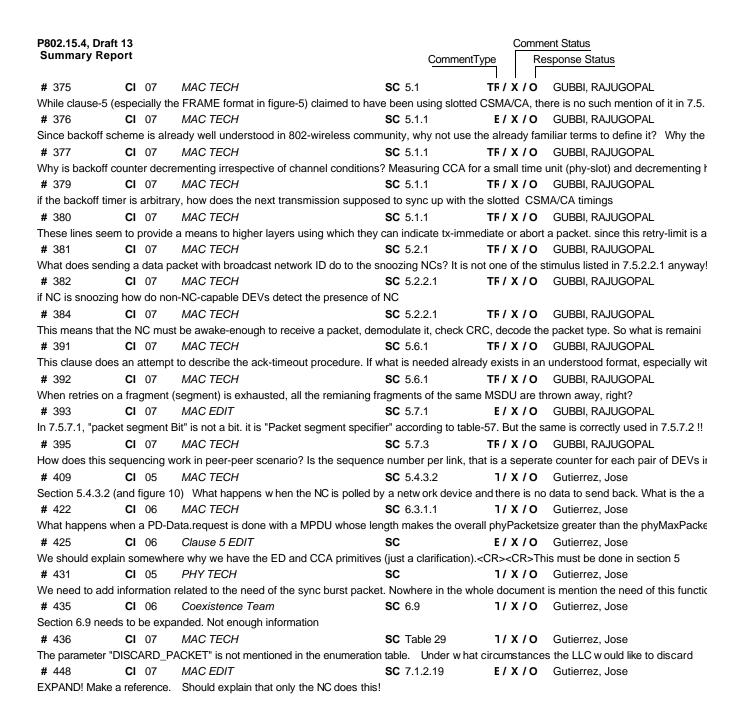
P802.15.4. Draft 13 Comment Status **Summary Report** CommentType Response Status # 55 SC 7.1 **CI** 07 MAC TECH 1/X/O Bourgeois, Monique What if a device receives a primitive that it does not understand? How is this handled? # 101 CI 05 Clause 5 TECH SC 5.4.5.1 1/X/O Bourgeois, Monique This does not specify whether or not "another device currently transmitting on the channel" belongs to the same network as the device. # 105 MAC TECH SC Table 68 1/X/O Bourgeois, Monique Some of the MAC PIB objects are not referenced anywhere in the draft. # 109 **CI** 07 MAC TECH SC Table 64 1/X/O Bourgeois, Monique This is the only mention of multicast/broadcast frames. # 111 **SC** 7.3 1/X/O **CI** 07 MAC TECH Bourgeois, Monigue Do we really want to use CSMA for beacons, since they are responsible for synchronizing the network (what if GTS is supported)? # 113 **CI** 07 MAC TECH SC 7.5.2.2.1 1/X/O Bourgeois, Monique Does a network coordinator change its macFrameOrder to 15 when it enters snooze mode? # 114 MAC TECH SC 7.5.2.1 1/X/O **CI** 07 Bourgeois, Monigue What if two networks do somehow choose the same network ID? How would this conflict be resolved? # 133 CI 05 Picture EDIT SC Figure 14 E / X / O Bourgeois, Monique Figure is unclear. Cluster-Tree Team SC 5.2 TF / X / O Carmeli, Boaz # 162 **CI** 05 Cluster-tree seems to be a topology of its own. It has different settings and behaviors described along many sections in this standard. It see # 165 CI 05 Cluster-Tree Team SC 5.2.1.3 TF / X / O Carmeli, Boaz The description of the cluster tree topology is not clear. Can simple network node transmit a beacon? if so - is it a peer to peer communication # 169 **CI** 05 MAC TECH **SC** 5.4.3.2 TF / X / O Carmeli, Boaz Data request, or data poll from a network node to the network coordinator must receiver an answer. Hance - we should allow the network # 172 CI 05 MAC TECH SC 5.4.5.1 1/X/O Carmeli. Boaz It is not clear from the standard what a device should do in case of failer to transnit a beacom when the channel is busy. Should it choose a # 188 **CI** 05 MAC TECH **SC** 5.4.3.2 1/X/O Carmeli, Boaz What happen to pending message at the network coordinator that is never requested by the relevent network node. Is there a time-to-live tin # 199 **CI** 06 Coexistence Team SC 6.9 1/X/O Chen, Hung-Kun The section of coexistence for 802.15.4 does not address all other IEEE devices using 2.4 GHz band, such as 802.15.1, 802.15.3. Also it on # 205 **CI** 06 Coexistence Team **SC** 6.9 TF / X / O Chen, Kwang-Cheng The section of coexistence for 802.15.4 does not address all other IEEE devices using 2.4 GHz band, such as 802.15.1, 802.15.3. Also it on SC # 217 **CI** 00 Team EDIT TF / X / O CYPHER, DAVID Use of the words, must and should, need to be used consistently and with the proper meanings (see IEEE Standards style manual clause 1: # 222 Picture EDIT E/X/O CYPHER. DAVID SC Figure -14 Figure not following IEEE standard style manual (see 16.1) # 242 **CI** 07 MAC TECH SC 7.1.1.4.3 TF / X / O CYPHER, DAVID No action is described for the behavior when the status is DISCARD_PACKET, unless storing packet segments at a null memory address is # 263 MAC TECH **SC** 6.3.1.3.3 1/X/O CYPHER, DAVID This clause states that. "The effect on receipt of this primitive by the MAC sublayer is unspecified." Is this statement made because there is

