



International Civil Aviation Organization

**Aeronautical Telecommunication Network/Internet
Protocol Suite Working Group**

**Fourth Meeting (ATN/IPS WG/4)
(Cairo, Egypt, 21 - 23 May 2012)**

Agenda Item 3: Review and update MID ATN plans and implementation issues

OUTCOME OF ACP WGI-14 AND WGM-18

(Presented by the Secretariat)

SUMMARY

This paper presents the main outcome of the ACP WGI-14 and WGM-18 meetings for consideration in MID ATN.

Action by the meeting is at paragraph 3.

REFERENCES

– ACP WGI-14 and WGM-18 reports

1. INTRODUCTION

1.1 The Working Group I (IPS) meeting of Aeronautical Communication Panel (ACP WGI-14) was held from 18 to 20 July 2011 in Montreal, Canada. Meeting reviewed and discussed 8 Working papers and 12 Information papers related to the implementation of AMHS over Internet Protocol Suite.

1.2 The Aeronautical Communication Panel (ACP) Working Group M – Maintenance held its Eighteenth meeting (ACP WGM-18) in Montreal, Canada from 20 to 22 July 2011.

2. DISCUSSION

2.1 Below is brief if the outcome of ACP WGI-14 and WGM-18.

Working Group I (IPS) Meeting

Directory Services

ACP Working Group I, while discussing issues related to the provision of Directory Services, concentrated on the following three main issues:

- a) the origin of this requirement was unclear;
- b) the new text mixed statements of requirement with guidance material; and
- c) X.500 Directory Services when implemented over the IPS allows inadvertent changes to be made which can have a system-wide impact. Methods to control such changes have to be worked out.

Regarding the 1st item, it emerged that the requirement was generated in WG-M in order to support AMHS. The concept of operation of Directory Services had not been completed and hence published at this time. Meeting assigned the task of developing concept of operations for Directory Services by the WG meeting.

On the 2nd item, it was agreed that much of the material actually should have remained in Doc 9880 from where it was lifted.

On 3rd item, it was agreed that it was premature to include reference Directory Services at this time. It was further agreed that once a concept of operations was developed and clear guidance on its implementation over IPS was available, both i) the technical provisions for the support of Directory Services over IPS and ii) guidance material on its use and implementation could be included in Doc 9896.

Voice over IP (VoIP)

To accommodate FAA's operational requirements, it was agreed that recommendations will be specified in Part III of ICAO Doc 9896 and these requirements will be withdrawn after ED 137A is updated to include FAA requirements. Meeting was reminded that the Manual for the ATN using IPS Standards and Protocols (ICAO Doc 9896) contains following parts:

Part I – Detailed Technical Specifications: - containing general description of ATN/IPS including network, transport and security requirements^{*****}

- Part II – Application Support: - containing a description of applications supported on ATN/IPS including convergence mechanism and application services that allow the operation of legacy ATN/OSI applications over the ATN/IPS transport layer

- Part III – Guidance: - contains guidance material on ATN/IPS including information on architecture, and general information to support ATN/IPS implementation. It was agreed that new section 7,2 to Part III should be added with the following sub-sections:

- Section 7.2.1 Radio
- Section 7.2.2 Telephony

Documents evolution:

Explaining the structure of VoIP related documentation, meeting was informed about following salient points:

- a) Document ED-137 would be split into four independent volumes; and
- b) A new edition of ED-137 is planned for the end of 2012

Informing the meeting about the outcome of FAA VoIP 'Interoperability Event' with multiple vendors for interoperability test, following significant observations were presented:

- a) Overall high percentages of interoperability achieved during the test sessions; and
- b) This demonstrates a very high level of confidence by all participating vendors in the standards being used.

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the work progress in ACP and consider same when updating MID plans.