IEEE 802.16.1: Comments for Session #11

Comment #	11-01	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	5	Starting Line N	umber	61	Section	TOC
Suggested	Change:								Editor	Marks
Change "	Sub-layer" to	"Sublayer" a	nd similar inc	idences thro	ougho	out the docume	nt (e.g.	, page	7, line 12).
Reason:										
In the doc	ument, "Sub-	layer" is used	in some plac	ces and "Su	ıblayeı	r" is used in oth	ners. M	ake th	em consis	tent.
Comment #	11-02	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	16	Starting Line N	umber	10	Section	1.3
Suggested	Change:								Editor	Marks
	•	xt the suffix ".	1" to "802.16'	', as well as	from	the figure title.				
•						ossible flavors	of Phys	sical 80	02.16 laye	
Reason:										
To mainta	in coherence	with the gene	eric protocol	relationship	intend	ded to be show	n with	the fig	ure.	
Comment #	11-03	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	17	Starting Line N	umber	3	Section	1.3
Suggested	Change:								Editor	Marks
	_	dards enumm	eration the fo	llowing one	es:					
_	FF Std 802 5		0.4.0		·.					

- ANSI/IEEE Std 802.6

Reason:

To complete the list of the all technologies appearing in the figure 1 on page 16.

Comment #	11-04	Comment s	ubmitted by:	Antonis		Karvela	ıs				Neither
Туре	Technical		Starting Pag	ge Number	19	Starting	Line	Number	35	Section	3
Suggested C	hange:									Editor	Costa
You must a	add the down				•						ence "Set of parameters downstream transmissio
Reason:											
The term "b	urst profile" i	s used not o	nly for upstre	am but als	o for d	ownstrea	ım.				
Comment #	11-05	Comment s	ubmitted by:	Vicente		Quilez					Observer
Type	Editorial		Starting Pag	ge Number	19	Starting	Line	Number	35	Section	3
Suggested C	hange:									Editor	Costa
	upstream" fro	om the sente	nce "Burst Pi	rofile: Set	of para	meters th	nat de	escribe ι	upstrea	ım transmi	ssion properties"
Reason:											
The definition	on of Burst P	rofile is gene	eric to bith up	stream an	d down	stream.					
Comment #	11-06	Comment s	ubmitted by:	Kenneth		Stanwo	ood				Member
Type	Technical		Starting Pag	ge Number	19	Starting	Line	Number	41	Section	3 Definitions
Suggested C	hange:									Editor	Costa
			scription of ch	nanges for	packin	g multiple	e SDI	Us into	a singl	e PDU in	presence of fragmentati
Reason:	r protocol typ	oe.									
	02 16 1 ₀₋ 01/	04r0 for eve	lanation of no	ed for nea	skina m	nultinla S	DI le i	into a ci	nale P	DILin pre	sence of fragmentation
	protocol typ	•	idilation of ne	ca for pac	Jillig II	iditipic o	D03 1	iiito a si	rigic i	DO III PIC	scribe of fragmentation
,	. 71										
Comment #	11-07	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag	ge Number	19	Starting	Line	Number	64	Section	3.11
Suggested C	hange:									Editor	Costa
	•	S" and all si	imilar inciden	ces throug	hout th	ne docum	nent (e.g., pa	ge 20,	line 14).	
Reason:											
Grammatica	al error.										

nment # 11-08 Comment submitted by: Coleman Hum Member	
Type Editorial Starting Page Number 20 Starting Line Number 23 Section 3.18	
ggested Change: Editor Costa	
ove Section 3.18 before 3.15	
ason:	
phabetical ordering	
nment # 11-09 Comment submitted by: Coleman Hum Member	
Type Editorial Starting Page Number 20 Starting Line Number 26 Section 3.19	
gested Change: Editor Costa	
ove Section 3.19 before 3.15	
ason:	
phabetical ordering	
nment # 11-10 Comment submitted by: Stanley Wang Neither	
The state of the s	
Type Technical, Binding Starting Page Number 20 Starting Line Number 38 Section 3.22	
ggested Change: Editor Costa	
ld the following definition after "Management Connection": lessage Integrity Check (MIC): A digest which ensures that the data sent from the provisioning server were not modified	en rou
ason:	CITTOU
C is a very important part of the registration process and should have been defined.	
nment # 11-11 Comment submitted by: Vicente Quilez Observer	
Type Technical, Binding Starting Page Number 20 Starting Line Number 39 Section 3.22	
gested Change: Editor Costa	
gested Change: Costa clarify whether the mini-slot concept is also valid for the downstream in the mini-slot defintion included in section 3.	
geotoa onungo.	

Comment #	11-12	Comment submitted by:	Robert	Johns	on			Neither	
Type	Technical	Starting Page	ge Number 20	O Starting	Line Number	44	Section	3.24	
Suggested (Change:						Editor	Costa	

Add the following definitions:

"Payload Header Suppression (PHS): The process of suppressing the repetitive portion of payload headers at the sender and restoring the headers at the receiver."

"Payload Header Suppression Field (PHSF): A string of bytes representing the header portion of a PSU in which one or more bytes will be suppressed (i.e. a snapshot of the uncompressed PDU header inclusive of suppressed and unsuppressed bytes)."

"Payload Header Suppression Index (PHSI): An 8-bit mask that indicates which bytes in the PHSF to suppress, and which bytes to not suppress."

"Payload Header Suppression Rule (PHSR): A ser of TLV's that apply to a specific PHS Index."

"Payload Header Suppression Size (PHSS): The length of the Suppressed Field in bytes. This value is equivalent to the number of bytes in the PHSF and also the number of valid bits in the PHSM."

"Payload Header Suppression Valid (PHSV): A flag that tells the sending entity to verify all bytes that are to be suppressed."

"Protocol Data Unit (PDU): A data unit generated by a particular protocol layer for its next lower layer."

Reason:

These definitions are used in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Note that the definition for PDU is per ISO/IEC 7498 standard.

Comment #	11-13	Comment su	ubmitted by:	Stanley		Wang			Neither
Type	Technical		Starting Pag	ge Number	20	Starting Line Number	44	Section	3.24
Suggested C	hange:							Editor	Costa

Add the following definition:

"Payload Header Suppression (PHS): The process of suppressing the repetitive portion of payload headers at the sender and restoring the headers at the receiver."

Reason:

This definition is used in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer.

Costa

Editor

Comment #	11-14	Comment s	ubmitted by:	Stanley		Wang			Neither
Type	Technical,	Binding	Starting Pag	ge Number	20	Starting Line Number	52	Section	3.26
Suggested	Change:							Editor	Costa

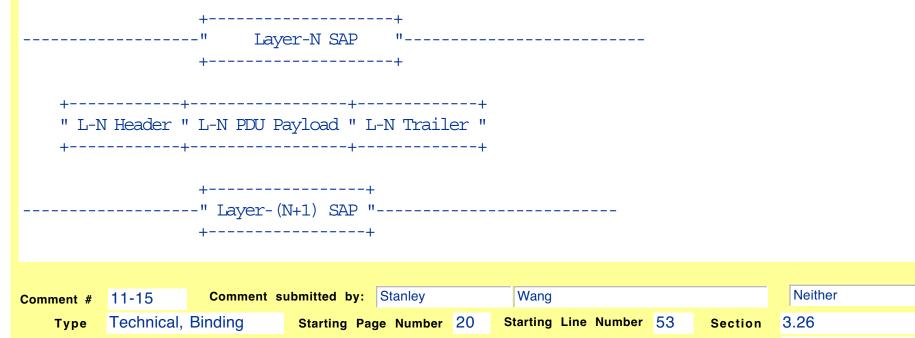
Add the following definition:

Protocol Data Unit (PDU): A data unit generated by a particular protocol layer for its next lower layer.

