

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16-2004/Cor1/D3**

Ballot Number: **0001008**

Comment Date

Comment # **257**

Comment submitted by: **Lalit**

Kotecha

Member

7/10/2005

Comment Type **Technical, Binding**

Starting Page # **103**

Starting Line # **40**

Fig/Table#

Section **8.4.4.7**

Deletion of sec 8.4.4.7 violates PAR.

Sec 8.4.4.7 was introduced to enrich 802.16 standards for using beam-forming technologies. This section has gone through numerous informal and formal discussion before adopted by working group as a part of the standard

Suggested Remedy

Revert deletion of sec 8.4.4.7 - bring back this section into standards

Proposed Resolution

Recommendation:

Recommendation by

Reason for Recommendation

Resolution of Group

Decision of Group: **Rejected**

Reason for Group's Decision/Resolution

The section was deleted since members identified a number of operational problems in the direct beam forming mode and unless the problems are fixed the section should be deleted.

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8/6/2005

IEEE 802.16-05/042r5

Document under Review: **P802.16-2004/Cor1/D3**

Ballot Number: **0001008**

Comment Date

Comment # **522**

Comment submitted by: John

Humbert

Member

7/10/2005

Comment Type **Technical, Binding** Starting Page # **208** Starting Line # **24** Fig/Table# Section **12.4**

[Identical comment submitted by John Humbert, Chris Seagren, Ivy Kelly, Mark Lipford, Serge Manning, Nick J. Baustert]

Due to regulatory changes in spectrum channel allocations (for example, in US BRS band), the enabled channel bandwidths are not currently available in licensed band allocation in the system profiles

Suggested Remedy

Make 10 MHz OFDMA channels available for use in licensed bands.

In Table 411, change OFDMA_profP8 description to "WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 10 MHz channel basic PHY Profile"

Change section title of 12.4.3.9 to "WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 10 MHz channel basic PHY Profile"

Delete Operation Mode from Table 421

Proposed Resolution

Recommendation:

Recommendation by

Reason for Recommendation

Resolution of Group

Decision of Group: Rejected

Reason for Group's Decision/Resolution

Vote to accept the comment:

In favor: 13

Against: 14

Fails

1. The BRS band focuses on mobility and not fixed applications
2. The solution is incomplete since it does not address the RF profiles

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IEEE 802.16-05/042r5

Document under Review: **P802.16-2004/Cor1/D3**

Ballot Number: **0001008**

Comment Date

Comment # **523**

Comment submitted by: John

Humbert

Member

7/10/2005

Comment Type **Technical, Binding** Starting Page # **208** Starting Line # **26** Fig/Table# Section **12.4**

[Identical comment submitted by John Humbert, Chris Seagren, Ivy Kelly, Mark Lipford, Serge Manning, Nick J. Baustert]

Due to regulatory changes in spectrum channel allocations (for example, in US BRS band), the enabled channel bandwidths are not currently available in licensed band allocation in the system profiles

Suggested Remedy

Make 20 MHz OFDMA channels available for use in licensed bands.

In Table 411, change OFDMA_profP9 description to "WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 20 MHz channel basic PHY Profile"

Change section title of 12.4.3.10 to "WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 20 MHz channel basic PHY Profile"

Delete Operation Mode from Table 422

Proposed Resolution

Recommendation:

Recommendation by

Reason for Recommendation

Resolution of Group

Decision of Group: Rejected

Reason for Group's Decision/Resolution

Vote to accept the comment:

In favor: 17

Against: 11

Fails

Motion to delete the following reason for rejection:

"The BRS band focuses on mobility and not fixed applications" by Zion Hadad, seconded by Yossi Segal

In favor: 16

Against: 8

Fails on grounds of not gaining 75%

Reason for rejection of the comment:

The BRS band focuses on mobility and not fixed applications ...

