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Administrative Circular  
CAR/218

8 September 2006

## To Administrations of Member States of the ITU

**Subject:** Radiocommunication Study Group 8  
– Proposed approval of 1 draft revised Recommendation

At the meeting of ITU-R Study Group 8 (Mobile, radiodetermination, amateur and related satellite services) held on 21 and 22 November 2005, the Study Group decided to seek adoption of 1 draft revised Recommendation by correspondence, according to § 10.2.3 of Resolution ITU-R 1-4.

As stated in Circular letter 8/LCCE/148, dated 27 April 2006, the consultation period for the Recommendation ended on 27 June 2006.

The Recommendation has now been adopted by Study Group 8 and the approval procedure of Resolution ITU-R 1-4 § 10.4.5 is to be applied, noting the interim procedures recommended by the RAG at its meeting in November 2004\*. The title and summary of the Recommendation are given in Annex 1.

Having regard to the provisions of § 10.4.5.2 of Resolution ITU-R 1-4, you are requested to inform the Secretariat ([brsgd@itu.int](mailto:brsgd@itu.int)) by 8 December 2006 whether your Administration approves or does not approve the draft Recommendation.

A Member State who indicates that the draft Recommendation should not be approved is requested to advise the Secretariat of the reason and to indicate possible changes in order to facilitate further consideration by the Study Group during the study period (§ 10.4.5.5 of Resolution ITU-R 1-4).

After the above-mentioned deadline, the results of this consultation will be notified in an Administrative Circular and arrangements made for the approved Recommendation to be published in accordance with § 10.4.7 of Resolution ITU-R 1-4.

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\* See Administrative Circular [CA/145](#).

Any ITU member organization aware of a patent held by itself or others which may fully or partly cover elements of the draft Recommendation(s) mentioned in this letter is requested to disclose such information to the Secretariat as soon as possible. The “Statement on Radiocommunication Sector Patent Policy” is contained in Annex 1 of Resolution ITU-R 1-4.

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Director, Radiocommunication Bureau

Annex: Title and summary

Document attached:  
Document 8/BL/35 on CD-ROM

Distribution:

- Administrations of Member States of the ITU
- Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 8
- ITU-R Associates participating in the work of Radiocommunication Study Group 8

## ANNEX 1

### **Title and summary of the draft Recommendation adopted by Radiocommunication Study Group 8**

Draft revision of Recommendation ITU-R M.1457-5

Doc. 8/BL/35

### **Detailed specifications of the radio interfaces of International Mobile Telecommunications-2000 (IMT-2000)**

#### **Summary of the revision**

This modification of Recommendation ITU-R M.1457 is intended to keep the specified technologies of IMT-2000 up-to-date. The main changes include, for the terrestrial component of IMT-2000, the addition of enhanced capabilities for each of the radio interfaces, and some consequential changes to the overview sections of the text; for the satellite component, an update of satellite radio interface C and the addition of a new satellite radio interface.

With reference to the terrestrial component, in accordance with the established procedure for updating this Recommendation, the SDO's information in §5.x.2 (Document No., Version, Status, Issued date and Location) has not been included at this stage. This information will be submitted by 31 May 2006 and included in tables for each sub-section of § 5.X.2 as an editorial action in the final text when it is sent out for approval.

#### **Modifications**

The modifications are as follows:

*Terrestrial component (Section 5):*

- **IMT-2000 CDMA Direct Spread and IMT-2000 CDMA TDD (Sections 5.1 & 5.3)**  
The main purpose of this update is to align Rec. ITU-R M.1457 to the most updated versions of the Specifications of IMT-2000 CDMA Direct Spread and IMT-2000 CDMA TDD, including an additional feature of Release 6, i.e, the inclusion of the 2.6 GHz, 1 700 MHz, and 900 MHz bands for IMT-2000 CDMA Direct Spread. Sections 5.1.1 and 5.3.1 were reviewed and a few amendments proposed in order to ensure full consistency.
- **IMT-2000 CDMA Multi-Carrier (Section 5.2)**  
The proposed update provides modifications to the Global Core Specification and Section 5.2.2 only. Incremental additions to the GCS have been added in line with the previous submission of CDMA Multi Carrier.

- IMT-2000 TDMA Single-Carrier (Section 5.4)

This proposed update to TDMA Single Carrier is a product of the inclusion of the Release 6 GSM/EDGE Radio Access Network (GERAN) resulting in:

- Multimedia broadcast/Multicast service.
- Flexible layer one.
- Adaptive multi-rate wideband codec.
- Packet switched domain handoff.
- Downlink receiver performance improvement.
- Providing further service transparency with CDMA Direct Spread.

This update consists of a GCS composed of TIA/EIA-136 Revision F American National Standards developed by TIA TR-45.3 and 3GPP specifications transposed to ATIS standards by the Wireless Technologies and Systems Committee (WTSC).

- IMT-2000 FDMA/TDMA (Section 5.5)

All the previous features are maintained. The major additions are:

- A more detailed specification of the multi-carrier operation, which allows to further increase the data rates.
- An extension of the IP-access specification covering multi-media sessions.
- Additions for the support of messaging services.

All improvements are done in a backwards compatible manner.

*Satellite component (Section 6):*

- Modify the IMT-2000 satellite radio interface C (SRI-C). This modification adds the geostationary orbit as a possible orbit for that interface, as well as some new services (Multicast). Section 6.3.3 of Recommendation ITU-R M.1457 is modified accordingly.
- Add a new IMT-2000 satellite radio interface G (SRI-G). This interface is based on the use of CDMA-DS/W-CDMA. An evaluation of the proposed new interface has been carried out in accordance with Resolution ITU-R 47. The detailed description of the interface is included in new Section 6.3.8.

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