

TSG-RAN Meeting #21
Frankfurt, Germany, 16 - 19 September 2003

RP-030511

Agenda Item: 7.1.1
Source: ITU-R Ad Hoc Contact Person
Title: Possible contribution to ITU-R WP8F on the outcome of the feasibility study on the viable deployment of UTRA in additional and diverse spectrum arrangements
Document for: Discussion

INTRODUCTION

RAN#17 discussed how to submit to ITU the outcome of the Study Item on the viable deployment of UTRA in additional and diverse spectrum arrangements. It was agreed that: “when the Study is finished and conclusions are reached, a separate document has to be drafted by the ITU-R ad hoc group in RAN. This document will have to be approved by RAN and go to ITU through the PCG.”

ITU-R Ad Hoc discussed the issue by correspondence and this document tries to capture the outcome of the discussion and to propose a possible contribution for the next meeting of ITU-R WP8F. In particular, within ITU-R Ad Hoc it was not clear whether to attach the full Report 25.889 or only part of it. It is up to RAN to decide how to proceed.

BACKGROUND

The International Telecommunication Union Radiocommunication sector (ITU-R) and its Radiocommunication Assembly approved the draft revision of Recommendation ITU-R M.1036-1 in June 2003, as suggested by the ITU-R Working Party 8F (WP8F). This document has now acquired status as pre-published ITU Recommendation M.1036-2 “Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications-2000 (IMT-2000) in the bands 806-960 MHz, 1 710-2 025 MHz, 2 110-2 200 MHz and 2 500-2 690 MHz” and as such supersedes the preceding publications of this Recommendation

In spite of the new pre-published Recommendation, and in accordance with the Workplan of the ITU-R WP8F, the studies are continuing and would before long have to address the more detailed frequency arrangements with reference to the band 2500 - 2690 MHz. The particular spectrum arrangements in the band 2500 - 2690 MHz is being assigned to the WP8F Spectrum WG; “Spectrum matters related to IMT-2000” under the Chairmanship of Mr. Francisco Soares from ANATEL in Brazil.

The band 2500 - 2690 MHz was identified to IMT-2000 in the regulatory framework of the ITU-R Radio Regulations (RR) in the World Radiocommunication Conference in year 2000 (WRC - 2000) in Istanbul. In the studies of WP8F, the frequency band 2500-2690 MHz is foreseen as additional spectrum for IMT-2000. In order to ensure harmonised conditions and efficient use of

the above-mentioned spectrum, it is necessary to investigate and decide on detailed spectrum usage parameters, as well as whether or not, and to which extent the satellite component of IMT-2000 could use parts of this additional spectrum. The key points to be addressed are:

- ?? designation of the whole or parts of the band 2500 - 2690 MHz to IMT-2000 systems, subject to market demand and national licensing schemes;
- ?? designation of the whole or parts of the frequency band 2520 - 2670 MHz for use by terrestrial IMT-2000 systems;
- ?? detailed channelling arrangements for the whole band 2500 - 2690 MHz to IMT-2000 for possible alignment between the three ITU-R geographically defended Regions, as well as the particular:
 - ?? utilisation of the paired bands 2500 - 2520MHz / 2670 - 2690MHz in Europe;
 - ?? utilisation of the paired bands 2500 - 2535 MHz / 2655 - 2690 MHz in some Asia-Pacific countries;
 - ?? utilization of the band 2605 - 2655 MHz in some Asia-Pacific countries, and
 - ?? refarming in parts of the band in some countries in Americas.

PROPOSAL

In light of the above described text it is clear that the recently approved Technical Report (3GPP TR 25.889) entitled "Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements", is of very high value, and important to the 3GPP Members, to be included in the work of WP8F in order to assist ITU in the continued studies for detailed spectrum usage parameters in the band 2500-2690 MHz or any other frequency band and study that the WP8F finds relevant.

It is noted that for WP 8F to really benefit from the work of RAN, written proposals specific to the work of WP 8F need to be made. A possible contribution to the next meeting of ITU-R WP8F is attached as Annex 1.

ANNEX 1

[ITU Member]¹

ON VIABLE DEPLOYMENT OF UTRA IN ADDITIONAL AND DIVERSE SPECTRUM ARRANGEMENTS

The International Telecommunication Union Radiocommunication sector (ITU-R) and its Radiocommunication Assembly approved the draft revision of Recommendation ITU-R M.1036-1 in June 2003, as suggested by the ITU-R Working Party 8F (WP8F). This document has now acquired status as pre-published ITU Recommendation M.1036-2 “ Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications-2000 (IMT-2000) in the bands 806-960 MHz, 1 710-2 025 MHz, 2 110-2 200 MHz and 2 500-2 690 MHz” and as such supersedes the preceding publications of this Recommendation

In spite of the new pre-published Recommendation, and in accordance with the Workplan of the ITU-R WP8F, the studies are continuing and would before long have to address the more detailed frequency arrangements with reference to the band 2500 - 2690 MHz. The particular spectrum arrangements in the band 2500 - 2690 MHz is being assigned to the WP8F Spectrum WG; “Spectrum matters related to IMT-2000” under the Chairmanship of Mr. Francisco Soares from ANATEL in Brazil.

The band 2500 - 2690 MHz was identified to IMT-2000 in the regulatory framework of the ITU-R Radio Regulations (RR) in the World Radiocommunication Conference in year 2000 (WRC - 2000) in Istanbul. In the studies of WP8F, the frequency band 2500-2690 MHz is foreseen as additional spectrum for IMT-2000. In order to ensure harmonised conditions and efficient use of the above-mentioned spectrum, it is necessary to investigate and decide on detailed spectrum usage parameters.

PROPOSAL

The submitters of this contribution suggests that attached Technical Report (3GPP TR 25.889) entitled “Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements”, is included in the work of the WG Spectrum of ITU-R WP8F to support the work for detailed spectrum usage parameters in the band 2500-2690 MHz, or any other frequency band and study that the WP8F finds relevant.

¹ This contribution was developed in 3GPP TSG RAN.