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Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**IEEE 802.16 TGe Session #25 Meeting Minutes including Joint TGe/TGd meetings**
Date Submitted	**2003-05-15**
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Re:	IEEE 802.16 TGe Session #25 Minutes (Dallas/Fort Worth Airport, Texas, US). **Note: This also includes the minutes of the TGd/TGe Joint meetings held during this session.**
Abstract	
Purpose	To record meeting minutes.
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Minutes of IEEE 802.16e Session #25
(including TGe/TGd Joint meetings)
Dallas/Fort Worth Airport, US
12-16 May, 2003

Monday May 12:

A Joint TGe/TGd opening session was held.

Call to Order
Brian Kiernan, TGe Chair called the meeting to order at 4:05pm, 12 May 2003.

Clarification of TGd PAR scope
Gordon Antonello discussed the information below regarding the TGd PAR scope.

- Limited to evident errors and inconsistencies inside the .16 standard as amended by .16c and .16a
- May include minor performance and interoperability tweaks
- Any changes intended to influence the work of other TGs or make major modifications to the defined methods within amendment .16c / .16a is out of scope.

Discussion
The group had a lengthy discussion regarding evolving around the following issues:

- TGd is chartered to fix errors in 802.16a
- TGe is chartered to make changes to 802.16a for things that affect mobility.
- To have a clean mobile extension, you may need to make changes to the fixed to make it easier for future products to support both fixed and mobile.
- TGe may develop enhancements that create a compatibility problem for 802.16a users

TGd Charter (agreement)
Per the PAR, TGd is limited to System Profiles and evident errors and inconsistencies inside the 802.16 standard as amended by .16c and .16a.

TGe Scope
Per the PAR, this document provides enhancements to IEEE STD 802.16/802.16a to support subscriber stations moving at vehicular speeds and thereby specifies a system for combined fixed and mobile broadband wireless access. Functions to support higher layer handoff between base stations or sectors are specified. Operation is limited to licensed bands suitable for mobility between 2 and 6 GHz. Fixed 802.16a subscriber capabilities shall not be compromised.

The primary discussion evolved around making changes to 802.16a to make interoperability between 802.16a and 802.16e more seamless. No conclusions were reached.

The TGe chair asked contribution submitters to look at their submissions in the context of the previous discussions, with the possibility of these contributions needing to be revised before week'.

The meeting closed at approximately 6:15 PM

Tuesday May 13:

Meeting starts at 8:30.

Agenda (document 802.16e-03/12) approved.

Session 24 minutes (document 802.16e-03/09) approved with no comments.

Chair asks submitters to review their submissions and, where possible, separate them into TGd components and TGe components. The TGd components being restricted to corrections in 802.16a and TGe components being changes to 802.16a to support mobility.

Ron Murias presents mobility enhancements for the OFDM PHY from c802.16e-03/26.
> ➢ Chair would like to see more data supporting changes. Or at least some level of performance measures.
> ➢ The authors will look at the text to separate it into TGd and TGe components

Yossi Segal presents mobility enhancements for the OFDMA PHY from c802.16e-03/25r2.
> ➢ General discussion about contribution occurs during presentation.
> ➢ The chair questions the appropriateness of using a TDM scheme to provide backwards compatibility.

Chair again asks for some performance numbers for the various proposed enhancements.

Russel McKown presents mobility enhancements for the SC PHY from c802.16e-03/27.
> ➢ General discussion about contribution occurs during presentation.

Chair reopens issue of TDM approach for obtaining backwards compatibility for all PHYs. No general consensus was achieved.

Russell had a question regarding attendance from session 24. The Chair explains that attendance is based on Working Group participation not solely on Task Group participation.

Break for lunch at 12:00.

Group begins resolution of comments contained in database 802.16e-03/10. Results recorded in database.

Meeting recesses at 17:00.

Wednesday May 14

Meeting starts at 8:30.

Group begins resolution of comments contained in database 802.16e-03/10. Results recorded in database.

Coffee break 10:05.

Group continues resolution of comments contained in database 802.16e-03/10. Results recorded in database.

