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4  | DATE: July 13, 2022                |
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6  | COMPANY/AFFILIATION: GraCaSI S.A./Independent |
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8  |                                     |
9  | REQUESTED REVISION:                |
10 |   STANDARD: IEEE Std 802.3-2022    |
11 |   CLAUSE NUMBER: 4 (4.1.2.2)      |
12 |   CLAUSE TITLE: Media Access Control (Access interference and recovery) |
13 |                                     |
14 | PROPOSED REVISION TEXT:            |
15 | GOT: In the text:                  |
16 | 4.1.2.2 Access interference and recovery (paragraph 1) |
17 | In half duplex mode, if multiple stations attempt to transmit at the same |
18 | time, it is possible for them to interfere with each other's |
19 | transmissions, in spite of their attempts to avoid this by deferring. |
20 | When transmissions from two stations overlap, the resulting contention is |
21 | called a collision. Collisions occur only in half duplex mode, where a |
22 | collision indicates that there is more than one station attempting to use |
23 | the shared physical medium. In full duplex mode, two stations may |
24 | transmit to each other simultaneously without causing interference. The |
25 | Physical Layer may generate a collision indication, but this is ignored |
26 | by the full duplex MAC. |
27 |                                     |
28 | GOT: The text "from two stations overlap" is not precisely correct. |
29 | It should be "from two or more stations overlap" to be fully correct. |
30 |                                     |
31 | RATIONALE FOR REVISION:            |
32 | It should be pointed out that implementations should detect when more |
33 | than two stations collide. This is a significant additional challenge |
34 | that is important in bussed multi-drop half duplex systems. Systems of |
35 | this type have recently become the subject of new designs. |
36 |                                     |
37 | IMPACT ON EXISTING NETWORKS:       |
38 | Should be none. This requirement has been well known for many years. |
39 |                                     |
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41 | |Please attach supporting material, if any |
42 | |Submit to:- David Law, Chair IEEE 802.3 |
43 | |and copy:- Adam Healey, Vice-Chair IEEE 802.3 |
44 | | |
45 | |At:- E-Mail: stds-802-3-maint-req@ieee.org |
46 | | |
47 | | +----- For official use -----+ |
48 | | REV REQ NUMBER: 1400 |
49 | | DATE RECEIVED: 13 July 2022 |
50 | | EDITORIAL/TECHNICAL |
51 | | ACCEPTED/DENIED |
52 | | BALLOT REQ'D YES/NO |
53 | | COMMENTS: |
54 | +-----+
55 | | For information about this Revision Request see - |
56 | | http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1400 |
57 | +-----+

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