Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: MAC related comment resolution
Date Submitted: July 2010
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Re:

Abstract: proposes resolution to certain comments related to the MAC

Purpose:

CIDs 750 753 754 755 756 757 758 810 812

CID 750

mention use for infrastructure devices

Recommended remedy

- infrastructure devices with continuous visibility shall use this mode of TDD full duplex for visibility. If continuous visibility bit is set, this mode needs to be used

Instruction to editor

- Accept. There is no information on the document as to when the device must send idle or visibility patterns. For continuous visibility, idle patterns or visibility must be sent even during the RX mode. We have defined in Table 75 an infrastructure type. Adding text as in recommended remedy allows us to ensure continuous visibility is provided for infrastructure devices
- Add text as provided in recommended remedy in that clause.

CID 753

Confusing sentence that needs clarification … or perhaps this whole section should be deleted.

- I think the following sentence was inherited from 15.4, but it is confusing and probably needs modification for 15.7 ...

  On a beacon-enabled WPAN, a coordinator that is not the coordinator shall maintain the timing of both the superframe in which its coordinator transmits a beacon (the incoming superframe) and the superframe in which it transmits its own beacon (the outgoing superframe).

  My suggestion is we delete this whole section if the concept of incoming and outgoing superframe timing is not applicable to 15.7.

Instruction to editor

- Accept. We do not support this concept.

CID 754, 756, 758

reference to channel page in this line

- reference to channel page in this line
- phyCurrentPage is not defined in the draft and is probably left over from 15.4 baseline.

Instruction to editor

- Accept.
- Delete all reference to channel page and phyCurrentPage in D2 draft.

CID 755

channel scanning

- Text says …

  Channels are scanned in order from the lowest channel number to the highest.

  How should we interpret this for a 15.7 device? Does this conflict with 7.6.2.6, channel aggregation?

Instruction to editor

- Accept in principle. There is no reason to scan in order. Some CSK receivers can scan in parallel. As discussed in ad hoc, channel aggregation is a TX MAC concept and scanning is a RX PHY concept and are distinct.
- Delete this sentence.

CID 755

channel scanning

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  Channels are scanned in order from the lowest channel number to the highest.

  How should we interpret this for a 15.7 device? Does this conflict with 7.6.2.6, channel aggregation?

Instruction to editor

- Accept in principle. There is no reason to scan in order. Some CSK receivers can scan in parallel. As discussed in ad hoc, channel aggregation is a TX MAC concept and scanning is a RX PHY concept and are distinct.
- Delete this sentence.

CID 757

Reference to CSMA-CA … which is not in our document

- Replace with reference to random access mechanism.

Instruction to editor

- Accept in principle.
- Change to unslotted random access or CSMA-CA.

CID 810

Add some clarification text

- For the star topology mode, assuming the visibility pattern is sent "in-band" as described by the modulation domain (see 5.4), since multiple users could be pointing to the infrastructure fixed coordinator, the point and shoot visibility signal from the mobile device cannot be transmitted continuously.

Instruction to editor

- Accept remedy suggested by comment

CID 812

The text in question is the following:

The beacon is used to inform that the following frame is a TDM time slot, the number of the time slot and the length of the time slot.

- Looking at the Beacon description in section 7.2.2.1 I don't see where this information is being passed. Is it being passed in the Beacon body? How is this information transported by the Beacon?

Instruction to editor

- I think it is provided in 7.2.2.1.2 (Superframe specification field) as part of GTS fields.
- No change.