30. Management

30.2.3 Containment

A containment relationship is a structuring relationship for managed objects in which the existence of a managed object is dependent on the existence of a containing managed object. The contained managed object is said to be the subordinate managed object, and the containing managed object the superior managed object. The containment relationship is used for naming managed objects. The local containment relationships among object classes are depicted in the entity relationship diagrams, Figure 30–3 through Figure 30–5. These figures show the names of the object classes and whether a particular containment relationship is one-to-one, one-to-many or many-to-one. For further requirements on this topic, see IEEE Std 802.1F-1993. PSE management is only valid in a system that provides management at the next higher containment level, that is, either a DTE, repeater or Midspan with management.

MAU management is only valid in a system that provides management at the next higher containment level, that is, either a DTE or repeater with management

Replace Figure 30-3 with the following:

Replace Figure 30-4 with the following

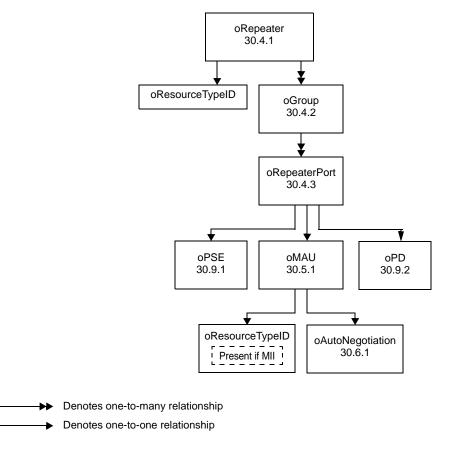
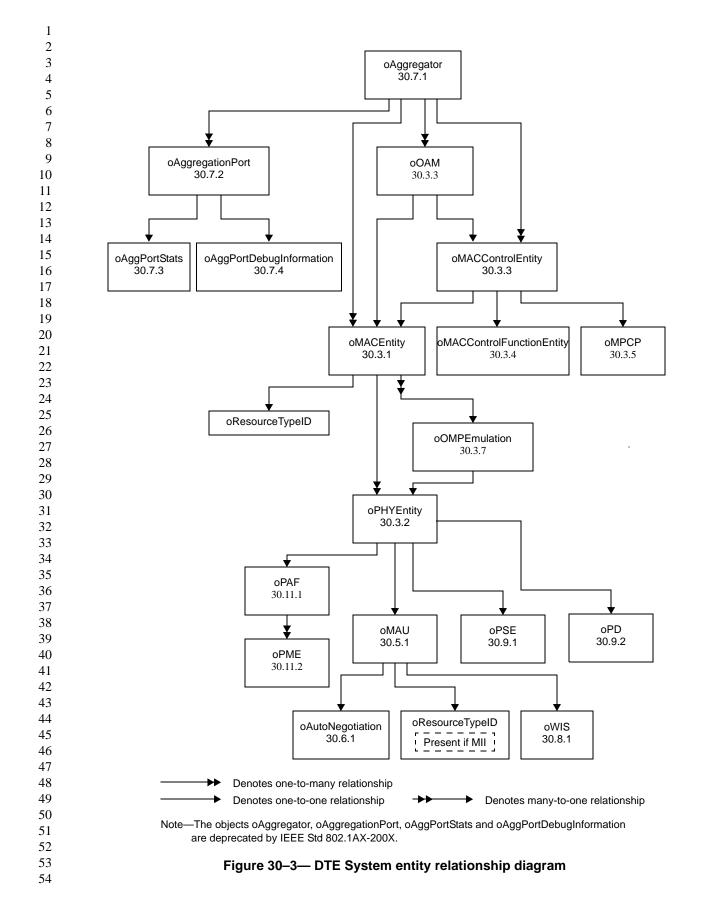


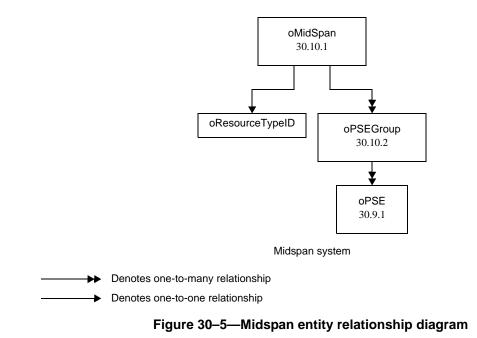
Figure 30-4-Repeater entity relationship diagram



30.2.4 Naming

The name of an individual managed object is hierarchically defined within a managed system. For example, in the context of repeater management, a repeater port might be identified as "repeater 3, group 01, port 13," that is, port 13 of group 01 of a repeater with repeaterID 3 within the managed system.

