IEEE P802.11
Wireless LANs

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| Maximum RX PPDU Duration Signaling |
| Date: 2018-10-18 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Matthew Fischer | Broadcom |  |  | Matthew.fischer@broadcom.com |
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Abstract

Proposed language to create a mechanism to signal Maximum RX MPDU Duration to be transmitted to a STA using the A-control field.

Changes are referenced to TGax D3.2.

**REVISION NOTES:**

**R0**:

initial

**R1**:

Change resolution of Maximum RX PPDU Duration field from 500 us to 512 us

10.14 PPDU duration constraint – see next change

27.5.3.2.3 Allowed settings of the Trigger frame fields and TRS Control subfield – the Maximum RX PPDU Duration language is moved out of this location and into 10.14 PPDU duration constraint – it was in the wrong place and the wording of the AP behaviour is corrected so that it applies to all transmissions to the STA

9.2.4.6a.7a - Change maximum doze duration resolution from 250 us to 256 us

Update doc references

**R2**:

9.2.4.6a.7a – added text to indicate that Minimum PSDU Allocation value of 0 = no constraint on the minimum allocation size

9.2.4.6a.7a – modified Maximum PSDU Allocation value and field encoding to include a scaling factor

11.2.3.19a – added text to indicate that a STA in doze can exit doze before the end of the doze duration and the remaining doze duration is cancelled

27.5.3.3 – add restriction that minimum PSDU has to be less than maximum PSDU allocation

Update doc references

**END OF REVISION NOTES**

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 TGax Draft. This introduction is not part of the adopted material.

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

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

**CIDs**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 15757 | Jarkko Knecht | 27.7.4 | 326.20 | The TWT Information frame is a management frame which handling/reception/parsing the content in the receiving STA takes time. A STA may transmit a TWT Information frame to teminate an ongoing TWT SP. For the receiving device the processing time of the TWT Information frame may be too long for immediate TWT SP termination. The immediate SP termination would be better to do through EOSP or more data bits which handling time is much shorter. | Please change that EOSP (or PM) bit controls the termination of the currently ongoing TWT SP and the TWT Information frame controls the future TWT SPs, i.e. whether the STA be available at future TWT SP. Please allow a STA to terminate the ongoing SP without a transmission of the TWT Information frame. | Revise - TGax editor to make changes as shown in 11-18/1821r2 that are marked with CID 15757 which create a mechanism to signal a transition to doze state. TWT information behavior is unaltered, and still may be used in the original context as another method for TWT SP termination in addition to the requested use of indicating suspend and resume. |

**Discussion:**

Several features within the TGax draft and the baseline 802.11 standard use mechanisms which incorporate some aspect of time scheduling. For example, OFDMA operation, TWT, Power Save and others, either include by definition or are often deployed with some periodic time behaviour in their operation. Additional functions beyond 802.11 but that affect the operation of an 802.11 STA frequently also incorporate schedule-like behaviour. Examples of such functions include those that are defined to operate on an 802.11 STA and functions that are operating within non-802.11 devices, but operate within the same channels as 802.11 STAs. As these many functions operate, they can create windows of time during which the ability of an 802.11 STA to perform 802.11 frame exchanges is reduced, impaired or impossible. Given that there are various features competing for the use of each of the possible time slots of operation for a given 802.11 STA, it is useful to have some ability within 802.11 to signal the existence of known timing constraints among devices so that common periods of operation can be identified and any periods where communication is impaired or impossible can be avoided.

In order to accommodate this desire, this document inclues a set of proposed changes to TGax D3.2 which create a new mechanism for signalling a constraint on the duration of a PPDU that may be transmitted to the constrained STA and to signal a duration of a doze state. The new signalling is included in the A-control field.

In addition, a receiving STA might have constraints on UL and DL transmissions and the proposal includes a mechanism for the STA to express those constraints while adding *recommendations* for an AP to obey those constraints.

