That IEEE P802.11
Wireless LANs

|  |
| --- |
|  TGai Text Specification for Active Scan Optimization |
| Date: 2012-11-14 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Liwen Chu  | STMicroelectronics |  |  | Liwen.chu@st.com |
| George Vlantis | STMicroelectronics |  |  | George.vlantis@st.com |

Abstract

The submission provides modifications to the normative text for changing Probe Response filter rules as proposed in 11-12/1263r2.

**8.2.4.1.4 To DS and From DS fields**

*Instructions to Editor: Change subclause 8.2.4.1.4 as shown with track changes*

The meaning of the combinations of values for the To DS and From DS fields are shown in Table 8-2.

**Table 8-2—To/From DS combinations in data frames**

|  |  |
| --- | --- |
| **To DS and****From DS values** | **Meaning** |
| To DS = 0From DS = 0 | A data frame direct from one STA to another STA within the same IBSS, a data frame direct from one non-AP STA to another non-AP STA within the same BSS, or a data frame outside the context of a BSS, as well as all management except some Probe Response and control frames. |
| To DS = 0From DS = 1 | A data frame destined for the DS or being sent by a STA associated with an AP to the PortAccess Entity in that AP.A unicast Probe Response that is sent by a FILS capable AP and can be used by a FILS capable STA whose MAC address is not RA of the Probe Response.  |
| To DS = 1From DS = 0 | A data frame exiting the DS or being sent by the Port Access Entity in an AP, or a group addressed Mesh Data frame with Mesh Control field present using the three-address MAC header format. |
| To DS = 1From DS = 1 | A data frame using the four-address MAC header format. This standard defines procedures for using this combination of field values only in a mesh BSS. |

**8.3.3.1 Format of management frame**

*Instructions to Editor: Change the second paragraph in subclause 8.3.3.1 as shown with track changes*

A STA uses the contents of the Address 1 field to perform the address matching for receive decisions. In the case where the Address 1 field contains a group address and the frame subtype is other than Beacon or the frame subtype Action, Category Multihop Action (Multihop Action frame), the Address 3 field also is validated to verify that the group addressed frame originated from a STA in the BSS of which the receiving STA is a member or from a mesh STA to which mesh peering is maintained. Details of addressing and forwarding of the group addressed frame in an MBSS are defined in 9.32.5. When the Address 1 field contains a group address and the frame subtype is either Probe Request or Action with Category Public, a wildcard BSSID value matches all receiving STA’s BSSIDs. If the frame subtype is Beacon, other address matching rules apply, as specified in 10.1.3.5. Frames of subtype Probe Request with a group address in the Address 1 field are additionally processed as described in 10.1.4.3.2. If the frame subtype is Action, the Category is Public, and the Action is 20/40 BSS Coexistence Management, then additional address matching rules for receive decisions apply as specified in 10.15 and 10.17. If the frame subtype is Probe Response, then additional address matching rules for receive decisions apply as specified in 10.1.4.3.1.

**10.1.4.3 Active Scanning**

**10.1.4.3.1 Introduction**

*Instructions to Editor: Add the following text to the end of Subclause 10.1.4.3.1*

When a FILS capable AP transmits an individually addressed Probe Response to a FILS capable STA that the AP intends to be received by all scanning FILS capable STAs, then the AP shall set the From DS field to 1. A scanning FILS capable STA that receives a frame of type Probe Response with the From DS field set to 1 should process the frame as if the RA field was set to the STA’s own MAC address.

**Motion-1:** To authorize the Editor to incorporate the text changes proposed in contribution *11-12/1399r0* to the draft TGai Specification Document.

Yes: \_\_\_\_\_\_\_\_\_\_\_\_;  No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;  Abstain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[Result of Motion]