

AERONAUTICAL TELECOMMUNICATIONS NETWORK PANEL

Phuket, Thailand

4th March 1997 - 6th March 1997

Final Version

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

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

1. Agenda Item 0 - Meeting Organisational Issues.....	3
2. Agenda Item 1 - Approval of Agenda and Objectives.....	3
3. Agenda Item 2 - Issues from ATN Panel Secretary and Related Bodies .....	3
4. Agenda Item 3 - Approval of the Alexandria WG2 Meeting Report - Review of Action List.....	4
5. Agenda Item 4 - Review of proposed amendments to the Internet Communication Service draft SARPs .....	5
6. Agenda Item 5 - Review of proposed amendments to the Internet Communications Service draft Guidance Material.....	6
7. Agenda Item 6 - Review of Internet SARPs Validation Results .....	6
8. Agenda Item 7. - ATNP CCB Procedures.....	7
9. Agenda Item 8 - Future Work Plan.....	8
10. Agenda Item 6 (continued) - Review of Internet SARPs Validation Results .....	9
11. Review of Flimsy #1, “Role and Working Procedures for WG2 SME on the ATN CCB & WG2 CNS/ATM-2 SARPs Development Mechanism (SDM)”.....	9
12. Agenda Item 8 (continued) - Future Work Plan.....	10
13. Issue regarding use of Security Label. ....	10
14. Review of Flimsy #4, “Version 7.1 of the ICS Draft SARPs”.....	10
15. Review of Flimsy #5, “Updated Guidance Material”. ....	11
16. Review of Flimsy #1 (continued), “Role and Working Procedures for WG2 SME on the ATN CCB & WG2 CNS/ATM-2 SARPs Development Mechanism (SDM)”.....	11
17. Review of Flimsy #3, “WG2 Report to WG2”.....	11
18. Review of Flimsy #4 (continued), “Version 7.1 of the ICS Draft SARPs”.....	11
19. Review of Flimsy #6, “Encoding of the Security Label”. ....	11
20. Review of Flimsy #2, “Systems Management and Security SARPs and Guidance Material Development in WG2”. ....	11
21. Review of Flimsy #7, “Proposed text for WG2 Report to the WGoW”. ....	11
22. Agenda Item 9 - Any Other Business.....	12
23. Agenda Item 10 - Conclusions & Action List.....	12
24. Appendix A - WG2 ATTENDANCE LIST.....	13
25. Appendix B - List of Working Papers.....	15
26. Appendix C - Meeting Agenda.....	16
27. Appendix D - Action List .....	17

## *ICAO ATNP WG2 (ATN Internet WG) - Report of the Eleventh Meeting*

### **1. Agenda Item 0 - Meeting Organisational Issues**

At the ATNP/2 meeting held in Montreal 04-15 November 96, the three working groups created in ATNP/1 were continued in order to further the work of the Panel. This is a report of the eleventh meeting of Working Group 2 (WG2) of the ATNP which was hosted by AEROTHAI in Phuket, Thailand in the period 4<sup>th</sup> - 6<sup>th</sup> March 1997.

Sixteen experts from eight States (Brazil, France, Germany, Italy, Japan, Thailand, UK, USA) and two International Organisations (EUROCONTROL, IATA) attended the meeting. The list of attendees is at Appendix A. A total of 21 Working Papers and 1 Information Paper were submitted to the meeting, the list is at Appendix B.

Mr Sharma, Rapporteur of WG2, opened the meeting, welcomed the attendees and thanked AEROTHAI for making the meeting arrangements.

### **2. Agenda Item 1 - Approval of Agenda and Objectives**

2.1 Mr. Sharma drew the participants attention to WP/366 comprising the agenda, a list of meeting objectives, a proposed agenda, a proposed schedule for the meeting, list of all known working papers, their assignment to agenda items, and the action list arising from the tenth meeting in Alexandria. This had been prepared by Mr. Sharma in advance of the meeting.

2.2 The meeting considered the objectives for the meeting as proposed in WP/366. The meeting agreed the objectives and these are reproduced below:

- review final validation results;
- review proposed amendments to the Internet SARPs submitted to resolve identified defects based on validation activities;
- review proposed amendments to the Internet guidance material;
- detail future work plan based on the ATNP/2 agreement;
- review ATNP CCB results/progress/plans/relationship WG2;
- agree future role of WG2 CCB;
- based on the above, develop input material to WG2, as appropriate.

It was noted that although the future work plan was not a critical item for this meeting, if time became available then it could be addressed.

2.2.1 Mr Herber asked what format the WG2 input to the WG2 meeting would take. Would it be consolidated with the other working groups' work. Mr Sharma suggested that the WG2 input to the WG2 Meeting would be a single introductory WP with three Appendices. The appendices would be: the additional WG2 validation work, the amendments to the ICS SARPs and the amendments to the Guidance Material. After some discussion this was accepted.

2.3 The meeting updated the list of Working Papers, the full list of meeting Working Papers is reproduced in Appendix B.

2.4 The agenda as proposed in WP/366 was reviewed and agreed. The agreed agenda is reproduced in Appendix C.

2.5 The proposed schedule of the meeting was agreed.

### **3. Agenda Item 2 - Issues from ATN Panel Secretary and Related Bodies**

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

3.1 Mr Sharma reported that the Panel Secretary, Mr Paydar, had provided a proposed change to the ICS SARPs, namely that the requirement in para 5.4.3.8.2.2.3 (text below) should become a note i.e. that the “shall” be changed to “may”.

