



FRAME FIELDS

FIXES TO THE FIELDS AND MISCELLANEOUS ISSUES

doc: IEEE 802.11 94/171A

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Missing Elements for PHY

- Lots of PHY specific Elements missing from the list.
 - » Need to get the info out in PROBE responses and during Association.
 - GEOGRAPHIC LOCATION
 - SET
 - PATTERN
 - CHANNEL INDEX
 - HOP TIMING

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■■■■ *Motion*

- Add the PHY dependent Elements to the list. Do so by adding the relevant text from 94/171.

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■■■■ *Time Stamp in Beacon*

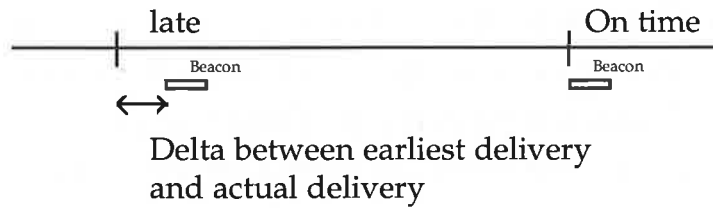
- The time stamp field is currently a 32 bit time of when the frame was transmitted.
 - » Doesn't do what is required
 - » Should be delta between when the frame should have gone out, and when it actually did go out.
 - » Allows a STA to really sync to the Beacon interval without memory.

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Time Stamp



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- Change the Time Stamp field to be 16 bits of delta time in microseconds. Do this by using the relevant text in 94/171.

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■■■ *Remove Contention Free*

- The current draft is at odds with the recent vote to make Distributed Time Bounded Service (DTBS) the only Time Bounded Service (TBS) scheme. This vote did not instruct the editors to remove the references to the old Point Coordination Function.

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■■■ *Motion*

- Instruct the editors to remove all of the references to Asynchronous Contention Free service from the draft standard.

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Fragmentation

- A must for success
 - However
 - Most MSDU's will not need fragmentation
 - Some PHY's will not need it
 - Many installations will not need it
- Make an Field 'Present When Needed'
 - » Two ways
 - A bit in the control field
 - More efficient
 - A new Element
 - More consistent

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- Add field to indicate total number of frags in MSDU
 - » Allows a receiving STA to allocate memory based on number of frags and size of first frag.
 - » looks like '# of N', where N is the total for the MSDU.
 - » Only need up to 15 frags (two 4 bit fields).

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- Make the fragmentation field a 'Present when needed' field.

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- The method for the 'Fragmentation field' will be
- This will be implemented using the appropriate text from 94/171

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■ ■ ■ *The LOAD Element*

- It means:
 - » The load on a given Access Point from 0 to 256.
 - 0 means no load
 - 256 means its hopeless
 - » STA can use this info to choose AP
 - » Numbers are used as relative numbers, not absolutes.
 - » Included in Probe Response Frames

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■ ■ ■ *Motion*

- Add a new LOAD Element. Use the text in 94/171 to do so.

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The RETRY bit

- It was usefull even though it was totally redundant.
 - » Restore it if room in Control field
 - » It does make for a very quick check to reject a frame.

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- To restore the RETRY bit to the draft using the text in 94/171. Let the editors choose the required bit in the control field.

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