In the case of MAU management, this will present itself in one of the two forms that are appropriate for a MAU's use, that is, as associated with a CSMA/CD interface of a DTE or with a particular port of a managed repeater. For example, a MAU could be identified as "repeater 3, group 01, port 13, MAU 1" or, that is, the MAU associated with port 13 of group 01 of a repeater with repeaterID 3 within the managed system. Examples of this are represented in the relationship of the naming attributes in the entity relationship diagram, Figure 30–3.



30.2.5 Capabilities

This standard makes use of the concept of *packages* as defined in ISO/IEC 10165-4:1992 as a means of grouping behaviour, attributes, actions, and notifications within a managed object class definition. Packages may either be mandatory, or be conditional, that is to say, present if a given condition is true. Within this standard *capabilities* are defined, each of which corresponds to a set of packages, which are components of a number of managed object class definitions and which share the same condition for presence. Implementation of the appropriate Basic and Mandatory packages is the minimum requirement for claiming conformance to IEEE 802.3 Management. Implementation of an entire optional capability is required in order to claim conformance to that capability. The capabilities and packages for IEEE 802.3 Management are specified in Table 30–1 through Table 30–5.

DTE Management has two packages that are required for management at the minimum conformance configuration—the Basic Package and the Mandatory Package. Systems that implement the optional MAC Control sublayer shall also implement the Basic and Mandatory Packages for the MAC Control Entity managed object class to claim DTE minimum conformance. For systems that include multiple PHY entities per MAC entity and implement the Multiple PHY Package to manage the selection of the active PHY, the optional Recommended Package shall be implemented. Systems that implement the optional Link Aggregation sub-

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layer shall also implement the Basic and Mandatory Packages for the Aggregator and Aggregation Port
 managed object class to claim minimum DTE conformance.

For managed MAUs, the Basic Package is mandatory; all other packages are optional. For a managed MAU to be conformant to this standard, it shall fully implement the Basic Package. For a MAU to be conformant an optional package it shall implement that entire package. While nonconformant (reference aMAUType = "other") MAUs may utilize some or all of this clause to specify their management, conformance to this clause requires both a conformant MAU and conformant management. MAU Management is optional with respect to all other CSMA/CD Management. If an MII is present then the conditional MII Capability must be implemented. This provides the means to identify the vendor and type of the externally connected device.

12 There are two distinct aspects of Repeater Management.

14 The first aspect provides the means to monitor and control the functions of a repeater. These functions 15 include, but are not limited to: identifying a repeater, testing and initializing a repeater, and enabling/dis-16 abling a port. This is encompassed by the mandatory Basic Control Capability.

The second aspect provides the means to monitor traffic from attached segments, and to measure traffic sourced by DTEs connected to these segments. This is done by gathering statistics on packets that enter a repeater and maintaining those statistics on a per port basis. This is encompassed by the optional Performance Monitor Capability. The optional Address Tracking Capability provides the means to identify existence and movement of attached DTEs by their MAC addresses. While nonconformant (reference aRepeaterType = "other") repeaters may utilize some or all of this clause to specify their management, conformance to this clause requires both a conformant repeater and conformant management.

If link Auto-Negotiation is present and managed, the Auto-Negotiation managed object class shall be imple mented in its entirety. All attributes and actions are mandatory.

The 1000 Mb/s Burst Monitor Capability provides additional attributes that relate only to 1000 Mb/s operation, while the 100 Mb/s Monitor Capability has attributes that apply to a mixed 100 and 1000 Mb/s operation. These attributes are provided to complement the counter attributes of the optional packages and capabilities that apply to 10 Mb/s and mixed 10, 100, and 1000 Mb/s implementations. It is recommended that when the 100/1000 Mb/s Monitor Capability or 1000 Mb/s Burst Monitor Capability is implemented, the appropriate complementary counter packages and capabilities are also implemented.

