

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Various Corrections	
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Re:	Call for contribution IEEE 802.16d-03/02	
Abstract	Corrections related to terminology, REP/RSP TLV encodings and ARQ	
Purpose	For inclusion in the 802.16d amendment document	
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Various Corrections

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1. References

[1] IEEE 802.16a

2. Corrections

2.1. Terminology

- 2.1.1. In section 8.4.3.5 of [1] the term “carrier index” is used:
“Carrier Mapping (carrier index: I value Q value)”
It should be “frequency offset index” as the values are both positive and negative (carrier index can only be positive).
Proposal: change “carrier index” to “frequency offset index”.
- 2.1.2. Table 116be of [1] uses the term “carrier offset index” which is not defined. It should be “frequency offset index”.
Proposal: change “carrier offset index” in Table 116be to “frequency offset index”.
- 2.1.3. In the second paragraph of section 8.4.5.3.3 of [1], the term “carrier index” is used with a wrong meaning.
Proposal: change this paragraph to
”If the chosen REQ Region is a REQ Region-Focused, after choosing its four parameters, the SS shall transmit, during the chosen Transmit Opportunity in the chosen frame, four carriers which comprise the chosen contention channel as defined in Table 116be. The amplitude of all other carriers shall be zero.”

2.2. REP/RSP TLV encodings

The second table of section 11.1.6 of [1] is not constructed according to the TLV conventions. Different report parameters should not be described by the same TLV encodings. Each report parameter should have its own TLV code.

Proposal: change the second table in section 11.1.6 to:

REP-REQ Report Type	Name	Type	Length	value
bit#0=1	Channel number	1.1	1	Physical channel number (see 8.6.1) to be reported on.
bit#0 =1	Start Frame	1.2	2	Frame number in which measurement for this channel started.
bit#0 =1	Duration	1.3	3	Cumulative measurement duration on the channel in multiples of T_s . For any value exceeding 0xFFFFFFFF, report 0xFFFFFFFF.
bit#0=1	Basic Report	1.4	1	Bit#0: Wireless Human detected on the channel Bit#1:Unknown transmissions detected on the channel Bit#2:Primary User detected on the channel Bit#3:Unmeasured. Channel not measured
bit#1 =1	CINR Report	1.5	2	1 byte: mean (see also 8.3.2, 8.4.7, 8.5.11) for details) 1 byte: standard deviation
bit#2=1	RSSI Report	1.6	2	1 byte: mean (see also 8.3.2, 8.4.7, 8.5.11) for details) 1 byte: standard deviation

2.3. ARQ

In sections 11.4.8.18.4, 11.4.8.18.5 and 11.4.8.18.7 it is stated that the ARQ_FRAGMENT_LIFETIME, ARQ_SYNC_LOSS_TIMEOUT and ARQ_RX_PURGE_TIMEOUT are to be considered infinite when this parameter is set to zero. This is not good. In a compliance test, this can never be tested.

Proposal: delete “consider infinite” in the text and set in the tables 0 = reserved :

11.4.8.18.4 ARQ FRAGMENT LIFETIME

The BS shall set this parameter. The DSA-REQ or DSA-RSP messages shall contain the value of this parameter as set by the BS.

~~If this parameter is set to 0, then the ARQ_FRAGMENT_LIFETIME value shall be considered infinite.~~

Type	Length	Value	Scope
[24/25].17	2	0 = Reserved 1 - 655350 (10 μ s granularity)	DSA-REQ DSA-RSP

11.4.8.18.5 ARQ_SYNC_LOSS_TIMEOUT

The BS shall set this parameter. The DSA-REQ or DSA-RSP messages shall contain the value of this parameter as set by the BS.

~~If this parameter is set to 0, then the ARQ_SYNC_LOSS_TIMEOUT value shall be considered infinite.~~

Type	Length	Value	Scope
[24/25].19	2	0 = Reserved 1 - 655350 (10 μ s granularity)	DSA-REQ DSA-RSP

11.4.8.18.5 ARQ_RX_PURGE_TIMEOUT

The BS shall set this parameter. The DSA-REQ or DSA-RSP messages shall contain the value of this parameter as set by the BS.
~~If this parameter is set to 0, then the ARQ_RX_PURGE_TIMEOUT value shall be considered infinite.~~

Type	Length	Value	Scope
[24/25].23	2	0= Reserved 1-655350 (10 μ s granularity)	DSA-REQ DSA-RSP