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	Transferred States
# 274 CI 05 Cluster-Tree Team	SC 5.2 E / X / O DuVal, Mary
Only 2 topologies mentioned, but 3 are discussed in the following se	ctions.
# 279 CI 00 Coexistence Team	SC 00 1 / X / O Golmie, Nada
The current draft for TG4 does not address the issue of coexistence	with other systems operating in the same band.
# 306 CI 05 Clause 5 EDIT	SC 5.0 E / X / O Gorday, Paul
The term ""Data Rate"" is unclear.	
# 316	SC ALL TF / X / O GUBBI, RAJUGOPAL
Atleast as for as the MAC portions are concerned, this document is at best a requirements document. This does not describe the mechanis	
# 317 CI 00 Team EDIT	SC ALL TF/X/O GUBBI, RAJUGOPAL
The list of features claimed in various parts of this draft and the requi	irements are very similar to those listed for 802.15.3. While 802.15.3 (L
# 318	SC ALL TF/X/O GUBBI, RAJUGOPAL
Interoperability: If this draft becomes a standard as it is, given that all	the mechanisms are defined in an higher layer that is not even referen
# 320 CI 05 <i>MAC TECH</i>	SC 2 TF/X/O GUBBI, RAJUGOPAL
The first sentence in second complete para in 5.2 claim that DEVs ca	an talk to each other without NC. How do they detect each other? How i
# 321 CI 05 <i>MAC TECH</i>	SC 2.1.1 TF / X / O GUBBI, RAJUGOPAL
Sentence here claims that a network ID is chosen that is not currently	y in use by any other network within the radio range. How? What mech
# 327 CI 05 Cluster-Tree Team	SC 2.1.2 E / X / O GUBBI, RAJUGOPAL
This sentence uses such things as "designated parent" and "child" nodes without first defining them.	
# 328 CI 05 Cluster-Tree Team	SC 2.1.2 TF / X / O GUBBI, RAJUGOPAL
If in a cluster tree topology, the devices may only communicate with theire designated parent and child nodes, how is the data forwarding of	
# 329 CI 05 Cluster-Tree Team	SC 2.1.3 TF / X / O GUBBI, RAJUGOPAL
Can DDs using different network IDs form parts of the same cluster tree?	
# 330 CI 05 Cluster-Tree Team	SC 2.1.3 TF / X / O GUBBI, RAJUGOPAL
This entire paragraph describes the DD nomination and cluster formation from a user/requirement point of view. But no where in the draft th	
# 331 CI 05 Cluster-Tree Team	SC 2.1.3 TF / X / O GUBBI, RAJUGOPAL
What is this "predefined time period"	
# 332 CI 05 Cluster-Tree Team	SC Figure 2 TF / X / O GUBBI, RAJUGOPAL
This picture states that each cluster of the same tree being in differer	nt channels? Is that a requirement?
# 333 CI 05 Cluster-Tree Team	SC Figure 2 TF / X / O GUBBI, RAJUGOPAL
This picture states that each cluster of the same tree being in different channels? if so, how is the DD in one channel know that a DEV/DD I	
# 334 CI 05 Cluster-Tree Team	SC Figure 2 TF / X / O GUBBI, RAJUGOPAL
Assuming that a mechanism for DDs to syncup to complete a data tra	ansaction is defined, how is that a particular path from a originating DE
# 336 CI 05 Cluster-Tree Team	SC 2.1.3 TF / X / O GUBBI, RAJUGOPAL
What happens when a DD wants to leave? How is the new one chosen	sen and the information transferred to the new one? What happens if t
# 337 CI 05 Cluster-Tree Team	SC 2.1.3 TF / X / O GUBBI, RAJUGOPAL
What happens when a NC wants to leave? How is the new one chosen and the information transferred to the new one? What happens if t	
# 338 CI 05 Cluster-Tree Team	SC 3 TF / X / O GUBBI, RAJUGOPAL
Stating that the required mechansisms are in an higher layer and it is out of scope for this draft, does not help in realizing an implementation	