**Proposed Changes to TGax D3.2:**

***TGax editor: within TGax D3.2, add the following new definition in the appropriate location within 3.2 Definitions specific to IEEE 802.11:***

**3.2 Definitions specific to IEEE 802.11**

**Maximum RX PPDU Duration signalling (MPD) STA**: An HE STA with dot11MaximumRXPPDUDurationSignalingActivated equal to true that is associated with an AP from which it has received an Extended Capability element that indicates support for Maximum RX PPDU Duration Signaling. **(#15757)**

***TGax editor: within TGax D3.2, add the following new abbreviation in the appropriate location within 3.4 Abbreviations and acronyms:***

**3.4 Abbreviations and acronyms**

MPD Maximum RX PPDU Duration **(#15757)**

**9.4.2.27 Extended Capabilities element**

***TGax editor: within TGax D3.2, add another row to Table 9-135 – Extended Capabilities field as shown:***

**Table 9-153—Extended Capabilities field**

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| 77 | TWT Requester Support | A STA sets the TWT Requester Support field to 1 when dot11TWTOptionActivated is true, dot11HEOptionImplemented is true and TWT requester functionality is supported. Otherwise, the STA sets the TWT Requester Support field to 0. See 10.43 (Target wake time (TWT)). |
| 78 | TWT Responder Support | A STA sets the TWT Responder Support field to 1 when dot11TWTOptionActivated is true, dot11HEOptionImplemented is true and TWT responder functionality is supported. Otherwise, the STA sets the TWT Responder Support field to 0. See 10.43 (Target wake time (TWT)). |
| 79 | OBSS Narrow Bandwidth RU In OFDMA Tolerance Support | An AP STA sets the OBSS Narrow Bandwidth RU In OFDMA Toler-ance Support field to 1 if dot11OBSSNarrowBWRUinOFDMAToler-ated is true, and sets it to 0 otherwise.A non-AP STA sets the OBSS Narrow Bandwidth RU In OFDMA Tolerance Support field to 0. |
| <ANA> | Maximum RX PPDU Duration Signaling Support | An HE STA sets the Maximum RX PPDU Signaling Support field to 1 if dot11MaximumRXPPDUDurationSignalingActivated is true and sets it to 0 otherwise. **(#15757)** |

**9.2.4.6.3a HE variant**

***TGax editor: within TGax D3.2, add another row to Table 9-22a – Control ID subfield values, and modify the reserved value, as shown:***

**Table 9-22a—Control ID subfield values**

|  |  |  |  |
| --- | --- | --- | --- |
| **Control ID Value** | **Meaning** | **Length of the Control Information subfield (bits)** | **Content of the Control Information subfield** |
| 0 | Triggered response scheduling (TRS) | 26 | See 9.2.4.6a.1 (TRS Control) |
| 1 | Operating mode (OM) | 12 | See 9.2.4.6a.2 (OM Control) |
| 2 | HE link adaptation (HLA) | 26 | See 9.2.4.6a.3 (HLA Control) |
| 3 | Buffer status report (BSR) | 26 | See 9.2.4.6a.4 (BSR Control) |
| 4 | UL power headroom (UPH) | 8 | See 9.2.4.6a.5 (UPH Control) |
| 5 | Bandwidth query report (BQR) | 10 | See 9.2.4.6a.6 (BQR Control) |
| 6 | Command and status (CAS) | 8 | See 9.2.4.6a.7 (CAS Control) |
| 7 | Maximum RX PPDU Duration (MPD) **(#15757)** | 26 | See 9.2.4.6a.7a (MPD Control) |
| 8-15 | Reserved |  |  |

***TGax editor: within TGax D3.2, insert the following new subclause:***

**9.2.4.6a.7a MPD Control** **(#15757)**

If the Control ID subfield in a Control subfield of an A-Control subfield is 7, then the Control Information subfield of the Control subfield is defined as shown in Figure 9-15jk (Control Information subfield for MPD Control).

|  |  |  |
| --- | --- | --- |
|  | B0 B4 | B5 B25 |
|  | Maximum RX PPDU Duration | DL UL Control |
| Bits: | 5 | 21 |

