

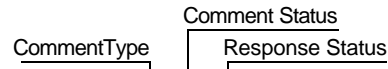


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Comment Status  
 CommentType | Response Status

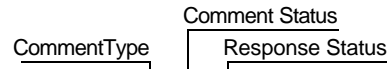
# 115	CI 07	MAC TECH	SC Table 57	1 / X / W	Bourgeois, Monique
# 126	CI 07	MAC TECH	SC 7.5.4	1 / X / W	Bourgeois, Monique
When does handshaking occur for GTS transmissions?					
# 144	CI 06	Phy TECH	SC 6.1	TF / D / W	Breen, Greg
The standard aims to comply with 15.247. This regulatory document requires a 6dB bandwidth of 500 KHz, but the specified 915 MHz PHY I					
# 145	CI 06	Phy TECH	SC 6.6.2.6	1 / R / W	Breen, Greg
The pulse shape specification seems to be incorrect because it shall produce an irregular waveform.					
# 154	CI 04	Global EDIT	SC 4	/	Carmeli, Boaz
is ppm should really be in lower letters?					
# 161				/	
up to 254... (or more .....					
# 172				1 / X / W	
It is not clear from the standard what a device should do in case of failure to transmit a beacon when the channel is busy. Should it choose a					
# 181	CI 06	Phy TECH	SC 6.8.8	1 / A / W	Carmeli, Boaz
The mapping between the integer and the energy level shall be defined.					
# 182	CI 06	Phy TECH	SC 6.8.9	1 / A / W	Carmeli, Boaz
The mapping between the integer and the link quality level shall be defined.					
# 188	CI 05	MAC TECH	SC 5.4.3.2	1 / X / W	Carmeli, Boaz
What happens to pending message at the network coordinator that is never requested by the relevant network node. Is there a time-to-live timer?					
# 193	CI 06	Phy TECH	SC Table 16 (6.5	1 / A / W	Carmeli, Boaz
Why is the phyMaxPacketSize so small? Is it really only 58 bytes for the 2.4 GHz PHY? If so - why does the 900 MHz PHY have a longer packet size?					
# 194	CI 07	MAC EDIT	SC 7.1.1.3.2	1 / X / W	Carmeli, Boaz
What happens to a packet with Destination Address not equal to the Destination Address of the receiving device (a 'not-for-me' packet). Which					
# 195	CI 06	Phy TECH	SC 6.8.10	1 / A / W	Carmeli, Boaz
The CCA mode 4 is not clear to me (sorry). What do we gain from listening to the channel for max PDU size. It seems more important to wait					
# 196	CI 07	MAC TECH	SC 7.2.2.4.2	1 / X / W	Carmeli, Boaz
What if there are more than 16 addresses pending? Are they transmitted in cyclic order?					
# 197	CI 00	MAC TECH	SC 00	1 / X / W	Carmeli, Boaz
Can we support another address convention in which the network ID will be a single byte long, and the device address will be of two bytes?					
# 199	CI 06	Coexistence Team	SC 6.9	1 / X / W	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 omits					
# 200	CI 04	Global EDIT	SC 00	E / A / W	Chen, Hung-Kun
Should add PD(-SAP), MD(-SAP), MA(-SAP) in the acronym section for completeness' sake					
# 201	CI 06	Phy TECH	SC 6.8.10	E / A / W	Chen, Hung-Kun
CCA mode 4: The timer is set to the max PDU size. What should happen if the PDU length information is decoded? Does the CCA keep					
# 205	CI 06	Coexistence Team	SC 6.9	TF / X / W	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 omits					

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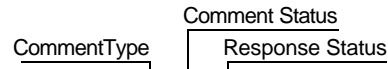
#	CI	Category	SC	Comment Type	Response Status	Author
# 207	CI 00	Global EDIT	SC 00	E / A / W		CYPHER, DAVID
Clause headings do not follow IEEE Style Guide.						
# 223	CI 05	Global EDIT	SC 5.5	1 / A / W		CYPHER, DAVID
Clause describes primitives, yet refers to an IEEE Std 802.2-1998, which is not listed in clause 2. Also ITU-T X.210 is listed in clause 2 for I						
# 240	CI 06	Phy TECH	SC 6.9.2	TF / A / W		CYPHER, DAVID
Is CSMA/CCA mechanism different from CSMA/CA, CSMA-CA, or what is it?						