P802.15.4. Draft 13 Comment Status **Summary Report** CommentType Response Status SC 3.2 TF / X / O GUBBI, RAJUGOPAL # 340 CI 05 MAC TECH The claim of "Guaranteed packet delivery" in the MAC is ambiguous. There is no receovery mechanism if the max retry has reached. Isn't it? # 342 **CI** 00 MAC EDIT SC ALL E / X / O GUBBI. RAJUGOPAL Use of "Handshake" instead of plain Ack. Why invent terms when implementors are already familiar with the same concept by a well-knowr # 344 SC ALL E / X / O GUBBI. RAJUGOPAL Use of abbreviations and different terms for the same field or concept is rampant in the draft, for example (a) use of FSB in 7.5.7.3, what do # 345 **CI** 00 MAC TECH SC ALL TF / X / O GUBBI. RAJUGOPAL Power management completely escapes the draft except the mention of its requirement in 5.4.1. For example there is absolutely nothing in t # 346 **CI** 00 MAC TECH SC ALL TF / X / O GUBBI. RAJUGOPAL Security completely escapes the draft SC 4 # 347 **CI** 07 MAC TECH TF / X / O GUBBI. RAJUGOPAL Choose macBaseFrameDuration to be a power of 2. It eases the implementation of timers to be 'm' bit wide. Otherwise it depends on the 'm # 348 Cluster-Tree Team **SC** 4.2 TF / X / O GUBBI. RAJUGOPAL **CI** 05 If NCs chose the macFrameOrder, how is this made uniform in cluster-trees? how do DDs exchange this info across the clusters? # 349 **CI** 05 Cluster-Tree Team SC 2.1.3 TF / X / O GUBBI, RAJUGOPAL How do DDs propagate info from NCs beacon, if one is present? Do they send pseudo beacons? or they just don't care. # 350 Cluster-Tree Team **SC** 2.1.3 TF / X / O GUBBI, RAJUGOPAL How do a DEV in a cluster-tree sync up for slotted CSMA/CA timings with other DEVs that are so far apart from itself but close enough to b # 351 **CI** 05 MAC TECH **SC** 4.3 TF / X / O GUBBI. RAJUGOPAL These lines are not clear enough. If beacon is needed for network connection purposes and if NC is currently not sending beacons because # 352 MAC TECH SC 4.3.1 TF / X / O GUBBI. RAJUGOPAL These lines are not clear enough. if beacons are absent doesn't the clock drift at DEVs make the slotted CSMA/CA timings to get misaligned # 354 CI 05 MAC TECH SC 4.3.3 TF / X / O GUBBI. RAJUGOPAL how do devices sync up to slotted CSMA/CA timings without beacon? Who distributes the short addresses in the absence of NC? # 355 **CI** 05 MAC TECH **SC** 4.3.3 TF / X / O GUBBI. RAJUGOPAL CAn a DEV have multiple network-ID? if so, how does it choose to pick one for current peer-peer communication? # 356 **CI** 05 MAC TECH **SC** 4.3.3 TF/X/O GUBBI. RAJUGOPAL In peer-peer mode, how do devices discover each other? **CI** 05 SC 4.4 # 357 MAC TECH TF/X/O GUBBI, RAJUGOPAL PHY-MAC layering is arbitrary? there are MAC types in PHY header!! # 358 CI 05 MAC TECH SC 4.4 TF/X/O GUBBI, RAJUGOPAL Thre is no CRC in PHY header. If length is wrong, how does the DEV know where the packet end is? # 365 TF/X/O GUBBI. RAJUGOPAL Coexistence Team I haven't seen any supporting evidence that the 802.15.4 devices will take less than 1% duty cycle? How was this derived? Please add jus # 367 **CI** 07 MAC TECH SC 1.1.1.1 TF/X/O GUBBI. RAJUGOPAL msduLength: The term MSDU is used for the chunk of bytes rxd from higher layer which is fragmented into packets by the MAC (clause 3 a) MAC TECH **SC** 2.1 TF / X / O GUBBI. RAJUGOPAL Table 54/55: What is PCS? figures 11 and 12 used CRC in the same position.

