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Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>IEEE 802.16.3 Session #8 Minutes</b>	
Date Submitted	<b>2000-08-01</b>	
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Re:	IEEE 802.16.3 Session #8 (La Jolla, CA - July 11-13, 2000)	
Abstract	Draft Meeting Minutes	
Purpose	Review and Approval	
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor acknowledges and accepts that this contribution may be made public by 802.16.	
IEEE Patent Policy	The contributor is familiar with the IEEE Patent Policy, which is set forth in the IEEE-SA Standards Board Bylaws < <a href="http://ieee802.org/16/ipr/patents/bylaws.html">http://ieee802.org/16/ipr/patents/bylaws.html</a> > and includes the statement:  “IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard.”  See < <a href="http://ieee802.org/16/ipr">http://ieee802.org/16/ipr</a> > for details.	

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**Session #8: Minutes of 802.16.3  
Working Group on Broadband Wireless Access  
HYATT Hotel, La Jolla, San Diego, USA  
11 to 13 July, 2000**

**Chair of IEEE802.16.3: Brian Kiernan**

**Chair of IEEE802.16.3 Functional Requirement Document: George Fishel**

**Secretary of IEEE802.16.3: Anader Benyamin-Seeyar**

**Tuesday, July 11, 2000,**

*Opening of Session #8*

**Call To Order, Welcome, and Introduction of Officers**

8:25 AM Call to order by Brian Kiernan

**Schedule of meeting for the week**

Brian Kiernan introduced the agenda / schedules and meeting locations for the week.

The schedule for the day contains the following items:

- Presentation of 7 contributions - 4 were submitted prior to July 08 and additional three contributions were submitted recently.
- Introduction to Revised Development Plan.
- Introduction to Key Characteristics contribution.
- Continuation on Functional Requirements activities from Session#7.

***Approval of the Minutes from Session #7 for IEEE 802.16.3***

Brian Kiernan asked if anyone had any changes or corrections to the Session #7 minutes (document IEEE 802.16.3-00/05r1). Without objection, this document was approved.

***Contributions:***

**Contribution 1:** presented by Avi Freedman on “The use of 3.4 – 3.8 GHz for Fixed Wireless Access FWA”.

**Contribution 2:** presented by Avi Freedman on “Open PHY Standard”. Related to an open standard activity, Brian Kiernan referred to the development plan for 802.16.3 that will be a hybrid scheme of 802.16.1 (proposal driven based) and the ETSI’ HiperAccess (key system elements and project proposals).

**Contribution 3:** presented by Marianna Goldhammer on “TM4 Sub 11 GHz - Jersey 23 Plenary”.

**Contribution 4:** presented by Marianna Goldhammer on “ETSI TM4 standard structure”. A summary of ETSI TM4 standards and system parameters was presented. All Sub 11 GHz documents and some unpublished documents will be put in Flash card and down loaded to the IEEE 802-16 web site for the participant’s interest.

**Contribution 5:** presented by Brian Kiernan on “The Proposed Development Plan”. The development plan will be reviewed on Thursday July 13<sup>th</sup>. Brian described the voting process described in the Development Plan, pointed out that the specified required voting level is 7 or more out of 10. He asked for participant review.

**Contribution 6:** presented by Brian Kiernan on “The Proposed Key Characteristics of IEEE802.16.3 Air Interface Standard”. This will reviewed again later in this session.

**Contribution 7:** presented by Jamshid Khun-Josh on “HiperLAN Type 2: A candidate for FWA below 11 GHz for WirelessHuman™ and IEEE802.16.3”

**Contribution 8:** presented by Roger Hammons & Hesham El Gamal on “Space-Time codewords and signal processing”.

All contributions were presented during the morning session which was recessed at 12:30 AM.

Brian Kiernan opened the afternoon session at 1:45 PM with the news that the IEEE802.16.1 MAC presentation to IEEE802.16.3 will be done on July 12th. It was suggested that an Ad Hoc committee from 802.16.3 review the applicability of the final IEEE 802.16.1 MAC to 802.16.3 requirements.

### ***Functional Requirements for IEEE 802.16.3***

#### **Announcement:**

The activity on defining the “Functional Requirement Document (FRD)” was initiated by the Task group. George Fischel presided over the requirements discussions.

**Motion#1**, Dave Trinkwon, 2<sup>nd</sup> Roger Durand, proposed letting all attendees vote on all unresolved comments. Brian Petry and Roger Marks suggested accepting as straw polls.  
Results: 12 for, 1 against, Motion #1, passed.

**Motion#2**, Marianna Goldhammer, no 2<sup>nd</sup>, proposed to add subsection 6.3 “Cellular Deployment” to the doc.  
Results: no second, Motion #2, failed.

