



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
DEVELOPMENT BUREAU**
ITU-D STUDY GROUPS

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FIRST MEETING OF STUDY GROUP 1: GENEVA, 10 - 12 SEPTEMBER 1998
FIRST MEETING OF STUDY GROUP 2: GENEVA, 7 - 9 SEPTEMBER 1998

Question 9/2: Identify study group Questions in the ITU-T and ITU-R Sectors which are of particular interest to developing countries and systematically, by way of annual progress reports, inform them of the progress of work on the Questions to facilitate their contributions to the work on those Questions as well as, ultimately, to benefit from their outputs in a timely manner

STUDY GROUP 2

SOURCE: ITU-R STUDY GROUP 4

TITLE: LIAISON STATEMENT TO THE TELECOMMUNICATION DEVELOPMENT BUREAU (BDT) AND ITU-D STUDY GROUP 2

The following Question is brought to the attention of ITU-D Study Group 2.

Title	Rec No.	Attention of
Sharing criteria for systems in the fixed-satellite service using the same frequency bands with stratospheric high density systems in the fixed service	251/4	ITU-D SG 2

QUESTION ITU-R 251/4*

**SHARING CRITERIA FOR SYSTEMS IN THE FIXED-SATELLITE SERVICE USING
THE SAME FREQUENCY BANDS WITH STRATOSPHERIC HIGH
DENSITY SYSTEMS IN THE FIXED SERVICE**

(1997)

The ITU Radiocommunication Assembly,

considering

- a) that new technology utilizing telecommunication stations located at fixed points in the stratosphere is being developed;
- b) that systems utilizing one or more stations located at fixed points in the stratosphere may possess desirable attributes for high-speed broadband digital communications with extensive frequency reuse;
- c) that such systems would be able to provide coverage to high density metropolitan regions or neighbouring countries with high elevation angles and short path lengths, and to outlying rural areas with low elevation angles but without reducing capacity;
- d) that broadband digital services provided by such stratospheric high density systems in the fixed service (FS) are intended to provide ubiquitous consumer-oriented communications information infrastructures;
- e) that stratospheric systems in the FS may be deployed in bands shared with the systems in the fixed-satellite service (FSS);
- f) that it is necessary to study sharing criteria between stratospheric systems in the FS and systems in the FSS, particularly taking into account the full range of elevation angles used by such systems,

decides that the following Question should be studied

- 1** What are the preferred sharing criteria for interference between systems in the FSS and stratospheric systems in the FS using the same frequency bands?
- 2** What are the interference calculation methods needed to analyse the potential interference and stratospheric systems in the FS and systems in the FSS using the same frequency bands?
- 3** How should attenuation by atmospheric gases be taken into account in interference assessment?

* This Question should be brought to the attention of Telecommunication Development Study Group 2.

4 What are the suitable frequency bands for sharing between stratospheric systems in the FS with the FSS?

further decides

1 that the above mentioned studies should be completed by 1999.

NOTE 1 – This Question is complementary and related to Question ITU-R 218/9.