Comment Type: TR/technical required T/technical E/editorial
Comment Status: X/received D/dispatched for consideration A/accepted R/rejected
Response Status: O/open W/written C/closed U/unsatisfied Z/withdrawn



P802.15.4. Draft 13 Comment Status **Summary Report** CommentType Response Status # 449 SC Table 51 E/X/O Gutierrez. Jose **CI** 07 MAC FDIT Table 51: What is the meaning of "Invalid Value" (under what conditions this situation happens?) # 450 **CI** 07 MAC EDIT SC 7.1.2.21 E/X/O Gutierrez, Jose Section 7.1.2.21: expand explanation of this primitive It would be nice if some introductory text were added in section 5 about the need for MAC EDIT SC 7.5.2 E/X/O Gutierrez. Jose Recommend to add a flow diagram for Sections 7.5.2.1 and 7.5.2.2 # 472 **CI** 07 MAC EDIT SC Figure 30 E/X/O Gutierrez, Jose In this explanation the Sequence Number of a Packet can be further explained. It is not clear from previous explanations! # 475 MAC TECH **SC** 7.5.7.3 **1/X/O** Gutierrez. Jose The explanation of data sequencing is not clear. This whole section looks wrong. Check section 7.5.8 for Bit naming (FSB instead of PSB # 535 **CI** 07 MAC TECH SC Table 44 1/X/O Jamieson, Phil The ChannelList parameter talks about a list of channels from the list of available PHY channels. How will this be done? Do we refer to the # 538 SC Table 46 1/X/O Jamieson, Phil **CI** 07 MAC TECH If the MLME-SCAN.confirm primitive will be used for cluster tree networks as well as for stars, the nwid field probably aught to be a Beacor # 564 **CI** 07 MAC TECH SC 7.5.2.4 1/X/O Jamieson, Phil Editorials - see remedy. Paragraph 2, the synchronization "as described above" probably needs to be spelled out - synchronisation as defi # 568 **CI** 07 MAC TECH SC 7.5.7 1/R/O Jamieson, Phil I do not think that packet fragmentation should be part of this standard. <CR><CR>The PHY can only transmit a finite amount of data (phy # 573 **CI** 06 MAC TECH SC 6.7 1/X/O Jamieson, Phil Text needed in this section. SC # 575 **CI** 00 MAC TECH 1/X/O Jamieson, Phil Should we really be refering to "point-point" rather than "peer-peer" network topologies throughout? **SC** 9.2 # 585 **CI** 06 Coexistence Team 1/ X / O Kinney, Patrick The following verbage isn't strong enough: The 802.15.4 devices have several characteristics that improves its coexistence with other will # 589 MAC TECH SC 5.2.2.1 TF / X / O Kinney, Patrick **CI** 07 coordinator snoozing does not achieve any desireable quality that I can think of, typically it's used to save power but this implementation rec # 591 **CI** 07 MAC TECH SC 5.2.2 TF / X / O Kinney, Patrick I did not find any description of the mechanism for resolving duplicate network id's. I understand the network search but it may not find a ne # 596 **CI** 06 Coexistence Team **SC** 00 TF / A / O Lansford, Jim This specification describes a physical layer that, at the RF interface, is not interoperable, and does not coexist with other IEEE adopted or r. # 597 **CI** 06 Coexistence Team SC 6.9 TF / X / O Liu. Shawn The section of coexistence for 802.15.4 does not address all other IEEE devices using 2.4 GHz band, such as 802.15.1, 802.15.3. Also it on # 600 SC 6.9 Coexistence Team TF / X / O Maa. Yeong-Chang The section of coexistence for 802.15.4 does not address all other IEEE devices using 2.4 GHz band, such as 802.15.1, 802.15.3. Also it on # 617 **CI** 00 Coexistence Team SC TF / X / O Shellhammer, Steve The standard does not sufficiently address the issue of wireless coexistence. # 646 **SC** 5.5 1/ X / O Shepherd, Nick MAC TECH

This clause specifies that a clear channel is detected by use of the MLME-ED Energy Detection method, in conflict with clause 6.8.10

Comment Type: TR/technical required T/technical E/editorial
Comment Status: X/received D/dispatched for consideration A/accepted R/rejected
Response Status: O/open W/written C/closed U/unsatisfied Z/withdrawn

P802.15.4, Draft 13 Summary Report Comment Status

Response Status

E / X / O Shepherd, Nick

648 **CI** 07 *Picture EDIT* Figure 53 is in the wrong clause

660 CI 00 Global EDIT SC E / X / O Kinney, Pat

SPECIALLY ADDED COMMENT:
-CR>-CR>It has come to my attention that what TG4 calls a "packet" 802.11 calls a
-CR>-frame. This will

SC Figure 33