

SWG Coordination

DRAFT LIAISON STATEMENT TO IEEE ON CANDIDATE TECHNOLOGY SUBMISSION¹ (DOCUMENT 5D/542)

- 1 Working Party 5D has received at its October 2009 meeting several candidate technology
2 submissions for IMT-Advanced. The current view of WP 5D and the expected future work of
3 WP 5D on IMT-Advanced during the period from October 2009 to October 2010 may be found in
4 ITU-R Circular Letter 5/LCCE/2 Addendum 3. A copy is provided in Attachment 1.
- 5 Working Party 5D in its October 2009 meeting, has initiated the assessment and evaluation of the
6 candidate technology submissions under the IMT-Advanced process from two perspectives.
- 7 Firstly, WP 5D has reviewed the candidate technology submission for acceptability to determine if
8 the submission was a “complete submission”. This level of review is not a technical review.
- 9 Secondly, WP 5D has initiated the evaluation of the candidate technology submission including:
- 10 - Assessment of the self-evaluation for inconsistencies, errors, omissions, etc.
 - 11 - Review of technical details in all templates, etc.
 - 12 - Developing additional information required from the proponents for efficient evaluation
13 work by Independent Evaluation Groups and by WP 5D (if needed).
- 14 Working Party 5D plans to continue this work with the help of the reports from the Independent
15 Evaluation Groups expected over the next two meetings.
- 16 Working Party 5D in this liaison, provides its acknowledgement and current view (as provided in
17 Attachment 2) of the candidate technology submission based on the October 2009 meeting.
- 18 Additionally, WP 5D has initiated liaison correspondence (as provided in Attachment 3) with the
19 Independent Evaluation Groups with regard to the detailed work plan, timelines, expected
20 information to be received, and a suggested evaluation report structure towards providing
21 information to WP 5D. WP 5D encourages interactions between the proponents and the
22 Independent Evaluation Groups and believes this same information may be useful to the
23 proponents. As a tool to augment communication, WP 5D has established several Correspondence
24 Groups. The terms of reference and information on participation for the Correspondence Groups
25 may be found at <http://groups.itu.int/Default.aspx?alias=groups.itu.int/rsg5-forum>.

¹ Document 5D/542 - Submission of a candidate IMT-Advanced RIT based on IEEE 802.16

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1 Working Party 5D thanks the proponent for providing the candidate technology submission and
2 looks forward to fruitful cooperation during the on-going steps of the IMT-Advanced process.
3 Please note that the candidate technology submission package, along with the WP 5D
4 “Acknowledgement”, is posted on the ITU-R WP 5D website that has been established for the
5 IMT-Advanced Submission and Evaluation Process. (<http://www.itu.int/it-r/go/rsg5-imt-advanced>).

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8 **Attachment 1**

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10 **[Editor’s Note: Include in this Attachment 1, the Circular Letter 5/LCCE/2 Addendum 3 in**
11 **its final signed form. Source: Document 5D/TEMP/269R1.]**

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13 **Attachment 2**

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15 **[Editor’s Note: Provide for this Attachment 2, a reference to Document IMT-ADV/4.]**

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17 **Attachment 3**

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19 **[Editor’s Note: Include in this Attachment 3, the liaison to the Independent Evaluation**
20 **Group. Source: Document 5D/TEMP/268R1.]**

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DRAFT CIRCULAR LETTER ADDENDUM #3

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2 **To Administrations of Member States of the ITU, Radiocommunication Sector**
3 **Members and ITU Associates participating in the work**
4 **of Radiocommunication Study Group 5**

5 **Subject:** Receipt of submission of proposals for candidate radio interface technologies for the
6 terrestrial components of the radio interface(s) for IMT-Advanced by the October 7, 2009
7 deadline and the next steps in the IMT-Advanced process

8

9 **1 Introduction**

10 The first invitation for the submission of proposals for candidate radio interface technologies (RITs)
11 or a set of RITs (SRITs) for the terrestrial components of IMT-Advanced was issued with
12 Circular Letter 5/LCCE/2 on 7 March 2008. The Circular Letter initiated an ongoing process to
13 evaluate the candidate RITs or SRITs for IMT-Advanced, and invited the formation of Independent
14 Evaluation Groups and the subsequent submission of evaluation reports on these candidate RITs or
15 SRITs.

