



Radiocommunication Bureau
(Direct Fax N°. +41 22 730 57 85)

**Administrative Circular
CAR/314**

25 March 2011

To Administrations of Member States of the ITU

Subject: Radiocommunication Study Group 5

- **Proposed adoption of 1 draft revised Recommendation and its simultaneous approval by correspondence in accordance with § 10.3 of Resolution ITU-R 1-5 (Procedure for the simultaneous adoption and approval by correspondence)**

At the meeting of Radiocommunication Study Group 5, held on 22 and 23 November 2010, the Study Group decided to seek adoption of 1 draft revised Recommendation by correspondence (§ 10.2.3 of Resolution ITU-R 1-5) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA), (§ 10.3 of Resolution ITU-R 1-5). The title and summary of the draft Recommendation is given in the Annex.

The consideration period shall extend for 3 months ending on 25 June 2011. If within this period no objections are received from Member States, the draft Recommendation shall be considered to be adopted by Study Group 5. Furthermore, since the PSAA procedure has been followed, the draft Recommendation shall also be considered as approved. However, if any objection is received from a Member State during the consideration period, the procedures given in § 10.2.1.2 of Resolution ITU-R 1-5 shall apply.

After the above-mentioned deadline, the results of the PSAA procedure shall be announced in an Administrative Circular (CACE) and the approved Recommendations published as soon as practicable.

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 Common Patent Policy for ITU-T/ITU-R/ISO/IEC is available at <http://www.itu.int/ITU-T/dbase/patent/patent-policy.html>.

François Rancy
Director, Radiocommunication Bureau

Annex: Title and summary of the draft Recommendation

Document attached: Document 5/213(Rev.1) on CD-ROM

Distribution:

- Administrations of Member States of the ITU
- Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 5
- ITU-R Associates participating in the work of Radiocommunication Study Group 5

Annex

Title and summary of the draft Recommendation

Draft revision of Recommendation ITU-R M.1457-9

Doc. 5/213(Rev.1)

Detailed specifications of the terrestrial 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 the terrestrial component of IMT-2000 up to date. The main changes include the addition of enhanced capabilities for some of the radio interfaces, and some consequential changes to the overview sections of the text, as well as to the Global Core Specifications.

Modifications

The modifications are as follows:

- Sections 1-5 – no change.
- IMT-2000 CDMA Direct Spread and IMT-2000 CDMA TDD (sections 5.1 and 5.3)

The main purpose of this update is to align Recommendation ITU-R M.1457 to the most updated versions of the specifications of IMT-2000 CDMA DS and IMT-2000 CDMA TDD. Sections 5.1.1 and 5.3.1 were reviewed and some amendments proposed in order to ensure full consistency. In addition, the structure of sections 5.1.2 and 5.3.2 was modified by merging the sections devoted to core network and terminals; in particular, this list of specifications was updated focusing on the basic call handling in CS (including mobility management), interworking towards IMS, attach and registration to PS/EPS (including mobility management), registration and service activation in IMS, supplementary services for CS and IMS, and call/session continuity specifications between UTRAN and EUTRAN.
- IMT-2000 CDMA Multi-Carrier (section 5.2)

The proposed update provides enhanced CDMA MC air interface (TDD) specification and editorial modifications to Revision 8 of the technical summary of IMT-2000 CDMA MC as well as additional technical summary corresponding to its recent enhancements. The proposed section 5.2.2 also provides more specifications related to the IMT-2000 CDMA MC and additional specifications of its enhancements.

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

This proposed update to TDMA-SC is a product of further refinements of the latest Release 8 GSM/EDGE Radio Access Network (GERAN) specifications containing enhanced GPRS phase 2 (EGPRS2) which provides the additional features:

- Increased symbol rate and higher order modulation improvements in uplink and downlink.
- Receiver diversity.
- Dual Carrier configuration.
- Latency reductions.
- Enhanced Generic Access Network (GAN) improvements.
- Conversational services over A/Gb interface.
- Location services improvements including support for both satellite positioning systems.
- Voice capacity evolution

This update consists of a GCS composed of TIA/EIA-136 Revision H 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 DECT features are maintained. The major additions are:

- Completion of the fourth application profile for ‘New Generation DECT’ which specifies some data services such as software update over the air, content downloading and the support of HTTP based applications.
- Update of the third application profile for ‘New Generation DECT’ which specifies the interoperable implementation of extended services for wideband speech. The higher bandwidth greatly improves the quality of the voice signal. One typical usage scenario of this feature is voice over IP.
- The base standard has been updated to include the necessary protocol elements for the new services.
- The “DECT Packet Radio Service” standard has been updated to improve the efficiency of the data transfer.

All improvements are done in a backwards compatible manor.

- IMT-2000 OFDMA TDD WMAN (section 5.6)

The main purpose of this update is to align Recommendation ITU-R M.1457 to the most updated versions of the specifications underlying the radio interface IMT-2000 OFDMA TDD WMAN. The main enhancement is the addition of the multihop relay specification in IEEE Std 802.16j-2009.

- Section 6 and Annex – no change.