**Motion#3**, Dave Trinkwon, 2<sup>nd</sup> Chet, proposed to add SNMP/CORBA instead of CMIP/CMIS in Section 7.0.  
Results: Motion #3 was accepted with no opposition.

**Motion#4**, Dave Trinkwon, 2<sup>nd</sup> Marianna Goldhammer, proposed to call for contribution on Malfunctioning Subscriber Station or Base Station in subsection 8.2 on page 16.  
Results: 9 for, 9 against and Chair voted no (9 to 10), Motion #4 failed.

**Motion#5**, Dave Trinkwon, 2<sup>nd</sup> Marianna Goldhammer, proposed to delete first requirement on Multicast in section 10, “802 Conformance” on page 18.  
Results: 2 for, 8 against, Motion #5 failed.

**Motion#6**, Muya Wachira, 2<sup>nd</sup> many, proposed to change the word Bandwidth to Capacity on Section M8 from the Mandatory Requirement Table on pages.  
Results: Motion #6 was accepted unanimously.

**Motion#7**, Brian Petry, 2<sup>nd</sup> Anader Benyamin-Seeyar, blanket approval for the proposed changes in Sections M17 and M32 from the section 11: Mandatory Requirement Table.  
Results: Motion #7 was accepted unanimously.

**Motion#8**, Brian Petry, 2<sup>nd</sup> Anader Benyamin-Seeyar, to delete the 2<sup>nd</sup> sentence from Sections M46 and M57 of the Mandatory Requirement Table.  
Results: Motion #8 was accepted unanimously.

**Motion#9**, Brian Petry, 2<sup>nd</sup> Randell Schwartz, to table Packet-Based from/to line 5 and 6 in Introduction section.  
Results: Motion #9 was accepted 15 for to none.

**Motion#10**, Muya Wachira, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to move the word Packet-Based from Line 6 to line 5 in Introduction section 1.

Results: Motion #10 was accepted unanimously.

**Motion#11**, Muya Wachira, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to take out the word services and replace with Service capabilities.

Results: Motion #11 was accepted unanimously.

**Motion#12**, Muya Wachira, 2<sup>nd</sup> Roger Durand, proposed to add sentence “As far as possible, there SHOULD be common across 802-16 system” on line 10 & 11 on page 2.

Results: 11 for, 6 against, Motion #12 was accepted.

**Motion#13**, Jose Costa, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to add sentence “the ways to use” before the word several types on line 22 page 2” on line 10 & 11 on page 2.

Results: 4 for, 15 against, Motion #13 failed.

**Motion#14**, Muya Wachira, 2<sup>nd</sup> Jose Costa, proposed to delete the sentence”other types are under investigation” on line 24 on page 2.

Results: 4 for, 9 against, Motion #14 failed.

**Motion#15**, Muya Wachira, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to add a reference to the “IEEE802-16-3 5 criteria” on line 22 on page 3.

Results: 6 for, 6 against and Chair voted against, Motion #15 failed.

**Motion#16**, Muya Wachira, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to delete whole sentence and replace with another sentence on lines 15 & 16 page 4.

Results: 13 for, 2 against, Motion #16 passed.

**Motion#16**, Muya Wachira, 2<sup>nd</sup> Chet Shirali, proposed to delete lines 16 to 18 and replace them with lines 17 & 19, page 4.

Results: 9 for, 9 against and Chair voted for, Motion #16 was accepted.

**Motion#17**, Dave Trinkwon, 2<sup>nd</sup> Randell Schwartz, proposed to call for contribution on definition of terms and traffic modeling assumptions on lines 44 to 47, page 4.

Results: 20 for, no opposition, Motion #17 was passed.

**The July 11, 2000 session was adjourned at 5:35 PM.**

**Wednesday, July 12, 2000**

***Functional Requirements (continued)***

**Call To Order**

8:15 AM Call to order by Brian Kiernan / George Fishel.

**Motion#18**, Padan, 2<sup>nd</sup> Brian Petry, proposed to delete Regulatory to local regulation line 24, page 4.

Results: Motion #18 was accepted unanimously.

**Motion#19**, Muya Waschira, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to make changes related to “supported services” on lines 24 to 27, page 7.

Results: Motion #19 was accepted unanimously.

**Motion#20**, Muya Wachira, 2<sup>nd</sup> Hank Eilts, proposed to change the title of section 3 from “supported services” to “supported service capabilities” on line 28 and add changes to the first paragraph on lines 29 to line 32, page 7.

Results: Motion #20 was accepted unanimously.

**Motion#21**, Costa Jose, 2<sup>nd</sup> Muya Wachira, proposed to change the first sentence on line 34, page 7.

Results: Motion #21 was accepted unanimously.

