

Radiocommunication Study Groups



**9th Meeting of Working Party 5D
Chongqing, China, 13–20 October 2010**

**Revision 1 to
Document 5D/TEMP/413-E
19 October 2010
English only**

Drafting Group Coordination

DRAFT LIAISON STATEMENT ON IMT-ADVANCED DEVELOPMENT

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2 Working Party 5D (WP 5D) thanks all the relevant external organizations contributing to the
3 development activities of IMT-Advanced.

4 This liaison statement informs RIT/SRIT Proponents and Independent Evaluation Groups regarding
5 the conclusions of Step 6 (“Review to assess compliance with minimum requirements”) and Step 7
6 (“Consideration of evaluation results, consensus building and decision”) of the IMT-Advanced
7 development process. Also, following the previous statement (Document 5D/TEMP/358) dated
8 15 June 2010¹, it provides further guidance to GCS Proponents regarding the completion of the
9 terrestrial radio interface specifications planned for Recommendation ITU-R M.[IMT.RSPEC]
10 (“Detailed specifications of the terrestrial radio interfaces of IMT-Advanced”) in conjunction with
11 Step 8 (“Development of radio interface Recommendation(s)”) of the process.

12 **Background to Meeting #9**

13 Working Party 5D has been progressing the development of IMT-Advanced in accordance with the
14 steps specified in Document IMT-ADV/2(Rev.1) (“Submission and evaluation process and
15 consensus building”).

16 At Working Party 5D’s Meeting #8, a number of evaluation reports from the Independent
17 Evaluation Groups were considered. As reported in a liaison statement to the Independent
18 Evaluation Groups of 9 July 2010² (Document 5D/TEMP/392(Rev.1)), Steps 4 and 5 of the
19 IMT-Advanced process were closed at that meeting. That liaison reported that, as Meeting #9,
20 “WP 5D will continue the Step 6 and Step 7 of the IMT-Advanced development process, and at its
21 9th meeting will decide RITs and/or SRITs accepted for inclusion in the standardization phase in
22 Step 8.”
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¹ Email from ITU-R Radiocommunications Bureau, Mr. Colin Langtry, dispatched 28 July 2010.

² Email from ITU-R Radiocommunications Bureau, Ms. Elizabeth Mostyn-Jones, dispatched 10 July 2010.

Attention: The information contained in this document is temporary in nature and does not necessarily represent material that has been agreed by the group concerned. Since the material may be subject to revision during the meeting, caution should be exercised in using the document for the development of any further contribution on the subject.

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Results of Steps 6 and 7 at Meeting #9

Working Party 5D held its Meeting #9 on 13-20 October 2010. It continued to progress the work on IMT-Advanced in accordance Document IMT-ADV/2(Rev.1), with the following major results:

- Step 6 (“Review to assess compliance with minimum requirements”) was concluded, with each of the six candidate technology proposals determined to have met the requirements of a qualifying RIT/SRIT and to move forward for consideration in Step 7.
- Step 7 (“Consideration of evaluation results, consensus building and decision”) was concluded, with each of the six candidate technology submissions (and their respective SRIT or RITs) having individually satisfied all the requirements of the IMT-Advanced process in all four test environments.

Final Outcome of Steps 4-7

Each of the six candidate technology submissions (and their respective SRIT or RITs) has individually satisfied Steps 4 through 7 of the IMT-Advanced process successfully and thus each of these IMT-Advanced candidate technology submissions has the opportunity to proceed to Step 8.

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 radio interfaces that are developed for IMT-Advanced.

As a result of the consensus building during Step 7 in ITU-R among the six technology proposals, the following two groupings were agreed by ITU-R:

- the RITs and SRITs proposed in IMT-ADV/6, IMT-ADV/8 and IMT-ADV/9 were grouped into the technology identified in ITU as “*LTE-Advanced*”³, developed by the Third Generation Partnership Project (3GPP); and
- the RITs proposed in IMT-ADV/4, IMT-ADV/5 and IMT-ADV/7 were grouped into the technology identified in ITU as “*WirelessMAN-Advanced*”⁴, developed by IEEE.

Thus, the final outcome of Steps 4-7 of the IMT-Advanced process was the approval of the technologies “*LTE-Advanced*” and “*WirelessMAN-Advanced*” as IMT-Advanced technologies.

In addition, both “*LTE-Advanced*” and “*WirelessMAN-Advanced*” were accepted for inclusion in the standardization phase of the IMT-Advanced process and are proceeding to Step 8 and to subsequent development of IMT-Advanced.

