REVISION REQUEST

DATE: July 13, 2022
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REQUESTED REVISION:
STANDARD: IEEE Std 802.3-2022
CLAUSE NUMBER: 4 (4.1.2.2)
CLAUSE TITLE: Media Access Control (Access interference and recovery)

PROPOSED REVISION TEXT:

GOT: In the text:
4.1.2.2 Access interference and recovery (paragraph 1)
In half duplex mode, if multiple stations attempt to transmit at the same
time, it is possible for them to interfere with each other’s
transmissions, in spite of their attempts to avoid this by deferring.
When transmissions from two stations overlap, the resulting contention is
called a collision. Collisions occur only in half duplex mode, where a
collision indicates that there is more than one station attempting to use
the shared physical medium. In full duplex mode, two stations may
transmit to each other simultaneously without causing interference. The
Physical Layer may generate a collision indication, but this is ignored
by the full duplex MAC.

GOT: The text "from two stations overlap" is not precisely correct.
It should be "from two or more stations overlap" to be fully correct.

RATIONALE FOR REVISION:
It should be pointed out that implementations should detect when more
than two stations collide. This is a significant additional challenge
that is important in bussed multi-drop half duplex systems. Systems of
this type have recently become the subject of new designs.

IMPACT ON EXISTING NETWORKS:
Should be none. This requirement has been well known for many years.