# 246	CI 07	MAC TECH	SC 7.1.2.5.3	TF / X / W		CYPHER, DAVID
An inconsistency with the value of the GTSLength description in table 38 of 7.1.2.6.1 and the text described here.						
# 261	CI 07	MAC TECH	SC 7.5.2.1	TF / X / W		CYPHER, DAVID
Statement states that "a network coordinator shall ensure that any network coordinators ... are awake ..." and only gives an option on how						
# 263	CI 06	MAC TECH	SC 6.3.1.3.3	1 / X / W		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						
# 266	CI 06	Phy TECH	SC 6.5 Table 16	TF / A / W		CYPHER, DAVID
There is currently no default or minimum required number of channels that must be supported. However, at least one channel must be sup						
# 267	CI 06	Phy TECH	SC 6.5 table 16	TF / R / W		CYPHER, DAVID
No default/initial/minimum value is given for the Clear Channel Assessment Mode. Clause 6.8.10 states that the 802.15.4 Phy shall provide						
# 279	CI 00	Coexistence Team	SC 00	1 / X / W		Golmie, Nada
The current draft for TG4 does not address the issue of coexistence with other systems operating in the same band.						
# 294	CI 06	Phy TECH	SC 6.8.1	1 / A / W		Gorday, Paul
Tx-to-RX turnaround time and Rx-to-Tx turnaround time, as currently specified, do not guarantee handshake operation.						
# 301	CI 06	Phy TECH	SC Table 17	1 / A / W		Gorday, Paul
The new PN sequence is suboptimum for multipath performance.						
# 302	CI 06	Phy EDIT	SC Table 16	E / A / W		Gorday, Paul
The PIB objects phyCurrentChannel and phyNumChannelsSupported are not referenced in any of the sections.						
# 303	CI 06	Phy TECH	SC Table 16	1 / A / W		Gorday, Paul
The spec lists no restrictions on phyNumChannelsSupported? For example, must a compliant device support all channels within a given bar						
# 305	CI 06	Phy TECH	SC 6.7	1 / A / W		Gorday, Paul
The 2.4 GHz PHY specifies a Transmit PSD mask, but the 868/915 PHY does not.						
# 310	CI 06	Phy TECH	SC	E / A / W		Gorday, Paul
# 312	CI 06	Phy TECH	SC Table 15	1 / A / W		Gorday, Paul
Should the Data Start-of-Packet delimiter be changed such that there is a hamming distance of 4 between it and the preamble?						
# 319	CI 05	MAC TECH	SC 2	TF / X / W		GUBBI, RAJUGOPAL
essentially this sentence claims the DEVs can obtain short addresses for operation in LR-WPAN. Nowhere in the draft the procedure requir						
# 320	CI 05	MAC TECH	SC 2	TF / X / W		GUBBI, RAJUGOPAL
The first sentence in second complete para in 5.2 claim that DEVs can talk to each other without NC. How do they detect each other? How i						
# 321	CI 05	MAC TECH	SC 2.1.1	TF / X / W		GUBBI, RAJUGOPAL
Sentence here claims that a network ID is chosen that is not currently in use by any other network within the radio range. How? What mecf						

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# 322	CI 05	MAC TECH	SC 2.1.1	TF / X / W	GUBBI, RAJUGOPAL
How is the network identifier obtained at a DEV? No where in this draft the mechanism needed for such a distribution nor the frame formats					
# 323	CI 05	MAC TECH	SC 2.1.1	TF / X / W	GUBBI, RAJUGOPAL
This sentence claims that task of joining a network occurs above the MAC layer. What does this mean in terms of frame format used and un					
# 324	CI 05	MAC TECH	SC 2.1.2	TF / X / W	GUBBI, RAJUGOPAL
The use of word "although" implies that peer-peer network can operate with or without NC. But there is no description of such an operation					
# 325	CI 05	MAC TECH	SC 2.1.2	TF / X / W	GUBBI, RAJUGOPAL
This sentence claims that NC can be nominated. What if there are multiple DEVs with same network ID waking at the same time and startin					
# 326	CI 05	MAC TECH	SC 2.1.2	TF / X / W	GUBBI, RAJUGOPAL
This sentence claims that NC can be nominated. What if there are multiple DEVs with same network ID waking at the same time, starting sc					
# 331	CI 05	Cluster-Tree Team	SC 2.1.3	/	GUBBI, RAJUGOPAL
What is this "predefined time period"					
# 335				TF / X / W	
This entire draft is vague about "network ID". In 5.2.1.3 and frame format in Table-61 (pp 79) imply that data can be communicated over diffe					
# 339	CI 05	MAC TECH	SC 3.2	TF / X / W	GUBBI, RAJUGOPAL
The claim of "time slot maintenance" in the MAC is ambiguous. There are no mechanisms defined for GTS request, allocation and deallocati					
# 340	CI 05	MAC TECH	SC 3.2	TF / X / W	GUBBI, RAJUGOPAL
The claim of "Guaranteed packet delivery" in the MAC is ambiguous. There is no recovery mechanism if the max retry has reached. Isn't it?					