Break for lunch 12:00.

Changhoi Koo presents c802.16e-03/31. The associated comment contains a lot of text. The group decides to defer the associated comment to the Handoff Ad Hoc group for resolution by the next meeting.

Changhoi Koo presents c802.16e-03/28. No questions. Associated comment will be deferred to the Handoff Ad Hoc group for resolution by the next meeting.

Coffee break 14:50.

Changhoi Koo presents c802.16e-03/29r1. Decision taken to incorporate this text into 802.16e-03/07r1 with one change. In section 6.2.4, second sentence, revise "neighbour base stations" to "target base stations". Ron Murias added a comment to the database to record this.

Chair tasks Handoff Ad Hoc to generate a process flow for the entire handoff process (layers 1, 2 and above). Flow is not expected to include network specific operations/implementations.

Changhoi Koo presents c802.16e-03/30r1. Resolution will be deferred to the Handoff Ad Hoc group for next meeting.

Chair sets a start time of 9:00 for tomorrow's session. The goal is to close by noon.

Meeting adjourns at 17:00.

Thursday May 15

Meeting starts at 9:00. This is a joint TGd/TGe session.

Group begins resolution of outstanding comments contained in database 802.16e-03/10. Results recorded in database.

Comment discussion brings up issue of scope of changes to 802.16a permitted under the current TGe and TGd PARS as previously discussed in the Monday joint session. Various options to resolve the issue are discussed and delineated. Chair requests straw poll on the various options.

Coffee break at 10:00.

Straw poll results:

No PAR changes – no functional 16a changes: 9
No PAR changes & Take our chances: 7
Change PARs: 12
Change 16d PAR: 12
Change 16e PAR: 9

"No PAR changes & Take our chances" removed from consideration.

No PAR changes, no functional 802.16a changes: 9
Change PARs: 12

Straw poll votes changed to "only vote for one or the other"...

No PAR changes, no functional 802.16a changes: 6
Change PARs: 15

"No PAR changes, no functional 802.16a changes" removed from consideration.

Change PAR for 16d: 12
Change PAR for 16e: 9

More discussion followed (looking for a more clear mandate)…

Motion: (Naftali/Tal): To modify the 802.16d PAR to expand scope to include omissions and minor improvements.
Friendly amendment: (Roger Marks) Revise to make PAR a revision PAR.
Naftali declines the friendly amendment.
Friendly amendment: (Itzik) To remove the term "omissions" because the current scope already covers that.
Naftali accepts the friendly amendment.
Yossi requests definition of "minor" in the context of the motion. Discussion ensued with no consensus.
Motion to Amend: (Roger Marks/Gordon Antonello) Amend prior motion to read, "Modify the 802.16d PAR to be a revision PAR for fixed".

Break for lunch 12:00. Return at 1:15.

PAR revision discussion continues.

Revision to Motion to amend: (Roger Marks/Gordon Antonello) Amend prior motion to read, "Modify the 802.16d PAR to be a revision for fixed. No existing modes shall be deleted".
Vote called: For; 16 Against; 0

Amended motion: "To modify the 802.16d PAR to be a revision for fixed. No existing modes shall be deleted." (Naftali/Tal as amended by Marks/Antonello)
Vote called: For; 20 Against; 0

Joint group agrees that contributions 802.16e-25r2, 16e-27r1 and 16e-26 be remanded to TGd for consideration.

Motion: "To bring forward to the working group the following motion: "To modify the 802.16d PAR to be a revision for fixed. No existing modes shall be deleted."
Passed with no objections.

Motion: "To approve 802.16e-03/10r1 database and to authorize the editor to produce a new working document, 802.16e-03/07r2, based on that database."
Passed with no objections.

Motion: "To initiate a Task Group Review of the 802.16e-03/07r2 working document."
Passed with no objections.

TGe specific issues of the joint TGe/TGd meeting conclude.

TGd resumes resolution of outstanding comments contained in database 802.16e-03/10r1. Results recorded in database.

Further TGd specific issues are documented in the TGd meeting minutes.