

13.4.1.3.1 Extended Information TLV

The *Information* OAMPDU defined in IEEE Std 802.3, Clause 57, can contain the Organization Specific Information as *Information* TLV (IEEE Std 802.3, 57.5.2.3). Presence of this *Extended Information* TLV in the *Information* OAMPDU during the OAM discovery process indicates that the OLT or the ONU supports the extended OAM.

The format of the *Extended Information* TLV shall be as specified in Table 13-83 and described in the following text.

Table 13-83—Structure of the *Extended Information* TLV

Size (octets)	Field (name)	Value
1	Type	0xFE (<i>Organization Specific Information</i> TLV)
1	Length	0x05
3	OUI	OUI_A
1	InfoType	0x00
1	Version	<p>This field identifies the version of the eOAM used by this profile. Bits [7:4] represent the major version number Bits [3:0] represent the minor version number The following values are defined: 0x01: reserved for backward compatibility, same as 0x10 0x02: pre-DPoE OAM, without Certificate Authority support 0x03: pre-DPoE OAM, with Certificate Authority support 0x10: OAM compliant with DPoE-SP-OAMv1.0-I04 and previous versions 0x11: OAM compliant with DPoE-SP-OAMv1.0-I05 and subsequent versions of DPoE-SP-OAMv1.0 0x20: OAM compliant with SHEPON-IEEE Std 1904.1-2013, Package A and DPoE-SP-OAMv2.0-I01 and subsequent versions 0x21: OAM compliant with IEEE Std 1904.1-2015, Package A and DPoE-SP-OAMv2.0-I06 and subsequent versions Other values are reserved and ignored on reception.</p>

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The following fields comprise the *Extended Information* TLV:

- a) **Type**: this field is used to indicate the data type held in the given TLV. In the case of the *Extended Information* TLV, this field carries the value of 0xFE, according to IEEE Std 802.3, Table 57–6, indicating the *Organization Specific Information* TLV.
- b) **Length**: this field is used to indicate the length of the TLV, expressed in units of octets.
- c) **OUI**: this field is used to identify the organization to which the given *Information* TLV belongs. At least one of the *Organization Specific Information* TLVs exchanged between the ONU and the OLT during the eOAM discovery process shall be of *Extended Information* TLV type, containing the OUI_A.
- d) **InfoType**: this field is used to identify the subtype of the *Extended Information* TLV.
- e) **Version**: this field is used to indicate the version of the eOAM supported by the given device. The internal format of this field is as follows: aaaa.bbbb (4 bits followed by 4 bits), where “aaaa” represents the major version number, and “bbbb” represents the minor version number. For

example, a `Version` field carrying the value of `0b0010.0000` represents a major version 2, and a minor version 0.