**Figure 9-15jk—Control Information subfield for MPD Control**

When the value of the Maximum RX PPDU Duration is not all zeroes, it is an unsigned integer in units of 512 us and indicates the maximum duration of a PPDU that the STA transmitting this field is capable of receiving and the DL UL Control subfield is as defined in Figure 9-15kk – DL UL Control subfield when Maximum RX PPDU Duration is not equal to 0.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 B10 | B11 B12 | B13 B19 | B20 |
|  | ACI | Minimum PSDU Allocation | Maximum PSDU Allocation Scaling Factor | Maximum PSDU Allocation Base | Reserved |
| Bits: | 2 | 9 | 2 | 7 | 1 |

**Figure 9-15kk—DL UL Control subfield when Maximum RX PPDU Duration is not equal to 0**

The value of the AC index (ACI) references the AC to which the Minimum PSDU Allocation and Maximum PSDU Allocation are applicable. The mapping between ACI and AC is defined in Table 9-155 (ACI-to-AC coding).

The Minimum PSDU Allocation subfield is an unsigned integer in units of 64 octets that is the minimum number of PSDU octets that the transmitting STA requests that its allocation within a Trigger frame indicates. A value of 0 indicates that there is no constraint on the minimum size of the allocation.

The Maximum PSDU Allocation Scaling Factor is combined with the Maximum PSDU Allocation Base to determine the value of the Maximum PSDU Allocation as indicated in Table 9-24ee Determination of Maximum PSDU Allocation value.

**Table 9-24ee - Determination of Maximum PSDU Allocation value.**

|  |  |  |
| --- | --- | --- |
| **Maximum PSDU Allocation Scaling Factor** | **Maximum PSDU Allocation Base** | **Maximum PSDU Allocation (in octets)** |
| Any | 0 | See Table 9-25 – Maximum data unit sizes (in octets) and duration (in microseconds) |
| 0 | 1 – 127 | 512 \* 2^(Maximum PSDU Allocation Base) |
| 1 | 1 - 127 | 4096 \* 2^(Maximum PSDU Allocation Base) |
| 2 | 1 - 127 | 32768 \* 2^(Maximum PSDU Allocation Base) |
| 3 | 1 - 127 | Reserved |

When the value of the Maximum RX PPDU Duration is all zeroes, it indicates that the STA transmitting this subfield will transition to the doze state following the acknowledgement of the receipt of the frame containing this subfield and the DL UL Control subfield is as defined in Figure 9-15km – DL UL Control subfield when Maximum RX PPDU Duration is equal to 0.

|  |  |  |  |
| --- | --- | --- | --- |
|  | B0 B14 | B15 B19 | B20 |
|  | Maximum Doze Duration | Reserved | Reserved |
| Bits: | 15 | 5 | 1 |

**Figure 9-15km—DL UL Control subfield when Maximum RX PPDU Duration is equal to 0**

The Maximum Doze Duration subfield indicates the maximum amount of time in units of 256 us that the transmitting STA will be in the doze state following the acknowledgement of the receipt of the frame containing this subfield. A value of zero means that the maximum duration of the doze state is indefinite. **(#15757)**

**9.4.2.27 Extended Capabilities element**

***TGax editor: within TGax D3.2, add another row to Table 9-135 – Extended Capabilities field as shown:***

**Table 9-153—Extended Capabilities field**

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| 77 | TWT Requester Support | A STA sets the TWT Requester Support field to 1 when dot11TWTOptionActivated is true, dot11HEOptionImplemented is true and TWT requester functionality is supported. Otherwise, the STA sets the TWT Requester Support field to 0. See 10.43 (Target wake time (TWT)). |
| 78 | TWT Responder Support | A STA sets the TWT Responder Support field to 1 when dot11TWTOptionActivated is true, dot11HEOptionImplemented is true and TWT responder functionality is supported. Otherwise, the STA sets the TWT Responder Support field to 0. See 10.43 (Target wake time (TWT)). |
| 79 | OBSS Narrow Bandwidth RU In OFDMA Tolerance Support | An AP STA sets the OBSS Narrow Bandwidth RU In OFDMA Toler-ance Support field to 1 if dot11OBSSNarrowBWRUinOFDMATolerated is true, and sets it to 0 otherwise.A non-AP STA sets the OBSS Narrow Bandwidth RU In OFDMA Tolerance Support field to 0. |
| <ANA> | Maximum RX PPDU Duration Signalling Support | An HE STA sets the Maximum RX PPDU Duration Signalling Support field to 1 if dot11MaximumRXPPDUDurationSignalingActivated is true and sets it to 0 otherwise. **(#15757)** |

