|  |  |  |
| --- | --- | --- |
| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | **Clarification of some TLVs defined to indicate neighbor SBSs** | |
| Date Submitted | **2014-10-31** | |
| Source(s) | Jaesun Cha, Eunkyung Kim, Jae-joon Park, Seungkwon Baek, Sungcheol Chang  ETRI | E-mail: [jscha@etri.re.kr](mailto:jscha@etri.re.kr)  \*<<http://standards.ieee.org/faqs/affiliationFAQ.html>> |
| Re: | Call for Reply Comments on IEEE P802.16q/D3 Sponsor Ballot comments | |
| Abstract | This contribution clarifies when and how Scanning result TLV and Recommended SBS information TLV are used. | |
| Purpose | To discuss and adopt the proposed texts in IEEE P802.16q draft | |
| Notice | *This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups*. It represents only the views of the participants listed in the “Source(s)” field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein. | |
| Release | The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16. | |
| Patent Policy | The contributor is familiar with the IEEE-SA Patent Policy and Procedures:  <<http://standards.ieee.org/guides/bylaws/sect6-7.html#6>> and <<http://standards.ieee.org/guides/opman/sect6.html#6.3>>.  Further information is located at <<http://standards.ieee.org/board/pat/pat-material.html>> and <<http://standards.ieee.org/board/pat>>. | |

# Clarification of some TLVs defined to indicate neighbor SBSs

Jaesun Cha, Eunkyung Kim, Jae-joon Park, Seungkwon Baek, Sungcheol Chang

ETRI

# Introduction

In the last teleconference, it was agreed that Scanning result TLV and Recommended SBS information TLV are used to indicate neighbor SBSs that are not included in MOB\_NBR-ADV message. As a result, texts in relevant subclauses (6.3.2.3.43, 6.3.2.3.44, 6.3.2.3.45, and 17.2.1.1) have been changed based on the agreement. However, texts in subclause 11.19.4 and 11.20.4 are still inconsistent with the agreement. So, this contribution proposes to change descriptions on Scanning result TLV and Recommended SBS information TLV in Clause 11 based on the agreement made in the last teleconference.

# Proposed Texts

----------------- Start of the text proposal --------------------------------------------------------------------------------------

[*Remedy: Change subclause 11.19.4 as follows:*]

**11.19.4 Scanning result**

~~Scanning result TLV may be included in MOB\_SCN-REP message to report scanning result of neighbor SBSs BSIDs are not shared with the serving BS. If the MS acquires BSID from the neighbor SBS during scanning, BSID TLV shall be present in this compound TLV. Otherwise, FA index TLV, Center frequency TLV and Preamble index TLV shall be present in this compound TLV instead of the BSID TLV to indicate the neighbor BS reported.~~

This compound TLV is included in MOB\_SCN-REP message to report scanning result of neighbor SBSs that are not in MOB\_NBR-ADV message. FA index TLV, Center frequency TLV, and Preamble index TLV shall be present in this compound TLV to identify an SBS scanned. BS CINR mean TLV, BS RSSI mean TLV, and/or Relative delay TLV may be included in this compound TLV to report the scanning result (see 11.8.6).

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Length | Value |
| Scanning result | 4 | Variable |  |
| ~~BSID~~ | ~~4.1~~ | ~~1~~ | ~~BSID of the neighbor SBS reported in MOB\_SCN-REP message. If BSID TLV is present, FA index TLV, Center frequency TLV and Preamble index TLV are not present in this compound TLV.~~ |
| FA index | 4.2 | 1 | See 6.3.2.3.42 |
| Center frequency | 4.3 | 4 | See 11.4.1 |
| Preamble index | 4.4 | 1 | See 6.3.2.3.42 |
| BS CINR mean | 4.5 | 1 | See 6.3.2.3.45 and 11.8.6 |
| BS RSSI mean | 4.6 | 1 | See 6.3.2.3.45 and 11.8.6 |
| Relative delay | 4.7 | 1 | See 6.3.2.3.45 and 11.8.6 |

[*Remedy: Change subclause 11.20.4 as follows:*]

**11.20.4 Recommended SBS information**

~~This compound TLV may be included in the MOB\_SCN-REQ/RSP message to indicate neighbor SBSs of which BSIDs are not defined in the MOB\_NBR-ADV message or not shared between the MS and the serv­ing BS.~~

This compound TLV is included in the MOB\_SCN-REQ/RSP message to indicate neighbor SBSs that are not in the MOB\_NBR-ADV message.

|  |  |  |  |
| --- | --- | --- | --- |
| ~~Name~~ | ~~Type~~ | ~~Length~~ | ~~Value~~ |
| ~~Recommended SBS information~~ | ~~4~~ | ~~variable~~ |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Length | Value |
| Recommended SBS information | 4 | 6 |  |
| ~~BSID~~ | ~~4.1~~ | ~~1~~ | ~~BSID of the neighbor SBS.~~ |
| FA index | ~~4.2~~  4.1 | 1 | ~~If Recommended BS information TLV is included in the MOB\_SCN-REQ message and BSID TLV is present in the Recommended BS information TLV, FA index TLV is not present. (~~See 6.3.2.3.42~~)~~ |
| Center frequency | ~~4.3~~  4.2 | 4 | ~~If Recommended BS information TLV is included in the MOB\_SCN-REQ message and BSID TLV is present in the Recommended BS information TLV, Center frequency TLV is not present. (~~See 11.4.1~~)~~ |
| Preamble index | ~~4.4~~  4.3 | 1 | ~~If Recommended BS information TLV is included in the MOB\_SCN-REQ message and BSID TLV is present in the Recommended BS information TLV, Preamble index TLV is not present. (~~See 6.3.2.3.42~~)~~ |

----------------- End of the text proposal --------------------------------------------------------------------------------------