**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **LB213/D02 comment resolution -- NHL channel map updates -- CIDs 504, 505** |
| Date Submitted | August 25, 2025  |
| Sources | Alex Krebs (Apple)krebs @ apple.com |
| Re: |  |
| Abstract |  |
| Purpose | To propose resolution for MMS related comments for “P802.15.4ab™/D02 Draft Standard for Low-Rate Wireless Networks”. |
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# CID 504, 505

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| **Name** | **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| VERSO, BILLY | 504 | 98 | 10.39.11.1.3.4 | 18 | I am wondering wherher macMmsNbChannelAllowList should be in the MAC or NHL. I think perhaps it should be MAC, with the MAC provding some primitive with state to set the next hop channel, the NHL then knowing it is appropriate to now hip to next channel (because it has reached end of ranging round or block etc, would invole the primitive. Given we are switching between NB and UWB it may be better for the HNL to be in control of setting phyCurrentChanelInfo at the approipriate time for the protocol. | Add primitive to provide the NB channel switch info. This would involve adding new clause 10.39.12 "MAC management service primitives for NBA channel switching" to contain the primitive. Updating to clause 10.39.8.4 to refer to new primitive(s) and incluide a statement that the next higher layer is responsible for setting phyCurrentChanelInfo after invoking the primitive. Finally in this clause 10.39.11.1.3.4 add appropriate text and cross reference to 10.39.8.4 or a subclause there of.  |
| VERSO, BILLY | 505 | 98 | 10.39.11.1.3.4 | 18 | I assume that the NHL will receive the frame with the channel map field and validate/decode it and the NHL will be the entity responsible for actually writing the new updatedmacMmsNbChannelAllowList at the appropriate time. The text should state this responsibility explicitly.  | Add a statement to say it is the next higher layer's responsibility to process messages containing Channel Map field (all three flavours) and write the updatred updatedmacMmsNbChannelAllowList at the appropriate time.  |

Discussion: A simple way to achieve that same goal would be the MLME-SET.request primitive. Added CID 505 to below proposed change.

Proposed resolution: Revised.

Disposition detail: Instruction to editor: Change 10.39.8.4.1 on p.84 lines 7-14:

This scheme is based on a list of channels that may be used by the initiator and the responder for channel

access. The list-based mechanism defined in 10.39.8.4.2 is used to coordinate a set of channels that may be

used by the initiator and the responder for channel access, and 10.39.8.4.3 specifies the mechanism to

dynamically switch among the coordinated channels on each successive ranging block. The next higher layer may use the MLME-SET.request primitive to update phyCurrentChannelInfo and macMmsNbChannelAllowList at appropriate times. The initiator may

update the NB channel used for the current ranging round by including the NB Channel field as one of the

short-term operating parameters in the poll Compact frame as described in 10.39.4.1. The initiator may also

update the list of allowed channels for the next and subsequent ranging rounds by including the NB Channel

Map field as one of the long-term operating parameters in the poll Compact frame as described in 10.39.4.1.