**5.2.4 Information element**

**5.2.4.5 MLME Information Elements**

*Insert the following new entries into Table 4b:*

**Table 4b—Element IDs, Header IEs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Element ID** | **Content length** | **Name** | **Description** |
| 0x25 | Variable | LECIM | Defined in 5.2.4.21a |
| 0x24–0x3f | – | Reserved | – |

**5.2.4.21a LECIM PAN Descriptor IE**

When used in the LECIM configuration, the LECIM PAN Descriptor IE shall be included in enhanced beacons that are sent every beacon interval in a LECIM PAN.

The LECIM PAN Descriptor IE transports PAN configuration information. The LECIM PAN Descriptor IE uses a nested format as shown in Figure 48ssa.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bit: 0-6** | **7-14** | **15** | **Octets: 1** | **Octets: 0 … 30** | **…** |
| Length = 0-127 | Element ID = 0x25 | Type = 0 | Length | Sub-ID | Sub-ID Content |  |
| **Outer IE Descriptor** | **Sub-IE Descriptor** |  | **Additional Sub-IEs** |

**Figure 48ssa—LECIM PAN Descriptor field format**

Each IE nested within a LECIM PAN Descriptor IE consists of a nested Sub-IE descriptor (consisting of a length field and a Sub-ID field) followed by the IE content. The nested IE is shown in Figure 48ssb. The Sub-ID space for nested LECIM PAN Descriptor IE is managed and shown in Table 4aa.

|  |  |  |
| --- | --- | --- |
| **Bit: 0-6** | **7-8** | **Octets: 0 … 31** |
| Length | Sub-ID | IE Content |

**Figure 48ssb—Format of the nested LECIM IE**

**Table 4aa—Sub-ID allocation for LECIM PAN IEs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sub-ID** | **Content Length** | **Name**  | **Description** |
| 0x00 | 3 | PCAInfo | Declaration of MAC PIB attribute values for PCA Allocation usage as described in 5.2.4.21a.1 |
| 0x01-0x03 | – | Reserved | – |

**5.2.4.21a.1 LECIM PCA Specification**

The LECIM PCA Allocation Specification field is illustrated in Figure 48ssc.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bit: 0** | **1** | **2-15** | **16-23** |
| PCA used | Super-rate | Delay tolerance | Allocation rate |

**Figure 48ssc—Format of the LECIM PCA Allocation Specification field**

The PCA used field is defined by the MAC PIB attribute *macPriorityChannelAccess*, 0 indicating *macPriorityChannelAccess* is FALSE, 1 indicating *macPriorityChannelAccess* is TRUE.

The Super-rate field is defined by the MAC PIB attribute *macPCAAllocationSuperRate*, 0 indicating *macPCAAllocationSuperRate* is FALSE, 1 indicating *macPCAAllocationSuperRate* is TRUE.

The Delay tolerance field is defined by the MAC PIB attribute *macCritMsgDelayTol* and it describes the delay tolerance of critical event messages.

The Allocation rate field is defined by the MAC PIB attribute *macPCAAllocationRate* and with *macPCAAllocationSuperRate*, it provides the rate at which PCA allocations should be made, as follows. If *macPriorityChannelAccess* is TRUE and *macPCAAllocationSuperRate* is FALSE, the PCA allocations will occur at a rate less than one per superframe. In that case the PCA allocations shall occur at the superframes, which sequence number is integer divisible by the *macPCAAllocationRate* value. If *macPriorityChannelAccess* is TRUE and *macPCAAllocationSuperRate* is TRUE, there will be at least one PCA allocation per superframe and the number of PCA allocations per superframe is given by *macPCAAllocationRate*.

*Insert the following new entry into the end of the status field of Table 47:*

PCA\_PARAMETER\_ERROR