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IEEE 802.16-05/042r5

The solution is incomplete since it does not address the RF profiles

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Document under Review: **P802.16-2004/Cor1/D3**

Ballot Number: **0001008**

Comment Date

Comment # **525**

Comment submitted by: John

Humbert

Member

7/10/2005

Comment Type **Technical, Binding** Starting Page # **208** Starting Line # **28** Fig/Table# Section **12.4**

[Identical comment submitted by John Humbert, Chris Seagren, Ivy Kelly, Mark Lipford, Serge Manning, Nick J. Baustert]

Due to regulatory changes in spectrum channel allocations (for example, in US BRS band), the enabled channel bandwidths are not currently available in licensed band allocation in the system profiles

Suggested Remedy

Make 5 MHz OFDMA channels available for use in licensed and unlicensed bands.

In Table 411, add OFDMA_profP10 with description "WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 5 MHz channel basic PHY Profile"

Add Section 12.4.3.11 as follows:

12.4.3.11 "WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 5 MHz channel basic PHY Profile"

Profile identifier: OFDMA_ProfP10.

Systems implementing OFDMA_ProfP10 shall meet the minimum performance requirements listed in Table 422b:

Table 422b—Minimum Performance requirements for OFDMA_ProfP10

Capability	Minimum Performance
Channel bandwidth	5 MHz
BER performance threshold, BER=10 ⁻⁶ (using all subchannels BS/SS)	
QPSK-1/2	<= -86dBm
QPSK-3/4	<= -84dBm
16QAM-1/2	<= -79dBm
16QAM-3/4	<= -77dBm
64QAM-2/3 (if 64-QAM supported)	<= -72dBm
64QAM-3/4 (if 64-QAM supported)	<= -71dBm
[Add to sensitivity 10*log10(NumberOfSub-ChannelsUsed/32) when using less subchannels in the BS Rx]	
Reference frequency tolerance	
BS	<= ± 2*10 ⁻⁶
SS to BS synchronization tolerance	<= 50 Hz
Frame duration code set	{2, 4,6}

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Proposed Resolution

Recommendation:

Recommendation by

Reason for Recommendation

Resolution of Group

Decision of Group: [Withdrawn](#)

Reason for Group's Decision/Resolution

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Document under Review: **P802.16-2004/Cor1/D3**

Ballot Number: **0001008**

Comment Date

Comment # **552**

Comment submitted by: John

Humbert

Member

7/10/2005

Comment Type **Technical, Binding** Starting Page # Starting Line # Fig/Table# Section **12.3**

[Identical comment submitted by John Humbert, Chris Seagren, Ivy Kelly, Mark Lipford, Serge Manning, Nick J. Baustert]

Due to regulatory changes in spectrum channel allocations (for example, in US BRS band), the enabled channel bandwidths are not currently available in licensed band allocation in the system profiles

Suggested Remedy

Make 10 MHz OFDM channels available for use in licensed bands.

In Table 398, change profP3_10 description to "WirelessMAN-OFDM and WirelessHUMAN(-OFDM) 10 MHz channel basic PHY Profile"

Change section title of 12.3.2.6 to "profP3_10: WirelessMAN-OFDMA and WirelessHUMAN(-OFDMA) 10 MHz channel basic PHY Profile"

Under mandatory features (in 12.3.2.6):

Delete "-License-exempt band usage only" from mandatory features

Change "- DFS capability" to "- DFS capability (for license-exempt bands only)"

Change Table 410 add/change to "Spectral mask" capability

For licensed bands, spectral mask shall follow local regulations.	
For license-exempt bands, sSpectral mask (IB):	Linear interpolation
f0 ± 0 MHz	between points:
f0 ± 4.75 MHz	0 dBr
f0 ± 5.45 MHz	0 dBr
f0 ± 9.75 MHz	-25 dBr
f0 ± 14.75 MHz	-32 dBr
	-50 dBr

Proposed Resolution

Recommendation:

Recommendation by

Reason for Recommendation

Resolution of Group

Decision of Group: **Withdrawn**

Reason for Group's Decision/Resolution