IEEE P802.11
Wireless LANs

|  |
| --- |
| CC8 Comment Resolutions on MaxChannelTime |
| Date: 2013-05-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Jae Seung Lee | ETRI | 161 Gajeong-dong, Yuseong-gu, Daejeon, Korea | +82 42 860 1326 | jasonlee@etri.re.kr |
| Minho Cheong | ETRI | 161 Gajeong-dong, Yuseong-gu, Daejeon, Korea | +82 42 860 5635 | minho@etri.re.kr |
| Sok-kyu Lee | ETRI | 161 Gajeong-dong, Yuseong-gu, Daejeon, Korea | +82 42 860 5919 | sk-lee@etri.re.kr |

Abstract

This document proposes resolutions on CIDs 1357, 1353, 1106 and 1053 that are related to MaxChannelTime.

Changes in the text refer to: Draft P802.11ac/D0.5

Comments (CID 1357, 1353 and 1106)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause**  | **Page** | **Line** | **Type** | **Comment** | **Proposed Change** | **Proposed****Resolution** |
| 1357 | Ping Fang | 10.1.4.3.3 | 62 | 3 | T | there is no Max Channel Time in MLME-SCAN.request | The "Max Channel Time" is supposed to be "MaxChannelTime" . "Max Channel Time" and "MaxChannelTime" is really confusing. Suggested to change "Max Channel Time" to " Max Reception Time" for the whole draft. | Revised. See editing instruction in 11-13/0604 |
| 1353 | Ping Fang | 8.4.2.178 | 34 | 60 | T | There is no Max Channel Time in Figure 10-3c and Figure 10-3d | Max Channel Time and MaxChannelTime is misused here. Need to clarify the text in page 34 or text in Figure 10-3c | Revised. See editing instruction in 11-13/0604 |
| 1106 | Jarkko Kneckt | 8.4.2.178 | 34 | 47 | T | The Max Channel Time is equal to the MaxChannelTime. The description of the field should be indicate this more clearly | Change all instances of "Max Channel Time" to "MaxChannelTime". | Revised. See editing instruction in 11-13/0604 |

Discussion

In current 11ai draft, the Max Channel Time field in the Probe Response Reception Time element presents the time that the transmitter will be available after the transmission of the Probe Request to receive the Probe Responses. It should be set to MaxChannelTime in the baseline spec since MaxChannelTime in MLME-SCAN.request represents maximum time for a STA to spend on each channel when scanning.

But in D0.5, the field name “Max Channel Time” is confusing and also there are some errors related to “Max Channel Time” and “MaxChannelTime” in some sentences in the draft.

As commented by the commenter, it is better to rename the field “Max Reception Time”. It is also necessary to clearly indicate which value is contained in the “Max Reception Time” subfield, and the errors in the draft have to be fixed.

**Proposed resolution**:

Revised.

See editing instruction in 11-13/0604

Comments (CID 1053)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause**  | **Page** | **Line** | **Type** | **Comment** | **Proposed Change** | **Proposed****Resolution** |
| 1053 | Graham Smith | 10.1.4.3.8 | 65 | 9 | T | "...when the elapsed time exceeds the value of the Max Channel Time field of the Probe Response Reception Time element of the Probe Request frame." Not sure if "elapsed time" is clear. Should be along the lines of "the Probe Response frame has not been transmitted within the time given in the Max Channel Time field, after reception of the Probe Request, then the STA with dot11FILSActivated shall discard the pending Probe Response." | Suggest re-wording "If the Probe Response Reception Time element is present in the Probe Request frame, and the Probe Response frame has not been transmitted within the time given in the Max Channel Time field, after reception of the Probe Request, then the STA with dot11FILSActivated shall discard the pending Probe Response." | Revised. See editing instruction in 11-13/0604 |

Discussion

We agree that ‘elapsed time’ in the current sentence is not clear, since it does not state the starting point of counting the time. Adding “after reception of the Probe Request” to the sentence will specify the starting point and can resolve the ambiguity issue.

That is, Reception time of the Probe Request and the time indicated by the Max Reception Time field in the Probe Request can provide information to the responding STAs on time widow for transmitting the Probe Response.

**Proposed resolution**:

Revised.

See editing instruction in 11-13/0604

**Editing Instructions**:

***Change the sentence in Section 8.4.2.178 of TGai Draft D0.5 as follows: (P34L47)***

**8.4.2.178 Probe Response Reception Time element**

|  |  |  |
| --- | --- | --- |
| **Element ID** | **Length** | **~~Max Channel Time~~****Max Reception Time** |

 Octets: 1 1 1

**Figure 8-401cy — Probe Response Reception Time element**

The Element ID is equal to the Probe Response Reception Time element value in Table 8-54.

The ~~Max Channel Time~~ Max Reception Time field contains the value of MaxChannelTime represented in an unsigned integer of units of 200 microseconds. It presents the time that the transmitter will be available after the transmission of the Probe Request to receive the Probe Responses since it contains the value of MaxChannelTime as shown in Figure 10-3c and Figure 10-3d.

***Change the sentence in Section 10.1.4.3.3 of TGai Draft D0.5 as follows: (P62L1)***

**10.1.4.3.3 Sending a probe request**

……..

A Probe Request frame may contain Probe Response Reception Time element. When present, the ~~Max Channel Time~~ Max Reception Time field of the Probe Response Reception Time element of the Probe Request frame is set to the ~~Max Channel Time~~ MaxChannelTime of the MLME-SCAN.request as defined in 8,4.2.178.

***Change the sentence in Section 10.1.4.3.8 of TGai Draft D0.5 as follows: (P65L6)***

**10.1.4.3.8 Sending a response to probe request**

**………**

If the Probe Response Reception Time element is present in the Probe Request frame, the responding STA with dot11FILSActivated true shall discard the pending untransmitted Probe Response frame to the Probe Request frame when the elapsed time after reception of the Probe Request exceeds the time indicated by the value of the ~~Max Channel Time~~ Max Reception Time field of the Probe Response Reception Time element of the Probe Request frame.