14 Management entities

14.1 Introduction

14.4 Management entities for DPoE eOAM profile

14.4.1 Branch 0xDA "identification"

14.4.1.1 *Object Context* TLV

14.4.1.1.1 `ObjectType` field

The `ObjectType` value in the *Object Context* TLV identifies the type of the target object. The ONU and the OLT shall support the values for the `ObjectType` field as shown in Table 14-125.

Table 14-12—Code point allocation for the `ObjectType` field

ObjectType	Code	Notes
ONU	0x00-00	Identifies the ONU as a whole
PON Port	0x00-01	Identifies a PON interface
LLID	0x00-02	Identifies an ~~unicast~~ LLID
UNI Port	0x00-03	Identifies Ethernet UNI port
Queue	0x00-04	Identifies the specific queue on the ONU
reserved	0x00-05	See DPoE-SP-OAM for details
~~mLLID~~	~~0x00-06~~	~~Identifies a multicast LLID~~
reserved	0x00-07	See DPoE-SP-OAM for details

Other values are reserved and ignored on reception. When the destination OAM Client encounters an *Object Context* TLV carrying one of the reserved `ObjectType` values, the destination OAM Client shall discard this *Object Context* TLV and all the subsequent TLVs present in the same eOAMPDU until it encounters another *Object Context* TLV with one of the supported values.

14.4.1.1.2 `ObjectInstance` field

14.4.1.1.2.1 `ObjectInstance` field for ONU (0xDA/0x00-00)

14.4.1.1.2.2 `ObjectInstance` field for PON Port (0xDA/0x00-01)

14.4.1.1.2.3 `ObjectInstance` field for LLID (0xDA/0x00-02)

When the `ObjectType` field is equal to 0x00-02 (LLID), the *Object Context* TLV identifies one of the ~~unicast~~ LLIDs available ~~on~~ at the ONU. The value carried in the `ObjectInstance` field when the `ObjectType` field is equal to 0x00-02 (LLID) shall be as specified in Table 14-128.

The LLID object identified by this TLV may represent any LLID instance available at a given ONU, including the unicast PLID and MLID assigned during ONU's registration (see TBD), pre-configured broadcast `BCAST_PLID` and `BCAST_MLID`, or any other LLID configured via eOAM attribute TBD (see TBD). ~~Individual unicast LLID instances are numbered sequentially and start from 0x00, with the maximum value equal to~~ $N-1$ ~~, where~~ N ~~is the total number of unicast LLIDs present on the given ONU.~~

Table <mark>14-</mark>~~2~~5—Structure of the `ObjectInstance` field for LLID (0xDA/0x00-02)

Size (octets)	Field (name)	Value	Notes
~~1~~2	LLID	0x00-00 to 0xFF-FF ~~0x00 to N-1~~	Represents the LLID value~~Represents the unicast LLID instance~~

14.4.1.1.2.4 `ObjectInstance` field for UNI Port (0xDA/0x00-03)

14.4.1.1.2.5 `ObjectInstance` field for Queue (0xDA/0x00-04)

~~14.4.1.1.2.6 `ObjectInstance` field for mLLID (0xDA/0x00-06)~~

~~When the `ObjectType` field is equal to 0x00-06 (mLLID), the *Object Context* TLV identifies one of the multicast LLIDs registered on the ONU. The value carried in the `ObjectInstance` field when the `ObjectType` field is equal to 0x00-06 (mLLID) shall be as specified in Table 14-8.~~

~~Table 14-8—Structure of the `ObjectInstance` field for LLID (0xDA/0x00-02)~~

~~Size (octets)~~	~~Field (name)~~	~~Value~~	~~Notes~~
~~2~~	~~mLLID~~	~~0x00-00 to 0xFF-FF~~	~~Represents the mLLID value~~

Delete mLLID object context from the following attribute definitions:

Attribute *aCountRxFramesGreen* (0xDB/0x02-01)

Attribute *aCounterRxFramesY* (0xDB/0x02-22)

Attribute *aCounterTxFramesY* (0xD7/0x02-23)

Attribute *aCounterRxOctetsG* (0xDB/0x02-26)

Attribute *aAlarmLlidStatThr* (0xDB/0x03-02)

Attribute *aAlarmStatusControl* (0xDB/0x03-03)

In Attribute *aFecMode* (0xDB/0x06-05) apply the following change:

The *aFecMode* attribute is associated with the LLID, mLLID, or the ONU object (see 14.4.1.1). The Variable Container TLV for the *aFecMode* attribute shall be as specified in Table 14-180. If *aFecMode* attribute is associated with the downstream-only mLLID object, the OLT and the ONU ignore the sub-attribute *aFecMode.sFecUp*.