ATNP/WG2/WP178

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Aeronautical Telecommunication Network Panel

Working Group 2

Banff, Alberta, Canada

CNS/ATM-1 Internet Service Requirements

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Abstract
ATNP/WG3/SG2 is pleased to respond to the WG2 flimsy seeking CNS/ATN-1 Package ATN internet service requirements.

ATNP/WG3/SG2 (Air-Ground Applications)

Canberra, 7-11 August 1995

Flimsy 4

Data Link Application Use of the ATN Internet Services

The Air-Ground Applications subgroup welcomes the opportunity to review the liaison from WG2 containing the Internet Service Description. The Air-Ground Applications Subgroup returns the following flimsy to clarify our use of the ATN internet service.

The Air-Ground Applications subgoup also forwards this flimsy to SG3 (the ULA group) for inclusion of the following in the QOS parameter in the D-START primitive.

1. In the following discussion, the Dialogue Service provided by the ULA is the TS user. The ATN internet is the TS provider.

2. The TS user will always provide the called and calling TSAP address;

3. The TS user will never request the expedited data option. SG2 notes that the ATN ULA has removed the Session functional unit that has access to the transport expedited data.

4. All CNS/ATM-1 applications require the ADSP residual error rate (RER) of 10^{-7}. SG2 notes that Chapter 8 indicates that this RER requires the transport checksum.

5. SG2 will provide the Application Service Priority to be mapped into the resulting CLNP NPDUs as follows:

ADS: Normal Priority Flight Safety Messages (CLNP 10)

CPDLC: Normal Priority Flight Safety Messages (CLNP 10)

CMA: Flight Regularity Communications (CLNP 8)

FIS: Aeronautical Information Service Messages (CLNP 7)

6. The CNS/ATM-1 Traffic Type for all applications is ATN Operational Communications. The Traffic Category (Sub-type) is Air Traffic Services Communications (ATSC). The Class of Communications Service is set to default to No Traffic Type Policy Preference [000 0001]. The ATN ULA is configured for Application User specification of Class of Communications Service from Class A to Class H. That is, the application will pass the actual Security Tag Value.

Traffic Type	Category	Security Tag Value	Semantics
ATN Operational Communications	Air Traffic Service Communications (ATSC)	000 00001	No Traffic Type Policy Preference
		000 10000	Traffic only follows Class A ATSC route(s).
		000 10001	Traffic only follows Class B ATSC route(s).
		000 10010	Traffic only follows Class C ATSC route(s).

Traffic Type	Category	Security Tag Value	Semantics
		000 10011	Traffic only follows Class D ATSC route(s).
		000 10100	Traffic only follows Class E ATSC route(s).
		000 10101	Traffic only follows Class F ATSC route(s).
		000 10110	Traffic only follows Class G ATSC route(s).
		000 10111	Traffic only follows Class H ATSC route(s).

7. Actions arising from the Flimsy

7.1 ATNP/WG2 is requested to provide the quantitative values associated with the Traffic Types Class A-H.

7.2 ATNP/WG3/SG3 is requested to incorporate the above information into both the QOS field of the D-START service specification, and the QOS discussion in the ULA SARPs. [Action completed]