***TGax editor: within TGax D3.2, add the following, heading, text and editing instruction subclause 10.14 PPDU duration constraint, as shown:***

**10.14 PPDU duration constraint**

***Insert the following text at the end of the subclause:***

An AP should not transmit to a STA within a single TXOP a combined total of PPDU duration that exceeds the value from the most recently received Maximum RX PPDU Duration subfield from that STA. When the AP has not received an MPD subfield from a STA, it shall assume a value of 15.872 ms for the Maximum RX PPDU Duration corresponding to that STA. **(#15757)**

**27.5.3.2.3 Allowed settings of the Trigger frame fields and TRS Control subfield**

***TGax editor: within TGax D3.2, add the following text at the end of subclause 27.5.3.2.3 Allowed settings of the Trigger frame fields and TRS Control subfield, as shown:***

An AP that transmits a Basic Trigger frame that specifies an RU to a STA for a Preferred AC should specify subfield settings of the Common Info field and subfield settings of the User Info field for that STA which together describe an HE TB PPDU that is sufficient to hold at least *n* octets of payload, where *n* is equal to the value of the Minimum PSDU Allocation subfield of the most recently received MPD Control field from the STA with an ACI value that corresponds to the Preferred AC unless no MPD Control field corresponding to the Preferred AC has been received from the STA, in which case, *n* is equal to 0. **(#15757)**

An AP that transmits a Basic Trigger frame that specifies an RU to a STA for a Preferred AC should specify subfield settings of the Common Info field and subfield settings of the User Info field for that STA which together describe an HE TB PPDU that holds a maximum of *m* octets of payload, where *m* is equal to the value of the Maximum PSDU Allocation as calculated according to 9.2.4.6a.7a (MPD Control) from the Maximum PSDU Allocation Scaling Factor and Maximum PSDU Allocation Base subfields of the most recently received MPD Control field from the STA with an ACI value that corresponds to the Preferred AC unless no MPD Control field corresponding to the Preferred AC has been received from the STA, in which case, *m* is determined according to Table 9-25 – Maximum data unit sizes (in octets) and duration (in microseconds). **(#15757)**

***TGax editor: within TGax D3.2, modify the following text:***

**11.2.3.5.1 Power management with APSD procedures**

When the GCR-A delivery method is used, the scheduled Service Interval field is 0. If a STA has a GCR agreement with an AP for a group address using the GCR-A delivery method, there is no defined end of the scheduled SP. The STA in PS mode shall enter the awake state and shall remain awake in order to receive the buffered group addressed BUs until the AP changes the delivery method of the stream to a method other than GCR-A or until the GCR agreement is canceled or until a Maximum RX PPDU Duration subfield with a value of 0 is successfully acknowledged. **(#15757)**

**11.2.3.6 AP operation**

***TGax editor: within TGax D3.2, add the following text to the itemized list as item m):***

m) If an MPDU that contains a Doze Transition subfield equal to 1 is received from a PS STA then after acknowledgement of the receipt of the MPDU, the AP shall assume that the STA has transitioned to the doze state and shall cease delivery of any frames to the STA **(#15757)**

**11.2.3.7 Receive operation for STAs in PS mode**

***TGax editor: within TGax D3.2, add the following text at the end of the subclause:***

A DTS STA may set the Doze Transistion subfield to 1 to signal a transition to the doze state as described in 11.2.3.19a Doze Transition Signaling. **(#15757)**

**11.2.3.8 Receive operation using APSD**

***TGax editor: within TGax D3.2, modify the text as shown:***

c) The STA shall remain awake until it receives a QoS Data frame or QoS Null frame addressed to it, with the EOSP subfield equal to 1 or until it receives an acknowledgement to the transmission of a Maximum RX PPDU Duration subfield with a value of 0.