5.4.3.8.2.2.3 *AINSC Organisations shall register their ADM values with IATA.*

Mr Hennig appreciated the reason for the change but thought that the proposal was not strong enough. He suggested that “shall” be changed to “will”. This was agreed and will be incorporated into the changes to be forwarded to ICAO.

**4. Agenda Item 3 - Approval of the Alexandria WG2 Meeting Report - Review of Action List**

4.1 Mr Sharma commented that the report of the Alexandria meeting was no longer particularly relevant given that the Second Panel meeting had occurred since then. The report of the Alexandria meeting was agreed without further amendment.

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

<b>REF.</b>	<b>DELIVERABLE</b>	<b>Actionee</b>	<b>Complete by</b>
	<b>MELBOURNE WG</b>		
	<b>TOULOUSE WG</b>		
	<b>FAIR OAKS WG</b>		
	<b>ROME WG</b>		
	<b>BANFF WG</b>		
	<b>BRISBANE WG</b>		
7/22	Propose format for NSAP address repository on CENA archive	JM CRENAIS	Ongoing
	<b>BRUSSELS</b>		
8/7	Continue Simulation work to determine optimum value for congestion management beta value.	MR. HOF	Ongoing
	<b>MUNICH</b>		
	<b>ALEXANDRIA</b>		
10/1	Modify procedures doc include ICS RDB as a controlled item	S Cosgrove	Completed (but redundant)
10/2	Determine if any cross references require update after table 5.8.3.4.10 is removed	JP Briand	Completed (but redundant)
10/3	Research AMSS Priority Level choices and priority alarms	H Thulin	See WP/369
10/4	Liaise with AMCP regarding use of priority level settings	A Sharma	Superseded in WG2/10 meeting
10/5	Check AMSS priority mapping table and determine a reference	H Thulin	Superseded in WG2/10 meeting
10/6	review section 5.2.8.5.1.2, particularly paras c) &d), for consistency and high priority mapping - submit a dr & draft cp to the ccb.	Mr Herber	See WP/371
10/7	Produce Chapter 7 of the ICS GM	Mr Adnams	Completed
10/8	Review WG2 ATNP Paper for word/wordperfect translation errors	Mr Sharma	Completed

## **5. Agenda Item 4 - Review of proposed amendments to the Internet Communication Service draft SARPs**

5.1 There was initial discussion on how to proceed with the review of the amendments to the ICS draft SARPs. Since the ATNP/2 meeting the Word version of the ICS draft SARPs had been updated from Version 6.0 to Version 7.0. Version 7.0 was change-barred against Version 6.0 and was identical to the ICAO WordPerfect version 1.0 that was produced at ATNP/2. WG2 therefore had available identical documents, one in Word and one in Word Perfect.

5.1.1 It was identified that the maintenance of the draft SARPs was closely related to the work of the CCB. The CCB would be using the soft copy of the draft SARPs to generate the changes to be put forward to ICAO.

5.1.2 After further discussion it was decided that WG2 would maintain the Word version of the draft SARPs and generate hard copy change pages for the CCB and thus for ICAO. This enabled maximum participation for the WG2 members and satisfied the ICAO requirement for at least hard copy, change-barred pages.

5.2 Mr Cardwell presented WP/378, "Changes made to Word 6 Version 6.0 to bring it in line with WordPerfect ICAO Version 1.0" which explained all the changes made to version 6.0 of the SARPs to create version 7.0. It was agreed to do an "accept all" for the revisions in Version 7.0 and to use that as a baseline for further work in this meeting.

5.2.1 All changes made in meeting would be incorporated in Version 7.0 and issued as a Flimsy on the last morning of the meeting. Stephane Tamalet, Jean-Michel Crenais and Brian Cardwell would produce version 7.1. The change-barred pages of Version 7.1 would be the pages put forward to ICAO illustrating the changes required to the ICAO Version 1.0. It was agreed that after review of the changes made on Thursday morning, the final version out the meeting would be version 8.0.

5.3 Mr Tamalet presented WP/382, "WG2 CCB Status Report". There had been no further CPs between WG2-10 and WG2-11. The outstanding CPs were reviewed; all had been previously accepted but had not been incorporated into the SARPs at ATNP/2 through oversight. All the CPs were accepted again, however comments would be accepted up to Thursday morning.

5.3.1 There was a preference to get all the outstanding changes from CPs 72, 78, 79, 81 and 82 into version 7.1 rather than submitting the WG2 accepted changes to the CCB for later incorporation.

5.4 Mr Sharma presented WP/368, "Editorial Corrections to Sub-Volume 5 of draft ATN SARPs" on behalf of Mr Paydar, the ATN Panel Secretary. This paper listed ICAO's comments that arose during the processing of the SARPs after the ATNP/2 meeting. The questions were tackled one by one and the accepted changes were to be included in Version 7.1.

