

ETSI BRAN – Response to LS re: Contention Window Update in Initiating Device Channel Access

TO:

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CC:

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SUBJECT: Contention Window (CW) Update in Initiating Device Channel Access Mechanism of EN 301 893¹

DATE: 2019-11-19

Dear Guido,

The IEEE 802.11 Working Group thanks ETSI BRAN for the Liaison Statement dated 10 October 2019, titled “*Contention Window Update in Initiating Device Channel Access Mechanism of EN 301 893*”. This Liaison Statement requests that the IEEE 802.11 Working Group share the results of its analysis of the text related to CW management proposed for inclusion in the next revision of EN 301 893, as included in the ETSI BRAN Liaison Statement.

During its November 2019 meeting, the IEEE 802.11 WG analyzed the indicated text. The conclusions of the analysis are:

- The IEEE 802.11 standard is generally compatible with the proposed CW adjustment requirements, including the *no bias* requirement. The *no bias* requirement is satisfied because the IEEE 802.11 standard almost always uses immediate feedback based on the success (or otherwise) of the start of all TXOPs to drive CW adjustments.
- In one mechanism in the IEEE 802.11 standard, related to the use of HT-delayed Block Acknowledgement, it is possible that the proposed CW adjustment requirements would not be satisfied. However, the IEEE 802.11 standard includes a recommendation that Block Acknowledgements are used in a way that does satisfy the proposed CW adjustment requirements. It is our understanding that this recommendation is very widely followed in 802.11 implementations.

The IEEE 802.11 WG has no concerns at this time regarding the proposed inclusion of the text related to CW management requirements in the next revision of EN 301 893.

For your information, the IEEE 802.11 Working Group will be meeting at the times and locations specified at [802.11 Working Group Meeting Plan](#). Interested participants of ETSI BRAN are encouraged to attend to assist the definition of the next generation of IEEE 802.11 standards.

Regards,

/s/

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¹ This document represents the views of the IEEE 802.11 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.