**Motion#22**, Costa Jose, 2<sup>nd</sup> Muya Wachira, proposed to move the first sentence with the proposed changes on lines 34 to 37 on page and place it into “Section 4: Protocols” on page 9” of the document.

Results: Motion #22 was accepted unanimously.

**Motion#23**, Costa Jose, 2<sup>nd</sup> Muya Wachira, proposed to remove the second sentence on lines 29 to 31, page 7,

Results: Motion #23 was accepted unanimously.

**Motion#24**, Anader Benyamin-Seeyar, 2<sup>nd</sup> Brian Kiernan, proposed to remove the second part of the sentence on lines 39 to 41, page 7.

Results: 21 for, 8 against, Motion #24 was passed.

**Motion#25**, Costa Jose, 2<sup>nd</sup> Brian Petry, proposed to change the title of section 3.1.1 and modify the first paragraph with the proposed changes on page 7.

Results: 27 for, 1 against, Motion #25 was passed.

**Motion#26**, Costa Jose, 2<sup>nd</sup> Brian Petry, proposed to replace the title of section 3.1.2 and modify the first paragraph with the proposed change on line 5, page 8.

Results: Motion #26 was accepted without opposition.

**Motion#27**, Costa Jose, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to replace the title of section 3.1.3 and modify the proposed change on line 6, page 9.

Results: Motion #27 was accepted without opposition.

**Motion#28**, Avi Freedman, 2<sup>nd</sup> Uzi Padan, proposed to change the words “rapidly changes” to “fluctuating and diverse” on lines 32 and 33, page 10.

Results: Motion #28 was accepted without opposition.

**Motion#29**, Anader Benyamin-Seeyar, 2<sup>nd</sup> Edward Doherty, proposed to divide the motion into two proposals on section 5.7 comments. Adopting the changes on only the first paragraph.

Results: 8 for 9 against, Motion #29 failed.

**Motion#30**, Adi Nativ, 2<sup>nd</sup> David Trinkwon, proposed to adopt changes to section 5.7: change title and add whole new paragraph on spectrum efficiencies as proposed.

Results: 17 for 1 against, Motion #30 changes accepted.

This concluded all proposed comments for changes to the Functional Requirements documents. The document will be updated and a new Call for Comments issued. George Fischel returned the Chair to Brian Kiernan.

The task group then discussed the IEEE-ISTO press release regarding the establishment of the Broadband Wireless Internet Forum (BWIF). There was substantial debate as to the proper way to respond to the release.

**Motion#31**, Brian Petry, 2<sup>nd</sup> Carl Bushe, To create an Ad Hoc group to consider the press release impact on IEEE 802.16.3 standard activities and communicate the 802.16.3 collective reaction.

Results: Motion #31 was accepted without opposition.

The Ad Hoc was immediately created and adjourned to another room.

***Review Proposed Key Characteristics*** (IEEE802.16.3c-00/06r2)  
**Chaired by: Brian Kiernan**

The contribution was discussed and modifications made in accordance with Task Group comments.

**Motion#32**, by Brian Kiernan, to adopt the modified Key Characteristics list as presented to the Task Group.

Results: Motion #32 passed by unanimous voice call.

**The July 12, 2000 session adjourned at 4:30 PM for the Mid-week Plenary.**

**Thursday, July 13, 2000**

**Call To Order**

8:20 AM Call to order by Brian Kiernan.

**Press Release on IEEE Association with BWIF Industry Group**

“The ad-hoc group met to consider a press release from the IEEE-ISTO regarding the formation of an industry consortium to standardize broadband wireless access.”

At the mid-week plenary session on Wednesday July 12<sup>th</sup>, Brian Petry had presented the 802.16.3 Ad Hoc’s statement letter to reflect conflict of activities between the IEEE.802.16 and IEEE-ISTO organizations. The letter requests an immediate disassociation of IEEE, IEEE-ISTO, and IEEE-SA organizations from the BWIF industry group. The statement included four proposed motions which were to be voted upon by the Task Group.

**Motion#33**, by Brian Kiernan, 2<sup>nd</sup> many, proposed to request IEEE-ISTO, IEEE-SA and any other IEEE organization to immediately disassociate from the BWIF industry group and publicly retract any association with it. This shall include an IEEE press release covering the disassociation.

Results: 18 for 0 against, no abstentions, Motion #33 passed.

**Motion#34**, by Brian Kiernan, 2<sup>nd</sup> many, proposed to request Motion for the IEEE LMSC executive committee to consider: Any letter that the IEEE LMSC executive committee submits to other IEEE offices on the issue of the BWIF press release must include the content of the previous motion.

Results: 18 for 0 against, no abstentions, Motion #34 passed.