5.5 Mr Van Trees presented WP/373, "Proposal to remove a note in SV5". The paper noted that the note under 5.2.4.3.3 was implementation related and therefore inappropriate to SARPs. Two choices were possible, either delete the note or replace it. It was agreed to delete the note.

5.6 Mr Adnams presented WP/372, "Internet Communications Service Requirements Database". The ICS Requirements Database assist providers in quoting compliance against the SARPs. This has previously been maintained by WG2 and CPs have indicated where changes to the ICS RDB were required when changes to the SARPs were proposed. It was recognised that this is no longer appropriate now the CCB exists and the formal link between WG2 and the ICS RDB maintenance would be broken. However, Mr Adnams explained that EUROCONTROL would still be maintaining the ICS RDB and the files were available from the archives.

5.7 Mr Van Trees requested that WP/373, "Proposal to remove a note in SV5" be re-opened. This WP had resulted in the deletion of the note in 5.2.4.3.3 (see 5.5). Mr Van Trees proposed the addition of a new note as

## **ICAO ATNP WG2 (ATN Internet WG) - Report of the Eleventh Meeting**

concern had been expressed that clarification was required. Although the need for the note was not generally understood, as it had no impact on the SARPs it was agreed that it could be added. The text of the note is reproduced below:

*Note:- Some States may elect to support the optional non-use of airborne IDRP procedures in their Air/Ground Routers; however, Regional Implementation Planning Groups must acknowledge the requirement for aircraft using IDRP within the Region to communicate with an Air/Ground Router, independent of how that is accomplished*

5.8 Mr Herber presented WP/371, “Proposed Draft SARPs corrections concerning Subnetwork Priority Mapping”. This paper, which was related to WP/375, aimed to resolve the use of priorities for messages in the flight safety category. After discussion and minor amendment the proposed changes were accepted for inclusion in Version 7.1

5.9 Mr Van Trees presented WP/375, “ATN to Mobile Subnetwork Priority Mapping” which had been developed by Ron Jones for both WG1 and WG2. The paper contained recommendation on priority mappings and had been co-ordinated with the various Panels responsible for the a/g subnetworks.

5.9.1 Mr Sharma observed that if the text were accepted then it must match with the WG1 decision. He proposed that any acceptance be conditional on the WG1 decision.

5.9.2 After much discussion it was agreed that Mr Van Trees would update the paper prior to presentation to WG1 to reflect the WG2 discussion. In addition the changes to SV5 would be incorporated into Version 7.1 which would be reviewed on the Thursday morning.

5.10 Mr Sharma presented WP/369, “AMCP Response on the Use of Priority 14”. This paper had been prepared to conclude discussion on the use of AMSS Priority Level 14 (it had been reported in WG2-10 that ATN use of this priority level had been causing problems in AMSS Ground Earth Stations). This paper reported discussion with the AMCP over the use of the AMSS Priority level 14. Their conclusion was that ATNP were correct in using priority level 14 and no change was required in the ATN SARPs. However AMCP had requested that an assessment of likely traffic volumes at this priority level be provided. Mr Sharma proposed, and it was agreed, that this assessment be included as a future work item.

### **6. Agenda Item 5 - Review of proposed amendments to the Internet Communications Service draft Guidance Material**

6.1 Mr Herber presented WP/370, “CIDIN as an ATN Subnetwork - Proposal to extend the ATN ICS Guidance Material”. This paper had been produced to provide extended guidance for use of CIDIN after objections were raised at ATNP/2 about the lack of CIDIN Guidance. Co-ordination with the objecting State had been attempted but no response had been received.

6.1.1 The material was reviewed page by page. The CIDIN MCF (Message Code Format) value 4 had been selected for ATN. This would be formally included in the next update of the ICAO Doc EUR 005. After discussion it was agreed that this information should only be included in the GM, not the SARPs. The paper was accepted and would be included in the updated GM.

6.2 Mr Van Trees presented WP/383, “Comments on SV5 SARPs Guidance Material”. This paper contained the results of a thorough review of the GM and was mainly a list of editorial corrections. Mr Pelligrino agreed to produce an update of the GM for the Thursday morning as well as an update of WP/383 indicating which of the proposed changes had been incorporated.

### **7. Agenda Item 6 - Review of Internet SARPs Validation Results**

## ***ICAO ATNP WG2 (ATN Internet WG) - Report of the Eleventh Meeting***

7.1 WP/381, "ATNP/2 - WP/67 - Extract from Report on Agenda Item 3 relevant to SV5 (Pages 3-21 to 3-26)" was reviewed.

7.1.1 The meeting was informed that a validation report from the WGs would be presented to the WG2 meeting. It had been proposed that the report should consist of a half page summary of the additional validation on each SV since the ATNP/2 meeting. In the absence of any volunteers, Mr Sharma would prepare the contribution from WG2.

7.2 Mr Van Trees presented WP/367, "Design of a Scaleable FAA ATN Internet Architecture". The paper presented the results of the FAA's examination of the SARPs which found that they were scaleable in terms of IDRP, e.g. the BIS-BIS update capacity. It had been a paper for general internal reassurance, but upon completion it was still further reassuring to find that the conclusion was similar to that of WP/374 (to be presented by the French delegation).