Reason:

Per ISO /IEC 7498-1:1994, the term "PDU" and "SDU" are clearly defined and should be followed in this draft standard to avoid unnecessary confusion. For example, CS PDU means the data unit generate and handed by the CS layer to the MAC layer.

The following picture shows the architecture of a typical protocol layer and the structure its PDU.



Add the following definition after the definition for "Privacy Key Mamagement Protocol":

"Ranging: The process of acquiring the correct timing offset such that the subscriber stations are aligned to a symbol that marks the begining of a mini-slot boundary."

Reason:

Suggested Change:

"Ranging" is an important step of the entire process and should have been defined.

Comment #	11-16	Comment submitted by:	Vicente	Quilez		Observer
Type	Editorial	Starting Page	ge Number 20	Starting Line Number 62	Section	3
Suggested	Change:				Editor	Costa

To align the defined term and the corresponding definition.

Reason:

Attending to the given definition, the term defined is the MAC Service Access Point. If the aim is to define the term Service Access Point, any reference to MAC layer should be deleted from the definition. If the aim is to define The MAC Service Access Point, other Service Access Points should be defined as well (e.g. PHY Service Access Point)

 Comment #
 11-17
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Technical, Binding
 Starting Page Number
 20
 Starting Line Number
 62
 Section
 3.28

 Suggested Change:
 Editor
 Costa

Change the definition for "Service Access Point" to read:

"Service Access Point (SAP): The point in a protocol stack where the services of a lower layer are available to its next higher layer."

Reason:

SAP is a general term for all protocol layers not just the MAC layer. The original definition suggests otherwise.

Comment # 11-18 Comment submitted by: Robert Johnson Neither

Type Technical, Binding Starting Page Number 21 Starting Line Number 1 Section 3.29

Suggested Change: Editor

Add the following definition:

"Service Data Unit (SDU): A data unit handed to a particular protocol layer from the layer above it."

Reason:

This definition is used in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Note that the definition for SDU is per ISO/IEC 7498 standard.

Comment #	11-19	Comment s	ubmitted by:	Stanley	Wang			Neither
Type	Editorial		Starting Pag	ge Number 21	Starting Line Number	1	Section	3.29
Suggested C	hange:						Editor	Costa
Change the	e end of the	line to read "t	hat provides	a" instead of "	"that is provided a"			
Reason:								
Grammatica	al error.							
Comment #	11-20	Comment s	ubmitted by:	Stanley	Wang			Neither
Type	Technical,	Binding	Starting Pag	ge Number 21	Starting Line Number	1	Section	3.29
Suggested C	hange:						Editor	Costa
Add the fol	lowing defin	ition:						

Service Data Unit (SDU): A data unit handed to a particular protocol layer from the layer above it.

Reason:

Per ISO /IEC 7498-1:1994, the term "PDU" and "SDU" are clearly defined and should be followed in this draft standard to avoid unnecessary confusion. For example, MAC SDU means the data unit received by the MAC layer from the CS layer.

The SDU of a particular protocol layer could be its entire PDU Payload, if the protocol layer does not process the SDU and simply adds its protocol header and trailer to the SDU.

Comment #	11-21	Comment s	ubmitted by:	Stanley		Wang			Neither
Type	Technical,	Binding	Starting Pag	ge Number	21	Starting Line Number	36	Section	3.39
Suggested C	hange:							Editor	Costa

Change the definition for "Uplink" to read:

"Uplink (UL): A flow of information that exists in the upstream."

Reason:

Like "downlink", the word "uplink" refers to a flow not a direction. The word "upstream" is used to indicate the direction.

	•									00	0 17 00
Comment #	11-22	Comment s	ubmitted by:	Vicente		Quilez				Observer	
Type	Editorial		Starting Pag	ge Number	21	Starting Line	Number	52	Section	4	
Suggested C	hange:								Editor	Costa	
- PKM (Prive BNI (Base SNI (Subsection FBWA (Fier TEK (Trafer SA (Secues SAID (Sees PMD (Physical PMD (Prive BNI (Prive B	vacy Key Ma e Station Ne scriber Stati xed Broadb fic Encryptic rity Associa curity Associa ysical Media	• /	ce) nterface) Access) ier)	ation)							
Reason:											
To complete	e abbreviati	ons chapter									
	11-23		ubmitted by:	-		Wang				Neither	
Type	Technical,	Binding	Starting Pag	ge Number	21	Starting Line	Number	59	Section	4	
Suggested C	hange:								Editor	Costa	
"CCS Con	lowing acro nmon Chan	nym: nel Signaling	"								
Reason:											
This acrony	m is used ir	n support of I	EEE 802.16.1	lc-01/01, a	a propo	sed specific	ation for	ATM Co	nvergenc	e Sublayer.	

Comment # 11-24 Comment submitted by: Robert	Johnson	Neither
Type Technical, Binding Starting Page Number 21	Starting Line Number 62 Section	4
Suggested Change:	Editor	Costa
Add the following acronyms: "CPS Common Part Sublayer" "CPT CS Pass Through"		
Reason:		
These acronyms are used in support of IEEE 802.16.1c-01/02, a variable-length, packet-based high-layer protocols.	a proposed specification for Convergenc	e Sublayer supporting
Comment # 11-25 Comment submitted by: Stanley	Wang	Neither
Type Technical, Binding Starting Page Number 21	Starting Line Number 62 Section	4
Suggested Change:	Editor	Costa
Add the following acronym: "CLP Cell Loss Priority"		
Reason:		
This acronym is used in support of IEEE 802.16.1c-01/01, a prop	posed specification for ATM Convergenc	e Sublayer.
Comment # 11-26 Comment submitted by: Stanley	Wang	Neither
Type Editorial Starting Page Number 22	Starting Line Number 3 Section	4
Suggested Change:	Editor	Costa
Move "DL Down Link" to page 22, line 5 after "DIUC Downlink	Interval Usage Code"	
Move "DL Down Link" to page 22, line 5 after "DIUC Downlink Reason:	Interval Usage Code"	

Comment #	11-27	Comment s	ubmitted by:	Roger		Marks				Member
Type	Editorial		Starting Pag	je Number	22	Starting Line N	lumber	21	Section	4
Suggested C	hange:								Editor	Costa
Delete "H-F	DD Half-du	ıplex FDD"								
Reason:										
Term appea	ırs nowhere	e else in curre	nt draft.							
Comment #	11-28	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Technical,	Binding	Starting Pag	je Number	22	Starting Line N	lumber	21	Section	4
Suggested C	hange:								Editor	Costa
Add the fol	_	•								
"HEC Hea	der Error C	heck"								
Reason:										
This acrony	m is used ii	n support of II	EEE 802.16.1	c-01/01, a	propo	osed specification	on for A	AIM C	onvergence	e Sublayer.
	44.00	0	and the second second	Chamley		Money				Neither
	11-29		ubmitted by:		00	Wang		00		
Type	Technical,	Binding	Starting Pag	je Number	22	Starting Line N	lumber	28	Section	4
Suggested C	hange:								Editor	Costa
Add the following acronym: "IWF InterWorking Function"										
Reason:										
This acronym is used in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer.										