**Motion#35**, by Brian Kiernan, 2<sup>nd</sup> many, proposed to request Motion for the IEEE LMSC executive committee to consider: In particular, that the IEEE shall accomplish disassociation from BWIF sponsorship prior to the July 26, 2000 inaugural BWIF meeting.

Results: 18 for, 0 against, no abstentions, Motion #35 passed.

**Motion#36**, by George Fishel, 2<sup>nd</sup> many, proposed to submit a Motion to IEEE LMSC executive committee: that IEEE initiate a review of the IEEE-ISTO procedures and processes associated with standards development and take any action necessary to assure the integrity of the IEEE Standards process and report back to IEEE LMSC.  
Results: 15 for, 0 against, 1 abstentions, Motion #36 passed.

**Proposed Liaison between ETSI and IEEE802.16.3**

Liaison letter proposing closer activities between ETSI Project (EP)-BRAN and IEEE802.16.3 Task Group.

**Motion#37**, by Jose Costa, 2<sup>nd</sup> many, proposed to send a liaison contribution to ETSI BRAN to thank them for their liaison (Doc. IEEE802,16l.00/18) and to inform them of the draft FRD for information and comment (IEEE802.16.3-00/02r3).

Results: 16 for, 1 against, 2 abstentions, Motion #37 passed.

***Review the Proposed Development Plan*** (IEEE 802.16.3-00/03r2)  
**Chaired by: Brian Kiernan**

**Motion#38**, by Brian Kiernan, proposed to adopt the proposed and modified development plan as presented to the task group.

Results: 10 for, 0 against, 0 abstentions, Motion #38 passed.

**Motion#39**, by David Trinkwon, 2<sup>nd</sup> Jose Costa proposed to re-open the Key Characteristics list.

Results: 8 for, 0 against, 0 abstentions, Motion #39 passed.

The revised Key Characteristics List was re-opened for discussion.

**Motion#40**, by David Trinkwon, 2<sup>nd</sup> Chet Shirali proposed to add section heading for PHY and add another section heading for MAC and System characteristics to the Key Characteristics list.

Question called, 23 for, 0 against, 0 abstentions

Motion results: 21 for, 1 against, 1 abstentions, Motion #40 passed.

**Motion#41**, by David Trinkwon, 2<sup>nd</sup> Huan Chun proposed to remove the Regulatory Requirements from the PHY heading to the System Charac.

Results: 17 for, 0 against, 1 abstentions, Motion #41 passed.

**Motion#42**, by Jose Costa, 2<sup>nd</sup> Anader Benyamin-Seeyar proposed to remove the Transmitter/Receiver Performance Requirements item from the PHY heading to the System Characteristics heading.

Results: 16 for, 2 against, 0 abstentions, Motion #42 passed.

**Motion#43**, by David Trinkwon, 2<sup>nd</sup> Chet proposed to add capacity under the System Characteristics heading.

Results: 8 for, 14 against, 0 abstentions, Motion #43 failed.

**Motion#44**, by David Trinkwon, 2<sup>nd</sup> Chet, proposed to **re-adopt** the re-opened and modified Key Characteristics list document (IEEE802.16.3-00\_07), which includes headings of: PHY, MAC, and System Characteristics.

Results: 12 for, 0 against, 0 abstentions, Motion #44 passed.

***Adoption of Ad Hoc proposal on Wireless Access Reference Model***  
**Chaired by: George Fishel**

**Motion#45**, by David Twinkwon, 2<sup>nd</sup> Jose Costa, proposed to **adopt** the modified Wireless Access Reference Model done by the Ad Hoc committee on July 11th, into the Functional Requirement Document.

Results: Motion #45 passed unanimously without opposition.

**Motion#46**, by David Twinkwon, 2<sup>nd</sup> Anader Benyamin-Seeyar, proposed to put repeater function as an optional repeater function (description TBD) into FRD.

Results: Motion #46 passed unanimously without opposition.

**Motion#47**, by Jose Costa, 2<sup>nd</sup> David Trinkwon, proposed to form an Ad Hoc committee to determine terms, acronyms, and glossary for the FRD document.

Results: Motion #47 passed unanimously without opposition.

**Review of 802.16.3 FRD was adjourned at 2:00 PM.**

The proposed Invitation for Contribution on Key Characteristics and Evaluation Criteria for Session #9 was presented by Brian Kiernan and changes proposed by the task group were incorporated.

**Motion#48**, Brian Kiernan, proposed to adopt the Invitation for Contribution on Key Characteristics and Evaluation Criteria for Session #9 as presented to the task group.

Results: Motion #48 passed unanimously without opposition.

**Motion#49**, Brian Kiernan, proposed to adjourn the session.

Results: Motion #49 passed unanimously without opposition.

**The July 13, 2000 session adjourned at 2:30 PM.**