	802-3/802.3 REVISION REQUEST 1244
TE:	30th May 2013
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QUESTED REVISION:	
STANDARD:	802.3-2012
CLAUSE NUMBER:	80.4
CLAUSE TITLE:	Delay constraints
OPOSED REVISION TE	XT:
	in this alone was Mark 44 2 for the coloniation of
	in this clause says "See 44.3 for the calculation of fiber or electrical cable."
-	to the following text (including a new equation):
should be changed	to the fortowing text (including a new equation):
tart replacement t	ext>
	ifies the calculation of cable delay in nanoseconds
	electrical cable, based upon the parameter n, which
	of the speed of electromagnetic propagation in the
	cable to the speed of light in a vacuum, $c = 3x10^8$
S.	
ole delay = 10 ^ 9/(n*c)[ns/m] (80-1)
, ,	
	d be available from the fiber or electrical cable
	no value is known then a conservative delay estimate
	ing a default value of n = 0.66, which yields a
ault cable delay	
d replacement tex	t>
TIONALE FOR REVISI	ON:
	th 10 Gb/s and the calculation implicitly assumes a
bit time of 100 ps. Clause 80 is an introduction to 40 Gb/s and 100 Gb/s	
tworks, so this as	sumption results in the calculation being wrong.
e proposed text is	based on the text in 44.3, but without assumption of
y specific bit rat	
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iginally submitte	d as comment #210 on IEEE P802.3bj D1.3)
. cm ou mu	
PACT ON EXISTING N	ETWORKS:
works built using	the existing calculation may assume delays large
_	uired and thus endpoint guidelines might be overly
	he correct calculation should not disrupt a network
t tolerates a lar	
	→

53 54 Please attach supporting material, if any
Submit to:- David Law, Chair IEEE 802.3
and copy:- Wael William Diab, Vice-Chair IEEE 802.3
E-Mail: stds-802-3maint-req@ieee.org

+----- For official 802.3 use -----+
REV REQ NUMBER: 1244
DATE RECEIVED: 30th May 2013
EDITORIAL/TECHNICAL
ACCEPTED/DENIED
BALLOT REQ'D YES/NO
COMMENTS: XX-Xxx-XX Ver: D1.0 Status: R

For information about this Revision Request see http://www.ieee802.org/3/maint/requests/revision history.html#REQ1244

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Existing networks may have been built with lengths determined using the correct calculation. Such networks would not be impacted by correcting

the documentation.