For managed PSEs <u>and PDs</u>, the PSE Basic Package is mandatory<u>and</u> the PSE Recommended Package is optional <u>and the PD Basic Package is mandatory</u>. For a managed PSE to be conformant to this standard, it shall fully implement the PSE Basic Package. For a managed PD to be conformant to this standard, it shall <u>fully implement the PD Basic Package</u>. For a managed PSE to be conformant to the optional Recommended Package it shall implement that entire package. PSE <u>and PD</u> management is optional with respect to all other CSMA/CD management.

The DLL Power Clasification Packages for PSEs and PDs are conditional. For Type 1 or Type 2 PSE that
 implements DLL to be conformant to this standard, it shall fully implement the DLL PSE Power Classifica tion Basic Package. For Type 1 or Type 2 PD that implements DLL to be conformant to this standard, it shall
 fully implement the DLL PD Power Classification Basic Package.

For managed Midspans, the Midspan managed object class shall be implemented in its entirety. All attributes and notifications are mandatory. Midspan management is optional with respect to all other CSMA/ CD management

Replace Table 30-4 with the following (MATT: PLS. CHECK I PRESERVESOLD PACKAGES CORRECTLY) :

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Table 30–4—POE Capabilities

_		ī			_		_		_
								al)	
								tion	(conditional
								ndi	itic
								<u>8</u>	
								age	d
								ack	Basic Package
					onal	5		ц Ц	Da Da
					ptic	atoi		asi	C V
				ory	e (c	and	(ک	n B	å
				ldat	۶ag	Ű.	lato	atio	tion
				nar	act	ility	anc	sific	i C L
				e (r	рő	oab	۳ ۳	las	iuu
				kag	nde	Caj	age	S C	ĉ
				Pac	ame	sic	ack	OWE	NP.
				sic F	μÖ	Ba	ы́	٩,	б Д
				PSE Basic Package (mandatory)	PSE Recommended Package (optional	Midspan Basic Capability (mandatory	PD Basic Package (mandatory)	DLL PSE Power Classification Basic Package (conditional	PD Power Classification
				SЕ	Sп	lids	DВ	Ц	
				₽	₽.	≥	٩		f
C	ResourceTypeID managed object	I		-			H		
	aResourceTypeIDName	ATTRIBUTE	GET			X X			
	aResourceInfo	ATTRIBUTE	GET			Х			L
C	MidSpan managed object class (30.10.1)								
	aMidSpanID	ATTRIBUTE	GET			Х			
	aMidSpanPSEGroupCapacity	ATTRIBUTE	GET			Х			
	aMidSpanPSEGroupMap	ATTRIBUTE	GET			Х			
	nMidSpanPSEGroupMapChange	NOTIFICATION	J			Х			
C	PSEGroup managed object class (30.10.2)								
	aPSEGroupID	ATTRIBUTE	GET			Х			
	aPSECapacity	ATTRIBUTE	GET			Х			
	aPSEMap	ATTRIBUTE	GET			Х			[
	nPSEMapChange	NOTIFICATION	J			Х			
С	PSE managed object class (30.9.1)								
	aPSEID	ATTRIBUTE	GET	Х					
	aPSEAdminState	ATTRIBUTE	GET	х					
	aPSEPowerPairsControlAbility	ATTRIBUTE	GET	х					
	aPSEPowerPairs	ATTRIBUTE	GET-SET	х					
	aPSEPowerDetectionStatus	ATTRIBUTE	GET	х					
	aPSEPowerClassification	ATTRIBUTE	GET		Х				
	aPSEInvalidSignatureCounter	ATTRIBUTE	GET		Х				
	aPSEPowerDeniedCounter	ATTRIBUTE	GET		х				
	aPSEOverLoadCounter	ATTRIBUTE	GET		Х				
	aPSEShortCounter	ATTRIBUTE	GET		X				
	aPSEMPSAbsentCounter	ATTRIBUTE	GET		X				
- 1		ACTION	-	х					
	acPSEAdminControl	AUTION	1				1	\mathbf{v}	
	acPSEAdminControl aDLLPowerType		GET					X	
	aDLLPowerType	ATTRIBUTE	GET GET					X X	
	aDLLPowerType aMirroredDLLPowerType	ATTRIBUTE ATTRIBUTE	GET	-				X X X	
	aDLLPowerType	ATTRIBUTE		-				X X X X	

