IEEE P802.11  
Wireless LANs

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| Proposed Draft Texts of BSR Enhancement | | | | |
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Abstract

This submission proposes draft text of BSR enhancement in 11bn.

Revision History:

* Rev 0: Initial version of the document. Revised from 24/1995 based on comments from members and recommended rules from the Editor.
* Rev 1: Change based on comments from Mark Rison, Akira Kishida and Brian Hart.
* Rev 2: Change based on comments during 12/17 conf. call and offline comments from Mark Rison

**Discucssion**

The document is as PDT for BSR enhancement and revised from 24/1995. Changes are

1. Spelling out BSRE (comment from Xiaofei)
2. Replacing subfield by field (Editor’s guide)

**Motions in 11bn**

* TGbn enables per-TID buffer size reporting of a larger queue in UHR.
  + Note: It is an optional feature.
  + Note: In the baseline, the maximum approximate per-TID queue size to report is 2,147,328 octets

**Reference Documents**

11-23/2007 Enhancement of BSR

11-24/0963 Enhancement of BSR follow-up (waiting for presentation in IEEE)

**Proposed Draft Texts (PDT)**

***TGbn editor: Please insert a new subclause as follows:***

**9.4.x.x** **UHR MAC Capabilities Information field**

The format of the UHR MAC Capabilities Information field is defined in [Figure 9-xxx (UHR MAC](file:///C:\Users\mtk02307\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\U6N6KT34\11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V2.0.docx#bookmark2) [Capabilities Information field format)](file:///C:\Users\mtk02307\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\U6N6KT34\11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V2.0.docx#bookmark3).

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| BSR Enhancement Support | Reserved |

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**Figure 9-xxx—UHR MAC Capabilities Information field format**

The fields of the UHR MAC Capabilities Information field are defined in [Table 9-xxx (Fields of the](file:///C:\\Users\\mtk02307\\AppData\\Local\\Microsoft\\Windows\\INetCache\\Content.Outlook\\U6N6KT34\\11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V1.0_Sindhu%20-%20LC_comment%20resolution.docx" \l "bookmark4) [UHR MAC Capabilities Information field)](file:///C:\Users\mtk02307\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\U6N6KT34\11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V1.0_Sindhu%20-%20LC_comment%20resolution.docx#bookmark5).

**Table 9-xxx—Field of the UHR MAC Capabilities Information field**

|  |  |  |
| --- | --- | --- |
| **Field** | **Definition** | **Encoding** |
| BSR Enhancement Support | For an AP, indicates support for receiving a frame with a BSR Enhancement field. For a non-AP STA, indicates support for transmitting a frame with a BSR Enhancement field. | Set to 1 if supported.  Set to 0 otherwise. |

***TGbn editor: Please change the subclause as follows:***

**37.4 Buffer status report enhancement operation**

A UHR STA shall set the BSR Enhancement Support field in the UHR Capabilities element transmitted by the STA to 1 if dot11UHRBSREImplemented is true; otherwise, the UHR STA shall set the BSR Enhancement Support field to 0.

A UHR non-AP STA may provide buffer status reports to assist its associated AP in allocating UL MU resources (see 26.5.5 Buffer status report operation). When the queue size for a given TID is greater than can be indicated in the QoS Control field or in the BSR Control field, the UHR non-AP STA may deliver the queue size in a BSR Enhancement field of a frame to the AP so that the AP can allocate accurate resources to the non-AP STA. The format of and the container for the BSR Enhancement field is TBD.

A UHR non-AP STA shall not transmit a frame with the BSR Enhancement field to an AP unless the UHR non-AP STA has received from the AP a UHR Capabilities element with the BSR Enhancement Support field equal to 1.

***TGbn editor: Please change the subclause as follows and make other changes necessary:***

# Annex C

(normative)

## ASN.1 encoding of the MAC and PHY MIB

### C.3 MIB Detail

dot11UHRBSREImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute, when true, indicates that the station implementation supports BSR enhancement operation."

::= { dot11UHRStationConfigEntry TBD }