

**DOCUMENT APPROVED BY IWG-3 FOR CONSIDERATION  
BY THE WRC-07 ADVISORY COMMITTEE**

**IWG-3/WRC-07/Proposal/Doc.2r1  
May 21, 2004**

**UNITED STATES  
PRELIMINARY VIEWS ON WRC-07**

**WRC-2003 Agenda Item 1.4:** to consider frequency-related matters for the future development of IMT-2000 and systems beyond IMT-2000 taking into account the results of ITU-R studies in accordance with Resolution **228 (Rev.WRC-03)**;

**ISSUE:** Resolution **228 (Rev.WRC-03)** invited the ITU-R to further study the technical and operational issues associated with the future development of IMT-2000 and systems beyond IMT-2000 and to develop reports and recommendations as required in time for WRC-07. In particular, the Resolution invited the ITU-R to:

- Report the results of studies on spectrum requirements and potential frequency ranges that take into account:
  - the evolving user needs, including the growth in demand for IMT-2000 services;
  - the evolution of IMT-2000 and pre-IMT-2000 systems through advances in technology;
  - the bands currently identified for IMT-2000;
  - the time-frame in which spectrum would be needed;
  - the period for migration from existing to future systems;
  - the extensive use of frequencies below those identified for IMT-2000 in No. 5.317A;
- And to conduct studies that consider:
  - the use of frequencies below those currently identified
  - the needs of developing countries, including the use of the satellite component of IMT-2000, for suitable coverage in these countries
  - the results of sharing and compatibility studies with services to which the potential bands are already allocated

**BACKGROUND:** WARC-92 identified the 1885-2025 MHz and 2110-2200 MHz bands (230 megahertz of spectrum) allocated to the mobile service for possible use on a worldwide basis by administrations wishing to implement IMT-2000 systems in footnote 5.388. Additionally, WRC-2000 identified the 806-960 MHz band in footnote 5.317A and the 1710-1885 MHz and 2500-2690 MHz bands in footnote 5.384A for possible IMT-2000 use. Each administration would decide which portions of the identified bands to use for IMT-2000.

## Agenda WRC-2003

In Res. 228 WRC-2000 invited the ITU-R to continue studies on overall objectives, applications and technical and operational implementation for the future development of IMT-2000 and systems beyond. It was also invited to study spectrum requirements and potential frequency ranges suitable for the future development of IMT-2000 and systems beyond IMT-2000, and in what time frame such spectrum would be needed. Res. 228 also resolved that the future development of IMT-2000 and systems beyond are to be reviewed by WRC-07, taking into consideration the results of ITU-R studies presented to WRC-03. Those studies were not completed in time for WRC-03.

At WRC-03, Res. 228 was modified to invite the ITU-R to conduct and complete in time for WRC-07, the appropriate studies of technical and operational issues, including spectrum requirements and potential frequency ranges suitable for those systems and to develop appropriate Recommendations. This would enable any necessary action to be taken by WRC-07.

The need for the studies was driven by the perception that there may be a need for new spectrum to accommodate:

- the increasing demand for mobile services,
- the development of higher bandwidth technologies, and
- the potential to use mobile services to meet universal service requirements

WP 8F of ITU-R is developing Reports on service types and spectrum requirements. It is also developing a Recommendation that evaluates suitable frequency ranges, and in what timeframe such spectrum would be needed. WP 8F is in the process of developing the spectrum calculation methodology for systems beyond IMT-2000 and a new Recommendation on a spectrum calculation methodology that takes into account current systems, 3G systems, and systems beyond 3G. The completion of this work by WP 8F is planned for March 2006, so that the studies and Recommendation can be presented to WRC-07 for appropriate action.

**U.S. VIEW:** The US supports conducting and participating in the studies in WP8F to ensure that the appropriate methodology is employed; that anticipated services are reasonable and realistic; and that the estimate of spectrum needs is based on these reasonable methodologies/services.

In determining the need for additional spectrum, the US must protect existing services. The US should recognize the special needs of developing countries.

As studies are conducted in WP8F, the US will determine if it will support the identification of any additional bands for the deployment of these systems.

---