AERONAUTICAL TELECOMMUNICATIONS NETWORK PANEL

ATN Internet Working Group (WG2)

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Proposed Structure for
Internet CNS/ATM-1 Package SARPs & Guidance Material
"Product 2"

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Summary

The highest priority WG activity is the development of SARPS and Guidance Material for the internet component of the CNS/ATM-1 Package (i.e Product 2). The WG agreed (based on proposals contained in WG2-WP/2) at its first meeting that this product would be "derived" from the version n.o draft SARPs and Guidance Material. This paper proposes a high level structure for the internet component of the CNS/ATM-1 Package SARPs and the WG is invited to review, comment and further detail the proposal.

1.   Introduction

The highest priority WG activity is the development of SARPS and Guidance Material for the internet component of the CNS/ATM-1 Package (i.e Product 2). The WG agreed (based on proposals contained in WG2-WP/2) at its first meeting that this product would be "derived" from the version n.o draft SARPs and Guidance Material. This paper proposes a high level structure for the internet component of the CNS/ATM-1 Package SARPs and the WG is invited to review, comment and further detail the proposal.

2.   Proposed Structure for the internet component of the CNS/ATM-1 Package SARPs & Guidance Material

2.1   Internet CNS/ATM-1 SARPs Outline

1.   Architecture SARPs

1.1   System Architecture

1.2   Routing Initiation

1.2.1   Routing Initiation over Fixed Networks

1.2.1   Routing Initiation over Mobile Subnetworks

1.3   Routing Policy

1.4   Security Policy

1.5   Quality of Service & Prtiority Policy

1.6   Systems Management Policy

2.   Services[1] and Protocols

2.1   Internet Transport Layer

2.1.1   Internet Transport Service

2.1.2   Internet Transport Protocol

2.1.2.1 Internet Transport Connection Oriented Protocol (Class 4)

2.1.2.2 Internet Transport Connectionless Protocol

2.2   Internet Network Layer

2.2.1   Network Layer Service

2.2.2   Connectionless Network Layer Protocol

2.2.3   Mobile Subnetwork Dependent Convergence Function (SNDCF) Service

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[1] The question of whether it is appropriate for ICAO SARPs to specify requirements which may not be testable, as in the case of service requirements, needs to be addressed by the WG.

2.2.4   Mobile Subnetwork Dependent Convergence Function (SNDCF) Protocol

2.2.5   Mobile Subnetwork Service

2.2.6   Routing Information Exchange Protocols

2.2.6.1 Inter-Domain Routing Protocol

2.2.6.2 End System to Intermediate System Routing Information Exchange Protocol

2.2.6.3 Intra-Domain Routing Information Exchange Protocol

2.2.7   Systems Management

2.1   Internet CNS/ATM-1Guidance Material Outline

It is proposed thet the structure of the guidance material mirror that of the proposed structure for the SARPs as proposed above, with the exception that the ATN Operating Concept be included at the beginning.

3.   Proposals

The WG is invited to:

a.   review and comment on the proposed structure for the internet component of the CNS/ATM-1 Package SARPs and Guidance Material;

b.   initiate action to identify those components of the draft ATN SARPs and Guidance Material that are to be included in the CNS/ATM-1 SARPs and Guidance Material.