Event Notification

OAMPDU

OAMPDU Format

Figure 55–9—OAMPDU frame structure

➢ **Flags field will only contain Link Fault, Dying Gasp (time critical events)**

➢ **Event Indication flag and the associated Event Table are eliminated**

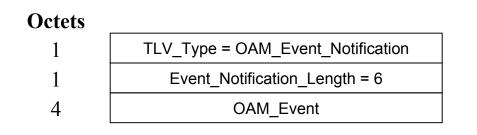➢ **Event Notification OAMPDU will be sent for less time critical events**

OAM Events

Table 55–1—OAM Events

Event	Comment
Errored symbol period	Defined threshold and timer. If non-zero and below threshold in timed window, errored.
Severely errored symbol period	Defined threshold and timer. If exceed threshold in timed window, severely errored.
Errored frame period	Defined threshold and timer. If non-zero and below threshold in timed window, errored.
Severely errored frame period	Defined threshold and timer. If exceed threshold in timed window, severely errored.
Power	Tied to MIB variable. Management can set bit in MIB variable indicating power event.
Temperature	Tied to MIB variable. Management can set bit in MIB variables indicating temperature event.
Loop Fault	One or more PHY-aggregated loops has failed. The specific loop(s) that have failed will be detected by either: a) Variables contained within the Event Notification OAMPDU b) Requesting variables after reading the Event Table
Vendor specific	Management adds data to table.

➢ **No change to Events (other than per comments received against D1.1)**

Event Notification OAMPDU Format - NEW

Octets

1	TLV_Type = OAM_Event_Notification
1	Event_Notification_Length = 6
4	OAM_Event

- ➢ **First TLV contains bit-mapped OAM_Event field**
- ➢ **Each bit corresponds to an Event from Table 55 – 1**
- ➢ **Subsequent TLVs with more details are generated according to active Event(s)**

OAM_Event Field - NEW

Table 55 – xx – OAM_Event Field

Bit(s)	Name	Description
31:8	*Reserved*	
7	Vendor Specific	(per revised Table 55-1)
6	Loop Fault	(per revised Table 55-1)
5	Temperature	(per revised Table 55-1)
4	Power	(per revised Table 55-1)
3	Severely Errored Frame Second	(per revised Table 55-1)
2	Errored Frame Second	(per revised Table 55-1)
1	Severely Errored Symbol Second	(per revised Table 55-1)
0	Errored Symbol Second	(per revised Table 55-1)

➢ **Added 3 bytes for future expansion**

Event Notification OAMPDU Format - NEW

Octets	
1	**TLV_Type = OAM_Event_Notification**
1	**Event_Notification_Length = 6**
4	**OAM_Event**
1	TLV_Type = ESS
1	ESS_Length = 2+X
X	ESS_Event
1	TLV_Type = SESS
1	SESS_Length = 2+X
X	SESS_Event
1	TLV_Type = EFS
1	EFS_Length = 2+X
X	EFS_Event
1	TLV_Type = SEFS
1	SEFS_Length = 2+X
X	SEFS_Event

Octets	
1	TLV_Type = Power
1	Power_Length = 2+X
X	Power_Event
1	TLV_Type = Temperature
1	Temperature_Length = 2+X
X	Temperature_Event
1	TLV_Type = Loop_Fault
1	Loop_Fault_Length = 2+X
X	Loop_Fault_Event
1	TLV_Type = Vendor_Specific
1	Vendor_Specific_Length = 2+X
X	Vendor_Specific_Event
1	TLV_Type = Reserved
1	Reserved_Length = 2+X
X	Reserved_Event

➢ **The xxx_Event field provides additional details related to that event**