7.3 Mr Kircher presented WP/374, "IDRP Large Scale Simulation Study: Summary of Results". The paper on a closely related subject to that of WP/367. It covered a simulation of use of IDRP in the ECAC region (27 countries). The study had simulated exchange of IDRP information and found that fragmenting of the region into three ATN islands would be optimal with the type of mobility scenario that was simulated. In summary, the paper concluded that nothing in the SARPs required changing and that the SARPs were valid.

7.4 Mr Cardwell briefly presented IP/385, "A Summary of the ADS Europe Final Trials Report". This paper outlined the key performance results from the ADS-Europe Trials. Copies of the Final Report was made available to WG2 members.

### **8. Agenda Item 7. - ATNP CCB Procedures**

8.1 Most WG2 members had attended the CCB meeting on 03 March and were aware of the proposed ATNP CCB Procedure contained in WP/379, "ATNP CCB Procedures Document". Mr Cardwell briefly presented the paper for the benefit of those that had not attended the CCB meeting.

8.2 Mr Sharma concluded that WG2 needed to nominate the WG2 SME. Mr Herber nominated Klaus-Peter Graf. Mr Herber explained that it was unlikely that Mr Graf would be able to attend any CCB meeting that were far from Munich, but that Mr Herber could represent him should it be necessary. Mr Sharma commented that face to face CCB meetings were not expected to be frequent. The meeting accepted Mr Graf as the nominated SME for WG2.

8.3 It was agreed that a method of interaction between WG2 and the SME would be required. It was proposed that the WG2 CCB procedure be maintained as the tools already existed and were specific to the task. There was support for this idea, but it was felt that some modification may be required. An action was placed on Mr Graf, Mr Crenais and Mr Hennig to examine the existing procedure and propose and modifications required. It was noted that the current WG2 CCB Chair, Mr Tamalet, would need to hand over this role to Mr Graf. WG2 thanked Mr Tamalet for his work in that role.

**ACTION 11/1 - MODIFY "WG2 CCB" PROCEDURES DOCUMENT TO  
CLARIFY ITS INTERFACE WITH THE ATNP CCB PROCEDURE -  
KPG/JMC/PH**

8.4 It was noted that WG2 still had to produce material for Package 2 and that the CCB process used to successfully produce the Package 1 material would probably be required again. There would be a need to maintain a working copy of the SARPs containing the new package 2 material and tracking the (ATNP CCB approved) changes to the Package 1 SARPs. It was suggested that there was still a need for a WG2 CCB process and that Mr Tamalet should remain WG2 CCB Chair. An action was placed upon Mr Graf, Mr Tamalet and Mr Hennig to determine the process for handling Package 2 material. Mr Hennig proposed that both actions be addressed in a single document.

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

**ACTION 11/2 - CLARIFY INTERACTION BETWEEN ATNP CCB AND  
"WG2 SDM" REGARDING THE HANDLING OF -1 MAINTENANCE AND -  
2 NEW TEXT - KPG/ST/PH**

8.5 A Flimsy would be prepared to propose solutions to the items covered in 8.3 & 8.4.

**9. Agenda Item 8 - Future Work Plan**

9.1 Mr Sharma presented WP/380, "ATNP/2-WP/67 - Report on Agenda Items 5 & 6 (Future Work Plan)". The sections were reviewed one by one.

9.1.1 Section 5.1.1 - Consideration of subsetting of ATN SARPs : There was discussion whether there should be a Future Work Item (FWI) to SARP this. It was agreed that a detailed working concept would be required before work could proceed on producing SARPs. The US agreed to prepare a concept paper for the next meeting.

**ACTION 11/3 - INPUT PAPER TO NEXT MEETING ON POSSIBLE ATN  
SUBSETS AS DESCRIBED IN ATNP/2 REPORT - MR VAN TREES**

9.1.2 Section 5.1.2 - FANS-1/A Accommodation : It was agreed that there was currently no WG2 activity required for this task. It was noted that WG1 were working on this task and this could lead to WG2 work later.

9.1.3 Section 5.1.3 - VDL Mode-3 : It was recognised that WG2 needed to review this work (see ATNP/2 WP/28) and that it needed urgent action as the completion date was June 97. Volunteers were requested. Mr Herber provisionally accepted the action, but needed to consult his colleagues.

9.1.4. Section 5.2.2 - Major Work Items : these were reviewed individually, results below.

- a) Maintenance of SARPs - CCB Responsibility
- b) Security and System Management SARPs - WG2 action required
- c) Enhancement of existing protocol architectures - no clear understanding of this item
- d) New networking technologies - WG2 action as required
- e) Additional Applications - WG3
- f) Upper Layers - WG3

9.1.5 WG2 specific items in the ATNP/2 FWIs were listed in section 5.3.1.2. These were reviewed individually, results below:

- a) & b) Enhancements to SARPs - CCB responsibility
- c) Security Mechanisms - Clarification to be sought from WG1: is concept mature, should WG2 proceed?
- d) SNDCF for additional subnetworks - WG2 future work applies here.
- e) QoS Management - limited discussion, no conclusion
- f) Systems Management - limited discussion, no conclusion
- g) Financial Accounting mechanisms - limited discussion, no conclusion
- h) Multicast/broadcast - limited discussion, no conclusion
- i) Fast Byte - Mr Van Trees agreed to supply an IP on this subject to the next meeting.