# 341	CI 05	MAC TECH	SC 3.2	TF / X / W	GUBBI, RAJUGOPAL
This claims list does not cover all that is claimed in clause 5. Where are others like power management, security, association/disassociation					
# 345	CI 00	MAC TECH	SC ALL	TF / X / W	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					
# 347	CI 07	MAC TECH	SC 4	TF / X / W	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					
# 351	CI 05	MAC TECH	SC 4.3	TF / X / W	GUBBI, RAJUGOPAL
These lines are not clear enough. If beacon is needed for network connection purposes and if NC is currently not sending beacons becaus					
# 352	CI 05	MAC TECH	SC 4.3.1	TF / X / W	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					
# 353	CI 05	MAC TECH	SC 4.3.2	TF / X / W	GUBBI, RAJUGOPAL
how does a node request data (after periodically listening) pending at the NC? (same is true for lines 22:26 on page 18). There is no descrip					
# 354	CI 05	MAC TECH	SC 4.3.3	TF / X / W	GUBBI, RAJUGOPAL
how do devices sync up to slotted CSMA/CA timings without beacon? Who distributes the short addresses in the absence of NC?					
# 356	CI 05	MAC TECH	SC 4.3.3	TF / X / W	GUBBI, RAJUGOPAL
In peer-peer mode, how do devices discover each other?					
# 361	CI 06	Phy TECH	SC 4.1.2	TF / A / W	GUBBI, RAJUGOPAL
This is the first place where a bit tx rule is mentioned. Why is this only for one field? Isn't this a common rule for all fields?					
# 362	CI 06	Phy TECH	SC 4.1.3	TF / A / W	GUBBI, RAJUGOPAL
Is this field bit-0 or bit-7 of PHY-Header-octet? What is the use of this bit? nowhere in this doc, except for the mentioning of this bit in 6.4.1.3					

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#	CI	TECH	SC	CommentType	Response Status
# 363	06	Phy TECH	4.1.4	/	GUBBI, RAJUGOPAL
# 364	06	Phy TECH	8.10	TF / R / W	GUBBI, RAJUGOPAL
If this has to be a low-cost implementation, there has to be one simple, reliable scheme for CCA. How can an high end system support five					
# 365	06	Coexistence Team	9	TF / X / W	GUBBI, RAJUGOPAL
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					
# 366	07	MAC TECH	SC	TF / X / W	GUBBI, RAJUGOPAL
"Handles and maintains the GTS mechanism" is an overstatement for the description present in the draft					
# 370	07	MAC EDIT	2.1.2	E / X / W	GUBBI, RAJUGOPAL
While this table is useful, it has to absolutely accompany text description of who uses which format. For example, a line "a non-NC DEV use					
# 375	07	MAC TECH	5.1	TF / X / W	GUBBI, RAJUGOPAL
While clause-5 (especially the FRAME format in figure-5) claimed to have been using slotted CSMA/CA, there is no such mention of it in 7.5.					