Comment #	11-30	Comment s	submitted by:	Robert		Johnson				Neither
Type	Technical,	Binding	Starting Pag	je Number	22	Starting Line N	lumber	42	Section	4
uggested C	hange:								Editor	Costa
	lowing acro	nym: Information"								
Reason:										
-		n support of ler protocols.	IEEE 802.16.1	Ic-01/02,	a propo	osed specificati	ion for (Conve	rgence Sul	player supporting variab
Comment #	11-31	Comment s	submitted by:	Stanley		Wang				Neither
Type	Technical,		Starting Pag		22	Starting Line N	lumber	42	Section	4
Suggested C		Dirianing	Otal tillig T ag	je italiibei				12	Editor	Costa
Add the fol	lowing acro	-	(or Network N	lode Interf	ace)"					
	maia uaadi	n allenant of l	FFF 000 10 1	0.01/01		and appointment	on for A	TMC		o Culplayer
This acrony	m is used i	n support of i	EEE 002.16.1	C-01/01, a	a propo	sed specification	OH IOI P	T IVI C	onvergence	e Sublayer.
Comment #	11-32	Comment	submitted by:	Stanley		Wang				Neither
Type	Technical,	Binding	Starting Pag	je Number	22	Starting Line N	lumber	43	Section	4
Suggested C	hange:								Editor	Costa
	lowing acro	nym: Information"								
Reason:										
This acrony	m is used i	n support of I	EEE 802.16.1	c-01/01, a	a propo	sed specification	on for A	тм с	onvergence	e Sublaver.

Comment #	11-33	Comment s	submitted by:	Robert		Johnso	n				Neither	
Type	Technical,	Binding	Starting Pag	ge Number	22	Starting	Line N	umber	45	Section	4	
Suggested C	Change:									Editor	Costa	
"PHS Pay "PHSF Pay "PHSI Pay "PHSM Pay "PHSS Pay "PHSR Pay	ayload Head yload Heade ayload Head ayload Head ayload Head	nyms: r Suppressio er Suppressio er Suppressio ler Suppressio er Suppressio er Suppressio er Suppressio	on Field" on Index" ion Mask" ion Size" on Rule"									
Reason:												
	•		t of IEEE 802 ayer protoco		/02, a p	roposed	speci	fication	for C	onvergence	e Sublayer supporting	
Comment #	11-34	Comment s	submitted by:	Stanley		Wang					Neither	
Type	Technical,	Binding	Starting Pag	ge Number	22	Starting	Line N	umber	45	Section	4	
Suggested C	Change:									Editor	Costa	
	llowing acroi load Heade	nym: r Suppressio	n"									
Reason:												
This acrony	m is used ir	support of I	EEE 802.16.1	lc-01/01, a	propos	sed spec	ificatio	n for A	тм с	onvergenc	e Sublayer.	
Comment #	11-35	Comment s	submitted by:	Robert		Johnso	n				Neither	
Type	Technical,	Binding	Starting Pag	ge Number	22	Starting	Line N	umber	50	Section	4	
Suggested C	Change:									Editor	Costa	
	llowing acroint-to-Point Pr	•										
Reason:												
•	m is used ir ed high-laye		EEE 802.16.	1c-01/02, a	a propos	sed spec	cification	on for (Conve	rgence Sul	olayer supporting variable	e-leng

Comment #	11-36	Comment	submitted by:	Stanley		Wang					Neither
Type	Technical,	Binding	Starting Pag	ge Number	22	Starting	Line N	Number	51	Section	4
Suggested C	hange:									Editor	Costa
Add the fol "PTI Paylo "PVC Perr	ad Type Ind	-	on"								
Reason:											
These acroi	nyms are u	sed in suppo	rt of IEEE 802	2.16.1c-01/	01, a p	roposed	speci	fication	for A	TM Conver	gence Sublayer.
Comment #	11-37	Comment	submitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag	ge Number	22	Starting	Line N	Number	54	Section	4
Suggested C	hange:									Editor	Costa
Add "SA S	Security Ass	sociation"									
Reason:											
Per page 20), line 54, th	ne definition o	of SA.								
Comment #	11-38	Comment	submitted by:	Robert		Johnso	on				Neither
Type	Technical,	Binding	Starting Pag	ge Number	22	Starting	Line N	Number	58	Section	4
Suggested C	hange:									Editor	Costa
Add the fol	•	nym:									
Reason:											

This acronym is used in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length,

packet-based high-layer protocols.

Comment #	11-39	Comment s	ubmitted by:	Stanley		Wang				Neither	
Type	Technical,	Binding	Starting Pag	ge Number	22	Starting Line	Number	61	Section	4	
Suggested C	Change:								Editor	Costa	
Add the fol	•	nym: al Connection'	1								
Reason:											
This acrony	m is used i	n support of II	EEE 802.16.1	c-01/01, a	propo	sed specifica	ition for A	ATM Co	nvergence	e Sublayer.	
Comment #	11-40	Comment s	ubmitted by:	Vicente		Quilez				Observer	
Type	Editorial		Starting Pag	ge Number	23	Starting Line	Number	5	Section	4	
Suggested C	Change:								Editor	Costa	
To correct t	the abbrevia	ation "TRGTT	G" with the ab	breviation	"TTG"	, and to inclu	de the at	obreviat	ion "RTG"	standing for "Rx/Tx Tra	nsmission
Reason:											
abbreviatior	า "TTG" .	orrespond to a erpart to "TTG	-			her to the pro	oposed d	lefinition	n. The prop	oosed definition corresp	onds to the
Comment #	11-41	Comment s	ubmitted by:	Stanley		Wang				Neither	
Type	Editorial		Starting Pag	ge Number	23	Starting Line	Number	6	Section	4	
Suggested C	hange:								Editor	Costa	
Move "UIU	C Uplink I	nterval Usage	Code" to pag	ge 23, line	11 afte	er "UGS-AD	Unsolici	ted Gra	nt Service	with Activity Detection'	
Reason:											
Out of order	r										

Comment #	11-42	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	23	Starting Li	ne Number	7	Section	4
Suggested C	hange:								Editor	Costa
Delete "DIU	JC Downlink	Interval Us	age Code"							
Reason:										
Already def	ined on page	22, line 5.								
Comment #	11-43	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Technical		Starting Pag	ge Number	23	Starting Li	ne Number	13	Section	4
Suggested C	hange:								Editor	Costa
"VP Virtua	al Channel Ide I Path" al Path Identifi									
These acro	nyms are use	d in support	of IEEE 802	2.16.1c-01/	01, a pr	roposed s	pecificatio	n for A	TM Conver	gence Sublayer.
Comment #	11-44	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Technical, B	inding	Starting Pag	ge Number	24	Starting Li	ne Number	1	Section	5.1
Suggested C	hange:								Editor	Stanwood
accordingly		EEE 802.16.	.1/D1-2000 w	rith section	6 of IE	EE 802.16	6.1c-01/01	. Renu	imber the s	ection and subsection n
Reason:										
These chan	iges are inclu	ded in supp	ort of IEEE 8	02.16.1c-0)1/01, a	proposed	specifica	tion for	r ATM Conv	vergence Sublayer.

