

## 5.2 UMT PDU Subtype encoding

The value encoding of the *Subtype* field shall be as defined in Table 5-1.

Table 5-1—Subtype field encoding

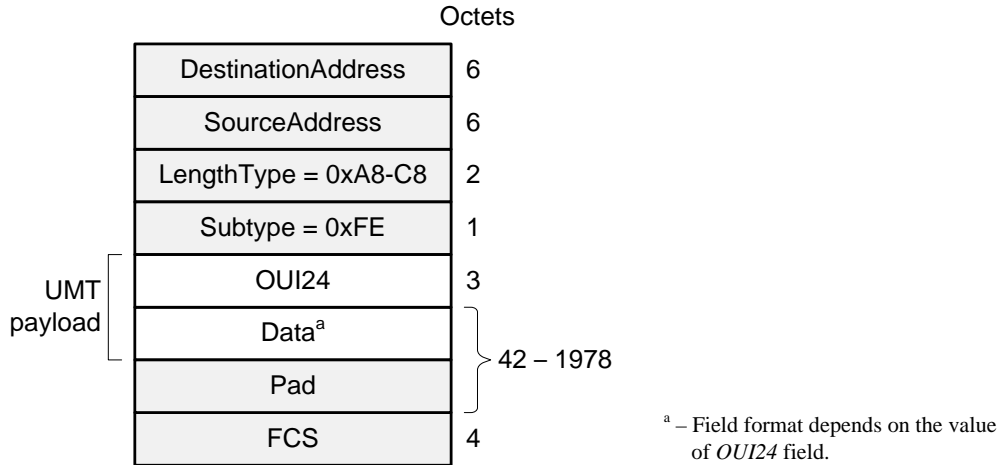
Value	Designation	Description
0x00	<i>UMT_config</i>	<i>UMT_config</i> subtype identifies <i>UMT_Request</i> and <i>UMT_Response</i> UMT PDUs used for configuring the UMT Classification and Translation Engine (see 6.1).
0x01, 0x02	n/a	Reserved for UMT Discovery protocol; ignored on reception.
0x03	<i>OAM_Subtype</i>	<i>OAM_Subtype</i> represents the OAMPDU payload carried within the UMT PDU (see 5.2.2).
0x04	<i>OMCI_Subtype</i>	<i>OMCI_Subtype</i> represents the OMCI payload carried within the UMT PDU (see 5.2.3).
0x05	<i>L2_subtype</i>	<i>L2_Subtype</i> represents a generic Ethernet frame carried within the UMT PDU (e.g., MAC-in-MAC) (see 5.2.4).
0x06	<i>L3_Subtype</i>	<i>L3_Subtype</i> represents a generic L3 packet (plus TPID) carried within the UMT PDU (see 5.2.5).
0x07 to 0xFD	n/a	Reserved; ignored on reception.
<u>0xFE</u>	<u><i>OUI24_Subtype</i></u>	<u><i>OUI24_Subtype</i> represents an organization-specific payload carried within the UMT PDU. The organization is identified by a unique OUI/CID value (see 5.2.6).</u>
<del>0xFE, 0xFF</del>	<u><i>OUI36_Subtype</i></u>	<u><i>OUI36_Subtype</i> represents an organization-specific payload carried within the UMT PDU (see 5.2.6). The organization is identified by a unique OUI-36 value (see 5.2.6).</u>

~~Editorial Note (to be removed prior to publication): Glen took an action item to look into new organization specific ID structure and specify 0xFE for old (3 octet long) and 0xFF for new (longer) ones.~~