**ACTION 11/4 - SUBMIT AN IP ON EXISTING FAST BYTE  
STANDARDS/PROTOCOLS - MR VAN TREES**

j) Broadband Transport - Mr Van Trees agreed to supply an IP on this subject to the next meeting or confirm deletion from future work programme.



## *ICAO ATNP WG2 (ATN Internet WG) - Report of the Eleventh Meeting*

### **ACTION 11/5 - SUBMIT INFORMATION OR OFFER DELETION OF FUTURE WORK ITEM ON INVESTIGATION INTO PROVISION OF BROADBAND TRANSPORT - MR VAN TREES**

k) - n) all the other items were available for members to submit information to the next meeting. No actions assigned.

9.1.6 Items a) to n) would be reviewed again on the Thursday to give participants time to consider which items were to be prioritised

9.1.7 The ATNP/2-WP/67 Report on Agenda Item 6 (Future Work) was considered. All WG2 relevant items had been covered, but it was agreed that a future agenda item should be "Implementation Activities".

9.2 Mr Adnams introduced WP/376, "EUROCONTROL ATN Reference Facility Project : Proposal for ATN SARPs and GM to take into account Requirements for Testing ATN Systems". Mr Sharma presented the WP. The paper explained the purpose and timescale of the RAF project and recommended that GM be developed regarding the testing of ATN Systems. Proposals 1) - 5) in the paper were approved and are reproduced below, further details regarding the RAF are available from Mr Hof at EUROCONTROL.

*(1) note the plans for the development of a reference test facility, namely the RAF, in the context of supporting the operational implementation of the ATN;*

*(2) the development of Systems Management SARP and GM takes into account requirements derived from testing;*

*(3) develop guidance material related to the interfaces for mobile subnetworks taking into account industry developments and test requirements;*

*(4) develop guidance material related to Test Responders taking into account industry developments and test requirements;*

*(5) develop guidance material related to testing of ATN equipment.*

9.3 WP/369, "AMCP Response on the Use of Priority 14" (see 5.10) was revisited. It contained a requirement to provide AMCP with an estimate of the volume of priority 14 traffic on the AMSS Subnetwork. Mr Kircher agreed to take on this action.

### **ACTION 11/6 - INVESTIGATE THE IMPACT OF THE ROUTING DATA TRAFFIC (IDRP ISHS) OVER THE AMSS SUBNETWORK IN ORDER TO ESTIMATE THE VOLUME OF ATN DATA WITH PRIORITY 14 ON THE AMSS SUBNETWORK - MR KIRCHER**

## **10. Agenda Item 6 (continued) - Review of Internet SARPs Validation Results**

10.1 WP/386, "Reporting of ATN SARPs Validation Status" from Ron Jones was reviewed. The paper proposed a common format reporting the validation level of each sub-volume to the WG2 meeting. It was agreed that WG2 would not use the format as it was not possible to give figures for % confidence for SV5 validation.

## **11. Review of Flimsy #1, "Role and Working Procedures for WG2 SME on the ATN CCB & WG2 CNS/ATM-2 SARPs Development Mechanism (SDM)"**

11.1 Mr Hennig presented FL#1 which had been produced in response to actions 11/1 and 11/2. It proposed that the WG2 CCB continues but with new title to clarify its role. It would be referred to as the SARPs Development Mechanism (SDM) and would concentrate solely on the CNS/ATM-2 SARPs and GM development. The Flimsy was reviewed very closely and some amendments suggested. An update to the Flimsy was requested.

## **12. Agenda Item 8 (continued) - Future Work Plan**

12.1 WP/380, “ATNP/2-WP/67 - Report on Agenda Items 5 & 6 (Future Work Plan)” was revisited.

12.1.1 Mr Herber confirmed acceptance of the action to review the VDL Mode-3 design from an ATN perspective. A report would be produced for the next meeting.

**ACTION 11/7 - RESPONSE TO ATNP/2 REPORT ITEM 5.1.3,  
“REVIEW/EVALUATION OF AMCP VDL MODE-3 DESIGN” (ATNP/2-  
WP/28) - MR HERBER**

12.1.2 WP/380, Section 5.3.1.2.1 - WG2 FWIs were revisited.

(d) provision of SNDCFs for future Subnetworks - Mr Sharma had confirmed that there wasn't a VDL Mode 4 at this time, but STDMA was a candidate. WG2 would work on this work item (all subnetworks) as priorities allowed. Mr Pellegrino offered to provide an update on HF Datalink.

**ACTION 11/8 - REPORT ON PROGRESS OF DEVELOPMENT OF HF  
DATALINK SARPS BY AMCP - MR PELLEGRINO**

(e) QoS Management - it was clarified that the SARPs say ‘do what you can’ i.e. deliver late rather than no at all, although it was dependent on traffic types. WG2 work needed to be done on GM to provide assurance of service.

(f) Systems management - assurance on stability of WG1 material required. Mr Adnams agreed to produce FL#2 for input to WG1 which would list the applicable standards and inform WG1 that WG2 will start work in this area. It was noted that this also applied to Security and this would be included in the Flimsy. Mr Adnams offered to provide a paper to the next meeting on Security.

