**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Suggested discovery definition and changes in one-to-one de-peering procedure |
| Date Submitted | March 2016 |
| Source | Huan-Bang Li (NICT)Marco Hernandez (NICT)Igor Dotlić (NICT)Ryu Miura (NICT) |  |
| Re: | TG8 draft text for discovery definition and changes in one-to-one de-peering procedure for 802.15.8 |
| Abstract | This is the work in progress text of the MAC component for IEEE 802.15.8 group for PAC. |
| Purpose | This document provides the details of draft text to IEEE 802.15.8 |
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# [This is draft text for definition of discovery and one-to-one de-peering procedure TG8]

* 1. Discovery

Discovery is

Discovery is a procedure that a PD sends a message to surroundings for detecting the existence of other PDs. The sending message can be a dedicated message to particular PDs or a non-dedicated message. Other PDs receiving this message can response or do not response depending on if the sending PD soliciting a response.

* + - 1. One-to-one de-peering procedure

As illustrated in Figure 41, a one-to-one De-peering procedure may contain the following steps.

1. A PD’s Higher Layer (i.e. PD1’s Higher Layer) triggers De-peering procedure with a De-peering Request to its MAC (i.e. PD1’s MAC).
2. The MAC receiving the Higher Layer’s De-peering Request (i.e. PD1’s MAC) sends the De-peering Request message to the targeted PD’s MAC (i.e. PD2’s MAC).
3. The targeted PD’s MAC (i.e. PD2’s MAC) receives the De-peering Request message and sends ACK/NACK message to the PD requesting de-peering (i.e. PD1’s MAC*).*
4. The targeted PD’s MAC (i.e. PD2’s MAC), sends the received De-peering Request message to its Higher Layer (i.e. PD2’s Higher Layer).
5. *Optional*: the Higher Layer receiving the De-peering Request (i.e. PD2’s Higher Layer) decides either to accept the De-peering Request or not and indicates it to the MAC (i.e. PD2’s MAC) accordingly.
6. *Optional*: the targeted PD’s MAC (i.e. PD2’s MAC) sends De-peering Response message to the PD requesting de-peering (i.e. PD1’s MAC) as directed by the Higher Layer.
7. *Optional*: the PD’MAC receiving the De-peering Response message (i.e. PD1’s MAC) sends ACK/NACK message to the target PD (i.e. PD2’s MAC).
8. *Optional*: the PD’MAC receiving the De-peering Response message (i.e. PD1’s MAC) sends the De-peering Response message to its Higher Layer (i.e. PD1’s Higher Layer).
9. *Optional:* the link between PD1 and Pd2 is disconnected.



Figure 41—One-to-one de-peering procedure message sequence chart



Figure 41—One-to-one de-peering procedure message sequence chart

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