IEEE P802.11
Wireless LANs

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Abstract

This submission proposes the text for the resolutions for the CID 5157. The baseline for this comment resolution document is 802.11bc Draft 4.0.

* Rev 0: first draft

 **11.55.3.7 EBCS negotiation procedure for associated STAs**

To request one or more EBCS traffic streams provided by an EBCS AP, with which an EBCS non-AP STA is

associated, the STA shall transmit an EBCS Content Request frame to the EBCS AP. To request one or more

EBCS traffic streams that an EBCS AP has indicated require association, an unassociated EBCS non-AP STA

shall associate with the EBCS AP and subsequently transmit an EBCS Content Request frame. A request for

one or more EBCS traffic streams that does not require association may also be included in the same EBCS

Content Request frame. When requesting an EBCS traffic stream using an EBCS Content Request frame, an

EBCS non-AP STA may request an EBCS traffic stream with a certain time to termination as indicated in the

Requested Time To Termination field included in the EBCS Content Request frame. In addition, the STA may

indicate the MAC address of the AP it is currently receiving the service from, using the Broadcaster MAC

Address subfield. The non-AP STA may include in the Broadcaster MAC Address subfield in the

EBCS Content Request frame the MAC address of the AP currently serving the EBCS traffic stream,

which may differ from the AP receiving the request. This information may be used to distribute the EBCS

load transmitted by different EBCS APs in a certain area.

After receiving an EBCS Content Request frame from an associated EBCS non-AP STA, an EBCS AP shall

respond with an EBCS Content Response frame. The status of the request for the EBCS traffic stream

identified by a content ID is indicated by the EBCS Content Request Status subfield in the EBCS Content

Response Info subfield containing the same content ID. If the EBCS AP indicates in the EBCS Content

Response frame that the request for an EBCS traffic stream is successful, it may include a Time To

Termination field to indicate the time to termination for the EBCS traffic stream. It may also include EBCS SP

duration and the EBCS SP interval for the EBCS traffic stream in the EBCS Content Response frame.

An EBCS non-AP STA that receives an EBCS Content Response frame may negotiate for the extension of an

EBCS traffic stream if the EBCS traffic stream indicated in one of the EBCS Response Info subfields

terminates earlier than desired. The EBCS STA may negotiate the extension of the EBCS traffic stream by

transmitting another EBCS Content Request frame to its associated AP by including a desired value in the

Requested Time To Termination subfield in the EBCS Content Request Info subfield whose Content ID subfield

corresponds to the EBCS traffic stream.

An EBCS non-AP STA that received an EBCS Termination Notice frame may negotiate for the extension of an EBCS traffic stream using an EBCS Content Request frame if the EBCS traffic stream indicated in one of the EBCS Termination Info subfields terminates earlier than desired and the Negotiation Method indicated in the same EBCS Termination Info subfield is set to 1 or 2. The EBCS STA may negotiate the extension of the EBCS traffic stream by transmitting an EBCS Content Request frame to its associated AP by including a desired value in the Requested Time To Termination subfield in the EBCS Content Request Info subfield whose Content ID subfield corresponds to the EBCS traffic stream.

NOTE 1—Which values of a received Time To Termination subfield are considered desirable is determined by the

receiving EBCS non-AP STA and is beyond the scope of this standard.

NOTE 2—The EBCS transmitter of an EBCS traffic stream has the authority to determine the time to termination of the

EBCS traffic stream.

**11.55.3.8 EBCS negotiation procedure for unassociated STAs**

An unassociated EBCS STA may transmit an EBCS ANQP-element to an EBCS AP to register for one or

more EBCS traffic streams when that AP has indicated that it does not require an association. When registering

for an EBCS traffic stream using an EBCS Request ANQP-element, an EBCS STA may request a specific time

to termination using the Requested Time To Termination subfield and may indicate the MAC address of the

AP it is currently receiving the service from using the Broadcaster MAC Address subfield. The Broadcaster

MAC Address subfield allows the non-AP STA to provide the MAC address of the AP currently serving the

EBCS traffic stream, which might not be the same as the one receiving the request. This information might be

used to distribute the EBCS load transmitted by different EBCS APs in a certain area.

After receiving an EBCS Request ANQP-element from an unassociated EBCS STA, an EBCS AP shall

respond with EBCS Response ANQP-element and EBCS ANQP-element indicating the acceptance or rejection of the request to start transmitting each EBCS traffic stream indicated in the EBCS Request ANQP-element. If the EBCS AP accepts a request for an EBCS traffic stream, it may include a Time To Termination subfield in the EBCS ANQP-element to indicate the time to termination for the EBCS traffic stream.

An unassociated EBCS STA that received an EBCS Termination Notice frame may negotiate for the extension of an EBCS traffic stream using an EBCS Content Request ANQP-element if the EBCS traffic stream indicated in one of the EBCS Termination Info subfields terminates earlier than desired and the Negotiation Method indicated in the same EBCS Termination Info subfield is set to 2. The EBCS STA may negotiate the extension of the EBCS traffic stream by transmitting an EBCS Content Request ANQP-element to the EBCS AP from which the EBCS Termination Notice frame is received by including a desired value in the Requested Time To Termination subfield in the EBCS Content Request Info subfield whose Content ID subfield corresponds to the EBCS traffic stream.

NOTE—The EBCS AP has the authority to determine the time to termination of the EBCS traffic stream. ANQP-elements

received from unassociated STAs are not protected and hence the EBCS AP might exercise caution in

accepting certain requested durations. An EBCS AP evaluates certain criteria before responding to the EBCS service

request from an unassociated STA from which it receives an EBCS Request ANQP-element. Such criteria might

include, but are not limited to, limiting the time duration and/or frequency of EBCS traffic stream requests. The

evaluation of the criteria might be based on local policies installed at the EBCS AP, which is out of scope of this

standard.