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

Submission Title: [CID1500 SUNTurnaroundTime supplement]
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Re: []

Abstract: [To provide the supplement rationale behind CID1500 concerning SUNTurnaroundTime and CCA duration]

Purpose: [Contribute to the 15.4g SUN standardization process.]

SUNTurnarondTime & CCA Duration

Table 75ag— CCA duration

779–787MHz Band:	512 us
868–870MHZ Band:	1024 us
902–928MHz Band:	512 us
(950–958MHz Band:	512 us)
2400–2483.5MHz Band:	512 us

Table 30—PHY constants ***(aSUNTurnaroundTime)***

RX-to-TX or TX-to-RX maximum turnaroundtime	1 ms

aSUNTurnaroundTime >> or ≈ CCA duration

CID1500 was going to suggest, it may be better to hold

aSUNTurnaroundTime ≤ CCA duration if actually possible.

Rationale of *aSUNTurnaroundTime << CCA duration*

Because,

- on which the integrity of channel clearance may based
- the quick CCA, RX-TX switch, TX and Channel Release should have been the rationale of Low Power operation of entire 15.4
- In the case of Frequency Channel Hopping with CSMA-CA, the slot time may be limited.

Above are just the clarification of CID1500.

Thank you