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| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | ***Proposed Contribution to ITU-R WP 5D:* *Update of WirelessMAN-Advanced RIT of*** ***Recommendation ITU-R M.2012 (Meeting Y+2)*** | |
| Date Submitted | **2013-03-18** | |
| Source(s) | Roger B. Marks  Consensii LLC  4040 Montview Blvd  Denver, CO 80207 USA | Voice: +1 619 393 1913 E-mail: roger@consensii.com  \*<<http://standards.ieee.org/faqs/affiliationFAQ.html>> |
| Re: | 13 February 2012 liaison statement from ITU-R WP 5D “on the schedule for updating Recommendation ITU-R M.2012 ‘Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)’ to Revision 1” ([IEEE 802.16-12-0145](http://doc.wirelessman.org/16-12-0145))  Other relevant contributions include IEEE 802.16-12-0409 (5D/64) and 802.16-12-0487 (5D/111), as well as 802.16-12-0272 and 802.16-12-0518. | |
| Abstract | This document proposes a response to a request from ITU-R Working Party 5D addressing the “Meeting Y+2B” update of WirelessMAN-Advanced RIT of Rec. ITU-R M.2012. | |
| Purpose | This contribution requests that the ITU-R Liaison Group review the attached proposal and, on that basis, prepare and forward a proposed statement to the IEEE 802.18 Technical Advisory Group for review, to the IEEE 802.16 Working Group for approval at the Session #84 Closing Plenary, and to the IEEE 802 Executive Committee for review under OM Subclause 8.2.2 as an intended contribution from IEEE to ITU-R Working Party 5D. Note that **the WP-5D submission deadline is 3 July 2013**. Submission should be withheld to allow for updates at the May 2013 interim session, with EC review of the update to be scheduled for the EC teleconference of 4 June 2013, if necessary. | |
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| **Radiocommunication Study Groups** |  |
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| Received: XX June 2011 | **Document 5D/XXX-E** |
| **XX July 2013** |
| **English only**  **TECHNOLOGY ASPECTS** |
| Institute of Electrical and Electronics Engineers, Inc. | |
| Update of WirelessMAN-Advanced RIT of Rec. ITU-R M.2012 (Meeting Y+2B) | |
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# 1 Source information

This contribution was developed by the IEEE 802.16 Working Group on wireless metropolitan area networks and the IEEE 802.18 Radio Regulatory Technical Advisory Group, in accordance with the IEEE 802 policies and procedures, and represents the view of those groups.

# 2 Background

This contribution responds to the 13 February 2012 “Liaison statement to External Organizations on the schedule for updating Recommendation ITU-R M.2012 ‘*Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)*’ to Revision 1.”

This “Meeting Y+2B” contribution is a followup to “Meeting Y” contribution 5D/64 and “Meeting Y+1” contribution 5D/111.

# 3 Assessment of Update Input Documentation Set Requirements

The set of documentation relevant to the input process is listed in several places.

(a) Document IMT-ADV/25 specifies the following:

*Revision process in the case of existing IMT-Advanced technologies*

*Updates requiring a modification of the GCS or the DIS*

*In the case that a proposed update is a revision of an RIT or SRIT that proposes a modification of the GCS or DIS hence requiring a Certification B (section 1, section 2, and section 3, as appropriate), the following must be submitted to WP 5D by the GCS Proponent:*

*1) announcement of a proposed update;*

*2) a summary of the proposed update, including the rationale for the proposed update;*

*3) the detailed update, including the compliance templates from Report ITU-R M.2133 (2008) Section 4.2.4, and any related supporting material, given that the full context of the total terrestrial radio interface is considered to be the original submission and any previously approved updates as well as this proposed update.*

(b) IMT-ADV/25 Annex 1 Table 1 Item 7 (also IMT-ADV/26 Table 1 Item 7) specifies the following:

*Case requiring a modification of the GCS*

*Delivery to ITU-R by the GCS Proponent of the detailed update, including the compliance templates 4.2.4 from Report ITU-R M.2133 (2008) and any related supporting material for the proposed update to Rec. ITU R M.2012, given that the full context of the total terrestrial radio interface is considered to be the original submission and any previously approved updates as well as this proposed update.*

*Delivery to ITU-R by the GCS Proponent of the revised/updated GCS.*

*Delivery to ITU-R of Certification B (section 1, section 2, and section 3, as appropriate) by GCS Proponents.*

Based on this information, we conclude that the following list of documentation is relevant to the Meeting Y+2B update submission:

1) announcement of a proposed update

2) a summary of the proposed update, including the rationale for the proposed update

3) the detailed update

4) compliance templates from Report ITU-R M.2133 (2008) Section 4.2.4

5) revised/updated GCS

6) Certification B

# 4 Update Input Documentation Set

Based on the list of Meeting Y+2 update input documentation itemized above, the following materials are submitted for consideration:

1) announcement of a proposed update

* Previously provided in Meeting Y contribution 5D/64; not repeated herein.

2) a summary of the proposed update, including the rationale for the proposed update

* Provided in Annex A below, following materials provided in Meeting Y+1 contribution 5D/111.

3) the detailed update

* Provided in Annex B below as edits indicated with respect to Annex 2 of Rec. ITU-R M.2012.

4) compliance templates from Report ITU-R M.2133 (2008) Section 4.2.4

* Provided in Annex C below as extracted from Document IMT-ADV/4, the content remaining applicable.

5) revised/updated GCS

* To be provided to the Counsellor by the specified deadline.

6) Certification B

* To be provided to the Counsellor by the specified deadline.

# 5 Proposal

We propose that the attached and cited documentation set be adopted as a complete “Meeting Y+2B” update of the WirelessMAN-Advanced RIT toward Revision 1 of Rec. ITU-R M.2012.

# 6 Annexes

Annex A: *Summary of the proposed update, including the rationale for the proposed update* (below)

Annex B: *Detailed update as edits indicated with respect to Annex 2 of Rec. ITU-R M.2012* (attached)

Annex C: *Compliance templates,* *as extracted from Document IMT-ADV/4* (attached)

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Annex A: *Summary of the proposed update, including the rationale for the proposed update*

On 8 June 2012, the IEEE-SA Standards Board approved IEEE Std 802.16.1 (*WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems*) as a new IEEE standard. IEEE Std 802.16.1 encompasses the WirelessMAN-Advanced air interface, with some minor improvements. On the same date, the Standards Board approved IEEE Std 802.16-2012 as a new revision of IEEE Std 802.16, which now excludes the WirelessMAN-Advanced air interface.

Accordingly, the material proposed for this update reflects IEEE’s transfer of the WirelessMAN-Advanced air interface specification to IEEE Std 802.16.1. The WirelessMAN-Advanced GCS proposed for Revision 1 of Rec. ITU-R M.2012 includes IEEE Std 802.16.1 but not IEEE Std 802.16.

IEEE has further enhanced IEEE Std 802.16.1 with two amendments:

• IEEE Std 802.16.1a: WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems - Amendment: Higher Reliability Networks

• IEEE Std 802.16.1b: WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems - Amendment: Enhancements to Support Machine-to-Machine Applications

The content of these two standards is also proposed for incorporation in Revision 1 of Rec. ITU-R M.2012.