30. Management

30.3 Layer management for DTEs

30.3.2 PHY device managed object class

30.3.2.1 PHY device attributes

30.3.2.1.2 aPhyType

Insert the following new entry in APPROPRIATE SYNTAX after the entry for "1000BASE-T":

      1000BASE-T1   Clause 97 1000 Mb/s PAM3

30.3.2.1.3 aPhyTypeList

Insert the following new entry in APPROPRIATE SYNTAX after the entry for "1000BASE-T":

      1000BASE-T1   Clause 97 1000 Mb/s PAM3

30.5 Layer management for medium attachment units (MAUs)

30.5.1 MAU managed object class

30.5.1.1 MAU attributes

30.5.1.1.2 aMAUType

Insert the following new entry in APPROPRIATE SYNTAX after the entry for "1000BASE-TFD":

BEHAVIOUR DEFINED AS:
...
      1000BASE-T1   Single balanced twisted-pair copper cabling PHY as specified in Clause 97

30.5.1.1.4 aMediaAvailable

Insert into the third paragraph in BEHAVIOUR DEFINED AS section of 30.5.1.1.4 after the second sentence as follows:

  BEHAVIOUR DEFINED AS:
      ...
      For 1000BASE-T1, a link_status of OK maps to the enumeration "available". All other states of link_status map to the enumeration "not available".;

30.6 Management for link Auto-Negotiation

30.6.1 Auto-Negotiation managed object class

30.6.1.1 Auto-Negotiation attributes

30.6.1.1.3 aAutoNegRemoteSignaling

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> The value indicates whether the remote end of the link is operating Auto-Negotiation signaling or not. It shall take the value detected if, during the previous link negotiation, FLP Bursts, /C/ ordered sets (see 36.2.4.10) or DME signals (see 73.5 and 98.2.1.1) were received from the remote end.;

30.6.1.1.5 aAutoNegLocalTechnologyAbility

Insert the following new entry in APPROPRIATE SYNTAX after the entry for "1000BASE-TFD":

> 1000BASE-T1   1000BASE-T1 as specified in Clause 97

Change the following entry in APPROPRIATE SYNTAX as follows:

> Rem Fault   Remote fault bit (RF) as specified in Clause 73 and Clause 98

Insert the following new entry in APPROPRIATE SYNTAX after the entry for "FEC Requested":

> Force MS   Force master slave as specified in Clause 98 (see 98.2.1.2.5)

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> This indicates the technology ability of the local device, as defined in Clause 28, Clause 37, and Clause 73, and Clause 98.;

30.6.1.1.6 aAutoNegAdvertisedTechnologyAbility

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> This GET-SET attribute maps to the technology ability of the local device, as defined in Clause 28, and Clause 37, and Clause 98.

30.6.1.1.7 aAutoNegReceivedTechnologyAbility

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> Indicates the advertised technology ability of the remote hardware. For Clause 28 Auto- Nego-tiation, this attribute maps to the Technology Ability Field of the last received Auto- Negotia-tion link codeword(s). For Clause 37 Auto-Negotiation, this attribute maps to bits D0-D13 of the received Config_Reg Base Page (see 37.2.1). For Clause 73 Auto-Negotiation, this attri-bute maps to bits D10-D13 and D21-D47 of the last received link codeword Base Page (see

73.6). For Clause 98 Auto-Negotiation, this attribute maps to bits D10-D13 and D21-D47 of the last received link codeword Base Page (see 98.2.1.2);

30.6.1.1.8 aAutoNegLocalSelectorAbility

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> This indicates the value of the selector field of the local hardware. The Selector Field is defined in 28.2.1.2.1 for Clause 28 Auto-Negotiation, in and 73.6.1 for Clause 73 Auto--Negotiation, and in 98.2.1.2.1 for Clause 98 Auto-Negotiation. The enumeration of the Selector Field indicates the standard that defines the remaining encodings for Auto-Negotiation using that value of enumeration. For Clause 37 Auto-Negotiation devices, a SET of this attribute will have no effect, and a GET will return the enumeration "ethernet".;

30.6.1.1.9 aAutoNegAdvertisedSelectorAbility

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> In the case of Clause 28 Auto-Negotiation, this GET-SET attribute maps to the Message Selector Field of the Auto-Negotiation link codeword. For Clause 73 Auto-Negotiation, this attribute maps to the Selector Field of the Clause 73 Auto-Negotiation link codeword (see 73.6.1). For Clause 98 Auto-Negotiation, this attribute maps to the Selector Field of the Clause 98 Auto-Negotiation link codeword (see 98.2.1.2.1) A SET operation to a value not available in aAutoNegLocalSelectorAbility will be rejected. A successful SET operation will result in immediate link renegotiation if aAutoNegAdminState is enabled. For Clause 37 Auto-Negotiation devices, a SET of this attribute will have no effect, and a GET will return the enumeration "ethernet".

30.6.1.1.10 aAutoNegReceivedSelectorAbility

Change the BEHAVIOUR DEFINED AS for the attribute as follows:

BEHAVIOUR DEFINED AS:
> In the case of Clause 28 Auto-Negotiation, this attribute indicates the advertised message transmission ability of the remote hardware. It maps to the Message Selector Field of the last received Auto-Negotiation link codeword. For Clause 73 Auto-Negotiation, this attribute indicates the advertised message transmission ability of the remote hardware and maps to the Selector Field of the last received Clause 73 Auto-Negotiation link codeword (see 73.6.1). For Clause 98 Auto-Negotiation, this attribute indicates the advertised message transmission ability of the remote hardware and maps to the Selector Field of the last received Clause 98 Auto-Negotiation link codeword (see 98.2.1.2.1). For Clause 37 Auto- Negotiation devices, a SET of this attribute will have no effect, and a GET will return the enumeration "ethernet".;

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