

QUESTION ITU-R 263-1/4

Performance objectives of digital links in the fixed-satellite service for transmission of Internet or higher layer Protocol packets

(1999-2006)

The ITU Radiocommunication Assembly,

considering

- a) that fixed-satellite systems are part of the new global information infrastructure (GII);
- b) that availability and performance criteria for transmission of Internet Protocol (IP) packets may have an impact on satellite link design;
- c) that new requirements for IP or higher layer protocols and applications are constantly appearing which may have an impact on satellite link design;
- d) that transmission of IP packets on satellite links may require performance objectives different from those contained in ITU-T Recommendation G.826 and Recommendations ITU-R S.1062 and ITU-R S.1420;
- e) that the required system capacity and access schemes must be considered in the design and planning of IP-based networks in the FSS,

decides that the following Question should be studied

- 1** What are the reference satellite network architectures required to support IP?
- 2** What is the performance required of satellite links to support network layer protocols, the Internet specific protocols and transport layer protocols running over IP?
- 3** What is the performance required of satellite links to support, for example voice, video, videotelephony and file transfer running over IP?
- 4** What are the needs for potential improvements to IP or higher layer protocols within the IP layer model that enhance their performance over satellite links?
- 5** What impact do IP privacy and security protocols and related issues have on satellite link requirements?
- 6** What arrangements should be made by the ITU-R to offer the most appropriate liaison with the ITU-T and other standards bodies (for example the IETF)?

7 What are the required system capacity and access schemes that must be considered in the design and planning of IP-based networks in the FSS?

further decides

1 that the above studies should be completed by 2008.

Category: S1

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