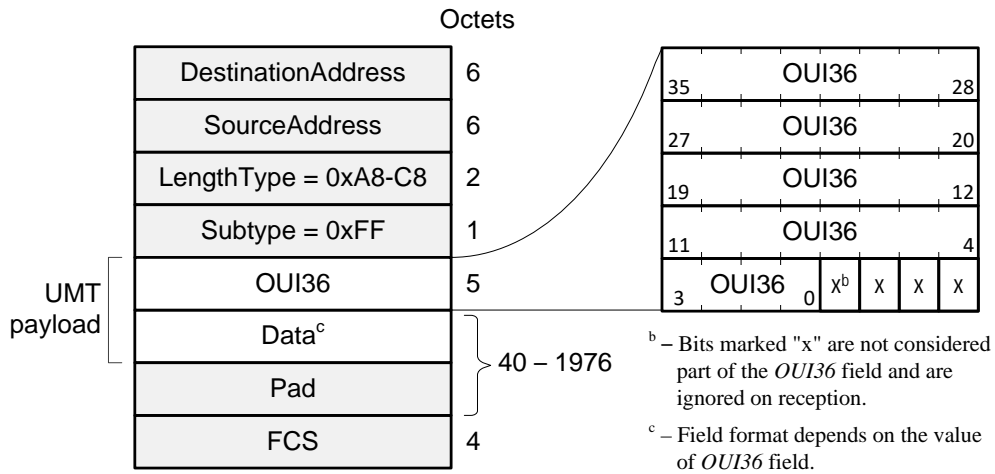
### 5.2.6 Organization-specific extension subtype

The Organization-specific UMT PDU is an instantiation of a generic UMT PDU as defined in 5.1. It is identified ~~with by~~ the *Subtype* field value of ~~0xFE-*OUI24\_Subtype* or 0xFF-*OUI36\_Subtype*~~ and it is used for organization specific extensions.

~~The format and frame structure of the Organization-Specific UMT PDU with *OUI24\_Subtype* frame structure shall be as depicted in Figure 5-5(a), and the field *OUI* immediately following the *Subtype* field shall contain the Organizationally Unique Identifier (OUI) or Company ID (CID). The format and frame structure of the UMT PDU with *OUI36\_Subtype* shall be as depicted in Figure 5-5(b).~~

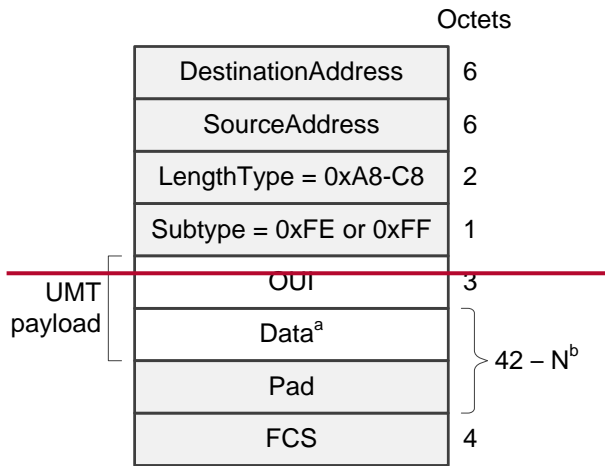


**a) UMT PDU format with OUI24\_Subtype (0xFE)**



**b) UMT PDU format with OUI36\_Subtype (0xFF)**

1



<sup>a</sup> - Field format depends on the value of OUI field.  
<sup>b</sup> - Maximum field length depends on frame type (see Figure 5-1).

2

1           **Figure 5-1—Format of UMT PDU with organization-specific extension subtype**

2       The structure of the *UMT payload* in the UMT PDU with organization-specific extension subtype is defined  
3       as follows:

4       —*OUI24*:

5           This field carries the Organizationally Unique Identifier (OUI) or Company ID (CID); value assigned to  
6           an organization by the IEEE Registration Authority (IEEE RA)<sup>a</sup>.

7       —*OUI36*:

8           This field carries the Organizationally Unique 36-bit Identifier (OUI-36) value assigned to an organization  
9           by the IEEE RA.

10      —*Data*:

11           This field carries the OUI/CID-specific data payload. The internal format of the *Data* field is dependent  
12           on *OUI24* or *OUI36* field value and is beyond the scope of this standard. The combined size of the *Data*  
13           and *Pad* fields ranges between 42 and *N*, where *N* is defined in Figure 5-1.

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<sup>a</sup> Refer to Guidelines for Use of Extended Unique Identifier (EUI), Organizationally Unique Identifier (OUI),  
and Company ID (CID) at <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/tutorials/eui.pdf>.