2001/01/1	•									ILLL 002.10.1-	01/
Comment #	11-45	Comment s	submitted by:	Robert		Johnso	n			Neither	
Type	Technical,	Binding	Starting Pag	ge Number	24	Starting	Line Number	23	Section	5.2	
Suggested C	Change:								Editor	Sater	
"Reference		page 7) and					•		•	starting with the section hich end on page 21 b	
Reason:											
	•	luded in supp -based high-l			01/02, a	a propos	ed specifica	tion for	Converge	nce Sublayer supportin	g
Comment #	11-46	Comment s	submitted by:	Carl		Eklund				Member	
Type	Technical		Starting Pag	ge Number	25	Starting	Line Number	31	Section	6	
Suggested C	change:								Editor	Stanwood	
Replace "m	ninimizes co	ntention" with	n "allocates c	apacity"							
Reason:											
The protoco	ol does not	minimize cont	tention.								
Comment #	11-47	Comment s	submitted by:	Stanley		Wang				Neither	
Type	Editorial		Starting Pag	ge Number	25	Starting	Line Number	60	Section	6	
Suggested C	hange:								Editor	Stanwood	
Change "A	SS" to "An	SS" and simi	lar incidence	s througho	out the	documen	t (e.g., page	38, line	e 42).		
Reason:								·	,		

Grammatical error.

Comment # 11-48 Comment submitted by: Vicente Quilez Observer

Type Editorial Starting Page Number 27 Starting Line Number 39 Section 6.1.1

Suggested Change: Editor

To insert the word "MAC" in the sentence just before "Service Access Point", thus getting the new sentence: "The IEEE 802.16 Medium Access Control layer supports the following primitives at the MAC Service Access Point".

Reason:

As there are several SAPs it is necessary to undoubtly determine which is the one supporting the listed primitives.

 Comment #
 11-49
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Editorial
 Starting Page Number
 27
 Starting Line Number
 43
 Section
 6.1.1

 Suggested Change:
 Editor
 Stanwood

Change "MAC-CREATE-CONNECTION" to "MAC_CREATE_CONNECTION" and similar incidences throughout the document (e.g., page 27, line 44).

Reason:

Naming of SAP service primitives should be consistent. PHY SAP uses "_" and MAC SAP uses "-". In addition, due to automatic hyphenation by most word processing software, using "-" can cause confusion.

Comment # 11-50 Comment submitted by: Stanley Wang

Type Editorial Starting Page Number 27 Starting Line Number 49 Section 6.1.1

Suggested Change: Editor

Change "MAC-CHANGE-CONNECTION" to "MAC_CHANGE_CONNECTION" and similar incidences throughout the document (e.g., page 27, line 50).

Reason:

Naming of SAP service primitives should be consistent. PHY SAP uses "_" and MAC SAP uses "-". In addition, due to automatic hyphenation by most word processing software, using "-" can cause confusion.

Comment # 11-51 Comment submitted by: Stanley Wang

Type Editorial Starting Page Number 27 Starting Line Number 55 Section 6.1.1

Suggested Change: Editor

Change "MAC-TERMINATE-CONNECTION" to "MAC_TERMINATE_CONNECTION" and similar incidences throughout the document (e.g., page 27, line 56).

Reason:

Naming of SAP service primitives should be consistent. PHY SAP uses "_" and MAC SAP uses "-". In addition, due to automatic hyphenation by most word processing software, using "-" can cause confusion.

 Comment #
 11-52
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Editorial
 Starting Page Number
 27
 Starting Line Number
 61
 Section
 6.1.1

 Suggested Change:
 Editor
 Stanwood

Change "MAC-DATA" to "MAC DATA" and similar incidences throughout the document (e.g., page 27, line 62).

Reason:

Naming of SAP service primitives should be consistent. PHY SAP uses "_" and MAC SAP uses "-". In addition, due to automatic hyphenation by most word processing software, using "-" can cause confusion.

Neither Robert **Johnson** Comment submitted by: 11-53 Comment # Technical, Binding Starting Page Number 28 Starting Line Number 59 6.1.1.1.2 Section Type Stanwood Editor Suggested Change:

Replace "traffic parameters" with "service flow parameters"

Reason:

This change is included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

These changes are included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Comment # 11-55	Comment #	11-54	Comment s	ubmitted by:	Robert		Johnson				Neither
Add the following lines: "packing indicator," "length indicator," Type Technical, Binding Starting Page Number 28 Starting Line Number 60 Section for ATM Convergence Sublayer. Comment # 11-56 Comment submitted by: Stanley Wang Neither Stanwood Add the following lines: "payload header suppression indicator," "length indicator," "SDU length," Reason: Type Technical Stanley Starting Page Number 28 Starting Line Number 60 Section 6.1.1.2 Stanwood Add the following lines: "payload header suppression indicator," "length indicator," "SDU length," Reason: Type Technical Starting Page Number 28 Starting Line Number 65 Section 6.1.1.1.2 Stanwood AGO parameters (optional) Reason:	Type	Technical,	Binding	Starting Pa	ge Number	28	Starting Line	Number	60	Section	6.1.1.1.2
"packing indicator," "length indicator," "fixed SDU length," Reason: These changes are included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Comment # 11-55	Suggested C	hange:								Editor	Stanwood
These changes are included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Comment # 11-55	"packing in "length indi	dicator," cator,"	: :								
Comment # 11-55	Reason:										
Type Technical, Binding Starting Page Number 28 Starting Line Number 60 Section 6.1.1.2 Suggested Change: Editor Stanwood Add the following lines: "payload header suppression indicator," "length indicator," "SDU length," Reason: These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment # 11-56 Comment submitted by: Coleman Hum Member Type Technical Starting Page Number 28 Starting Line Number 65 Section 6.1.1.1.2 Suggested Change: Editor Stanwood ARQ parameters (optional) Reason:		•				01/02, a	a proposed s	pecificat	ion for	Converge	nce Sublayer supportinç
Type Technical, Binding Starting Page Number 28 Starting Line Number 60 Section 6.1.1.2 Suggested Change: Editor Stanwood Add the following lines: "payload header suppression indicator," "length indicator," "SDU length," Reason: These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment # 11-56 Comment submitted by: Coleman Hum Member Type Technical Starting Page Number 28 Starting Line Number 65 Section 6.1.1.1.2 Suggested Change: Editor Stanwood ARQ parameters (optional) Reason:											
Add the following lines: "payload header suppression indicator," "length indicator," "SDU length," "Reason: These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment # 11-56	Comment #	11-55	Comment s	ubmitted by:	Stanley		Wang				Neither
Add the following lines: "payload header suppression indicator," "length indicator," "SDU length," Reason: These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment # 11-56	Type	Technical,	Binding	Starting Pa	ge Number	28	Starting Line	Number	60	Section	6.1.1.2
"payload header suppression indicator," "length indicator," "SDU length," Reason: These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment # 11-56	Suggested C	hange:								Editor	Stanwood
These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment # 11-56	"payload he "length indi	eader supp cator,"		ator,"							
Comment # 11-56	Reason:										
Type Technical Starting Page Number 28 Starting Line Number 65 Section 6.1.1.1.2 Suggested Change: ARQ parameters (optional) Reason:	These chan	ges are inc	luded in supp	ort of IEEE 8	302.16.1c-0	01/01, a	a proposed s	pecificati	on for	ATM Conv	ergence Sublayer.
Type Technical Starting Page Number 28 Starting Line Number 65 Section 6.1.1.1.2 Suggested Change: ARQ parameters (optional) Reason:											
Suggested Change: ARQ parameters (optional) Reason:	Comment #	11-56	Comment s	ubmitted by:	Coleman		Hum				Member
ARQ parameters (optional) Reason:	Type	Technical		Starting Pa	ge Number	28	Starting Line	Number	65	Section	6.1.1.1.2
Reason:	Suggested C	hange:								Editor	Stanwood
	ARQ param	neters (optio	onal)								
ARQ is optional.	Reason:										
	ARQ is option	onal.									

