IEEE P802.11
Wireless LANs

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| Draft examples of a proposed notation for frame exchange sequence sequences in Annex G of 802.11-2020 |
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Abstract

This submission provides a draft example of a proposed Appendix G that describes frame exchange sequences in a format that is suggested as a replacement for ENBF notation. Below is the suggested new draft text for discussion:

The following tables show the frame exchange sequences that are allowed by this standard. In the tables, the following are the elements of the syntax:

— { a } = a is repeated zero or one time.

— [ a ] = a is repeated one or more times.

— n{ a } = a is repeated n times. For example, 3{a} is equal to “a a a”.

— n+{ a } = a is repeated n or more times. For example, 3+{a} requires 3 or more “a”.

— a|b|c|... = selection between mutually exclusive alternatives, a, b, c ....

— < > = order of frames not relevant. For example, <a b> is either “a b” or “b a”.

— (+ a ) = field a is included in the frame, or subfield a included in the field.

— The name of a frame does not contain whitespace. Whitespace appearing between the names of frames indicates concatenation. Otherwise, whitespace is not significant and is used to highlight the nesting of grouped terms.

— A direction arrow indicates the order in which frames are transmitted on a given line. ---> indicates the frame to the left of the arrow is transmitted first, and the frame to the right of the arrow is transmitted second. <--- indicates the frame to the right of the arrow is transmitted first, and the frame to the left of the arrow is transmitted second. In some circumstances, there is no frame transmitted second on a given line. For those circumstances, the second frame is omitted.

The "Initiating STA" column is used to describe frames that are transmitted by a STA that transmits the initial frame in a frame exchange sequence.

The "Responding STA" column is used to describe frames that are transmitted by a STA that receives the initial frame in a frame exchange sequence.

***[EDITORIAL NOTE: At this point, Table G-1 is included by reference]***

**G.2 General Frame Exchange Sequences (example of directed frame exchanges)**







**G.3 Preassociation Delivery Frame Exchange Sequences (example tabular view of Fig. Y-1, Fig. Y-2, and Fig. Y-3)**

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**G.4 GCR Block Ack Frame Exchange Sequences (example of multicast frame exchange)**

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