##### *13.4.1.3.1 Extended Information* TLV

1. 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.
2. 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

| 1. **Size (octets)** | 1. **Field** 2. **(name)** | 1. **Value** |
| --- | --- | --- |
| 1. 1 | 1. Type | 1. 0xFE (*Organization Specific Information* TLV) |
| 1. 1 | 1. Length | 1. 0x05 |
| 1. 3 | 1. OUI | 1. OUI\_A |
| 1. 1 | 1. InfoType | 1. 0x00 |
| 1. 1 | 1. Version | 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 IEEE Std 1904.1-2013, Package A and DPoE-SP-OAMv2.0-I01 through DPoE-SP-OAMv2.0-I05  0x21: OAM compliant with IEEE Std 1904.1-2015, Package A and DPoE-SP-OAMv2.0-I06 and subsequent versions  EDITORIAL NOTE: update the date for next revision of IEEE Std 1904.1 in 0x21   1. Other values are reserved and ignored on reception. |

1. The following fields comprise the *Extended Information* TLV:
   1. 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.
   2. Length: this field is used to indicate the length of the TLV, expressed in units of octets.
   3. 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.
   4. InfoType: this field is used to identify the subtype of the *Extended Information* TLV.
   5. 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.