Comment #	11-57	Comment s	ubmitted by:	Robert		Johnson			Neither	
Type	Technical,	Binding	Starting Pag	ge Number	29	Starting Line Number	16	Section	6.1.1.1.2	
Suggested	Change:							Editor	Stanwood	

Add the following paragraphs:

"The packing indicator specifies whether packing is on/off for a given Service Flow."

"The length indicator specifies whether the SDUs on the Service Flow are fixed length or variable length."

"The fixed SDU length specifies the length of the SDU for a fixed-length SDU Service Flow."

Reason:

These changes are included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

Comment #	11-58	Comment s	ubmitted by:	Stanley		Wang			Neither
Type	Technical,	Binding	Starting Pa	ge Number	29	Starting Line Number	16	Section	6.1.1.2
Suggested C	change:							Editor	Stanwood

Add the following three paragraphs:

"The payload header suppression indicator specifies whether the SDUs on the Service Flow should have their headers suppressed."

"The length indicator specifies whether the SDUs on the Service Flow are fixed length or variable length."

"The SDU length specifies the length of the SDU for a fixed-length SDU Service Flow."

Reason:

These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer.

Comment #	11-59	Comment submitted by:	Carl	Ek	lund			Member
Type	Technical	Starting Pag	ge Number 29	9 Start	ing Line Number	20	Section	6.1.1.1.2
Suggested C	hange:						Editor	Stanwood

Change the sentence beginnin "CRC request.." to "CRC request, if ON, requests that the MSDUs delivered over this connection are transported in MPDUs with a CRC added."

Reason:

Current text is in contradiction to what has been agreed

Comment #	11-60	Comment submitted by	: Vicente		Quilez			Observer
Type	Editorial	Starting	Page Number	29	Starting Line Number	20	Section	6.1.1.1.2
Suggested	Change:						Editor	Stanwood

To clarify if the CRC is added to MSDUs or to MPDUs.

Reason:

There is an inconsistency regarding the addition of CRC along the text. On page 29, line 20, it is mentioned that the CRC is added to MSDUs, whereas on page 36, line 23, it is mentioned that the addition is done to each MAC PDU. It is necessary to clarify this inconsistency.

Add explenation for the ARQ-parameters field in the MAC-CREATE-CONNECTION.request message. The explenation appears for the same field in the MAC-CREATE-CONNECTION.response, and states (page 30, lines 63-65), 'The ARQ parameters are: whether ARQ is used or not for the connection, maximum re-transmission limit and acknowledgment window size.'.

Reason:

Missing (or misplaced) explenation for one of the MAC-CREATE-CONNECTION.request message fields.

 Comment #
 11-62
 Comment submitted by:
 Coleman
 Hum
 Member

 Type
 Technical
 Starting Page Number
 29
 Starting Line Number
 25
 Section
 6.1.1.1.2

 Suggested Change:

The ARQ parameters are optional. When it is used the parameters include window size, max number of retransmissions, and acknowledgement timeout.

Reason:

Missing description of ARQ. Need a section describing ARQ in more detail.

Observer Comment submitted by: Vicente Quilez 11-63 Comment # Editorial Starting Page Number 29 Starting Line Number 25 6.1.1.1.2 Section Type Editor Stanwood Suggested Change: To include a description of the "ARQ parameters" carried by the primitive. The description to be include is the one appearing on page 30, lines 64-65. Reason: All other parameters are described. Neither Comment submitted by: Robert Johnson Comment # 11-64 Technical Starting Page Number 30 Starting Line Number 1 6.1.1.2.2 Type Section Stanwood Editor Suggested Change: Replace "traffic parameters" with "service flow parameters" Reason: This change is included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Member Comment submitted by: Coleman Hum Comment # 11-65 6.1.1.2.2 Technical Starting Page Number 30 Starting Line Number 8 Type Section Stanwood Editor Suggested Change: ARQ parameters (optional) Reason: ARQ is also not returned. Neither Comment submitted by: Stanley Wang 11-66 Comment # Editorial Starting Line Number 6.1.1.2.4 Starting Page Number 30 20 Type Section Stanwood Editor Suggested Change: Change ".RESPONSE primitive" to ".response primitive" Reason: Consistency issue (per its original definition on page 27, line 45)

Comment #	11-67	Comment s	submitted by: Stanley	Wang		Neither
Type	Editorial		Starting Page Number 30	Starting Line Number 34	Section	6.1.1.3.1
Suggested C	hange:				Editor	Stanwood
Change ".I	NDICATION'	' to ".indicatio	on"			
Reason:						
Consistenc	/ issue (per	its original d	efinition on page 27, line 44)			
						Texas .
Comment #	11-68	Comment s	submitted by: Stanley	Wang		Neither
Type	Editorial		Starting Page Number 31	Starting Line Number 20	Section	6.1.1.4.1
Suggested C	hange:				Editor	Stanwood
Change "fr	o" to "for"					
Reason:						
Туро						
Comment #	11-69	Comment s	submitted by: Stanley	Wang		Neither
Type	Editorial		Starting Page Number 31	Starting Line Number 37	Section	6.1.1.4.2
Suggested C	hange:				Editor	Stanwood
Change ".r	esponse" to	".response."				
Reason:						
Punctuation	error. Missi	ng "." at the	end of the sentence.			
Comment #	11-70	Comment s	submitted by: Coleman	Hum		Member
Type	Editorial		Starting Page Number 31	Starting Line Number 61	Section	6.1.1.5
Suggested C	hange:				Editor	Stanwood
Change AC	to MAC					
Reason:						
Dropped Le	etter					

Comment #	11-71	Comment s	submitted by: V	/icente		Quilez				Observer
Type	Editorial		Starting Page	Number 3	31 Sta	rting Line	Number	61	Section	6.1.1.5
Suggested C	hange:								Editor	Stanwood
To add a "N	M" to "AC-C	HANGE" re	sulting on "MA	C-CHANGE	E"					
Reason:										
A character	is missing.									
			_							
Comment #	11-72	Comment s	submitted by:	Stanley	\	Vang				Neither
Type	Editorial		Starting Page	Number 3	33 Sta	rting Line	Number	39	Section	6.1.1.8.3
Suggested C	change:								Editor	Stanwood
U	NDICATION	N" to ".indication	on"							
Reason:										
Consistency	y issue (per	its original d	efinition on pag	ge 27, line	44).					
			-							N
Comment #	11-73		submitted by:	Robert		ohnson				Neither
Type	Technical,	Binding	Starting Page	Number 3	34 Sta	rting Line	Number	38	Section	6.1.1.10.2
Suggested C									Editor	Stanwood
	llowing line:									
"CS pass t	nrougn,									
	e is include:	d in support (of IEEE 802 16	10-01/02	a propos	ed spec	ification f	or Con	vergence !	Sublayer supporting var
		er protocols.	JLLL 002.10		α ριοροί	ou opeo		J. 5011	. Torgonio (casiayor capporting var
Comment #	11-74	Comment s	submitted by:	Stanley	\	Vang				Neither
Type	Technical,	Binding	Starting Page	Number 3	34 Sta	rting Line	Number	38	Section	6.1.1.10.2
Suggested C	hange:								Editor	Stanwood
ouggesteu c										
Add the fol	llowing line:									
Add the fol	•									
Add the fol "CS pass t Reason:	hrough,"		of IEEE 802.16.							