# 376	07	MAC TECH	5.1.1	E / X / W	GUBBI, RAJUGOPAL
Since backoff scheme is already well understood in 802-wireless community, why not use the already familiar terms to define it?<CR><CR>					
# 377	07	MAC TECH	5.1.1	TF / X / W	GUBBI, RAJUGOPAL
Why is backoff counter decrementing irrespective of channel conditions? Measuring CCA for a small time unit (phy-slot) and decrementing f					
# 379	07	MAC TECH	5.1.1	TF / X / W	GUBBI, RAJUGOPAL
if the backoff timer is arbitrary, how does the next transmission supposed to sync up with the slotted CSMA/CA timings					
# 380	07	MAC TECH	5.1.1	TF / X / W	GUBBI, RAJUGOPAL
These lines seem to provide a means to higher layers using which they can indicate tx-immediate or abort a packet. since this retry-limit is a					
# 381	07	MAC TECH	5.2.1	TF / X / W	GUBBI, RAJUGOPAL
What does sending a data packet with broadcast network ID do to the snoozing NCs? It is not one of the stimulus listed in 7.5.2.2.1 anyway!					
# 382	07	MAC TECH	5.2.2.1	TF / X / W	GUBBI, RAJUGOPAL
if NC is snoozing how do non-NC-capable DEVs detect the presence of NC					
# 387	07	MAC TECH	5.4	TF / X / W	GUBBI, RAJUGOPAL
this clause also assumes that there are no GTS-alloc/dealloc related transactions over the air initiated/terminated-at MAC. How do GTS re-a					
# 388	07	MAC TECH	5.5	TF / X / W	GUBBI, RAJUGOPAL
DCS: How does the NC know the channel condition at DEVs to decide to change the channel? How does it communicate the decision to the					
# 389	07	MAC TECH	5.5	TF / X / W	GUBBI, RAJUGOPAL
DCS: What is the timeout for DEVs to start searching for the missing NC? How does a DEV distinguish the conditoin among (a) bad chann					
# 390	07	MAC TECH	5.6	TF / X / W	GUBBI, RAJUGOPAL
How does the "macMaxHandshakeWaitDuration" work in GTS?					
# 391	07	MAC TECH	5.6.1	TF / X / W	GUBBI, RAJUGOPAL
This clause does an attempt to describe the ack-timeout procedure. If what is needed already exists in an understood format, especially wit					
# 422	06	MAC TECH	6.3.1.1	1 / X / W	Gutierrez, Jose
What happens when a PD-Data.request is done with a MPDU whose length makes the overall phyPacketsize greater than the phyMaxPaccke					
# 424	06	Phy TECH	Table 4	1 / A / W	Gutierrez, Jose
What happens when the length of a received packet is greater thah phyMaxPacketSize?					

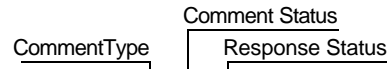
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# 428	CI 06	<i>Phy EDIT</i>	<b>SC</b> Table 14	<b>E / A / W</b>	Gutierrez, Jose
On table 14 there is an inconsistency between what this table states and the explanation in section 5.4.4. On 5.4.4 the sync header, beacoi					
# 431	CI 05	<i>PHY TECH</i>	<b>SC</b>	<b>1 / X / W</b>	Gutierrez, Jose
# 432	CI 06	<i>Phy TECH</i>	<b>SC</b> Table 16	<b>1 / A / W</b>	Gutierrez, Jose
We have a phyNumChannelsSupported in the PIB but this may not be enough since we have 2 PHY's!					
# 435	CI 06	<i>Coexistence Team</i>	<b>SC</b> 6.9	<b>1 / X / W</b>	Gutierrez, Jose
Section 6.9 needs to be expanded. Not enough information					
# 447	CI 07	<i>MAC TECH</i>	<b>SC</b> 7.1.2.15	<b>1 / A / W</b>	Gutierrez, Jose
Page 70:<CR>Section 7.1.2.15.1: How does the MAC knows where to search? the network ID in the PIB -> then state it.<CR><CR>On line					
# 451	CI 07	<i>MAC TECH</i>	<b>SC</b> Table 52	<b>1 / A / W</b>	Gutierrez, Jose
Table 52: Why do I need to track the beacon? I mean it is good to know you are in sync (and when you are not) but this can be a function in					
# 469	CI 07	<i>MAC EDIT</i>	<b>SC</b> 7.5.2	<b>E / X / W</b>	Gutierrez, Jose
Recommend to add a flow diagram for Sections 7.5.2.1 and 7.5.2.2					
# 479	CI 07	<i>MAC TECH</i>	<b>SC</b>	<b>1 / X / W</b>	Gutierrez, Jose
# 480	CI 07	<i>MAC TECH</i>	<b>SC</b>	<b>/</b>	Gutierrez, Jose
HOW A SHORT ADDRESS IS ALLOCATED?					
