported by all Subnetwork Provider(s) in the DTE-DTE virtual path.

For all the other facilities , the use of these facilities is a local matter , as specified in the following note,section 5.7.6.2.1.1.3:

Note.— Other optional user facilities and CCITT-specified DTE facilities may be required by subnetworks. The use of these facilities is a local matter.

2.1.3 Conclusion

1) Priority : As VDL does not support priority, the fact that VDL does not mandate priority is not in contradiction with the ATN specification.

2) Non standard default packet size and Fast select facility : the fact that VDL supports and mandates these two facilities is fully compatible with the ATN specification.

3) Other facilities : As all other ISO/IEC 8208 facilities are a local matter , Table 4-2 in the VDL SARPs is fully compatible with the ATN specification.

2.2 Tracing VDL requirements in ATN SARPs, Sub-Volume 5.

2.2.1 Section 5 from the VDL SARPs:

SECTION 5 - THE VDL MOBILE SUBNETWORK DEPENDENT CONVERGENCE FUNCTION (SNDCF)

VDL MOBILE SNDCF

Introduction. The VDL mobile SNDCF shall be the standard mobile SNDCF specified in the ATN Manual, except as described below.

New function. The VDL mobile SNDCF shall support maintaining context (e.g., compression tables) across subnetwork calls. The SNDCF shall use the same context (e.g., compression tables) across all SVCs negotiated to a DTE, when negotiated with the same parameters. The SNDCF shall support at least 2 SVCs sharing a context.

Note. - Because handoffs can be expected to reorder packets, certain compression algorithms do not lend themselves to use over the VDL. Further, implementors of dictionary-based compression algorithms must be sensitive to the problem of updates arriving on either the old or newly established call.

Call user data encoding.

The Call User Data field shall be as detailed in the ATN Manual, except as modified below.

ISH PDU. The ISH PDU shall be included in both the CALL REQUEST and CALL CONFIRMATION packets.

Maintained/initialized status bit. The fifth bit of the compression technique octet (i.e., the sixth octet of the Call User Data field) shall be the maintained/initialized (M/I) status bit which is used to indicate whether the SNDCF context (e.g., the compression state) was maintained from an old SVC to a new SVC.

CALL REQUEST. If the calling SNDCF is requesting that the SNDCF context be maintained from an existing call to the new call being established, it shall set the M/I bit to 1; otherwise, the M/I bit shall be set to 0.

CALL CONFIRMATION. If the called SNDCF has successfully maintained the entire SNDCF context to the new call being established, it shall set the M/I bit to 1; otherwise, the M/I bit shall be set to 0.

2.2.2 Interrelationship with the ATN SARPs

1) New Function

In the ATN proposed compression procedure, only the Local Reference Compression procedure requires that a compression table (Local Reference Directory), be associated with the subnetwork connection. The maintenance of the Local Reference Directory across SVCs negotiated with a DTE will be specified in ATN SARPs SubVolume 6.0 as per the attached flimsy 12.

This specification contains no limitations regarding the number of Virtual Circuits which can share the same Local Reference Directory.

2) Call user data encoding and ISHs

In section 5.7.6.2.1.5 SubVolume 5 of the ATN SARPs specifies that

Note.— When the fast select facility is available, the User Data field may be used to convey the ISO/IEC 9542 ISH PDU as part of the routing initiation sequence.

3) Call User Data encoding and M/I bit setting

The VDL requirements regarding the M/I bit setting and use are now included in the specification of the procedure for maintaining the Local reference Directory , as per the attached ATNP WG2/9 flimsy 12.

53. Appendix O - Flimsy # 14 - Proposed Resolution for Defect Report 96050107.DR

28 June 1996
Revision A

1. Background

Defect Report 96050107.DR identified several problems in the current specification of Chapter 5.4.3.2 of Subvolume 5 related to the update of the FIB and RIB information in Airborne Routers when more than one mobile subnetwork connectivity with the same Air/Ground Router becomes available or ceases to exist respectively.

The identified problems can be summarized as follows:

- a) The security information (including permissible traffic type, ATSC class) associated with the additional subnetwork connectivity is generally not available to Airborne Routers to perform a correct update of the FIB and received routes
- b) A unilateral local update of the Adj-RIB-In (without a corresponding update of the peer Adj-RIB-Out) will lead to inconsistent information in the peer Adj-RIBs of the Airborne and Air/Ground Routers
- c) An appropriate specification of this unilateral update of previously received routes is missing in the SARPs.

These deficiencies were agreed by WG 2 in its ninth meeting and the following change proposal was offered to the meeting to resolve the agreed defects.

