



INTERNATIONAL TELECOMMUNICATION UNION

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

**Document 2/035-E
12 August 1998
Original: English**

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 1

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
Monitoring of the radio coverage of land mobile networks to verify compliance with a given license	215/1	- ITU-R SG 8 - ITU-D SG 2

QUESTION ITU-R 215/1*

**MONITORING OF THE RADIO COVERAGE OF LAND MOBILE NETWORKS TO
VERIFY COMPLIANCE WITH A GIVEN LICENSE**

(1997)

The ITU Radiocommunication Assembly,

considering

- a) that the number of mobile networks using different modulation types and access techniques (code division multiple access (CDMA), time division multiple access (TDMA), frequency division multiple access (FDMA)) is increasing world-wide;
- b) that in order to ensure efficient use of the spectrum some administrations may specify in their licence conditions that networks must fulfill certain requirements including:
 - geographical coverage;
 - minimum field strength values for different mobile terminals (built-in, portable, hand-held);
 - minimum sensitivity level (system-specific);
 - maximum bit error rate (BER) values;
 - channel impulse response (CIR);
 - carrier-to-interference ratio (C/I);
- c) that these administrations may be interested in verifying compliance with licence conditions;
- d) that some simulation tools have already been developed to determine radio coverage,

noting

- a) that it might be appropriate to use field strength planning and simulation tools to predict radio coverage;
- b) the results of Radiocommunication Study Group 8 related to Question ITU-R 5/8 - The introduction of direct-printing telegraph equipment in the maritime mobile service.

decides that the following Question should be studied

- 1** Which technical parameters would have an impact on the radio coverage of mobile networks and hence may be defined in a licence?
- 2** Which common set of technical parameters could be used for different technologies to determine radio coverage?

* This Question should be brought to the attention of Radiocommunication Study Group 8 and Telecommunication Development Study Group 2.

3 How radio coverage can be measured in a simple, cost-effective and repeatable way?

further decides

1 that the results of the above studies should be included in (a) Recommendation(s);

2 that the above studies should be completed by the year 2000.
