IEEE P802.11  
Wireless LANs

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| Detailed Text Proposal 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

**Discucssion**

The authors look forward to working with all interested participants to prepare an official proposal for specification text on BSR enhancement and intend this proposal to offer some ideas towards that goal.

**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)

**Proposal**

***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).

B0 B1 B7

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| --- | --- |
| BSR Enhancement Support | Reserved |

Re

Bits: 1 7

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

The subfields of the UHR MAC Capabilities Information field are defined in [Table 9-xxx (Subfields 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#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—Subfields of the UHR MAC Capabilities Information field**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| BSR Enhancement Support | For an AP, indicates support of receiving a frame with a BSRE subfield. For a non-AP STA, indicates support for generating a frame with a BSRE subfield. | Set to 1 if the STA supports the BSRE  subfield functionality.  Set to 0 otherwise. |

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**37.X Buffer status report enhancement operation**

A non-AP STA may deliver buffer status reports to assist its AP in allocationg UL MU resources (See 26.5.5 Buffer status report operation). When a non-AP STA owns a queue size of a TID which is larger than the maximum queue size able to be reported in the QoS Control field, the non-AP STA may send a BSRE subfield in a frame to report a larger queue size to the AP so that the AP can allocate accurate resources to the non-AP STA during the UL MU operation.

A UHR STA shall set the BSR Enhancement Support subfield in the UHR Capabilities element it transmits to 1 if dot11UHRBSREImplemented is true; otherwise, the UHR STA shall set the BSR Enhancement Support subfield to 0.

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# 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 is capable of supporting BSR enhancement operation."

DEFVAL { false }

::= { dot11UHRStationConfigEntry TBD }