**11.2.3.12 TDLS peer power save mode**

***TGax editor: within TGax D3.2, modify the text as shown:***

A STA transmitting a TDLS Peer PSM Request frame shall remain in the awake state until it received the corresponding TDLS Peer PSM Response frame or until it receives an acknowledgement to the transmission of a Maximum RX PPDU Duration subfield with a value of 0. A TDLS Peer PSM Request frame may be transmitted via the AP path or via the direct path (which is up to the implementer to decide). A TDLS Peer PSM Response frame shall be transmitted over the direct path. **(#15757)**

If a TDLS peer STA enters power save mode when a Wakeup Schedule is active, it shall be awake at the beginning of each scheduled periodic Awake Window, and stay awake for the duration of the Awake Window or until the end of a TDLS peer PSM service period or until it receives an acknowledgement to the transmission of a Maximum RX PPDU Duration subfield with a value of 0. Otherwise, it may enter a doze state, depending on the current requirements to be awake, imposed by other links. A TDLS peer STA that did not enter power save mode shall remain in the awake state. **(#15757)**

***TGax editor: within TGax D3.2, insert the following editing instruction and new subclause:***

***Insert a new subclause at the end of 11.2.3.19:***

**11.2.3.19a Maximum RX PPDU Duration Signaling** **(#15757)**

An HE STA with dot11MaximumRXPPDUDurationSignalingActivated equal to true supports Maximum RX PPDU Duration signalling using the A-Control subfield and shall set the Maximum RX PPDU Duration Signaling Support subfield to 1 in transmitted Extended Capability elements and is called an MPD STA.

An MPD STA that is a PS STA may transmit MPD Control subfields in frames that it transmits to any STA from which it has received an Extended Capability element with the value 1 in the Maximum RX PPDU Duration Signaling Support subfield.

An MPD STA shall not transmit MPD Control subfields in frames that it transmits to any STA from which it has not received an Extended Capability element with the value 1 in the Maximum RX PPDU Duration Signaling Support subfield.

An MPD STA that transmits a value of 0 in the Maximum RX PPDU Duration subfield of an MPD Control field may transition to doze state immediately following the receipt of the acknowledgement of the frame that contained the MPD Control field and may remain in the doze state for the duration indicated in the Maximum Doze Duration subfield of the same frame. An MPD STA that transmits a frame with the Maximum RX PPDU Duration subfield of the MPD Control field set to 0 shall transition to the awake state before or at the duration indicated in the Maximum Doze Duration subfield of the same frame.

A STA with dot11MaximumRXPPDUDurationSignalingActivated equal to true that receives a frame with a value of 0 in the Maximum RX PPDU Duration subfield of an MPD Control field shall assume that the transmitting STA is in the doze state for the duration indicated in the Maximum Doze Duration subfield of the same frame unless the STA explicitly indicates before the end of that duration that it is not longer in the doze state in which case, the remaining duration of doze is cancelled. A STA with dot11MaximumRXPPDUDurationSignalingActivated equal to true shall only use information from the most recently received MPD Control field from a STA.

An MPD STA that transmits a non-zero value in the Maximum RX PPDU Duration subfield of an MPD Control field shall transition to the awake state immediately following the transmission of the frame that contained the MPD Control field.

An MPD STA may transmit a non-zero value in the Maximum RX PPDU Duration subfield of an MPD Control field before the end of the duration indicated in a previously transmitted Maximum Doze Duration subfield.