Table	30-4	POE	Capabilities	\$
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aMirroredDLLPDRequestedPowerValue aDLLPSEAllocatedPowerValue al.ostCommunication	ATTRIBUTE ATTRIBUTE	GET GET	PSE Basic Package (mandatory)	PSE Recommended Package (optional)	Midspan Basic Capability (mandatory)	PD Basic Package (mandatory)
aLostCommunication	ATTRIBUTE	GET	_			
aMirroredLostCommunication	ATTRIBUTE	GET				
oPD managed object class (30.9.2)						
aPDID	ATTRIBUTE	GET				Χ
aDLLPowerType	ATTRIBUTE	GET				Х
aMirroredDLLPowerType	ATTRIBUTE	GET				
aDLLPowerSource	ATTRIBUTE	GET				
aMirroredDLLPowerSource	ATTRIBUTE	GET				
aDLLPDPowerPriority	ATTRIBUTE	GET-SET				х
	ATTRIBUTE	GET				
aDLLPDRequestedPowerValue	ATTRIBUTE	GET				
aMirroredDLLPSEAllocatedPowerValue	ATTRIBUTE					
*	ATTRIBUTE	GET				

Rename title of section 30.9 as follows:

30.9 Management for Power over Ethernet (PoE)

30.9.1 PSE managed object class

This subclause formally defines the behaviours for the oPSE managed object class attributes and actions.

Insert new subclauses after subclause 30.9.1.1.11:

30.9.1.1 DTE Power via MDI F	PSE classification extention attributes	1
30.9.1.1.12 aDLLPowerType		2 3
		4
ATTRIBUTE		5
APPROPRIATE SYNTAX:		6 7
	ue list that has the following entries:	8
PD Powered Devi		9
PSE Power Sourcir	ng Equipment (see 33.2).	10
BEHAVIOUR DEFINED AS:		11
A GET attribute that retu	Irns the requested DTE Power via MDI type of the local system.;	12
		13
30.9.1.1.13 aMirroredDLLPow	verType	14
		15
ATTRIBUTE		16
APPROPRIATE SYNTAX:		17 18
	ue list that has the following entries:	18
PD Powered Devi		20
PSE Power Sourcir	ng Equipment (see 33.2).	20
BEHAVIOUR DEFINED AS:		22
A GET attribute that retu	Irns the requested DTE Power via MDI type of the remote system.;	23
		24
30.9.1.1.14 aDLLPowerSourc	e	25
		26
ATTRIBUTE		27
APPROPRIATE SYNTAX:		28 29
	ue list that has the following entries:	29 30
PSE and local	A PD being powered both locally and by a PSE	31
Local	A PD being powered locally only	32
PSE	A PD being powered by a PSE	33
Backup source	A PSE being powered by a backup source A PSE being powered by its primary power source	34
Primary power source Unknown	A PD or PSE where the power source is unknown	35
	ATD OF TSE where the power source is unknown	36
BEHAVIOUR DEFINED AS:		37
A GET attribute that retu	arns the requested power source of the local system.;	38
30.9.1.1.15 aMirroredDLLPow	/orSourco	39 40
50.9.1.1.15 amintoredDELF00		40 41
ATTRIBUTE		42
		43
APPROPRIATE SYNTAX:	no list that has the following antrias	44
PSE and local	ue list that has the following entries: A PD being powered both locally and by a PSE	45
Local	A PD being powered locally only	46
PSE	A PD being powered by a PSE	47
Backup source	A PSE being powered by a backup source	48
Primary power source	A PSE being powered by its primary power source	49
Unknown	A PD or PSE where the power source is unknown	50 51
BEHAVIOUR DEFINED AS:		52
	Irns the requested power source of the remote system.;	53
	1 1 1 1 1 1	54

