To: **T10 Membership**
From: **Lawrence J. Lamers, Adaptec, Inc. <ljlamers@ieee.org>**
Subject: **PPR Message Enhancements**
Date: **Sunday, May 14, 2000**

Background: The existing transfer period factor field in the PPR message should be defined to remove ambiguity in the historical value ranges.

Table 57 – Transfer Period Factor Table (PPR)

Transfer Period Factor	Description	Transfer Period	Transfer Rate - Wide	Fundamental Frequency	Signal Method	Supported Speeds	
						EWE4	EWE3
00-07hh	Reserved						
08h	Fast-160	6.25ns	320 MB/sec	80Mhz	Dual-Transition	Y	
09h	Fast-80	12.5ns	160 MB/sec	40Mhz	Dual-Transition		Y
0Ah	Fast-40	25ns	80 MB/sec	20Mhz	Dual-Transition		Y
0Ch	Fast-20	50ns	40 MB/sec	10Mhz	Dual-Transition		Y
19h	Fast-10	100ns	20 MB/sec	5Mhz	Dual-Transition		Y
0Bh, 0Dh-18h, 20h-FFh,	Obsolete						

Dual Transition signal methods require the DT_REQ bit to be set to one in the PPR message.
EWE4 speeds require that the FRC/SM bit be set to one.

Table 61 – Transfer Period Factor Table (SDTR)

Transfer Period Factor	Description	Transfer Period	Transfer Rate - Wide	Fundamental Frequency	Signal Method	EWE2	EWE1	EWE0
00-09h	Reserved							
0Ah	Fast-40	25ns	80 MB/sec	40Mhz	Single-Transition	Y		
0Bh	Obsolete							
0Ch	Fast-20	50ns	40 MB/sec	20Mhz	Single-Transition	Y	Y	
0D-18h	Obsolete							
19h	Fast-10	100ns	20 MB/sec	10Mhz	Single-Transition	Y	Y	Y
20h-31h	Obsolete							
32h	Fast-5	200ns	10 MB/sec	5Mhz	Single-Transition	Y	Y	Y
33h-FFh	Obsolete							