A STA with dot11MaximumRXPPDUDurationSignalingActivated equal to true that receives a frame with a non-zero value in the Maximum RX PPDU Duration subfield of an MPD Control field shall assume that the transmitting STA is in the awake state. **(#15757)**

**11.2.4.4 STA power state transitions**

c) If a STA receives at least one individually addressed ATIM frame containing the STA’s individual address in the RA field during the ATIM window then the STA shall remain in the awake state at least until the earlier of the completion of the successful transmission to and reception from the source STA of each received ATIM frame, a frame with the EOSP subfield equal to 1, the receipt of an acknowledgement to the transmission of a Maximum RX PPDU Duration subfield with a value of 0, and the end of the next ATIM window. **(#15757)**

**27.5.3.3 STA behavior for UL MU operation**

***TGax editor: within TGax D3.2, add the following text at the end of subclause 27.5.3.3 STA behaviour for UL MU operation, as shown:***

An MPD STA may transmit a frame, including, but not limited to a QoS Null, to its associated AP that contains an MPD Control subfield to specify a value of Minimum PSDU Allocation for an AC. An MPD STA may transmit a frame, including, but not limited to a QoS Null, to its associated AP that contains an MPD Control subfield to specify a value of Maxmimum PSDU Allocation for an AC. An MPD STA may transmit a frame, including, but not limited to a QoS Null, to its associated AP that contains an MPD Control subfield to specify a value of Maximum RX PPDU Allocation for an AC. The number of octets indicated by the value of the Minimum PSDU Allocation subfield of a transmitted frame shall be less than the number of octets indicated by the value in the Maximum PSDU Allocation subfield of the same frame.

 **(#15757)**

**27.7.5 Power save operation during TWT SPs**

***TGax editor: within TGax D3.2, in subclause 27.7.5 Power save operation during TWT SPs, modify the text as shown:***

A TWT requesting STA or a TWT scheduled STA shall classify any of the following events as a TWT SP termination event:

1) The successful exchange of a TWT Information frame with the TWT responding STA or the TWT scheduling AP (see 27.7.4 (Use of TWT Information frames)).

2) The transmission by the TWT requesting STA or TWT scheduled STA of an acknowledgment in response to an individually addressed QoS Data or QoS Null frame sent by the TWT responding STA or TWT scheduling AP, respectively, that had the EOSP subfield equal to 1.

3) The transmission by the TWT requesting STA or TWT scheduled STA of an acknowledgment in response to an individually addressed frame that is neither a QoS Data frame nor a QoS Null frame, sent by the TWT responding STA or TWT scheduling AP, respectively, with the More Data field equal to 0.

4) The reception of an individually addressed or broadcast QoS Data or QoS Null frame sent by the TWT responding STA or TWT scheduling AP, that does not solicit an immediate response and with the EOSP subfield equal to 1.

5) The reception of an individually addressed frame that is neither a QoS Data frame nor a QoS Null frame, sent by the TWT responding STA or TWT scheduling AP, that does not solicit an immediate response and with the More Data field equal to 0.

6) The reception of a Trigger frame sent by the TWT responding STA or TWT scheduling AP that has the More TF field equal to 0 and is not intended for the TWT requesting STA or TWT scheduled STA provided that the TWT requesting STA or TWT scheduled STA is either awake for an announced trigger-enabled TWT SP but did not transmit an indication that it is in the awake state to the TWT responding STA or TWT scheduling AP or is awake for an unannounced trigger-enabled TWT SP.

7) The successful acknowledgement from the TWT scheduling STA or the TWT responding STA of the reception of a frame transmitted by the TWT scheduled STA or the TWT requesting STA, respectively, that contains an MPD Control field with the Maximum RX PPDU Duration subfield set to 0. **(#15757)**

8) The transmission of a frame by the TWT scheduled STA or the TWT requesting STA, respectively, if the TWT scheduled STA or the TWT requesting STA, respectively, is a DTS STA and the More Data subfield of the frame is equal to 1 and no immediate response is expected **(#15757)**

**TGax Editor: *Add a new MIB variable in C.3 MIB Detail within the dot11StationConfigEntry group as shown:***

**C.3 MIB Detail**

dot11MaximumRXPPDUDurationSignalingActivated OBJECT-TYPE **(#15757)**

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 STA implementation is capable of signalling the maximum duration of a PPDU that can be transmitted to the STA in the A-Control subfield. The attribute also indicates that the STA is capable of interpreting the signalling of the maximum duration of a PPDU that can be transmitted to a STA from which it receives the subfield. The capability is disabled, otherwise."

DEFVAL { false }

::= { dot11StationConfigEntry <XX>}

**End of proposed changes.**