1	30.9.1.1.16 aMirroredDLLPDPowerPriority
2 3	ATTRIBUTE
4	APPROPRIATE SYNTAX:
5	An ENUMERATED value list that has the following entries:
6	low low priority PD
7	high high priority PD
8	critical critical priority PD
9	unknown priority unknown
10 11	BEHAVIOUR DEFINED AS:
12	A GET operation returns the priority of the PD system.
12	A SET operation changes the priority of the PD system to the indicated value.;
14	
15	30.9.1.1.17 aMirroredDLLPDRequestedPowerValue
16	
17	ATTRIBUTE
18	APPROPRIATE SYNTAX:
19 20	INTEGER
20 21	BEHAVIOUR DEFINED AS:
21	A GET attribute that returns the requested PD power value. The requested PD power value for a
23	PD is the new maximum input average power (see 33.3.7.2) the PD will ever draw under this
23	power allocation if it is accepted. The PD requested power value for a PSE is the new maximum
25	input average power it wants the PD to ever draw under this power allocation if it is accepted. The
26	requested PD power value is encoded according to Equation (33–16), where X is the decimal value
27	of aMirroredDLLPDRequestedPowerValue.;
28	
29	30.9.1.1.18 aDLLPSEAllocatedPowerValue
30	
30 31	30.9.1.1.18 aDLLPSEAllocatedPowerValue ATTRIBUTE
30 31 32	
30 31 32 33	ATTRIBUTE
30 31 32 33 34	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue.
30 31 32 33 34 35	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS:
30 31 32 33 34	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the
30 31 32 33 34 35 36	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS:
30 31 32 33 34 35 36 37	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allo-
30 31 32 33 34 35 36 37 38	 ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.;
30 31 32 33 34 35 36 37 38 39 40 41	 ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the deci-
30 31 32 33 34 35 36 37 38 39 40 41 42	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication
30 31 32 33 34 35 36 37 38 39 40 41 42 43	 ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.;
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where X is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX:
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where X is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second.
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second. BEHAVIOUR DEFINED AS:
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where X is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second. BEHAVIOUR DEFINED AS: Increment counter by one each time a loss of management frame communication occurs as defined
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where <i>X</i> is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second. BEHAVIOUR DEFINED AS:
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where X is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second. BEHAVIOUR DEFINED AS: Increment counter by one each time a loss of management frame communication occurs as defined
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	ATTRIBUTE APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. BEHAVIOUR DEFINED AS: A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allocation. The power value is encoded according to equation Equation (33–16), where X is the decimal value of aDLLPSEAllocatedPowerValue.; 30.9.1.1.19 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second. BEHAVIOUR DEFINED AS: Increment counter by one each time a loss of management frame communication occurs as defined in subclause 33.8 on the local system.;

APPROPRIATI	E SYNTAX:		1
Generali ond.	zed nonresetable	e counter. This counter has a maximum increment rate of 1 count per sec-	2 3
BEHAVIOUR I	DEFINED AS:		4
		urns the value of the counter on the remote system. Counter increments by nanagement frame communication occurs as defined in subclause 33.8.;	5 6 7
Insert new subclaus	es after subclause	2 30.9.1.2.1:	8 9
30.9.2 PDmanag	ged object cla	SS	10 11
30.9.2.1 PD attri	butes		12 13
30.9.2.1.1 aPDI)		14 15
ATTRIBUTE			16 17
APPROPRIATI INTEGE			18 19
BEHAVIOUR I	DEFINED AS:		20
The valu	e of PDID is ass	signed so as to uniquely identify a PD Power via MDI classification local linate managed objects of the containing object.;	21 22 23
30.9.2.1.2 aDLL	PowerType		24 25
ATTRIBUTE			26 27
APPROPRIATE			28
An ENU PD	MERATED valu Powered Devic	the list that has the following entries:	29
PD PSE		g Equipment (see 33.2).	30 31
BEHAVIOUR I			32
		rns the requested DTE Power via MDI type of the local system.;	33 34
30.9.2.1.3 aMirro	oredDLLPowe	rТуре	35 36
ATTRIBUTE			37
APPROPRIATI	ESYNTAX		38 39
		e list that has the following entries:	39 40
PD	Powered Devic		41
PSE	Power Sourcing	g Equipment (see 33.2).	42
BEHAVIOUR I			43 44
A GET a	ttribute that retu	rns the requested DTE Power via MDI type of the remote system.;	45
30.9.2.1.4 aDLL	PowerSource		46 47
ATTRIBUTE			48 49
APPROPRIATE			50
		the list that has the following entries:	51
PSE and Local	local	A PD being powered both locally and by a PSE A PD being powered locally only	52 53
PSE		A PD being powered by a PSE	53 54