**ACTION 11/9 - PROPOSE USE OF TYPE 2 BISPDU AUTHENTICATION  
OF IDRP DATA FOR CNS/ATM-2 SARPS - MR ADNAMS**

(g) Financial accounting mechanisms - it was agreed that whilst WG2 can provide technical solutions a WG1 framework for the ATN Cost model was required.

(h) Multicast/Broadcast - Mr Van Trees offered to submit a paper to the next meeting

**ACTION 11/10 - SUBMIT A WP ON THE IMPACT OF THE USE OF  
MULTICAST - MR VAN TREES**

(k) - (n) it was agreed to leave these on the work programme, although it was noted that (m) (backward compatibility) was a constraint rather than a work item.

## **13. Issue regarding use of Security Label.**

13.1 It was noted that there was a potential defect report from WG3 regarding the use of the Security Label. There was uncertainty regarding the use of the type and length fields. After considering deferring this to the CCB, it was decided that it would be better to clarify the problem in the V7.1 SARPs. Mr Tamalet agreed to draft a Flimsy for the next day proposing additional text for the SARPs.

## **14. Review of Flimsy #4, “Version 7.1 of the ICS Draft SARPs”.**

## *ICAO ATNP WG2 (ATN Internet WG) - Report of the Eleventh Meeting*

14.1 The V7.1 Draft SARPs were reviewed change by change. Some minor problems were noted in table numbering and corrections requested. Only the changed pages would be provided to the WG2 Meeting and they would form Appendix A of the WG2 Report to WG2.

### **15. Review of Flimsy #5, “Updated Guidance Material”.**

15.1 Mr Pellegrino presented the updated guidance Material which incorporated all the changes requested by the meeting. As there were many minor editorial changes it was agreed to present these to the WG2, and hence to ICAO, in tabular form, in addition to change pages containing the major text additions. These changes would be collated as Appendix B to the WG2 Report to WG2 (Flimsy #3). (The soft copy of the file would also be made available to ICAO for additional clarity.)

### **16. Review of Flimsy #1 (continued), “Role and Working Procedures for WG2 SME on the ATN CCB & WG2 CNS/ATM-2 SARPs Development Mechanism (SDM)”**

16.1 Mr Hennig presented the updated Flimsy #1. The Flimsy proposed that a WG2 SDM be created to manage the development of new SARPs and Guidance material in a controlled manner. Mr Tamalet would modify his previous role as WG2 CCB Chair and become the chair of the SDM. The Flimsy was accepted with minor editorial amendment.

### **17. Review of Flimsy #3, “WG2 Report to WG2”.**

17.1 Mr Sharma presented Flimsy #3, the draft of the WG2 Summary report to be submitted to the WG2 Meeting. This was reviewed page by page. Changes to the text were made and it was agreed that the updated paper could be presented to the WG2 Meeting.

### **18. Review of Flimsy #4 (continued), “Version 7.1 of the ICS Draft SARPs”.**

18.1 The revised V7.1 Draft SARPs were again reviewed change by change and accepted. The changed pages would be provided to the WG2 Meeting and they would form Appendix A of the WG2 Report to WG2 (Flimsy #3).

### **19. Review of Flimsy #6, “Encoding of the Security Label”.**

19.1 No FL#6 had been produced although the problem had been extensively reviewed. A Working Paper (WP/387) had been produced and it was suggested that the best course of action was to resolve the problem through the CCB as changes to both SV4 and SV5 were required.

19.2 After discussion it was agreed that a joint WG2/WG3 SG3 subgroup would meet outside the meeting to fix the problem and submit the solution to the WG2 meeting in the updated SARPs.

### **20. Review of Flimsy #2, “Systems Management and Security SARPs and Guidance Material Development in WG2”.**

20.1 This Flimsy was presented by Mr Adnams. It was proposed and agreed that the Flimsy be presented to WG1 the following day. It informed WG1 that WG2 would start work on drafting identified Systems Management and Security SARPs and Guidance material.

### **21. Review of Flimsy #7, “Proposed text for WG2 Report to the WGoW”.**

## *ICAO ATNP WG2 (ATN Internet WG) - Report of the Eleventh Meeting*

21.1 This Flimsy was presented by Mr Van Trees and it proposed that the WG2 report to the WG2 Meeting should explain the addition of the Note under 5.2.4.3.3. This was approved and the (slightly modified) text would be added to the WG2 Report by Mr Sharma.

### **22. Agenda Item 9 - Any Other Business**

22.1 Mr Adnams presented WP/384, "EUROCONTROL ATN Project Status and Overview". This paper provided a comprehensive overview of the EUROCONTROL ATN Projects. It covered development of the previous ATN work; the TAR (Trials ATN Router), TTS (Trials Transport Server), TES (Trials End-System) and their incorporation into the ATIF (ATN Trials Infrastructure). EUROCONTROL ATN work was being focused towards Pre-operational Implementations such as ProATN and EOLIA. The paper also covered the RAF Project. Details of all the EUROCONTROL ATN developments are available from EUROCONTROL.

22.2 Mr Cardwell gave a brief overview of the ATN Compliant Communications - European Strategy Study (ACCESS) Project. This was a European Commission funded project being undertaken by NATS (UK), the STNA (France) and the DFS (Germany). ACCESS aims to develop the initial deployment of the ATN in the core European area. The Study will be complete in late 1998.

