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	8802-3/802.3 REVISION REQUEST 1163	
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DATE:	30th March, 2005	5
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REQUESTED REVISION:		10
STANDARD:	IEEE Std. 802.3af-2003	11
CLAUSE NUMBER:	33.2.3.1	12
CLAUSE TITLE:	Overview	13
		14
PROPOSED REVISION TEXT:		15
		16
Clause 33.2.3.1 last paragraph		17
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Replace the following text:		19
		20
If a PSE performing detection using Alternative A detects an invalid signature, it should initiate a second detection attempt within 1 second after the beginning of the first detection attempt.		21
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This ensures that a PSE performing detection using Alternative A will complete a second detection cycle prior to a PSE using Alternative B that might also be present on the same Link Section, and therefore causing the invalid signature, completing its second detection cycle due to the Alternative B detection backoff described above.		24
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with:		30
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If a PSE performing detection using Alternative A detects an invalid signature, it should complete a second detection attempt within 2 sec after the beginning of the first detection attempt.		33
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This allows that a PSE performing detection using Alternative A will complete a detection cycle within reasonable number of attempts prior to a PSE using Alternative B that might also be present on the same Link Section, and therefore causing the invalid signature, completing its second detection cycle due to the Alternative B detection backoff described above.		37
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Add figure 33C.12.1-a and 33C.12.1-b to 33C.1.11		44
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RATIONALE FOR REVISION:		47
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See attached figures 33C.12.1 for illustration of the problem and its solution.		49