2. Change Proposal

As it is highly unlikely that Airborne Routers will be in a position to determine the security information associated with mobile subnetworks on a global basis from locally known information, it is proposed that the update of the routing information in response to additional subnetwork connectivity is restricted to the Air/Ground Router and that the updated routes are re-advertised to the Airborne Router. The Airborne Router can then re-build its Adj-RIB-In, FIB and Loc-RIB using standard ISO/IEC 10747 procedures. This approach requires the following modifications to Subvolume 5:

5.3.5.2.10.4 If a BIS-BIS connection was already established with the remote ATN Airborne Router, then the IS-SME of the Air/Ground Router shall cause the update of the security path attribute's security information of all routes contained in the Adj-RIB-In associated with the remote ATN Airborne Router and shall cause the IDRPs Routing Decision function to be invoked in order to rebuild the FIB, the- Loc RIB and relevant Adj-RIB-Out(s) taking into account the additional subnetwork connectivity.

5.3.5.2.10.5 Furthermore, the Air/Ground Router shall re-advertise all routes affected by the change in subnetwork connectivity that are contained in the Adj-RIB-Out associated with the remote ATN Airborne Router subsequent to the update of the security path attribute's security information of these routes as specified in This shall include re-update of the security

~~information contained in routes received from the remote ATN Router, according to Chapter 5.8.~~

54. Appendix P - Flimsy # 15 - Call Acceptance and the M/I Bit

Error! Bookmark not defined.

Introduction

In the review of Flimsy #12, it was noted that the proposed additions did not include procedures to handle an incoming call accept packet. This flimsy proposes suitable text.

Proposed Changes to 5.7.6.2.1.6.1.1

It is proposed to add the following text to the end of this section.

5.7.6.2.1.6.1.3 If the M/I bit is set to zero in the Call Accept User Data, then a new Subnetwork Connection Group shall be created and the newly established virtual circuit becomes the first member of that Group.

5.7.6.2.1.6.1.4 If the M/I bit is set to one in the Call Accept User Data and the M/I bit in the preceding Call Request had also been set to one, then the newly established virtual circuit shall be inserted into the Subnetwork Connection Group identified when the Call Request was issued.

5.7.6.2.1.6.1.5 If the M/I bit is set to one in the Call Accept User Data, and M/I bit had been set to zero in the preceding Call Request, then this is an error condition, and the call shall be cleared with an ISO/IEC 8208 Cause Code of zero, and a diagnostic code of 242 (Disconnection - incompatible information in user data).

