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Abstract	Report on February 2009 meeting of ITU-R Working Party 5D	
Purpose		
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Report to IEEE 802.16 Working Group on ITU-R WP 5D Meeting #4

Roger B. Marks

18 February 2009

Introduction

Working Party 5D (WP 5D) held its Meeting #4 in Geneva on 10 - 17 February 2009. For reports on the previous three meetings, see IEEE C802.16-08/008, C802.16-08/015, and C802.16-08/024r1.

IEEE's delegates were Roger Marks and Reza Arefi of 802.16 and Mike Lynch of 802.18. Other 802.16 members participated in the meeting on other delegations.

The Working Party was made "permanent" (for the study period until 2011) by Study Group in November 2008.

IEEE Contributions

IEEE had submitted two contributions to this meeting. Both were developed within the 802.16 Working Group. One contribution was related to IMT-2000:

* ITU-R 5D/357 [IEEE L802.16-08/071r3]: *Updated Material on IMT-2000 OFDMA TDD WMAN for Revision 9 of Recommendation ITU-R M.1457*

The second was related to IMT-Advanced:

* ITU-R 5D/356 [IEEE L802.16-08/070r1]: *Intention to Submit Candidate IMT-Advanced RIT based on IEEE Project 802.16m*

IMT-2000

IEEE submitted 5D/357 (“Updated Material on IMT-2000 OFDMA TDD WMAN for Revision 9 of Recommendation ITU-R M.1457.”) This was the third (“Meeting X+2”) of three planned contributions toward the update of the IEEE 802.16-based radio interface (“OFDMA TDD WMAN”) in IMT-2000. A parallel document (ITU-R 5D/365) was submitted by the WiMAX Forum, which supports the same radio interface. Additional update notifications were provided by other organizations regarding the other five IMT-2000 radio interfaces. These contributions were reviewed by the M.1457 Sub-Working Group (SWG), which provided a meeting report 5D/TEMP/184r1.

The key issues of the meeting revolved around objections from France and Germany to the IEEE/ WiMAX Forum proposal. The crux of the position (which had also been stated at “Meeting X” and “Meeting X+1”) was that the WiMAX Forum’s proposal to add an FDD radio interface should not be considered as enhancement of the existing TDD radio interface, through the usual update process, but should instead be considered as a new radio interface, therefore requiring extensive procedures including invitations for external evaluations. A number of administrations supported the IEEE’s proposal, vocally and/or by way of contribution.

Eventually, a way forward was developed, recorded in document 5D/TEMP/174r2. The key points are as follows:

- a) The complete FDD and TDD components were divided into two separate sections of subclause 5.6 of Rec M.1457. With this editorial compromise, the requirement for an external evaluation was procedurally unnecessary. In this author’s opinion, the resulting structure is complex and involves redundant references, and the subclause numbering is somewhat illogical. However, the content is as originally proposed.
- b) With these changes, a complete draft revision of M.1457 Revision 9 was developed. However, instead of being approved, it was carried forward to the next meeting in June, with the expectation that it will be concluded there.
- c) Two specific issues were noted as “areas of investigation.” The report indicates that Germany was concerned about “impact on the usage of the spectrum” and that France is concerned with the “added value of going ahead with the enhancement.” France and Germany will have until 25 March to detail their concerns regarding these issues. Responses will be due on 3 June.
- d) In the meantime, Revision 9, which includes proposed updates to all six radio interfaces, will be held in suspension. Furthermore, an attempt to initiate the

development of Revision 10 was also deferred until the status of Revision 9 is clarified.

e) The previous deadline of 3 August remains valid for “transpositions” of the referenced “GCS” documents (which include P802.16Rev2/D9).

f) A liaison statement was sent to IEEE and the WiMAX Forum and to notify them of the status and plans and to seek their assent regarding the edits to subclause 5.6.

RECOMMENDED ACTION: The 802.16 WG should prepare a contribution for consideration at the June WP 5D meeting as an initial response to the liaison statement, addressing in particular its assent (or its corrections) to the editorial changes. Consideration should be given to a proposal to rename “OFDMA TDD WMAN” as “OFDMA WMAN.” This contribution should be drafted during Session #60 the week of 9 March and submitted for 802 EC approval at the March 802 Plenary. The liaison could also provide initial views on the two “areas of investigation.”

RECOMMENDED ACTION: The 802.16 WG should prepare a second contribution for consideration at the June WP 5D meeting, or a revision of the first contribution, during Session #61 the week of 4 May. This should be sent for review during the 802.18 session the following week, ensuring that the outcome is ready for submittal by the deadline of 3 June.

RECOMMENDED ACTION: Presuming that P802.16Rev2/D9 is approved by the IEEE-SA Standards Board on 19 March, it should be submitted (as IEEE Std 802.16-2009) as a “transposed” reference, by the deadline of 3 June.

IMT-Advanced

IEEE submitted 5D/356 (“Intention to Submit Candidate IMT-Advanced RIT based on IEEE Project 802.16m.”) during the first of three meetings set aside for contributions related to IMT-Advanced proposals. No other such proposals were received by the meeting.

IEEE’s contribution listed a set of materials it understood would comprise a “complete” submission package, with the note “IEEE understands that any additional information beyond this list is voluntary. Please let us know if this is not correct.” WP 5D did not provide any alternative view. However, the meeting report (5D/TEMP/185) notes that “During the meeting, it is clarified that the IEEE’s self evaluation will include not only the templates but also a report.”

RECOMMENDED ACTION: The 802.16 WG should prepare a contribution for consideration at the June WP 5D meeting as a “Step 2” contribution toward its IMT-Advanced submittal. No particular information is required, so the contribution could be simply an update of 5D/356. It might be useful to have a contribution approved by the IEEE 802 EC at the March 2009 Plenary, with the possibility of updating that contribution in May.

Future Meetings

The meeting plan for 2009 was finalized. The new schedule is:

WP 5D Meeting # 5	10-17 Jun-09	Geneva
WP 5D Meeting # 6	14-21 Oct-09	Dresden, Germany

References

Available at <<http://ieee802.org/16/liaison>>:

- IEEE L802.16-09/0019 (“Liaison statement from ITU-R Working Party 5D regarding IMT Parameters in the 790-862 MHz Frequency Band”)
- IEEE L802.16-09/0018 (“Liaison statement from ITU-R Working Party 5D regarding M.1457 update to revision 9”)
- IEEE L802.16-09/0017 (“Liaison statement from ITU-R Working Party 5D regarding updating the roadmap for IMT-2000”)
- IEEE L802.16-09/0016 (“Liaison statement from ITU-R Working Party 5D regarding Femto cells”)