

comments

Cl 91 SC 91.1 P 123 L 21 # 4  
Lynskey, Eric Teknovus

Comment Type T Comment Status A

In Table 91-1 and Table 91-2 footnote B, it mentions that two types of FEC are supported. The Task Force has not made this decision, and as of now, only a single FEC, RS(255, 223), has been voted on.

SuggestedRemedy

Remove the second sentence of footnote B for both tables.

Response Response Status C

ACCEPT.

Cl 92 SC 92.1 P 299 L 1 # 1  
Lynskey, Eric Teknovus

Comment Type E Comment Status A

Every line of text does not have a line number. In addition, each page has two lines marked as line number 24.

SuggestedRemedy

Fix line numbering to match that of Clause 64 and 91.

Response Response Status C

ACCEPT.

Cl 92 SC 92.1.2.3.2.1 P 303 L 6 # 2  
Lynskey, Eric Teknovus

Comment Type T Comment Status A

The /S/ code-group may only be transmitted in lane 0.

SuggestedRemedy

Replace paragraph with the following. "When using the XGMII, the Start control character will be transmitted in lane 0, and thus the SLD will appear in lane 3 in the same column that contains the start control character."

Response Response Status C

ACCEPT.

Cl 92 SC 92.1.2.3.3.1 P 303 L 16 # 3  
Lynskey, Eric Teknovus

Comment Type T Comment Status A

The SLD should only be received in lane 3 of the same column that contains the start control character.

SuggestedRemedy

Replace paragraph with, "When using the XGMII, the start control character will be received in lane 0, and the SLD will be received in lane 3 of the same column that contains the start control character."

Response Response Status C

ACCEPT.

comments

CI 92 SC 92.2.2.1 P 308 L 3 # 8  
Effenberger, Frank Huawei Technologies,

Comment Type TR Comment Status A

The paragraph mentions the synchronization pattern as "1010..." and the SOD as a "Barker link sequence." The former is inaccurate in comparison with the baseline (which used 0101...), and the later is non-specific, since we definitely need to specify the SOD.

SuggestedRemedy

We recommend changing the synchronization pattern to "0101...".

Also, we recommend specifying the SOD to be the pattern "0x 1 16A2 DC69 F0CD EE40" This pattern, which is different from the example given in the baseline, has a hamming distance of 32 from all shifts of itself and the synchronization pattern 0101..., which seems to be the best possible distance for a 66 bit pattern. It has a max run length of 6, and is has a balance of 32/34 bits of 1/0.

Response Response Status C

ACCEPT.

Change para from "The ONU burst transmission begins with a synchronization patter (binary 1010...) which facilitates receiver clock recovery and gain control at the OLT. To facilitate byte level synchronization the ONU transmits a 66 bit Start of Data (SOD) delimiter composed of a Barker link sequence (see Figure 92-7). When received at the OLT the delimiter allows byte alignment of the incoming data stream, even in the presence of bit errors. The SOD is followed by @tbd (two)@ IDLE blocks which are used to synchronize the SCRAMBLER at the OLT.

To:

"The ONU burst transmission begins with a synchronization pattern 0x55.. (binary 0101...) which facilitates receiver clock recovery and gain control at the OLT. To facilitate FEC codeword synchronization the ONU transmits a 66-bit BURST\_DELIMITER (see Figure 92-7). When received at the OLT the delimiter allows FEC codeword alignment of the incoming data stream, even in the presence of bit errors. The BURST\_DELIMITER is followed by one IDLE block which is used to synchronize the descrambler and one IDLE block to provide IPG at the OLT. These two IDLE blocks are part of the FEC codeword."

CI 92 SC 92.2.2.2.1 P 309 L 13 # 7  
Effenberger, Frank Huawei Technologies,

Comment Type TR Comment Status A

The constant "BURST\_DELIMITER" is defined, but this is substantially the same as the "Start of Data" concept. Also, the definition is incomplete.

SuggestedRemedy

We should change all occurrences of "BURST\_DELIMITER" to "SOD", or alternatively we change "SOD" to "BURST\_DELIMITER". One way or the other, I don't care.

Change definition to read:

BURST\_DELIMITER

TYPE: 66 bit unsigned

A 66-bit value used to find the beginning of the first FEC codeword in the upstream burst  
Default: 0x 1 16A2 DC69 F0CD EE40

Response Response Status C

ACCEPT.

Will Globaly replace "SOD" to "BURST\_DELIMITER"

Change definition to read:

BURST\_DELIMITER

TYPE: 66 bit unsigned

A 66-bit value used to find the beginning of the first FEC codeword in the upstream burst  
Default: 0x 1 16A2 DC69 F0CD EE40