**IEEE P802.15**

**Wireless Personal Area Networks**

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| Re: |  |
| Abstract | [text for resolution to CID #77 of Sponsor Ballot Recirculation #1] |
| Purpose | [to provide text for resolution CID #77] |
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**Text for resolution to CID #77 of Sponsor Ballot Recirculation #1**

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***Add two new fields in Figure 48naf Device announcement IE:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Bit: 0** | **1** | **2-5** | **6-15** | **16-20** | **21-23** | **Address list** |
| Address mode  | Addresses Pending | Reserved | Number of addresses | Sequence number | Page number | variable |

**Figure 48naf Device announcement IE**

***Add following text in blue at the end of 5.2.4.36 Device Announcement IE:***

A Page number is used to identify a DA IE when multiple DA IEs are transmitted in a round of device announcement. Each round of device announcement is identified by a Sequence number.

***Add two new items (text in blue) in 6.2.24.1 MLME-DA.request primitive***

The semantics of this primitive are:

 MLME-DA.request (

 CoordAddrMode,

 CoordPANId,

 CoordAddress,

 DaSequenceNum,

 DaPageNum,

 DaAddrMode,

 DaAddrNum,

 DaAddrList

 )

The primitive parameters are defined in Table 44ze.

**Table 44ze—MLME-DA.request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| CoordAddrMode | Enumeration | SHORT\_ADDRESS,EXTENDED\_ADDRESS | The addressing mode of the coordinator to which this device is associated with. |
| CoordPANId | Integer | 0x0000 - 0xffff | The identifier of the PAN to which this device is associated with. |
| CoordAddress | Device address | As specified by the CoordAddrMode parameter | The address of the coordinator to which this device is associated with |
| DaSequenceNum | Integer | 0-31 | The sequence number of device annoucement |
| DaPageNum | Integer | 0-7 | The page number of DA IE transmitted in a round of device announcement |
| DaAddrMode | Enumeration | SHORT\_ADDRESS,EXTENDED\_ADDRESS | The addressing mode of the neighbors’ addresses to be transmitted |
| DaAddrNum | Integer | 0-2048 | The number of neighbors’ addresses to be transmitted |
| DaAddrList | Addresses list | As specified by the DaAddrMode parameter | The neighbors’ addresses list to be transmitted |

***Add two new items (text in blue) in* 6.2.24.3 MLME-DA.indication primitive**

The MLME-DA.indication primitive indicates reception of a beacon frame with a DA IE.

The semantics of this primitive are

 MLME-DA.indication (

 CoordAddrMode,

 CoordPANId,

 CoordAddress,

 DaSequenceNum,

 DaPageNum,

 AddrMode,

 Address,

 DaAddrNum,

 DaAddrMode,

 DaAddrList

 )

The primitive parameter is described in Table 44zg.

**Table 44zg—MLME-DA.confirm parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| CoordAddrMode | Enumeration | SHORT\_ADDRESS,EXTENDED\_ADDRESS | The addressing mode of the coordinator to which the beacon transmitting device is associated with. |
| CoordPANId | Integer | 0x0000 - 0xffff | The identifier of the PAN to which the beacon transmitting device is associated with. |
| CoordAddress | Device address | As specified by the CoordAddrMode parameter | The address of the coordinator to which the beacon transmitting device is associated with |
| DaSequenceNum | Integer | 0-31 | The sequence number of device annoucement |
| DaPageNum | Integer | 0-7 | The page number of DA IE transmitted in a round of device announcement |
| AddrMode | Enumeration | SHORT\_ADDRESS,EXTENDED\_ADDRESS | The addressing mode of the beacon transmitting device |
| Address | Device address | As specified by the AddrMode parameter | The address of the beacon transmitting device |
| DaAddrNum | Integer | 0-1024 | The number of addresses included in the Address List field of a DA IE |
| DaAddrMode | Enumeration | SHORT\_ADDRESS,EXTENDED\_ADDRESS | The addressing mode of the addresses included in the Address List field of a DA IE, if DaAddrNum is not zero |
| DaAddrList | Device address | As specified by the DaAddrMode parameter | The addresses included in a DA IE, if DaAddrNum is not zero |