16 On 13 August 2008, Addendum 1 to Circular Letter 5/LCCE/2 announced the availability of further
17 information associated with the IMT-Advanced submission and evaluation process.

18 On 18 December 2008, Addendum 2 to Circular Letter 5/LCCE/2 announced the availability of
19 three ITU-R Reports that provide details of the IMT-Advanced requirements, evaluation criteria and
20 submission templates.

21 This Addendum provides information on the candidate technology submissions received by ITU-R
22 by the deadline of October 2009 under Step 3 of the IMT-Advanced process and highlights the
23 planned next steps for the work following the IMT-Advanced process detailed in
24 Document IMT-ADV/2(Rev.1).

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1 **2 Acknowledgement of candidate submissions received for IMT-Advanced**

2 Working Party 5D, following the guidelines of the IMT-Advanced process has reviewed the
3 candidate technology submissions provided to the October 2009 meeting of Working Party 5D and
4 ITU-R acknowledges the receipt of a “complete” candidate technology submission per Section 4 of
5 Report ITU-R M.2133 as follows:

- 6 - IMT-ADV/4 - Acknowledgement of candidate submission from IEEE under Step 3 of the
7 IMT-Advanced process (IEEE Technology)
- 8 - IMT-ADV/5 - Acknowledgement of candidate submission from Japan under Step 3 of the
9 IMT-Advanced process (IEEE Technology)
- 10 - IMT-ADV/6 - Acknowledgement of candidate submission from Japan under Step 3 of the
11 IMT-Advanced process (3GPP Technology)
- 12 - IMT-ADV/7 - Acknowledgement of candidate submission from TTA under Step 3 of the
13 IMT-Advanced process (IEEE Technology)
- 14 - IMT-ADV/8 - Acknowledgement of candidate submission from 3GPP proponent (3GPP
15 Organization Partners of ARIB, ATIS, CCSA, ETSI, TTA AND TTC) under Step 3 of the
16 IMT-Advanced process (3GPP Technology)
- 17 - IMT-ADV/9 - Acknowledgement of candidate submission from China (People’s Republic
18 of) under Step 3 of the IMT-Advanced process (3GPP Technology).

19 For convenience, these submissions are also posted on the ITU-R IMT-Advanced webpage
20 (<http://www.itu.int/itu-r/go/rsg5-imt-advanced>).

21 Working Party 5D, under the IMT-Advanced process, has not made any determination of the
22 suitability or acceptability of any of these candidate technologies for IMT-Advanced at this stage.

23 **3 Future IMT-Advanced process steps and workplan for evaluation**

24 Under the IMT-Advanced process, the ITU-R will now proceed with the detailed evaluation of the
25 candidate RITs or SRITs by evaluation groups (Step 4), the review and coordination of outside
26 evaluation activities (Step 5), the review to assess compliance with minimum requirements (Step 6)
27 and take final consultation on the evaluation results and the consensus building and render a
28 decision (Step 7) during the period from October 2009 through to October 2010. It is anticipated
29 that a further Addendum to Circular Letter 5/LCCE/2 will be developed in October 2010
30 announcing the terrestrial RIT(s) or SRIT(s) accepted for inclusion in the standardization phase of
31 IMT-Advanced to be completed in Step 8 of the process (development of radio interface
32 Recommendation(s)).