Member Comment submitted by: Carl Eklund 11-75 Comment # Technical Starting Line Number 49 6.1.1.10.2 Starting Page Number 34 Section Type Editor Stanwood Suggested Change: Delete sentence "The length .." Reason: There is no need for limiting the size of the MSDU as fragmentation exists. Neither Comment submitted by: Robert Johnson Comment # 11-76 Technical, Binding 6.1.1.10.2 Starting Line Number 52 Starting Page Number 34 Section Type Stanwood Editor Suggested Change: Add the following paragraph: "The CS pass through specifies the 3-bit information passed by the CS. It is to be placed in the CPT field of the MAC-CPS PDU header." Reason: This change is included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols. Neither Comment submitted by: Stanley Wang 11-77 Comment # Technical, Binding Starting Line Number 52 6.1.1.10.2 Type Starting Page Number 34 Section Stanwood **Editor** Suggested Change: Add the following paragraph: "The CS pass through specifies the 3-bit information passed by the CS. It is to be placed in the CPT field of the MAC-CPS PDU header." Reason: This change is included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer. Comment submitted by: Stanley Neither Wang 11-78 Comment # Editorial Starting Page Number 35 Starting Line Number 1 6.2.1 Type Section Sater Editor Suggested Change: Change "sub-layer" to "sublayer" and similar incidences throughout the document (e.g., page 35, line 2). Reason: In the document, "sub-layer" is used in some places and "sublayer" is used in others. Make them consistent.

Comment #	11-79	Comment si	ubmitted by:	Robert		Johnson			Neither
Type	Technical,	Binding	Starting Pag	je Number	35	Starting Line Number	29	Section	6.1.1.11.2
Suggested	Change:							Editor	Stanwood

Add the following line:

"CS pass through,"

Reason:

This change is included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

Comment #	11-80	Comment su	ubmitted by:	Stanley		Wang				Neither
Type	Technical,	Binding	Starting Pag	ge Number	35	Starting Line Number	29	Section	6.	.1.1.11.2
Suggested C	Change:							Editor	S	tanwood

Add the following line:

"CS pass through,"

Reason:

This change is included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer.

Comment #	11-81	Comment s	ubmitted by:	Kenneth		Stanwood			Member
Type	Technical,	Binding	Starting Pag	e Number	35	Starting Line Number	59	Section	6.2 Data/Control
Suggested	Change:							Editor	Sater

See Section 2 of IEEE 802.16.1c-01/03r0:

1. Insert a new section on page 35, line 59 by moving the text from page 286, line 51 through page 287, line 24:

6.2.1 Connections

Modify this moved text:

Page 286, line 60 change "registration" to "initial access".

Page 286, line 61 change "registration" to "initial access".

Page 286, line 62 add the following at the end of the paragraph: "The secondary management connection uses the Ethernet Convergence Sublayer."

2. On page 90, line 10 add the following section:

6.2.1.4.2 Fragmentation on Basic Connections

Fragmentation is allowed on basic connections, but only certain MAC Control messages are allowed to be fragmented. The MAC control messages that may be fragmented are shown in Table x. All other MAC Control messages shall not be fragmented. From a fragmentation point of view, fragmentable MAC Control messages and unfragmentable MAC Control messages shall be treated as if they are on separate connections. An unfragmentable MAC Control message may be transmitted between the fragments of a fragmentable MAC Control message.

Table x: MAC Control Messages Allowed to be Fragmented

REG-REQ

REG-RSP

REG-ACK

PKM-REQ

PKM-RSP

DSA-REQ

DSA-RSP

DSA-ACK

DSC-REQ

DSC-RSP

DSC-ACK

DSD-REQ

DSD-RSP DCC-REQ DCC-RSP

4. On page 117, line 8 add: "Establishment of IP connectivity shall be performed on the SS's secondary management connection."

- 5. On page 117, line 47 add "Establishment of time of day shall be performed on the SS's secondary management connection.
- 6. On page 118, line 8 after "TFTP" add "on the SS's secondary management channel".
- 7. On page 316, line 16 add the following sections:

11.4.5.6 PKM Flow Control

This field specifies the maximum number of concurrent PKM transactions that may be outstanding.

Type Length Value Scope

5.16 1 0 indicates no limit1-255 indicate maximum concurrent transactionsdefault = 0 REG-REQREG-RSP

11.4.5.7 DSx Flow Control

This field specifies the maximum number of concurrent DSx transactions that may be outstanding.

Type Length Value Scope

5.17 1 0 indicates no limit1-255 indicate maximum concurrent transactionsdefault = 0 REG-REQREG-RSP

11.4.5.8 MCA Flow Control

This field specifies the maximum number of concurrent MCA transactions that may be outstanding.

Type Length Value Scope

5.18 1 0 indicates no limit1-255 indicate maximum concurrent transactionsdefault = 0 REG-REQREG-RSP

Reason:

See Section 2 of IEEE 802.16.1c-01/03r0:

1. The current air interface specification does not clarify what information is sent on basic connections and what information is sent on secondary management connections. The purpose of the secondary management connection is to allow management information that may be comprised of large, delay insensitive data to be reliably transmitted without blocking or impacting the QoS of real-time management and high QoS user data connections. To this end, the 802.16 specific MAC management messages defined in Table 2 on page 42 of the air interface specification should be transmitted only on basic connections (including the initial ranging and broadcast connections). Management that uses previously defined standards such as DHCP, TFTP, SNMP, and IP should be transmitted on the secondary

management connection. The secondary management connection should use the Ethernet convergence sublayer.

2. There are actions that are performed on the basic connections that can have multiple instances outstanding simultaneously. It would be useful to have flow control to allow the BS or the SSs to limit the number of simultaneously outstanding instances in which they are involved. Those management message types that fall into this category are:

- PKM
- · DSx
- · MCA

Each of these message types should be added to the SS capability negotiation that is performed via the REG-REQ and REG-RSP messages.

3. The basic connections actually have two different classes of messages from a QoS point of view. There are short messages that require quick response such as an unsolicited RNG-RSP. There are larger messages that are not quite as real-time in nature. These larger, less delay sensitive messages should not block or delay either the more real-time MAC management messages or USG traffic. But they should not be lumped in with the IP type traffic of the secondary management connection either. Which messages fall in which class is shown in the following table:

Message Message Class UCD Short, real-time DCD Short, real-time Short, real-time DL-MAP **UL-MAP** Short, real-time **RNG-REQ** Short, real-time **RNG-RSP** Short, real-time **REG-REQ** Longer, more delay tolerant **REG-RSP** Longer, more delay tolerant Longer, more delay tolerant **REG-ACK PKM-REQ** Longer, more delay tolerant Longer, more delay tolerant PKM-RSP **DSA-REQ** Longer, more delay tolerant DSA-RSP Longer, more delay tolerant DSA-ACK Longer, more delay tolerant **DSC-REQ** Longer, more delay tolerant Longer, more delay tolerant **DSC-RSP DSC-ACK** Longer, more delay tolerant DSD-REQ Longer, more delay tolerant **DSD-RSP** Longer, more delay tolerant DCC-REQ Longer, more delay tolerant

DCC-RSP Longer, more delay tolerant

MCA-REQ Short, real-time

MCA-RSP Short, real-time

DBTC-REQ Short, real-time

DBTC-RSP (not in document, but should be) Short, real-time

ARQ-ACK Short, real-time SBC-REQ Short, real-time SBC-RSP Short, real-time

The short, real-time messages should never be fragmented. The longer, more delay tolerant messages should be allowed to be fragmented, but with slightly different rules than those used on a data or secondary management connection. The reason for fragmenting these is simple. A 500+ byte PKM message should not delay the transmission of USG data, for instance. The fragmentation rules need to be slightly different, however, to address the fact that there really are 2 different QoS of information on the basic connections.

