**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Proposed resolutions for DSME related comments |
| Date Submitted | [19 September 2012] |
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| Re: | [LB#83 Comment resolution proposal] |
| Abstract | Proposed resolution for DSME related comments LB#83  |
| Purpose | Comment resolution for LB#83 |
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***CID 252***

***Replace the sub-clause 5.3.11.3.6 with the following one:***

5.3.11.3.6 Allocation Order field

The Allocation Order field shall indicate the DSME-GTS allocation interval. This field shall be set to the value of *macAllocationOrder*,AO. The value of AO and DSME-GTS allocation interval are related as follows:

DSME-GTS allocation interval = BI × 2(MO-BO)/2AO for MO>BO.

If MO ≤ BO, DSME-GTS allocation interval is the same as a multi-superframe duration.

***CID 258***

***Insert the following paragraph before 5.1.10.5.2***

Devices in a DSME-enabled PAN can be allocated DSME-GTSs during association procedure. If *macExtendedDSMEenabled* is TRUE and a device is instructed to associate with the PAN through the MLME-ASSOCIATE.request primitive with AssoicationType parameter set to one, the device requests DSME-GTS allocation by sending a DSME Association request command to a coordinator with Extended DSME-GTS Allocation field described in 5.3.11.2.5. On receipt of the DSME-Association request command, the MAC sublayer of the coordinator informs to the next higher layer that DSME-GTS allocation is requested through MLME-ASSOCIATE.indication with AssociationType parameter. The next higher layer of the coordinator instructs the MAC sublayer to reply the DSME-GTS allocation through MLME-ASSOCIATE.response primitive described in 6.2.2.3. Then, the MAC sublayer of the coordinator sends a DSME-Association response command to the device with the DSME-GTS allocation information as described in 5.3.11.3. On receipt of the DSME-Association response command, the MAC sublayer of the device allocates a DSME-GTS and reports the results to the next higher layer

***CID 31***

***Delete the last sentence “The beacon interval in which the PAN coordinator …” in 5.3.11.3.7.***

***Insert the following paragraph at the end of 5.3.11.3.7:***

A device can locate the value of BI Index in which the DSME-Associate response command is received from the value of *macPANCoordinatorBSN* as follows:

BI Index = *macPANCoordinatorBSN* % 2(MO-BO)

***CID 251***

***Replace the first two sentences of the sub-clause 5.3.11.3.6 with the following one:***

The Allocation Order field shall be present if *macExtendedDSMEenabled* is TRUE and AssociationType of the device requesting association is one. This field shall indicate the DSME-GTS allocation interval and be set to the value of *AllocationOrder*, AO, of the device requesting association.

***Replace the first sentence of the sub-clause 5.3.11.3.7 with the following one:***

The BI Index field shall be present if *macExtendedDSMEenabled* is TRUE and AssociationType of the device requesting association is one.

***Replace the first sentence of the sub-clause 5.3.11.3.8 with the following one:***

The Superframe ID field shall be present if *macExtendedDSMEenabled* is TRUE and AssociationType of the device requesting association is one.

***Replace the first sentence of the sub-clause 5.3.11.3.9 with the following one:***

The Slot ID field shall be present if *macExtendedDSMEenabled* is TRUE and AssociationType of the device requesting association is one.

***Replace the first sentence of the sub-clause 5.3.11.3.10 with the following one:***

The Channel Index field shall be present if *macExtendedDSMEenabled* is TRUE and AssociationType of the device requesting association is one.

**CIDs 67, 162**

***Change the sentence at line 53 on page 14***

**“When** macExtendedDSMEenabled **is TRUE, ..., where SO is the superframe order.”**

***with the following one:***

**“When *macExtendedDSMEenabled* is TRUE, the values of the multi-superframe order, MO, the superframe order, SO, and the beacon order, BO, are related as follows: SO≤MO≤BO+lenBSN, where lenBSN is the length of *macBSN* in bits.”**

**CIDs 32, 33, 254**

***Add a parameter “Allocation Order” to the primitives in 6.2.2.3 and 6.2.2.4.***

***Add the following row to the end of Table 11 and Table 12.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| AllocationOrder | Integer | 0x00 – 0x08 | As defined in 5.3.11.3.6. |

**CID 256**

***Add the following row to the end of Table 52h.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute**  | **Type** | **Range** | **Description** | **Default** |
| *macAssociationType* | Integer | 0-1 | Indicate if DSME-GTSs are allocated during association procedure.This attribute is set to one if a device wishes to be assinged DSME-GTS during association. Otherwise, it is set to zero. | 1 |

**CID 257**

***Add the following row to the end of Table 52i.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute**  | **Type** | **Range** | **Description** |
| *AssociationType* | Integer | 0-1 | Indicate if DSME-GTSs are allocated during association procedure.This element shall be set to one if DSME-GTSs are allocated during association. Otherwise, it is set to zero. |

**CID 250**

***- Delete the field “Hopping Sequence Request” in Figure 59gb, and the paragraph in line 7-8 on page 34.***

***- Replace the sentence in 5.3.11.3.4***

“When the value of HoppingSequenceID is other than one, this field shall be set to zero.”

***with the following one:***

“When the value of HoppingSequenceID is other than one or AllocationType is one, this field shall be set to zero.”

**CID 35**

***- Change the name of the attribute “macBeaconIntervalIndex” to “macBIIndex” in Table 52h on page 52.***

***- Change the name of the attribute “macBeaconIntervalIndex” in line 37 on page 103 to “macBIIndex”.***