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The old text containing the word "beginning" in PSE alternative A is an error due to the fact that the intent per the current text was to initiate new detection cycle, with a time delay after the 1st attempt in		52
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order to ensure success in the second attempt at the worst case
conditions. 1
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According to the current text, detection may be completed at the 3rd
detection attempt (or even with more attempts if PSE alternative A is
using detection timing shorter than PSE that using alternative B) and not
in the 2nd attempt. 4
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The revision that is proposed above, fix the confusion, allow the use of
the current timing, allows completing detection in the 2nd attempt with
flexible delay time and not limiting the number of attempts done by PSE A
until completing the detection prior to PSE B initiating its 2nd
attempt. 9
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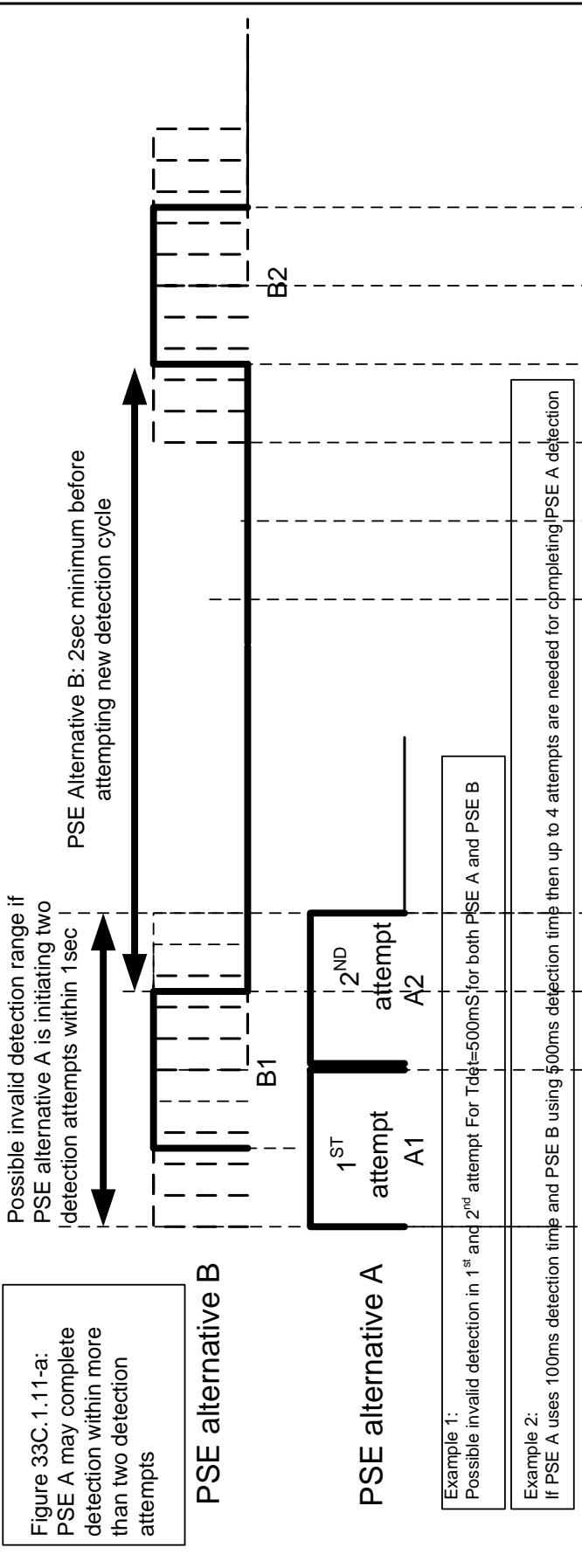
The specification in this paragraph has no effect on compliance, it just
fix a recommendation that can not be implemented with the current
wording 15
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IMPACT ON EXISTING NETWORKS: 21
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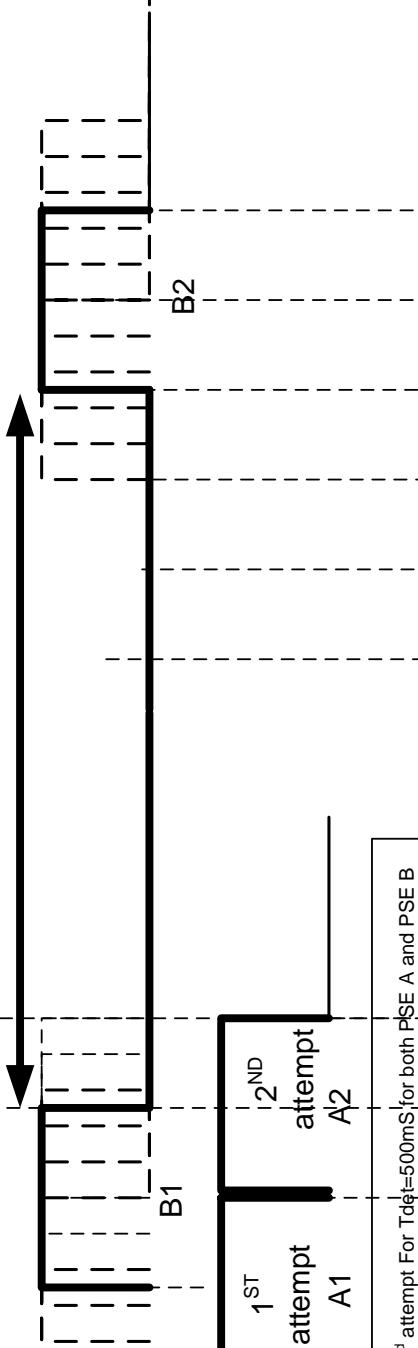
No impact. 25
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| Please attach supporting material, if any | 30
| Submit to:- Bob Grow, Chair IEEE 802.3 | 31
| E-Mail: Bob.Grow@intel.com | 32
+-----+
| ----- For official 802.3 use -----+
| REV REQ NUMBER: 1163 | 33
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| EDITORIAL/TECHNICAL | 35
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| For information about this Revision Request see - | 39
| http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1163 | 40
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Figure 33C.1.11-a:
PSE A may complete
detection within more
than two detection
attempts



