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Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Interpretation of IEEE Standard 802.16**
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Re:	IEEE Standard 802.16
Abstract	This is a suggested Interpretation of IEEE Standard 802.16.
Purpose	For approval by the Working Group as an official Interpretation.
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Interpretation of IEEE Standard 802.16

Roger Marks

This table corrects editorial errors in IEEE Std 802.16-2001.

Page	Line	Comment	Remedy
168	12	"DSA-RSP Pending" self-loop is missing the case of DSX-RVD.	Add "(DSX-RVD /)" to the end of the list of possible transitions for the self-loop of state "DSA-RSP Pending". {For example, see Fig. 69 on Page 166}
214	31	Item (a) is an obvious copy-and-paste typo. It makes no sense to clear Key Request retry timer in step (a), since it is set to Operational Wait Timeout in (c) anyway. Instead, when TEK Invalid message is sent, "TEK refresh timer" needs to be cleared (just as in Line 23) so that it will not cause unnecesary timeout.	Correct the line to read "a) clear TEK refresh timer".
251	52-58	The phrase "modulation scheme in use" is ambiguous. There may be many modulation schemes in use. Presumably, this refers to the burst following the preamble. If so, then we still have an ambiguity in the case of the Frame Start Preamble, since the burst may contain several modulation schemes. While this ambiguity should be resolved for the sake of clarity, the resolution has no technical implications. In the constant peak power scheme, what matters is not the "modulation scheme in use" but the power of the "outermost constellation points of the modulation scheme in use". That's the same for all modulation schemes. Likewise, in the constant mean power scheme, all that matters is the "mean power of the constellation points of the modulation scheme in use", and that is the same for all modulation schemes.	In Lines 52-58, change both instances of "modulation scheme in use" to "modulation scheme(s) in the burst".
160	45-48	"Configuration of provisioned Service Flows follows the Registration process. When this is complete, the BS passes service flow encodings to the SS in multiple DSA-REQ messages." suggests that DSA-REQ messages IMMEDIATELY follow Registration. However, this leaves out steps (g), (h), and (i) on page 128.	Change "Configuration of provisioned Service Flows follows the Registration process." to: "Configuration of connections enabling Service Flows for provisioned services follows the transfer of the operational parameters, as shown Fig. 45."

Multiple	-	The terms "parameter file" and "configuration file" are used interchangeably; the latter is defined by Clause 9, but the former is never defined.	Change "parameter file" to "configuration file" globally. Follow "configuration file" with " (9.2)" unless a cross-reference is already in place.
Multiple	-	The terms "Security Sublayer" and "Privacy Sublayer" are used interchangeably; the latter is defined by Clause 7, but the former is never defined.	Change "Security Sublayer" to "Privacy Sublayer" on Page 26, Line 27; Page 27, Lines 19 and 20; and Page 199, Lines 18.
342	7	Invalid range of values for 1 byte field.	Replace "1-65535" with "0-255".
59	22	"CS pass through" is not defined or referred to elsewhere in the text.	Delete the line "CS pass through,".
261	5-6	The sentence implies that the randomization is applied only to the first bit of each burst. This is definitely not the case, as is clear from the remainder of the subclause; it would make no sense as a randomization. Clearly, the intent was for the randomization to be applied to each bit, *beginning* with the first.	Change "The seed value shall be used to calculate the randomization bit, which is combined in an XOR with the first bit of data of each burst." to "The seed value shall be used to calculate the randomization bits, which are combined in an XOR operation with the serialized bit stream of each burst."
123	15	The sentence "The UL-MAP defines the uplink usage in terms of the offset from the previous IE start (the length) in numbers of mini-slots." incorrectly reflects the actual definition of the offset, which is detailed in 8.2.6.1.2.	Require sentence of 6.2.7.5 (“Uplink Map”) reading: "The UL-MAP defines the uplink usage in terms of the offset, in units of mini-slots, of the burst relative to the Allocation Start Time (8.2.6.1.2)."
25	59	The air interface needs a name in order to accommodate new air interface names under development in P802.16a.	Insert this paragraph: "The single-carrier modulation air interface specified herein for 10-66 GHz shall be known as the "WirelessMAN-SC" air interface.
353	16	ARQ cannot be an option since 6.2.4 disallows ARQ.	Delete line "ARQ is optional."
279	58	Description of Null IE requires clarification, parallel to statement regarding downlink on Page 254, Line 58.	In Table 108, under "Description" column of "Null IE" row, change text to: "Ending offset of the previous grant. Indicates the first minislot after the end of the UL allocation. The burst profile is well known and shall not be included in the UCD message. Used to bound the length of the last actual interval allocation."
-	-	Multiple references to "parameter file" should refer instead to "Configuration File" of Clause 9.	• Page 295, Line 11: Rename Subclause 9.2 to "SS Configuration File" • Page 295, Line 16: change "in a file" to "in the SS Configuration File" • Page 77, Line 38: change "by a downloaded parameter file" to "by the downloaded SS Configuration File" • Page 77, Line 40: change "by a downloaded parameter file" to "by the downloaded SS Configuration File" • Page 144, Line 31: change "the parameter file" to "the SS Configuration File" • Page 206, Line 56: change "parameter file" to "SS