For user data and secondary management connections, there is only one SDU in a state of fragmentation at a time. A new SDU may not be transmitted until the previous one is fully transmitted. If the receiving side receives a FIRST fragment or an UNFRAGMENTED SDU before receiving the END fragment of a fragmented SDU, the assumption is that the END fragment was lost and the fragmented SDU is discarded.

For basic connections, there would also be only one MAC management message in a state of fragmentation at a time. But, one of the short real-time MAC management messages may be sent UNFRAGMENTED in the middle of the fragmented message, as if they were actually on different connections - one with fragmentation allowed, and one with fragmentation disabled. This works because the two classes of MAC management messages are for completely separate protocols. So, within a protocol exchange, all messages are delivered in order.

Comment #	11-82	Comment su	ubmitted by:	Stanley		Wang			Neither
Type	Technical,	Binding	Starting Pag	ge Number	36	Starting Line Number	2	Section	6.2.1
Suggested C	hange:							Editor	Sater

Change the following two sentences:

"The payload information is divided into a convergence sub-layer header and data portions. The definition and use of these message components is defined outside of the scope of the core MAC protocol."

to read as follows:

"The payload information is divided into CS header and CS payload. The definition and use of these fields are defined in 5."

Reason:

The definition and use of MAC PDU Payload are actually included in section 5 and are devided into subsections corresponding to different service-specific specifications.

Comment #	11-83 Comm	ent submitted by: Stanley	Wang		Neither						
Type	Editorial	Starting Page Number 36	Starting Line Number 3	Section (6.2.1						
Suggested C	change:		I	Editor	Sater						
Change the sentence to read " components are defined" instead of " components is defined"											
Reason:											
Grammatica	al error.										
Comment #	11-84 Comm	ent submitted by: Carl	Eklund		Member						
Type	Technical	Starting Page Number 36	Starting Line Number 9	Section	6.2.1						
Suggested C	change:		ı	Editor	Sater						
Add senter	ice:"In the figures the	e bits are numbered starting from tl	ne msb with the msb being nun	nber 0"							
Reason:											
This is a so	urce for endless con	fusion. As far as I understand it the	the EC bit is the first to be tran	smitted.							
Comment #	11-85 Comm	ent submitted by: Carl	Eklund		Member						
Type	Technical	Starting Page Number 36	Starting Line Number 23	Section	6.2.1						
Suggested C	change:		ı	Editor	Sater						

Change sentence "When a connection .." to read "When a connection is designated as quiring CRC every MPDU shall include a CRC-32 checksum as defined in <reference to ISO 8802-3>. Also add the reference to ISO-8803-3 in references section. "ISO/IEC 8802-3 8802-3 Standard for LAN CSMA/CD access methods and Physical layers"

Reason:

The present wording does not make it clear whether the CRC is included in the length field in the header. With the statement that the CRC is part of the MPDU this should be clear.

Neither Comment submitted by: Robert **Johnson** 11-86 Comment # Technical, Binding Starting Line Number 13 6.2.1 Starting Page Number 37 Section Type Editor Sater Suggested Change: Change the uplink MAC header format to include a new 3-bit field. Label the new field "CPT" and place it after the "PDE" field. Reduce the

Change the uplink MAC header format to include a new 3-bit field. Label the new field "CPT" and place it after the "PDE" field. Reduce the length of "Reserved" field from 6 bits to 3 bits.

Reason:

These changes are included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

 Comment #
 11-87
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Editorial
 Starting Page Number 37
 Starting Line Number 13
 Section 6.2.1

 Suggested Change:
 Editor
 Sater

Shad the "Reserved" field in the figure for MAC Header Format (Figure 5)

Reason:

Consistency issue (all other reserved fields are shaded).

Comment # 11-88 Comment submitted by: Stanley Wang

Type Technical, Binding Starting Page Number 37 Starting Line Number 13 Section 6.2.1

Suggested Change: Editor Sater

Change the uplink MAC header format to include a new 3-bit field. Label the new field "CPT" and place the new field after the existing "PDE" field. Reduce the length of "Reserved" field from 6 bits to 3 bits.

Reason:

These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer.

Comment # 11-89 Comment submitted by: Robert Johnson Neither

Type Technical, Binding Starting Page Number 37 Starting Line Number 56 Section 6.2.1

Suggested Change: Editor Sater

Change the downlink MAC header format to include a new 3-bit field. Label the new field "CPT" and place it after the "PDE" field. Reduce the length of "Reserved" field from 6 bits to 3 bits.

Reason:

These changes are included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

Comment # 11-90 Comment submitted by: Stanley Wang

Type Technical, Binding Starting Page Number 37 Starting Line Number 56 Section 6.2.1

Suggested Change: Editor

Change the downlink MAC header format to include a new 3-bit field. Label the new field "CPT" and place the new field after the existing "PDE" field. Reduce the length of "Reserved" field from 6 bits to 3 bits.

Reason:

These changes are included in support of IEEE 802.16.1c-01/01, a proposed specification for ATM Convergence Sublayer.

Change paragraph to read" The third header format is used for PDUs by which a SS request bandwidth. The Bandwidth Request PDUs must not have a payload and thus consist of a header alone. The format of the Bandwidth request header is given in Figure 7". The Bandwidth Request Header must adhere to the following:"

Delete sentences on lines 33&34. Replace sentence on line 43 with. "A SS receiving a PDU with a Bandwidth Request Header on the downlink must discerd the PDU.

Reason:

The bandwidth request is carried by a PDU having a header. The MAC does not communicate by means of headers. This comment is associated with comment for page 103

Comment #	11-92	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	39	Starting Line	Number	8	Section	6.2.1
Suggested C	hange:								Editor	Sater
To add the	Grant Mana	agement field	description in	nto the tab	ole.					
Reason:										
To complete	ely define al	I the MAC He	eader Files th	e Grant M	lanage	ment field des	scription	shou	ld be includ	ded
Comment #	11-93	Comment s	ubmitted by:	Kenneth		Stanwood				Member
Type	Technical		Starting Pag	ge Number	39	Starting Line	Number	13	Section	6.2.1 Message
Suggested C	hange:								Editor	Sater
On page 39	9, line 13 ad	d the followin	ng sentence to	o the Desc	cription	for BR field:				
		_	nt bit of the Balwidth needs.		equest	field is set to	1, the re	equest	is an aggr	egate request to rese
Reason:										
•	s agreemen aggregate w		"6.2.2.2.1 Re	equests", (GPT S	Ss periodically	/ make	aggreg	jate reques	sts, but the mechanis
Comment #	11-94	Comment s	ubmitted by:	Robert		Johnson				Neither

Add the following new row to the table:

Technical, Binding

"CPT 1 This field allows the Convergence Sublayer to pass service specific information to the MAC-CPS."

