Radiocommunication Bureau (BR)

Addendum 1 to
Circular Letter
4/LCCE/102

29 January 2014

To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates participating in the work of Radiocommunication Study Group 4 and ITU-R Academia

Subject: **Announcement of the IMT-Advanced satellite radio interface technologies resulting from the successful completion of Steps 4 through 7 of the IMT-Advanced satellite process, the availability of Report ITU-R M.2279[1], and announcement of the approval of Recommendation ITU-R M.2047 for the IMT-Advanced satellite radio interface technologies**

1 Introduction

The first invitation for the submission of proposals for candidate radio interface technologies (RITs) or sets of RITs (SRITs) for the satellite component of IMT-Advanced was issued with Circular Letter 4/LCCE/102 on 24 November 2010. The Circular Letter initiated an ongoing process to evaluate the candidate RITs or SRITs for the satellite component of IMT-Advanced. It also invited the formation of Independent Evaluation Groups and the subsequent submission of evaluation reports on these candidate RITs or SRITs.

This Addendum announces the technologies for IMT-Advanced satellite radio interface that have successfully completed Steps 4 through 7 of the IMT-Advanced satellite process and are now designated as satellite radio interfaces of IMT-Advanced. It also announces the approval of Recommendation ITU-R M.2047 for the IMT-Advanced satellite radio interface technologies.

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[1] Report ITU-R M.2279 *"Outcome of the evaluation, consensus building and decision of the IMT-Advanced satellite process (Steps 4 to 7), including characteristics of IMT-Advanced satellite radio interfaces"*

2 Completion of Steps 4 to 7 of the IMT-Advanced satellite process documented in Report ITU-R M.2279

Report ITU-R M.2279 is the record of the work performed after receipt of the proposals for IMT-Advanced candidate satellite radio interface technologies, including the evaluation activity and the consensus building. This document contains the outcome and conclusions of Steps 4 to 7 of the IMT-Advanced satellite process, as outlined in Document IMT-ADV-SAT/2(Rev.2). The Report provides the technical characteristics of the candidate satellite radio interface technologies and states the decisions reached by the ITU-R on each of the candidate proposals. Note that the actual specifications of the agreed IMT-Advanced satellite radio interfaces are contained in Recommendation ITU-R M.2047.

Under the IMT-Advanced satellite process, ITU-R has concluded the detailed evaluation of the candidate RITs and SRITs by evaluation groups (Step 4), finished the review and coordination of outside evaluation activities (Step 5), concluded a review to assess compliance with minimum requirements (Step 6), completed consultation on the evaluation results and consensus building and rendered a decision (Step 7) on those technologies that moved forward into Step 8.

3 Announcement of IMT-Advanced satellite technologies and results of consensus building

Each of the two candidate technology submissions (and their respective SRIT or RITs) has individually satisfied Steps 4 through 7 of the IMT-Advanced satellite process successfully and thus each of these IMT-Advanced satellite candidate technology submissions had the opportunity to proceed to Step 8. The two candidate technology submissions are contained in the following two acknowledgement documents:

– Document IMT-ADV-SAT/4(Rev.1) – Acknowledgement of candidate submission from Republic of Korea under Step 3 of the satellite IMT-Advanced process (SAT-OFDM).

– Document IMT-ADV-SAT/3(Rev.1) – Acknowledgement of candidate submission from China (People's Republic of) under Step 3 of the satellite IMT-Advanced process (BMSat).

Additionally, consensus building has been performed during Step 7 with the objective of achieving global harmonization and having the potential for wide industry support for the satellite radio interfaces that are developed for IMT-Advanced.

The final outcome of Steps 4 to 7 of the IMT-Advanced satellite process was the approval of the technologies ***"SAT-OFDM"*** and ***"BMSat"*** as IMT-Advanced satellite technologies.

In addition, both ***"SAT-OFDM"*** and ***"BMSat"*** were accepted for inclusion in the standardization phase of the IMT-Advanced satellite process and proceeded to Step 8 and to subsequent development of IMT-Advanced satellite radio interface.

It was noted that:

– the basis for specifying the ***"SAT-OFDM"*** technology in Step 8 is Doc. IMT-ADV-SAT/4(Rev.1); and

– the basis for specifying the ***"BMSat"*** technology in Step 8 is Doc. IMT-ADV-SAT/3(Rev.1).

Note that the documentation discussed herein is available on the ITU-R IMT-Advanced-Satellite web page (http://www.itu.int/ITU-R/go/rsg4-imt-adv-sat/).

Further details are included in Report ITU-R M.2279.

4 Announcement of the approval of the specifications for the satellite radio interfaces of IMT-Advanced

Under Step 8 of the IMT-Advanced satellite process, the detailed technical specifications of the satellite radio interface technologies for IMT-Advanced are provided in Recommendation ITU-R M.2047.

With the approval of Recommendation ITU-R M.2047 "*Detailed specifications of the satellite radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)",* all steps of the process as previously communicated in this Circular Letter for the IMT-Advanced satellite radio interface have been satisfied.

5 Updates to the ITU-R IMT-Advanced-Satellite web page

The IMT-Advanced-Satellite web page (http://www.itu.int/ITU-R/go/rsg4-imt-adv-sat/) will be updated dynamically to reflect any future updates. Consequently, participants in the IMT-Advanced satellite development activities are kindly requested to periodically check that web page.

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