# 482				<b>1 / X / W</b>	
Table 26: In TxOptions: What is the meaning of "transmit in the current GTS"?					
# 483	CI 07	<i>MAC TECH</i>	<b>SC</b> 7.1.2.6	<b>1 / X / W</b>	Gutierrez, Jose
Page 63 and 64: The GTS Reallocation looks like garbage collection. I would like to eliminate this functionality and leave it for the upper laye					
# 484	CI 07	<i>MAC TECH</i>	<b>SC</b> 7.5.4.2	<b>1 / X / W</b>	Gutierrez, Jose
Why the upper layers have to do a confirmation of the GTS reallocation?Can we leave the reallocation for the upper layers?					
# 485	CI 07	<i>MAC TECH</i>	<b>SC</b> 7.5.4.1	<b>1 / X / W</b>	Gutierrez, Jose
What is the protocol for a NC to setup a GTS? How does a node request a GTS?					
# 535	CI 07	<i>MAC TECH</i>	<b>SC</b> Table 44	<b>1 / X / W</b>	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					
# 564	CI 07	<i>MAC TECH</i>	<b>SC</b> 7.5.2.4	<b>1 / X / W</b>	Jamieson, Phil
Editorials - see remedy.<CR><CR>Paragraph 2, the synchronization "as described above" probably needs to be spelled out - synchronisatic					
# 572	CI 00	<i>Global EDIT</i>	<b>SC</b>	<b>E / A / W</b>	Jamieson, Phil
Some tables/figures are not referenced in the text.					
# 574	CI 00	<i>Global EDIT</i>	<b>SC</b>	<b>E / A / W</b>	Jamieson, Phil
There are a lot of period (.) characters missing in the text, especially in tables and bullet points.					
# 577	CI 06	<i>Phy TECH</i>	<b>SC</b> Table 16	<b>1 / A / W</b>	Jamieson, Phil
The description of the PIB entry phyMaxPacketSize is not quite worded correctly and is also restrictive for a 2.4GHz PHY implementation the					
# 579	CI 06	<i>Phy TECH</i>	<b>SC</b> 2.5.3	<b>TF / A / W</b>	Kinney, Patrick
A sensitivity of -85 dBm is not good enough for the 868/928 PHY. The major reason for this device over the 2.4 GHz device is range. The €					



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#	CI	Category	Comment Type	Comment Status	Response Status	Author
# 623	06	Phy TECH	SC Table 7	E / A / W		Shepherd, Nick
What is the algorithm for defining the value of Energy Level?<CR><CR>Is "0" high or low?<CR><CR>How do this figure relate to the energy						
# 626	06	Phy TECH	SC Table 16	1 / A / W		Shepherd, Nick
phyNumChannelsSupported: the description for this is not complete. For instance, a value of 1 indicates that, presumably, the PHY can han						
# 628	06	Phy TECH	SC 8.10	1 / R / W		Shepherd, Nick
This section is very complex for a lightweight implementation.						
# 642	07	MAC TECH	SC Table 68	1 / A / W		Shepherd, Nick
macBeaconTxTime: What unit does this use, eg seconds? What time is returned? Absolute time from w hen? Who is responsible for keepi						
# 644	07	MAC TECH	SC 5.4.1	1 / X / W		Shepherd, Nick
This explanation of allocating a GTS is not complete. Is it possible to allocate the complete frame to GTSs, leaving no contention period? Sh						
# 646	07	MAC TECH	SC 5.5	1 / X / W		Shepherd, Nick
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						
# 650	A	Global EDIT	SC 1	1 / A / W		Shepherd, Nick
Empty Annex.						
# 651	B	Global EDIT	SC	1 / A / W		Shepherd, Nick
No conformance statement						
# 660	00	Global EDIT	SC	E / X / W		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						