IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LB 200 MAC Service Type comment resolution | | | | |
| Date: 2014-04-18 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Peter Loc | Huawei |  |  | peterloc@iwirelesstech.com |

Abstract

This submission proposes comment resolutions of MAC Service Type comments from TGah Draft 1.0.

* CIDs: 1403, 2639, 2640, 2641 (4 CIDs)

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGah Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGah Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGah Editor: Editing instructions preceded by “TGah Editor” are instructions to the TGah editor to modify existing material in the TGah draft. As a result of adopting the changes, the TGah editor will execute the instructions rather than copy them to the TGah Draft.***

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 1403 | 222 | 10.3.5.11 | This subclause describes different service types for STAs. It seems that the description is inconsistent with the decision process of an AP which filters out the STAs based on the STA Type. To keep consistency clarify that different service types actually refer to different STA Types: Sensor type STA, non-Sensor STA or any type. Also the Service Type field is missing in the frames mentioned. Hence, it seems better to simply refer to the STA Type Support subfield in the S1G Capabilities element. | Refer to STA Type definition instead of Service Type across this section. | Revised:  See 11-14-xxxx-00-00ah |
| 2639 | 223 | 10.3.5.11 | The service type field (Figure 8-401ct--Service Type field format) contains descriptions for 3 different types of services. However, this subclause only refers to sensor and offloading service types, missing out critical service type. | Replace the first paragraph (lines 15-18) with the following: Different STAs may support different types of services, i.e. sensor services, offloading services and critical or emergency services as defined in Figure 8-401ct. These service types may have different requirements on QoS, packet size, duty cycle etc. An AP can optimize the system operating parameters with the knowledge of service type of each STA or provides a high priority on association/reassociation for critical service type such as health care, home, industrial, alarm monitoring or emergency service devices. | Revised. See 11-14-xxxx-00-00ah |
| 2640 | 223 | 10.3.5.11 | There is no description on how service type information may be used. | Replace the second paragraph of this subclause (lines 20 to 23) with the following paragraph: A STA may indicate to the AP their service type information during association by adding a service type field in the AID Request element in an Association Request frame or a Reassociation Request frame as described in 8.3.3.5 (Association Request frame format) and 8.3.3.7 (Reassociation Request frame format). After receiving the service type information from the STA, the AP may assign a particular AID to this STA based on its service type. | Revised. See 11-14-xxxx-00-00ah |
| 2641 | 111 | 8.4.2.170m | The Authentication Control element (Figure 8-401dm) is used to mitigate contention among Authentication requesting devices. Since there are currently 3 service types that have been defined in the draft, adding a service type field to the Authentication Control element would provide an additional means to reduce contention among Authentication Requesters. | Append the Service Type field (Figure 8-401ct--Service Type field) to the end of the Authentication Control element. Change The total length of the Information field on line 28, page 111 from 2 octets to 3 octets. | Withdrawn. See 11-14-xxxx-00-00ah |

**Discussion:**

**CID 1403, 2639, 2640, 2641**

See corresponding comments

**Propose:**

Revised for CID 1403, 2639, 2640, 2641 per discussion and editing instructions in 11-14/xxxxr0.

CID 1403

***TGah editor: Modify the sub-clause 10.3.5.11 as the following:***

***Replace line 15, page 223 “***Different STAs may support different types of services, for example sensor services and offloading services.” with the following

***“***A Sensor type STA supports only sensor services. Non-sensor type STAs may support different types of services, for example offloading and emergency services.”

CID 2639

***TGah editor: Modify the sub-clause 10.3.5.11 as the following:***

***Add to the end of the paragraph from lines 15-18***

An AP can optimize the system operating parameters with the knowledge of  
service type of each STA or provide a high priority on association/reassociation  
for emergency service type such as health care, home, industrial, alarm monitoring or  
emergency service devices.

CID 2640

***TGah editor: Modify the sub-clause 10.3.5.11 as the following:***

Replace the following paragraph from line 20 to 23:

A STA may indicate the AP its service type information during association by adding a service type field in

the AID Request element in an Association Request frame or a Reassociation Request frame as described in

8.3.3.5 (Association Request frame format) and 8.3.3.7 (Reassociation Request frame format).

With:

A STA may indicate to the AP their service type information during association by  
adding a service type field in the AID Request element in an Association Request  
frame or a Reassociation Request frame as described in 8.3.3.5 (Association Request  
frame format) and 8.3.3.7 (Reassociation Request frame format). After receiving the  
service type information from the STA, the AP may assign a particular AID to this  
STA based on its service type.

CID 2641

Discussion:

A STA of the service type = emergency may set the Authentication Control bit of the S1G Capability Info field to 0 and the AP sets its Authentication Control threshold to 0 to allow the STA with service type = emergency to have priority access to authentication. Although it is not trivial, this procedure achieves the same effect as requested in the resolution of this comment. The commentor, who is also the author of this comment resolution, has agreed to withdraw the comment.