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| **Radiocommunication Bureau (BR)** | | |
| Addendum 1 to Circular Letter  **4/LCCE/102** | | 29 January 2014 |
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| **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** | | |
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| 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]](#footnote-1), and announcement of the approval of Recommendation ITU-R M.2047 for the IMT‑Advanced satellite radio interface technologies** | |
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## 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.

## 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.

François Rancy  
Director

**Distribution:**

– Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of  
Radiocommunication Study Group 4

– ITU-R Associates participating in the work of Radiocommunication Study Group 4

– ITU-R Academia

– Chairman and Vice-Chairmen of Radiocommunication Study Group 4

– Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

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”* [↑](#footnote-ref-1)