**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title |  | |
| Date Submitted | November 6, 2013 | |
| Source | Ming-Tuo Zhou, Chin Sean Sum, Fumihide Kojima, Verotiana Rabarijaona, Alina Lu Liru, Keiichi Mizutani, Hiroshi Harada (NICT) | E-Mail: [mingtuo@nict.com.sg; sum@nict.go.jp; f-kojima@nict.go.jp; rverotiana@nict.go.jp; liru@nict.com.sg; mizk@nict.go.jp; harada@nict.go.jp] |
| Re: |  | |
| Abstract | [text for resolution to CID #77 of Sponsor Ballot Recirculation #1] | |
| Purpose | [to provide text for resolution CID #77] | |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. | |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. | |

**Text for resolution to CID #77 of Sponsor Ballot Recirculation #1**

Ming-Tuo Zhou, Chin Sean Sum, Fumihide Kojima, Verotiana Rabarijaona, Alina Lu Liru, Keiichi Mizutani, Hiroshi Harada

NICT

***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 |