

**Proposed  
Draft**

**Serial ATA  
International Organization**

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**Serial ATA Revision 3.2 ECN #082  
Title : FCOMP D24.2 Correction**

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## **1 Introduction**

### **1.1 Problem Statement**

In the FCOMP pattern table one of the values shown for a positive running disparity version of D24.2 had the incorrect first four binary numbers as well as the incorrect hexadecimal value.

### **1.2 Solution Summary**

Replace the incorrect binary and hexadecimal values with the correct values.

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## 2 Technical Specification Changes

### 2.1 <Title of section being changed>

[editor note: Existing text is black. New text is marked as underlined in blue color. Material to be deleted ~~is red with strikethrough markings.~~ ]

#### 2.1.1.1.1 <7.4.5.4.8> Framed composite pattern (FCOMP)

The Framed Composite Pattern (FCOMP) (see Table 73) is equivalent to the COMP pattern as defined in 7.4.5.4.7 with the following structured changes:

- a) according to 7.4.5.3 the COMP pattern is framed;
- b) 2 ALIGN<sub>P</sub> primitives inserted every 256 Dwords; and
- c) a short Inter Gap region is introduced before and after the SOF<sub>P</sub>/EOF<sub>P</sub> to ensure that if repeated sequentially by a generator the 256 Dword ALIGN<sub>P</sub> primitives are perfectly and uniformly spaced 256 Dwords apart even after wrap-around by the generator.

**Table 73 – Framed Composite Pattern (FCOMP)(part 6 of 7)**

Transmission Order →											
-	K28.3(7Ch)-		D21.5(B5h)+			D21.6(D5h)+		D21.6(D5h)+			+
	0011b	1100b	1110b	1010b	1010b	1010b	1001b	1010b	1010b	0110b	
	3h	Ch	Eh	Ah	Ah	Ah	9h	Ah	Ah	6h	
EOF <sub>P</sub>											
+	K28.3(7Ch)+		D21.5(B5h)-			D24.2(58h)-		D24.2(58h)+			-
	1100b	0011b	0010b	1010b	1010b	1100b	1101b	0100b	1100b	0101b	
	Ch	3h	2h	Ah	Ah	Ch	Dh	4h	Ch	5h	
WTRM <sub>P</sub>											
-	K28.3(7Ch)-		D21.5(B5h)+			D24.2(58h)+		D24.2(58h)-			+
	0011b	1100b	1110b	1010b	1010b	<del>1100b</del> <u>0011b</u>	0001b	0111b	0011b	0101b	
	3h	Ch	Eh	Ah	Ah	<del>Ch</del> <u>3h</u>	1h	7h	3h	5h	
Above 2 Dwords are repeated a total of 2 times. WTRM <sub>P</sub> (4 DW)											

#### 2.1.1.1.2 <9.2.3.6.2> Data characters

**Table 87 – Valid data characters (continued)(part 2 of 4)**

Name	Byte	abcdei fghj Output		Name	Byte	abcdei fghj Output	
		Current rd-	Current rd+			Current rd-	Current rd+
D24.2	58h	110011	0101b	D24.3	78h	110011	0011b
			001100			001100	1100b