33 A more detailed view of the workplan may be found at **[Editor’s Note: – Add URL to the
34 summary workplan of IMT-Advanced posted on the ITU-R WP 5D website that has been
35 established for the IMT-Advanced Submission and Evaluation Process.]**
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SWG Coordination

DRAFT LIAISON STATEMENT TO INDEPENDENT EVALUATION GROUPS ON EXPECTATIONS AND TIMEFRAMES ON THE EVALUATION OF CANDIDATE IMT-ADVANCED TECHNOLOGIES

1 **Background**

2 Working Party 5D has received at its October 2009 meeting six candidate technology submissions
3 for IMT-Advanced. The current view of WP 5D and the expected future work of WP 5D on
4 IMT-Advanced during the period from October 2009 to October 2010 may be found in ITU-R
5 Circular Letter 5/LCCE/2 Addendum 3 (copy enclosed in Attachment 1).

6 As part of the on-going process for IMT-Advanced, the period from October 2009 (the 6th meeting
7 of Working Party 5D) to June 2010 (the 8th meeting of Working Party 5D) has been designated for
8 evaluation of the IMT-Advanced candidate technology submissions by Independent Evaluation
9 Groups.

10 This liaison provides information on the detailed workplan, timelines, expected information to be
11 received, and a suggested evaluation report structure.

12 **Candidate Technology Submission for Evaluation**

13 Please note that the candidate technology submission packages that the Independent Evaluation
14 Groups should utilize in the course of their work, along with the WP 5D “Acknowledgement”, is
15 posted on the ITU-R WP 5D website that has been established to provide public access to the
16 relevant information for the IMT-Advanced Submission and Evaluation Process.
17 (<http://www.itu.int/it-r/go/rsg5-imt-advanced>).

- 18 • IMT-ADV/4 - Acknowledgement of candidate submission from IEEE under Step 3 of The
19 IMT-Advanced process (IEEE Technology)
- 20 • IMT-ADV/5 - Acknowledgement of candidate submission from Japan under step 3 of the
21 IMT-Advanced process (IEEE Technology)
- 22 • IMT-ADV/6 - Acknowledgement of candidate submission from Japan under step 3 of the
23 IMT-Advanced process (3GPP Technology)
- 24 • IMT-ADV/7 - Acknowledgement of candidate submission from TTA under step 3 of the
25 IMT-Advanced process (IEEE Technology)

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- 1 • IMT-ADV/8 - Acknowledgement of candidate submission from 3GPP proponent (3GPP
2 Organization Partners of ARIB, ATIS, CCSA, ETSI, TTA AND TTC) under step 3 of the
3 IMT-Advanced process (3GPP Technology)
- 4 • IMT-ADV/9 - Acknowledgement of candidate submission from China (People's Republic
5 of) under step 3 of the IMT-Advanced process (3GPP Technology)

6 Note: before commencing evaluation activities, the attention of the Independent Evaluation Groups
7 is drawn to section 8 of documents IMT-ADV/5, IMT-ADV/6, IMT-ADV/7, and IMT-ADV/9.

8 **WP 5D request to the independent evaluation groups**

9 In order to advance the evaluation work and to provide an opportunity for timely dialog and
10 feedback as well as to meet the define schedule for evaluation, WP 5D kindly requests that
11 Independent Evaluation Groups provide to WP 5D their evaluation results in two phases:

12 Phase 1 – an interim/preliminary evaluation report provided to the WP 5D February 2010 meeting.

13 Phase 2 – a final evaluation report provided to the WP 5D June 2010 meeting.

14 It is recognized that the evaluation report to WP 5D for the February meeting may be either an
15 interim/preliminary report or a final report at the decision of the Independent Evaluation Group. In
16 any event, WP 5D would encourage that Independent Evaluation Groups should, if at all possible,
17 develop a first view/assessment for the February 2010 timeframe.