55. Appendix Q - Flimsy # 16 - Approach to further development of Sub-Volume 5 Guidance Material

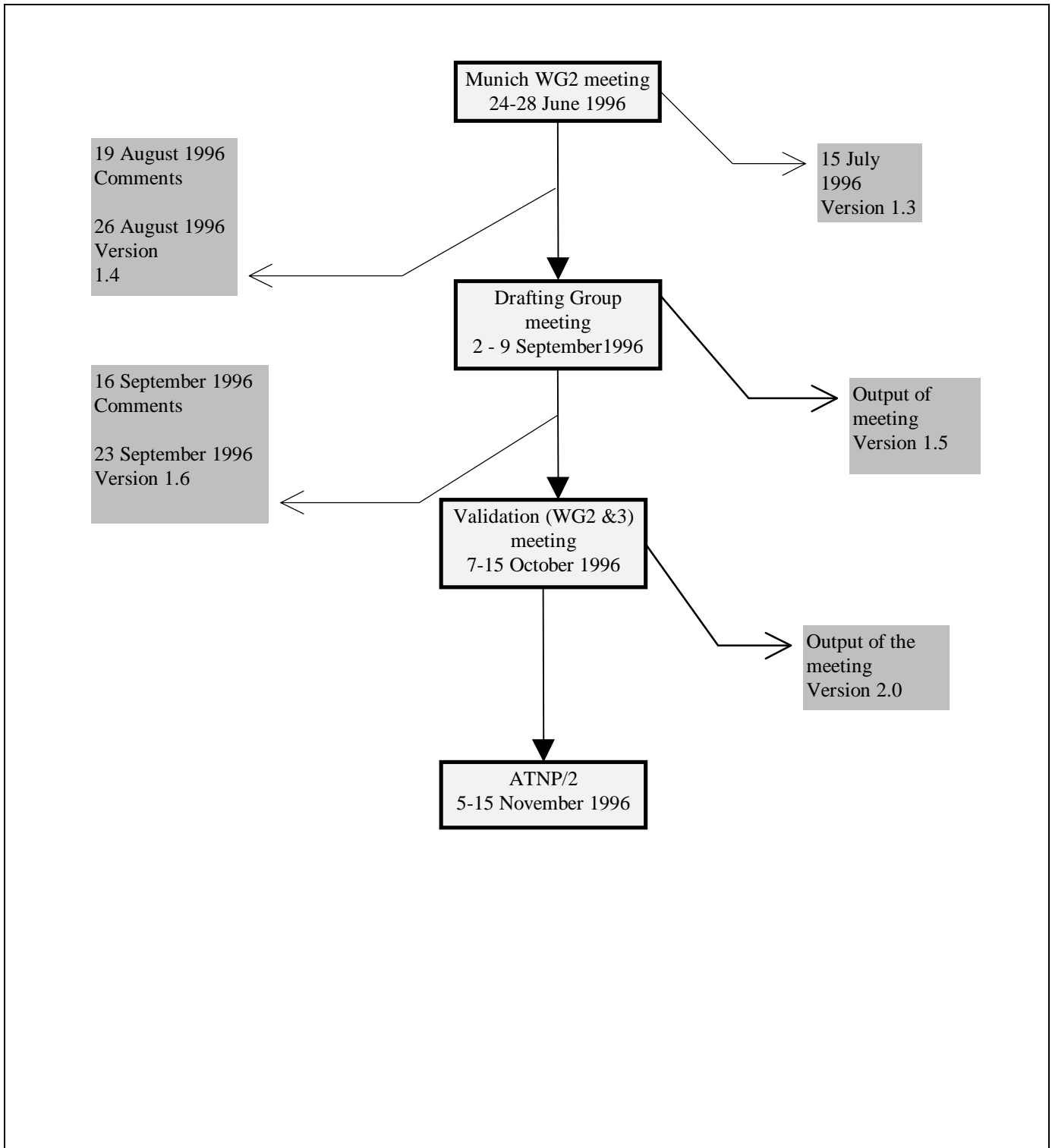
WORKPLAN

1. The timeline focuses on:
 - the core part guidance material will be the only submission to ATNP/2 as green pages;
 - Sub-Volume 5 Guidance Material will be published as an ICAO Manual; and
 - version 2.0 will be attached to the ATNP/2 report.

2. The Editor will incorporate new working papers for version 1.3 of GM:
 - WP 235 - Section 4,
 - WP 290 - Section 8.4,
 - WP 295 - Section 4,
 - WP 320 - Section 3.2.3, and
 - WP 322 - Section 8.3.

3. The drafting group terms of reference are:
 - review the version 1.4 of the Guidance Material;
 - add and review the material received from action items; and
 - create version 1.5 to be commented on by WG2.

4. The drafting group meeting will be host by UK (confirmation is needed).
 - Dates : 2 - 9 September,
 - Local :



56. Appendix R - Flimsy # 17 - WG2 Validation Flimsy to WG3

57. Appendix S - Action List

REF.	DELIVERABLE	Actionee	Complete by
	MELBOURNE WG		
	TOULOUSE WG		
	FAIR OAKS WG		
	ROME WG		
	BANFF WG		
6/31	To complete draft section 3 of guidance material	MR. SHARMA / MR. HENNIG	See Flimsy 16
6/33	To complete draft section 5 of guidance material	MR. ROY	See Flimsy 16
6/35	To complete draft section 7 of guidance material	MR. HENNIG	See Flimsy 16
	BRISBANE WG		
7/22	Propose format for NSAP address repository on CENA archive	JM CRENAIS	Ongoing
7/24	To develop guidance material for VDL mode 3/CLNP priority mapping	USA	Ongoing
7/25	To develop guidance material related to TP4 timer settings	USA	TBA
7/26	To develop guidance material related to subnetwork priority invocation & use of the X.25 idle timer	H THULIN	Ongoing
7/27	To develop guidance material related to security label handling by transport service/entity	A SHARMA	Ongoing
7/28	To develop guidance material related to traffic type semantic and handling within ISs.	JM CRENAIS	Ongoing
7/33	Present results of NUT Concept Validation Trials	P HENNIG	Ongoing
7/39	Consolidate all available Validation Tool Descriptions	H HOF	Ongoing
7/41	Review ATN Specific PRLs with respect to replacing the words "use of" with "support of"	TBA	Ongoing
	BRUSSELS		
8/5	Investigate issues required to develop CP for DR100 (IDRP Timers)	CCB CHAIR	Ongoing
8/7	Continue Simulation work to determine optimum value for congestion management beta value.	MR. HOF	Ongoing
	MUNICH		
9/1	Check ISO Standard references in sub-vol V, chapter 5 transport APRLs.	KP GRAF	WG2-10, via CCB
9/2	To review Wordperfect version of SV5 Chapter 1	B CARDWELL	12/7/96
9/3	To review Wordperfect version of SV5 Chapter 2	JM CRENAIS	12/7/96
9/4	To review Wordperfect version of SV5 Chapter 3	I BARBULESCU	12/7/96
9/5	To review Wordperfect version of SV5 Chapter 4	P HENNIG	12/7/96
9/6	To review Wordperfect version of SV5 Chapter 5	S COSGROVE	12/7/96
9/7	To review Wordperfect version of SV5 Chapter 6	B CARDWELL	12/7/96
9/8	To review Wordperfect version of SV5 Chapter 7	M BIGELOW	12/7/96
9/9	To review Wordperfect version of SV5 Chapter 8	P WHITFIELD	12/7/96
9/10	To review Wordperfect version of SV5 Chapter 9	B CARDWELL	12/7/96
9/11	Translate figures into Corel Draw, changing Figs 5.4-1, 5.7-1, 2 & 3 as agreed	A HERBER	Complete
9/12	Ask WG1 to put a clear definition of AINSC Org. in Part 1 material	S COSGROVE	JWG, Halifax
9/13	Develop ATNP/2 paper to propose relocation of VDL SNDCF SARPs	A SHARMA	JWG, Halifax
9/14	Prepare a defect report based on flimsy #2	T WHYMAN	mid August
9/15	Check SV1 glossary and ensure terms used by SV5 are not deleted	S COSGROVE	JWG, Halifax