Backup source	A PSE being powered by a backup source	1
Primary power source	A PSE being powered by its primary power source	1 2
Unknown	A PD or PSE where the power source is unknown	3
	-	4
BEHAVIOUR DEFINED AS		5
A GET attribute that re	eturns the requested power source of the local system.;	6
30.9.2.1.5 aMirroredDLLPov	wer Source	7
SUSTERNING CONTRACTED	Veroource	8
ATTRIBUTE		9
		10
APPROPRIATE SYNTAX:		11
An ENUMERATED V PSE and local	alue list that has the following entries: A PD being powered both locally and by a PSE	12 13
Local	A PD being powered locally only	13
PSE	A PD being powered locarly only A PD being powered by a PSE	14
Backup source	A PSE being powered by a backup source	16
Primary power source	A PSE being powered by its primary power source	17
Unknown	A PD or PSE where the power source is unknown	18
	-	19
BEHAVIOUR DEFINED AS		20
A GET attribute that it	eturns the requested power source of the remote system.;	21
30.9.2.1.6 aDLLPDPowerPri	ority	22
	ony	23
ATTRIBUTE		24
		25
APPROPRIATE SYNTAX:	alua list that has the following entries:	26
	alue list that has the following entries: priority PD	27 28
	priority PD	28 29
	al priority PD	30
	ity unknown	31
-		32
BEHAVIOUR DEFINED AS		33
1	ns the current priority of the PD system. ges the priority of the PD system to the indicated value.;	34
A SET operation chang	ges the phonty of the PD system to the indicated value.,	35
30.9.2.1.7 aDLLPDRequeste	edPowerValue	36
		37
ATTRIBUTE		38
		39
APPROPRIATE SYNTAX:		40
INTEGER		41 42
BEHAVIOUR DEFINED AS		42
	eturns the requested PD power value. The requested PD power value for a	44
	um input average power (see 33.3.7.2) the PD will ever draw under this	45
-	s accepted. The PD requested power value for a PSE is the new maximum	46
	wants the PD to ever draw under this power allocation if it is accepted. The alue is encoded according to Equation $(33-16)$, where <i>X</i> is the decimal value	47
of aDLLPDRequested		48
or added drequested	ower value.,	49
30.9.2.1.8 aMirroredDLLPS	EAllocatedPowerValue	50
		51
ATTRIBUTE		52 52
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APPROPRIATE SYNTAX: Same as aDLLPDRequestedPowerValue. **BEHAVIOUR DEFINED AS:** A GET attribute that returns the PSE allocated power value for the PD. The power value is the maximum input average power (see 33.3.7.2) the PD will ever draw under the current power allo-cation. The power value is encoded according to equation Equation (33-16), where X is the deci-mal value of aMirroredDLLPSEAllocatedPowerValue.; 30.9.2.1.9 aLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per second. **BEHAVIOUR DEFINED AS:** Increment counter by one each time a loss of management frame communication occurs as defined in subclause 33.8 on the local system.; 30.9.2.1.10 aMirroredLostCommunication ATTRIBUTE APPROPRIATE SYNTAX: Generalized nonresetable counter. This counter has a maximum increment rate of 1 count per sec-ond. **BEHAVIOUR DEFINED AS:** A GET operation that returns the value of the counter on the remote system. Counter increments by one each time a loss of management frame communication occurs as defined in subclause 33.8.;

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