22.3 All the changes to V7.0 of the draft SARPs, presented as V7.1 to this meeting, will be accepted and the resulting document will be version 8.0 and form the baseline for further development. Similarly all the changes to the Guidance Material presented in this meeting will be accepted and form Version 2.0 of the ICS GM.

22.4 Flimsy #1, the WG2 development of Working Procedures for the SV5 SME, will be presented to the ATNP CCB Meeting next week.

### **23. Agenda Item 10 - Conclusions & Action List**

23.1 The objectives of the meeting were reviewed and it was agreed that the all objectives had been covered.

23.2 The action list was reviewed and completion deadlines allocated to the remaining actions. The current action list is included as Appendix D.

23.3 Mr Sharma thanked AEROTHAI for providing the meeting facilities and technical office. He commented that the administrative arrangements had been excellent.

23.4 Mr Sharma thanked the participants of the meeting for their work over the last three days and closed the meeting.

24. Appendix A - WG2 ATTENDANCE LIST

	Adnams, Martin	EUROCONTROL	Rue de la Fusée 96 B--1030 Brussels	32-2-729-3328 32-2-729-9085	martin.adnams@eurocontrol.be
	Cardwell, Brian	NATS	C31, Spectrum House, Gatwick Road, Gatwick Airport South, RH6 0LG, UK	44-1293-576 401 44-1293-576 399	cardwellb@natsgcs.co.uk
	Cecere, Francesco	SICTA	Via Circ. Ne Esterna di Napoli, Loc. Pontericcio, 80014 Giugliano (NA) ITALY	39-81-818 0278 39-81-818 0795	fcecere@sicta.it
	Chanyut, Phrukumwong	AEROTHAI	102 Soi Ngamduplee, Thungmahamek, Sathorn, Bangkok 10120, THAILAND	66-2-285 9248 66-2-285 9253	scfrd@email.egat.or.th
SARPs Editor	Crenais, J Michel	STNA	7 Av Du Dr M Grynfoegel B.P.1084 31035 Toulouse, Cedex, FRANCE	33-5-62-14-54-88 33-5-62-14-54-01	crenais_jean-michel@cmail.dgac.fr
	Fieldhouse, Dirk	Logica	75 Hampstead Rd, London, NW1 2PL , UK	+44-171-637 9111 +44-1932-869107	fieldhouse@logica.com
	Gutzmerow, Günter	Deutsche Flugsicherung GmbH DFS	Kaiserleistrasse 29-35 D63067 Offenbach/ Main	49 69 8054-2420 49 69 8054-2495	101350.421@compuserve.com
	Hennig, Paul	Staff Engineer IATA (United)	United Airlines WHQKO 1200 Algonquin Rd Elk Grove IL 60007	1-847-700-4312 1-847-700-4477	paulhennig@aol.com
	Herber, Andreas	Deutsche Flugsicherung GmbH DFS	Richard Strauss Allee 13 60598 Frankfurt, GERMANY	49-69-6335-263 49-69-6335-219	herber@se.dfs.com
	Kircher, Thomas	CENA		33-5-62-25 9557 33-5-62-25 9599	kircher@cena.dgac.fr
	Nunes, Waldir	DEPV	Aeroporto S. Dumont 4 Andar Castelo, Rio de Janero, RJ, BRAZIL	+55-21-2125236 +55-21-2125688	fguet@operlink.com.br
GM Editor	Pellegrino, Carlos	DEPV / D-ECO, BRAZIL	P. Senador Salgado Filho S/N Aeroporto S. Dumont 4 Andar Castelo, Rio de Janero, RJ, BRAZIL	+55-21-2127277 +55-21-2125692	pel@uninet.com.br
WG2 Chair	Sharma, Akhil	NATS GCS CAA	C31, Spectrum House, Gatwick Airport South, RH6 0LG, UK	44-181-814 0101 44-181-814 0909	sharmaA@natsgcs.co.uk akhil@aks-cs.demon.co.uk

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

CCB Chair	Tamalet, Stephane	STNA	7 Av Dr M Grynfogel B.P.1084 31035 Toulouse, Cedex, FRANCE	33-5-62-14-54-83 33-5-62- <b>14-54-01</b>	tamalet_stephane@ccmail.dgac.fr
	Van Trees, Steve	Stanford Telecom	1761 Business Center Drive Reston, VA 22090 USA	1-703-438-8014 1-703-438-8112	vantrees@sed.stel.com
	Yee, Lockett	FAA/AND-650	800 Independence Ave SW, Washington DC 20591, USA	1-202-358 5106 1-202-358 5092	lockett.yee@mail.hq.faa.gov

