IEEE P802.11
Wireless LANs

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| LB 200 Duplicate Detection and Recovery |
| Date: 2014-05-01 |
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Abstract

This submission proposes an edting instruction of sub-clause 9.3.2.12 Duplicate Detection and Recovery for the consistency with REVmc Draft 2.5.

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.***

***TGah Editor: Delete sub-clause 9.3.2.12 (Duplicate detection and recovery) from TGah Draft 1.3.***

***TGah Editor: Insert the following after sub-clause 9.3.2.10a of TGah Draft 1.3.***

**9.3.2.12 Duplicate detection and recovery**

**9.3.2.12.1 General(#2048)**

Change 1st paragraphs of the sub-clause 9.3.2.12.1 as the following

Because MAC-level acknowledgments and retransmissions are incorporated into the protocol, there is the possibility that a frame may be received more than once. The procedures defined in this subclause attempt to filter out these duplicates. Additional duplicate filtering is performed during Receive Buffer Operation for frames that are part of a (#2353)block ack agreement as described in 9.23.4 (Receive buffer operation) and Duplicate frame filtering is facilitated through the inclusion of a Sequence Control field (consisting of a sequence number and fragment number) within Data, (#100)Management, and Extension(11ad)(Ed) frames, a(11ae) TID subfield in the QoS Control field within QoS (#100)Data frames, and an ACI subfield in the Sequence Number field within QMFs (11ae)~~.~~, and a PTID/Subtype subfield in the Frame Control field within PV1 Data frames (11ah).

**9.3.2.12.2 Transmitter Requirements(#2048)**

Insert the following row after SNS5 of Table 9-3:

**Table 9-3—Transmitter sequence number spaces(#2048)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sequence number space identifier** | **Sequence number space** | **Applies to** | **Status** | **Multiplicity** | **Transmitter requirements** |
| …. | … | … | … | … | … |
| SNS6 | Individually addressed PV1 Data frame | A STA operating as an S1G STA transmitting a PV1 Data frame | Mandatory | Indexed by <STA MAC Address identified by Address 1,PTID> |  |
| SNS7 | Individually addressed PV1 Management frame | A STA operating as an S1G STA transmitting a PV1 Management frame | Mandatory | Indexed by <STA MAC Address identified by Address 1> |  |

**9.3.2.12.3 Receiver Requirements(#2048)**

Change 1st paragraphs of the sub-clause 9.3.2.12.3 as the following

A STA maintains one or more duplicate detection caches, as determined by Table 9-4 (Receiver Caches(#2048)). When a Data, Management or Extension frame is received, a record of that frame is inserted in an appropriate cache. That record is identified by a sequence number and possibly other information from the MAC control fields of the frame. When a Data, Management or Extension frame is received in which the Retry subfield of the Frame Control field is equal to 1, the appropriate cache is searched for a matching frame. When a PV1 Data frame or PV1 Management frame is received, the appropriate cache is searched for a matching frame, regardless of the presence of the Retry subfield of the Frame Control field. If the search is successful, the frame is considered to be a duplicate. Duplicate frames are discarded.

Insert the following row after RC8 of Table 9-4:

**Table 9-4—Receiver Caches(#2048)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Receiver****Cache****Identifier** | **Cache Name** | **Applies to** | **Status** | **Multiplicity / Cache size** | **Receiver requirements** |
| …. | … | … | … | … | … |
| RC9 | Individually addressed PV1 Data frame | An S1G STA receiving an individually addressed PV1 Data frame | Mandatory | Indexed by <STA MAC Address identified by Address 2, PTID, sequence number, fragment number>.At least the most recent cache entry per < STA MAC Address identified by Address 2, PTID> pair in this cache. | RR1 |
| RC10 | Individually addressed PV1 Management frame | An S1G STA receiving an individually addressed PV1 Management frame | Mandatory | Indexed by <STA MAC Address identified by Address 2, sequence number, fragment number>.At least the most recent cache entry per < STA MAC Address identified by Address 2 > pair in this cache. | RR1RR2 |