It was noted that:

- the basis for specifying the “*LTE-Advanced*” technology in Step 8 is Document IMT-ADV/8, which is technically identical to IMT-ADV/6 and IMT-ADV/9 (except that IMT-ADV/9 contains only the TDD RIT component); and
- the basis for specifying the “*WirelessMAN-Advanced*” technology in Step 8 is Document IMT-ADV/4, which is technically identical to IMT-ADV/5 and IMT-ADV/7.

Further details are included in draft new Report ITU-R M.[IMT.RADIO] (see Attachment 1). This Draft New Report was agreed at Working Party 5D Meeting #9. Final approval is expected by ITU Member States at the ITU-R Study Group 5 meeting of 22-23 November 2010.

³ Developed by 3GPP as *LTE Release 10 and Beyond (LTE-Advanced)*.

⁴ Developed by IEEE as the *WirelessMAN-Advanced* specification incorporated in IEEE Std 802.16 beginning with approval of IEEE Std 802.16m.

1 **Administrative aspects of the IMT-Advanced process**

2 ITU has received a “Form A” submission, per Document IMT-ADV/24, conveying notification of
3 the intent of *IEEE* to be a GCS Proponent of *WirelessMAN-Advanced* and provide a GCS for use in
4 the development of ITU-R M.[IMT.RSPEC] in Step 8.

5 ITU has received a “Form A” submission, per Document IMT-ADV/24, conveying notification of
6 the intent of *ARIB, ATIS, CCSA, ETSI, TTA, and TTC on behalf of 3GPP* to be a GCS Proponent of
7 *LTE-Advanced* and provide a GCS for use in the development of ITU-R M.[IMT.RSPEC] in Step 8.

8 **Future work towards completion of draft new Recommendation ITU-R M.[IMT.RSPEC]**

9 The working document toward draft new Recommendation ITU-R M.[IMT.RSPEC] was
10 progressed (see Attachment 2). New information providing guidance on the format of the
11 technology sections was introduced. This information is intended to be of assistance to the GCS
12 Proponents.

13 **Plan for Meeting #10**

14 In accordance with Document IMT-ADV/24, the results of Meeting #9, and the previous liaison
15 statement of 15 June 2010, Working Party 5D looks forward to finalizing and preliminarily agreeing
16 draft new Recommendation ITU-R M.[IMT.RSPEC] (not necessarily including the detailed
17 transposition references) at Meeting #10 of 30 March - 6 April 2011 (based on the planned meeting
18 dates)⁵ for both *LTE-Advanced* and *WirelessMAN-Advanced* as approved IMT-Advanced
19 technologies.

20 **Anticipated actions by GCS proponents**

21 Working Party 5D looks forward to a submission, by the previously identified deadline of
22 23 March 2011⁵, toward ITU-R M.[IMT.RSPEC] from the GCS proponent *IEEE* regarding
23 *WirelessMAN-Advanced* and based on the format described in Attachment 2, as well as a
24 Certification B based on Document IMT-ADV/24.

25 Working Party 5D looks forward to a submission, by the previously identified deadline of
26 23 March 2011⁵, toward ITU-R M.[IMT.RSPEC] from the GCS proponent *ARIB, ATIS, CCSA,*
27 *ETSI, TTA, and TTC on behalf of 3GPP* regarding *LTE-Advanced* and based on the format
28 described in Attachment 2, as well as a Certification B based on Document IMT-ADV/24.

29 Working Party 5D thanks again all of the external organizations for their support of the
30 IMT-Advanced process and congratulates the IMT-Advanced technology proponents for their
31 successful contributions towards IMT-Advanced.

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⁵ The original meeting dates of 30 March - 6 April 2011 might shift one week later to 6-13 April 2011. In the event of the shift of the 10th meeting to commence one week later, the new deadline for receipt of information would be 16:00 hours UTC, 30 March 2011. The finalization of the specific dates for the 10th meeting of WP 5D is anticipated to be made available by early December 2010. The final meeting dates and the associated deadline for receipt of information will be communicated administratively by the ITU-R Radiocommunications Bureau as soon as they are established.

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Status:

To: RIT/ SRIT Proponents
For action to: GCS Proponents
cc: Independent Evaluation Groups

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Attachment 1

{Editor's note: Draft new Report ITU-R M.[IMT.RADIO], TEMP/405(Rev.2)}

Attachment 2

{Editor's note: Working document toward draft new Recommendation ITU-R M.[IMT.RSPEC], TEMP/428}
