



## *Radiocommunication Bureau*

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Administrative Circular  
CACE/388

31 May 2006

### **To Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of the Radiocommunication Study Groups and the Special Committee on Regulatory/Procedural Matters**

**Subject: Radiocommunication Study Group 4**

- **Approval of 2 revised ITU-R Questions**
- **Suppression of 3 ITU-R Questions**

By Administrative Circular CAR/210 of 16 February 2006, 2 draft revised ITU-R Questions were submitted for approval by correspondence in accordance with Resolution ITU-R 1-4 (§ 3.4). In addition, the Study Group proposed the suppression of 3 ITU-R Questions.

The conditions governing these procedures were met on 17 May 2006.

The texts of the approved Questions are attached for your reference (Annexes 1 and 2) and will be published in Addendum 3 to Document 4/1 which contains the ITU-R Questions approved by the 2003 Radiocommunication Assembly and assigned to Radiocommunication Study Group 4. The Questions for suppression are indicated in Annex 3.

Valery Timofeev  
Director, Radiocommunication Bureau

**Annexes: 3**

Distribution:

- Administrations of Member States and Radiocommunication Sector Members
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups and Special Committee on Regulatory/Procedural Matters
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- ITU-R Associates in the work of Radiocommunication Study Group 4
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

## ANNEX 1

### QUESTION ITU-R 73-2/4\*

#### **Availability and interruptions to traffic on digital paths in the fixed-satellite service**

(1992-1993-2006)

The ITU Radiocommunication Assembly,

*considering*

- a) that unwanted interruptions, including high-level bursts of noise, occur in satellite links;
- b) that such interruptions contribute to unavailability when they exceed 10 consecutive seconds, and are regarded as “short breaks” if they last for shorter periods;
- c) that the ITU-T and ITU-R objectives for availability and short breaks have a major bearing on the economics of satellite systems;
- d) that the duration of some interruptions may depend on the configuration of the satellite network; they may also depend on whether earth stations are always attended or unattended at the onset of an interruption, and on whether or not earth station antennas are readily steerable to point from one satellite to another;
- e) that Telecommunication Standardization Study Group 13 will continue to provide guidance and interpretation on overall network performance characteristics to Radiocommunication Study Group 4 as it relates to the fixed satellite service,

*decides* that the following Question should be studied

- 1 What are the important factors within the satellite portion of hypothetical reference digital paths affecting their availability and short interruptions such as breaks in transmission or bursts of bit errors?
- 2 What should be the objectives, given the overall network objectives, for satellite radio digital path availability for satellite systems which are not included under Recommendation ITU-R S.579?
- 3 What should be the satellite system objectives, given the overall network objectives, for the duration, distribution, and frequency of occurrence of short breaks in transmission and of short duration bursts of errors, between points defined by the satellite radio hypothetical reference digital path?

*further decides*

that the results of these studies should lead to the formulation of an appropriate Recommendation by 2007.

Category: S2

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\* This Question should be drawn to the attention of Telecommunication Standardization Study Group 13.

## ANNEX 2

### 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

## ANNEX 3

### List of suppressed ITU-R Questions

Question ITU-R	Title
76-1/4	Voice and data signal processing for international digital transmission links in the fixed-satellite service
201-1/4	Digital satellite systems in the fixed-satellite service in synchronous transport networks based on the Synchronous Digital Hierarchy
262/4	Allowable error performance and availability degradations of fixed-satellite service systems due to long and short-term effects

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