			Configuration File" • Page 207, Line 54: change "parameter file" to "SS Configuration File" • Page 213, Line 3: change "in TFTP downloaded parameter file " to "in the TFTP-downloaded SS Configuration File" • Page 213, Line 16: change "parameter file " to "SS Configuration File"
71	19	There is an inconsistency about the Connection ID of the MCA-REQ and MCA-RSP messages. In Table 13, the MCA-REQ and MCA-RSP messages use the Basic CID. But on page 98, line 27 and page 99, line 4 the MCA-REQ and MCA-RSP messages use the Primary Management CID.	Fix Table 13 accordingly.
206	44	"RF MAC" is not the proper term used elsewhere in the document.	Change "RF MAC" to "MAC".
154	26	"RF MAC" is not the proper term used elsewhere in the document.	Change "RF MAC" to "MAC".
Page #s below are from markup			
5		Error in definition of “basic connection”, per 6.2.9.5.	In definition of “basic connection”, change “initial subscriber station registration to: "ranging".
18			In second paragraph of 5.2.3, change: "management operations [configuration file, registration, and Simple Network Managment Protocol (SNMP)]" to simply "network management operations" In next sentence, change "SNMP" to "Simple Network Managment Protocol (SNMP)"
36			In first paragraph of 6.2.1, change "registration" to "initial ranging"
36			In third paragraph of 6.2.1, change “higher layers of the BS set up” to "BS initiates the set-up of"
85			At start of 6.2.6, change “at registration” to: ", in initial system access, "
130			In 6.2.14.7.2, change "Registration process outlined above" to "procedure outlined in 6.2.14.7.1."
151			In 6.2.14.8.4 , Change “If a Service Flow that was provisioned during registration is deactivated, the provisioning information for that

			Service Flow shall be maintained until the Service Flow is reactivated.” to "If a Service Flow for a provisioned service is deactivated, the provisioning information for that service is maintained until the Service Flow is reactivated."
162			In 6.2.14.8.5 , Change “reregister. Also, if a Service Flow that was provisioned during registration is deleted, the provisioning information for that Service Flow is lost until the SS reregisters. However, the deletion of a provisioned Service Flow shall not cause an SS to re-register. Therefore, care should be taken before deleting such Service Flows.” to: "re-initialize. Also, if a Service Flow for a provisioned service is deleted, the ability to re-establish the Service Flow for that service is network management dependent. Therefore, care should be taken before deleting such Service Flows. However, the deletion of a provisioned Service Flow shall not cause an SS to re-initialize."
294			In 11.4.5.1 , Delete "Bit#:". Also, change "9-15" to "9-255"
304			In 11.4.9.2, change "Type" to "pcst" In 11.4.9.2, change "type" to "pcst" In 11.4.9.2, delete "[24/25]" from all 5 rows In 11.4.9.2, add 4 rows to end of table: 104 Packet IPV4 over 802.3 105 Packet IPV6 over 802.3 106 Packet IPV4 over 802.1Q VLAN 107 Packet IPV6 over 802.1Q VLAN
305			In 11.4.9.3, change second and third sentences to: "The packet convergence sublayer specific type is denoted in the tables in the following sections by the variable "pcst", which takes its value from the table in 11.4.9.2 (e.g., 100, 101, …) depending upon the exact packet CS used for the service."
305			In the tables of sections 11.4.9.3.4 through 11.4.9.3.7.6: [ending with 11.4.9.4 on p. 315] change ".100." to ".pcst."