ICAO ATNP WG2 (ATN Internet WG) - Report of the Ninth Meeting

REF.	DELIVERABLE	Actionee	Complete by
9/16	Develop potential solutions for WG3 traffic separation requirements and channel through the CCB.	H THULIN / H HOF	mid August
9/17	Coordinate review of WordPerfect SARPs Conversion	S COSGROVE	N/A
9/18	Check with Ron Jones if his paper (WP/184) will be included in SV1 guidance, where it is more suited.	S COSGROVE	JWG
9/19	Prepare guidance on hold down timer for section 2.8.7	H HOF	mid July
9/20	Development of guidance for ATN priority model (2.11)	TBA	2/9/96
9/21	Development of guidance for ATN security model (2.12)	TBA	2/9/96
9/22	Format GM & integrate WPs 320, 295, 235, 322 & 290	C PELLEGRINO	See Flimsy #16
9/23	To review Version 1.3 Guidance Material & provide comments to next WG2 meeting.	ALL	By 19 August
9/24	Check with FAA and SITA if they can support the Guidance Material Drafting Meeting	A SHARMA	ASAP
9/25	Confirm whether UK can host the GM drafting meeting 02-06 Sept.	A SHARMA	ASAP
9/26	Include recommendation in WG1 ATNP/2 paper that WG2 GM is published as part of ATNP/2 report	S COSGROVE	JWG
9/27	Include WP/290 in section 8.4 and say it's for States wishing implement in this way within national boundaries.	C PELLEGRINO	Flimsy 16
9/28	Provide validation database access files & tool descriptions to Peter Whitfield	EUROCONTROL	end August
9/29	Provide updated validation database files to Peter Whitfield three weeks before the October meetings to enable incorporation into validation report.	VALIDATORS	13 th September
9/30	Provide validation site manager E-mail details to Peter Whitfield.	A SHARMA	end of July
9/31	Edit the validation report, maintaining close coordination with JP Briand, and make a first draft available by the end of July.	P WHITFIELD	end of July
9/32	Provide comment on WP/312 to the WG1 meeting in Halifax.	ALL	Mid July
9/33	Provide V6.0 SARPs aligned ATN requirements database to Peter Whitfield.	EUROCONTROL	end of August
9/34	Develop a draft ATNP/2 paper based on WP/289, WP/310 and the discussion in the meeting.	A SHARMA	JWG, Halifax
9/35	Reformat WP/296 into an ATNP/2 Draft Paper	A SHARMA	JWG, Halifax
9/36	Cross check WP/293 with list drawn up in Brussels and incorporate into section 5 of WP/296	A SHARMA	JWG, Halifax
9/37	Develop draft ATNP/2 WP for WG2 Future Work Programme	A SHARMA	JWG, Halifax
9/38	Submit Draft ATNP/2 Paper based on WP/297	A SHARMA	JWG, Halifax
9/39	Update the ATNP/2 Working Paper List and attach to the minutes of the JWG	S COSGROVE	ASAP
9/40	Include WG2 recommendations on addressing in the WG1 ATNP/2 paper on this subject	KP GRAF	JWG, Halifax
9/41	Investigate VDL SARPs and determine if they are sufficient for defining join and leave events, if not perhaps draft WP ATNP/2 for Halifax	TBD	JWG, Halifax