Possible invalid detection range if
PSE alternative A is initiating two
detection attempts within 1 sec



Example 1:
Possible invalid detection in 1st and 2nd attempt For Tdet=500ms for both PSE A and PSE B

Example 2:
If PSE A uses 100ms detection time and PSE B using 500ms detection time then up to 4 attempts are needed for completing IPSE A detection

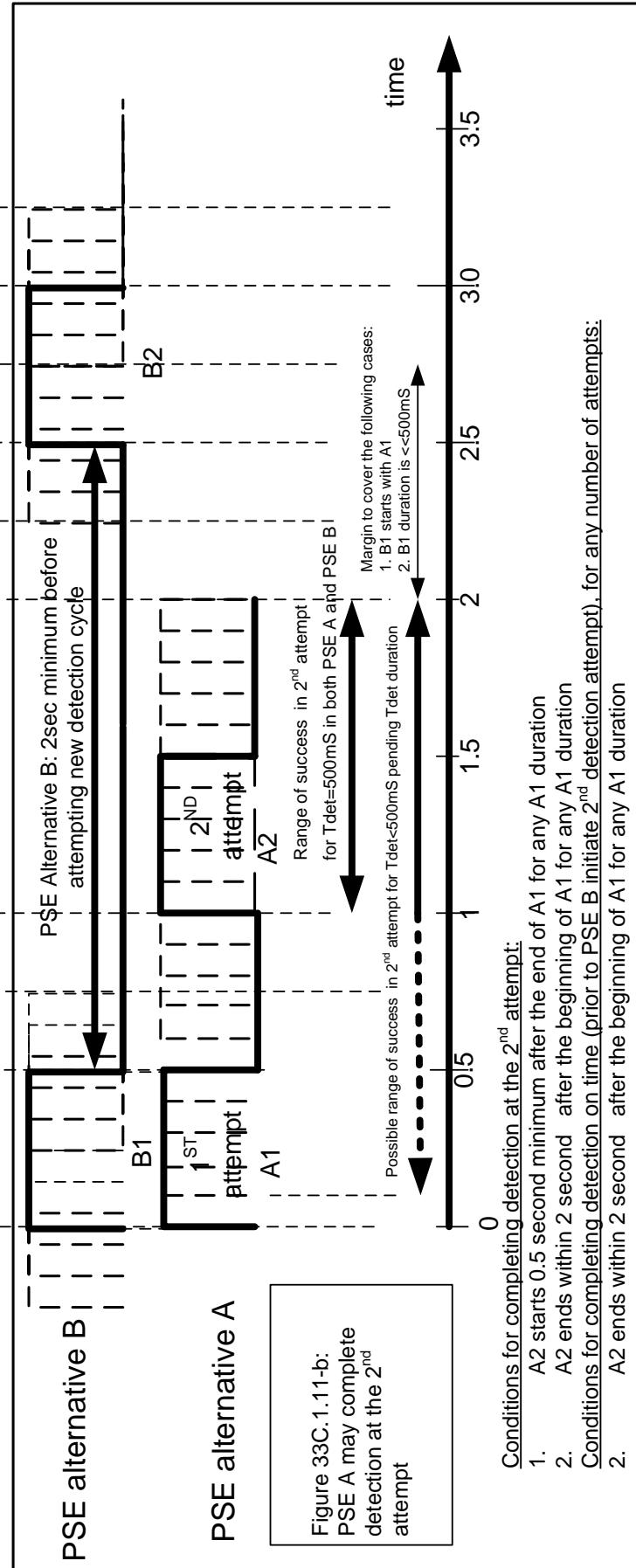


Figure 33C.1.11-b:
PSE A may complete
detection at the 2nd
attempt

Conditions for completing detection at the 2nd attempt:

1. A2 starts 0.5 second minimum after the end of A1 for any A1 duration
 2. A2 ends within 2 second after the beginning of A1 for any A1 duration
- Conditions for completing detection on time (prior to PSE B initiate 2nd detection attempt), for any number of attempts:
1. B1 starts with A1
 2. B1 duration is <500ms