18 **WP 5D suggested evaluation report framework and baseline**

19 To assist WP 5D in its understanding of the assessment of an Independent Evaluation Group and to
20 facilitate communication among the Independent Evaluation Groups WP 5D suggests that an
21 Independent Evaluation Group address, using the framework and baseline below, the following
22 administrative and technical aspects in their work:

23 Part I) Administrative aspects of the Independent Evaluation Group

24 1) Name of the Independent Evaluation Group

25 2) Introduction/background of the Independent Evaluation Group

26 3) Method of Work: Independent Evaluation Groups are requested to identify their process
27 and method of working in developing and preparing the interim and final evaluation
28 reports to indicate to WP 5D aspects such as

- 29 • how the evaluation group conducted its work (e.g. through meetings,
30 correspondence activity, etc.)
- 31 • interaction with proponents and other evaluation groups
- 32 • how it performed the assessment (including addressing whether the assessment was
33 done by analysis, inspection, through the use of simulations or by combination of
34 other means)

35 4) Administrative Contact details

36 5) Technical Contact Details

37 6) Other pertinent administrative information

38 Part II) Technical aspects of the work of the Independent Evaluation Group:

39 Evaluation Reports are suggested to contain as a minimum the following:

- 40 A) What candidate technologies or portions of the candidate technologies they are or
41 might anticipate evaluating

1 B) Confirmation of utilization of the ITU-R evaluation guidelines in Report ITU-R
2 M.2135 (amended by IMT-ADV/3).

3 Documentation of any additional evaluation methodologies that are or might be
4 developed by the Independent Evaluation Group to complement the evaluation
5 guidelines.

6 C) Quality check per Report ITU-R M.2133 of the templates and the self-evaluation
7 for each candidate technology as indicated in A)

- 8 1. Identify gaps/deficiencies in submitted material and/or self-evaluation
- 9 2. Identify areas requiring clarifications
- 10 3. General questions

11 D) Quantitative assessment per Reports ITU-R M.2133, M.2134 and M.2135 for each
12 candidate technology as indicated in A).

- 13 1. Detailed analysis/assessment and evaluation by the Independent Evaluation
14 Group of the compliance templates submitted by the proponents per the Report
15 ITU-R M.2133 Section 4.2.4
- 16 2. Provide evaluators comments in the templates along with Independent
17 Evaluation Group supporting documentation for such comments
- 18 3. Detailed analysis of the proponent's self-evaluation by the Independent
19 Evaluation Group

20 E) Questions and Feedback to WP 5D and/or the proponents or other Independent
21 Evaluation Groups

22 F) Proposed next steps in Independent Evaluation Group from February 2010 to
23 June 2010 towards the final Independent Evaluation Group report to be sent to WP 5D
24 for the June 2010 meeting.

25 WP 5D encourages interactions between the proponents and the Independent Evaluation Groups. As
26 a tool to augment communication, WP 5D has established several Correspondence Groups. The
27 terms of reference and information on participation for the Correspondence Groups may be found at
28 <http://groups.itu.int/Default.aspx?alias=groups.itu.int/rsg5-forum>.

29 **Important Timeframes and Deadlines**

30 *[Editor's note – confirm WP 5D future meeting dates and submission deadlines]*

31 Independent Evaluation Groups are requested to provide the material for the *February* meeting of
32 WP 5D to Mr. Colin Langtry, Counsellor for Study Group 5 by the ITU-R deadline for input to the
33 February meeting which has been established as 16:00 hours UTC on 10 February 2010.

34 Independent Evaluation Groups are requested to provide the material for the *June* meeting of
35 WP 5D to Mr. Colin Langtry, Counsellor for Study Group 5 by the ITU-R deadline for input to the
36 June meeting which has been established as 16:00 hours UTC on 2 June 2010.

37 Working Party 5D thanks the Independent Evaluation Groups for their efforts towards the success
38 of IMT-Advanced and looks forward to receiving your views in the coming months.

39 Contacts: *[Editor's note – add contact details]*

40 Mr. Yoshio Honda
41 Chairman, SWG Coordination

Mr. Colin Langtry
Counsellor, Study Group 5

ATTACHMENT 1

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[Editor's Note: Include in this Attachment 1, the Circular Letter 5/LCCE/2 Addendum 3 in its final signed form. Source 5D/TEMP/269].
