**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | Resolution for Sponsor Ballot Recir-I Comments 16-23 | |
| Date Submitted | [6 Mar 2014] | |
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| Re: | [] | |
| Abstract | Sponsor Ballot Recirculation-I Comment Resolution for the Time-slot Relaying based Link Extension | |
| Purpose | Draft standard development | |
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CID 16 :

* Disposition status : AiP
* Disposition detail : Insert the following new row at the end of Table D.5

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item number | Item description | References | Status | Support | | |
| N/A | Yes | No |
| MLF30 | Time-slot relaying based link extension (TRLE) Capability | S.2 | O |  |  |  |
| MLF30.1 | Link extension for the non-TRLE PAN | S.3 | MLF30:O.1 |  |  |  |
| MLF30.2 | Link extension for the TRLE-enabled PAN | S.4 | MLF30:O.1 |  |  |  |
| MLF30.3 | TRLE MAC management service | S.5.3 | MLF30.1:M  MLF30.2:M |  |  |  |
| MLF30.4 | TRLE command | S.5.2 | MLF30.2:M |  |  |  |

CID 17 :

* Disposition status : A
* Disposition detail : Change

"..., frame priority, PIB attributes, ..." into " ..., frame priority, TRLE, PIB attributes, ..."

CID 18:

* Disposition status : AiP
* Disposition detail : Insert the following subcluase after Q.2.4.

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**Q.2.5 TRLE**

For extending the range of a link in a star network composed of the IEEE 802.15.4 beacon-enabled devices or the IEEE 802.15.4 DSME-enabled devices, the TRLE PAN relays residing between the PAN coordinator and devices support transparent link connectivity without additional networking overheads to an end device.

The TRLE PAN relay operates with the frame filtering in relaying mode and relays IEEE Std 802.15.4 MAC frames either in the direction of the PAN coordinator or in the direction of a device. The TRLE PAN relay provides a one-hop relaying link extension for the IEEE 802.15.4 beacon-enabled PAN. The TRLE-enabled PAN coordinator and the TRLE PAN relays provide multi-hop relaying link extension for the IEEE 802.15.4 DSME-enabled PAN.

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CID 19:

* Disposition status : A
* Disposition detail : Insert the following rows at the end of MAC PIB attributes.

"- *macRelayingMode*

- *macTRLEenabled*"

CID 20:

* Disposition status : A
* Disposition detail : Insert the sentence at the end of LE-specific MAC PIB attributes.

"The TRLE-specific MAC PIB attributes are given in Table S.6 of S.5.4."

CID 21:

* Disposition status : A
* Disposition detail : Insert the sentence at the end of Q.2.6:

"- TRLE Descriptor IE (S.5.1.1)"

CID 22:

* Disposition status : A
* Disposition detail : Correct the of the Management Type field of a TRLE-Management request command as follows.

p. 122, line 7: LEAVE 🡪 Leave

p. 124, line 47: HELLO 🡪 Hello

p. 125, line 18: PATH 🡪 Path

CID 23:

* Disposition status : A
* Disposition detail : Correct the of the Management Type field of a TRLE-Management response command as follows.

p. 125, line 7: HELLO 🡪 Hello

p. 125, line 11: HELLO 🡪 Hello

Miscellaneous corrections:

p. 120, line 50: PAN relay Address field 🡪 PAN Relay Address field

p. 123, line 7: PAN relay Address field 🡪 PAN Relay Address field

p. 123, line 21: PAN relay Address field 🡪 PAN Relay Address field

p. 123, line 22: PAN relay Address field 🡪 PAN Relay Address field

p. 123, line 31: PAN relay Address field 🡪 PAN Relay Address field

p. 125, line 17: TRLE management request command 🡪 TRLE-Management request command

p. 125, line 20: TRLE management request command🡪 TRLE-Management request command with the Management Type field set to Path,

p. 125, line 26: with ManagementType 🡪 with the ManagementType

p. 128, line 31: the management type 🡪 the value of the Management Type field