**25. Appendix B - List of Working Papers**

<b>No.</b>	<b>Title</b>	<b>Presented By</b>	<b>Agenda Item</b>
366	Proposed Objectives, Schedule & Planning	A Sharma	1
367	Design of a Scaleable FAA ATN Internet Architecture	S Van Trees	6
368	Editorial Corrections to Sub Volume 5 of draft ATN SARPs	A. Sharma <sup>1</sup>	4
369	AMCP Response on the Use of Priority 14	A. Sharma	4
370	CIDIN as an ATN Subnetwork - Proposal to Extend the ATN ICS Guidance Material	A Herber	5
371	Proposed Draft SARPs Corrections Concerning Subnetwork Priority Mapping	A Herber	4
372	Internet Communications Service Requirements Database	M Adnams	4
373	Proposal to remove a note in Sub-Volume 5	S Van Trees	4
374	IDRP Large Scale Simulation Study: Summary of Results	T Kircher	6
375	ATN to Mobile Subnetwork Priority Mapping	R Jones	4
376	EUROCONTROL ATN Reference Facility Project: Proposal for ATN SARPs and GM to take into account Requirements for Testing ATN Systems	M Adnams	8
377	ATN SARPs, Sub-Volume 5, Proposed Version 7.0, 23rd January 1997	B Cardwell	4
378	Changes Made to Word 6, Version 6 to bring it in line with WordPerfect ICAO Version 1.0	B Cardwell	4
379	ATNP CCB Procedures Document		7
380	ATNP/2-WP/67 - Report on Agenda Items 5 and 6 (Future Work)	A. Sharma	8
381	ATNP/2-WP/67 - Extract from Report on Agenda Item 3 relevant to SV5 (Pages 3-21 to 3-26)	A. Sharma	6
382	WG2 CCB Status Report	S Tamalet	4
383	Comments on Sub Volume 5 SARPs Guidance Material	S Van Trees	5
384	EUROCONTROL ATN Project Overview and Strategy (IP)	M Adnams	N/A
385*	A Summary of the ADS Europe Final Trials Report	B Cardwell	6
386	Reporting of ATN SARPs Validation Status	R Jones	6

\* - Information Paper

---

<sup>1</sup> on behalf of M Paydar

**26. Appendix C - Meeting Agenda**

<b>0.</b>	<b>Meeting Organisational Issues</b>	
<b>1.</b>	<b>Approval of Agenda and Objectives</b>	<b>366</b>
<b>2.</b>	<b>Issues from ATN Panel Secretary and Related Bodies</b>	
<b>3.</b>	<b>Approval of the Alexandria WG2 Meeting Report</b>	
<b>4.</b>	<b>Review of proposed amendments to Internet Communications Service draft SARPs</b>	<b>368, 369, 371, 372, 373, 375, 377, 378, 382</b>
	- Report of WG2 CCB Activities	
	- Status of ICS Database	
<b>5.</b>	<b>Review of proposed amendments to the Internet Communications Service draft Guidance Material</b>	<b>370, 383</b>
	- Report of WG2 CCB Activities	
	- Status of ICS Database	
<b>6.</b>	<b>Review of Internet SARPs Validation Results</b>	<b>381, 367, 374</b>
<b>7.</b>	<b>ATNP CCB Procedures</b>	<b>379</b>
<b>8.</b>	<b>Future Work Plan</b>	<b>380</b>
<b>9.</b>	<b>Any Other Business</b>	<b>384</b>
<b>10.</b>	<b>Conclusions and Action List</b>	



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

**27. Appendix D - Action List**

<b>REF.</b>	<b>DELIVERABLE</b>	<b>Actionee</b>	<b>Complete by</b>
	<b>MELBOURNE WG</b>		
	<b>TOULOUSE WG</b>		
	<b>FAIR OAKS WG</b>		
	<b>ROME WG</b>		
	<b>BANFF WG</b>		
	<b>BRISBANE WG</b>		
7/22	Propose format for NSAP address repository on CENA archive	JM CRENAIS	Ongoing
	<b>BRUSSELS WG</b>		
8/7	Continue Simulation work to determine optimum value for congestion management beta value.	MR. HOF	Ongoing
	<b>MUNICH WG</b>		
	<b>ALEXANDRIA WG</b>		
	<b>PHUKET WG</b>		
11/1	Modify "WG2 CCB "Procedures Document to clarify its interface with the ATNP CCB procedure	K-P Graf, J-M Crenais, P Hennig	ASAP
11/2	Clarify interaction between ATNP CCB and "WG2 SDM" regarding the handling of -1 maintenance and -2 new text.	K-P Graf, J-M Crenais, P Hennig	See FL #1 ASAP
11/3	Input paper to next meeting on possible ATN sub-sets as described in ATNP/2 Report.	S Van Trees	WG2-12
11/4	Submit an IP on existing Fast Byte Standards/Protocols	S Van Trees	WG2-12
11/5	Submit information or offer deletion of future work item on investigation into provision of broadband transport	S Van Trees	WG2-12
11/6	Investigate the impact of the routing data traffic (IDRP ISHs) over the AMSS subnetwork in order to estimate the volume of ATN data with priority 14 on the AMSS subnetwork.	T Kircher	WG2-12
11/7	Response to ATNP/2 report item 5.1.3, "review/evaluation of AMCP VDL Mode 3 design" (ATNP/2-WP28)	A Herber	WG2-12
11/8	Report on progress of development of HF datalink SARPs by AMCP	C Pelligrino	WG2-12
11/9	Propose use of Type 2 BISPDU Authentication of IDRP data for CNS/ATM-2 SARPs	M Adnams	WG2-12
11/10	Submit a WP on impact of use of multicast	S Van Trees	WG2-12