Starting Page Number 39

Reason:

Type

Suggested Change:

This change is included in support of IEEE 802.16.1c-01/02, a proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

Starting Line Number 19

6.2.1

Sater

Section

Editor

Comment #	11-95	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Technical,	Binding	Starting Pag	ge Number	39	Starting L	ne Number	19	Section	6.2.1
Suggested C	Change:								Editor	Sater
Add the fol	lowing new	row to the tab	ole:							
"CPT	1	This field allo	we the Conv	organica S	ublavor	to pace e	orvico enoc	oific info	ormation to	the MAC-CPS."
Reason:	1	THIS HEIG AND	JWS THE COITY	ergerice o	ublayei	ιο μασσ σ	or vice spec	JIIIC II II	Jimation to	the MAC-OF S.
These chan	nges are inc	luded in supp	ort of IEEE 8	302.16.1c-(01/01. a	a proposed	l specificat	tion for	ATM Conv	vergence Sublayer.
					, .					
Comment #	11-96	Comment s	ubmitted by:	Coleman		Hum				Member
Type	Technical		Starting Pag	ge Number	39	Starting L	ne Number	42	Section	6.2.1
Suggested C	change:								Editor	Sater
The unsolicited grant size in bytes per interval required by a connection UGS with Activity Detection										
Reason:										
Need to def	ine the unit	s for a grant.								
Comment #	11-97	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	40	Starting L	ne Number	18	Section	6.2.1
Suggested C									Editor	Sater
	ntire row for	r "CI" to page	39, line 15 af	ter the row	/ for "BF	₹"				
Reason:										
Out of order	r 									
0	11-98	Commont	ubmitted by:	Stanley		Wang				Neither
Comment #		Comment s		-	40		no Number	22	0 1	
Туре	Editorial		Starting Pag	ge Number	40	Starting L	ne Number	22	Section	6.2.1
Suggested C	-	r "DDE" to not	no 40 lino 40	ofter the	ou for !	ייםסחיי			Editor	Sater
Reason:	riture row to	r "PDE" to pag	je 40, line 10	anter the r	ow lor	PDK"				
Out of order	r									
Jul of order	ļ									

Comment #	11-99	Comment s	ubmitted by: Colen	nan	Hum				Member
Type	Technical		Starting Page Nu	mber 40	Starting Line	Number	28	Section	39
Suggested	Change:							Editor	Costa
Need ARC	Q proposal?								
Reason:									
Requires n ARQ bytes		the mechan	ism such as how r	etransmits	s are requested	l, timeou	ts, etc.	The MAC	headers need to show
Comment #	11-100	Comment s	ubmitted by: Vicen	ite	Quilez				Observer
Type	Editorial		Starting Page Nu	mber 40	Starting Line	Number	28	Section	6.2.1
Suggested	Change:							Editor	Sater
To insert a	a more descri	iptive text and	d provide some ex	planation (diagrams abou	t the AR	Q mecl	nanism for	eseen in the standard.
Reason:									
	•		only take into acco			transmi	tter side	e, but it is a	also necessary to desc
Comment #	11-101	Comment s	ubmitted by: Carl		Eklund				Member
Type	Technical		Starting Page Nu	mber 40	Starting Line	Number	30	Section	6.2.1
Suggested	Change:							Editor	Sater

Delete or move paragraph elsewhere

Reason:

Although ARQ is envisioned for TG3 purposes nothing specific has been agreed to. I personally don't know the origin of this text. A clean solution would be to create a placeholder ARQ section with a reference to it.

This section is about the only thing that mentions ARQ specifics in the document and as such is incomplete and adds some confusion.

Comment # 11-102 Comment submitted by: Vicente Quilez Observer

Type Technical, Binding Starting Page Number 40 Starting Line Number 30 Section 6.2.1

Suggested Change: Editor Sater

To clarify a possible inconsistency originated by prepending the ARQ control field bytes at the beginning of the packet.

Reason:

The ARQ control field bytes consists of 4 bit retry number and 12 bit sequence number. When these bytes are prepended at the beginning of the packet, the 4 bit retry number never could have the value 0xFF to prevent false detection on the stuff byte in Transmission Convergence Sublayer, and thus the retry number can not range up to 0xFF.

After the sentences 'The ARQ control field is two bytes long and is prepended at the beginning of the packet. The control bit structure contains a 4-bit retry number and a 12 -bit sequence number.' add the sentence 'Bits 0-3 of the ARQ control field will form the 4-bit retry number, while bits 4-15 will form the sequence number.'

Reason:

Clarify the structure of the ARQ control field (maybe a figure should be inserted instead of the sentence I proposed).

 Comment #
 11-104
 Comment submitted by:
 Carl
 Eklund
 Member

 Type
 Editorial
 Starting Page Number 40
 Starting Line Number 47
 Section 6.2.1.1.1

 Suggested Change:
 Editor
 Sater

Change the term "Convergence sublayer PDU" to "Transport PDU". Propagate the change through the document.

Reason:

The Convergence sublayer PDU is the unit of peer-to-peer communication of the CS (does not include the MAC header). Here we are defining a MPDU format.

Comment #	11-105	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	41	Starting Line I	Number	47	Section	6.2.1.1.2
Suggested C	hange:								Editor	Sater
Change "a	SA" to "an S	SA" and simil	ar incidences	throughou	ut the o	document (e.g.	, page	41, line	47 again)	
Reason:										
Grammatica	al error.									
Comment #	11-106	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	41	Starting Line I	Number	47	Section	6.2.1.1.2
Suggested C	hange:								Editor	Sater
Change "a	SA" to "a So	ecurity Assoc	iation (SA)".							
Reason:										
SA appears	for the first	time and sho	ould be spelle	ed out.						
Comment #	11-107	Comment s	ubmitted by:	Antonis		Karvelas				Neither
Type	Technical,	Binding	Starting Pag	ge Number	43	Starting Line I	Number	15	Section	6.2.1.2
Suggested C	hange:								Editor	Sater
Delete of d	efine somev	where in the s	tandard the	DCC-REQ	and D	CC-RSP MAC	Manag	ement	messages	S
Reason:										

There is nowhere definition of the DCC-REQ and DCC-RSP MAC Management messages.

Comment # 11-108 Comment submitted by: Kenneth Stanwood Member

Type Technical, Binding Starting Page Number 43 Starting Line Number 23 Section 6.2.1.2 MAC

Suggested Change: Editor Sater

On page 43, line 23 add:

24 DBTC-RSP Downlink Burst Type Change Response

On page 43, line 24, change "24" to "25"

On page 89, line 5 add a section for the Downlink Burst Type Change Response (DBTC-RSP) Message. It should have the same exact structure as the DBTC-REQ message except that the Message Type = 24. The text should read:

"The Downlink Burst Type Change Response (DBTC-RSP) Messge shall be transmitted by the BS on the SS's basic CID in response to a DBTC-REQ message from the SS. If the DIUC parameter is the same as requested in the DBTC-REQ message then request was accepted. Otherwise, if request is rejected, the DIUC parameter shall be the previous DIUC at which the SS was receiving downlink data."

Reason:

If the SS is, for instance, asking for a change to a more robust burst profile due to a rain fade, it needs to know that the BS received its DBTC-REQ and is transmitting data using the more robust profile. If the SS just assumes the change takes place, but the SS did not receive the DBTC-REQ message, SS will lose its downlink data.

- 1. On page 43, line 25, add two rows to Table 2 for the following 2 new MAC management messages:
- 26 SBC-REQ SS Basic Capability Request
- 27 SBC-RSP SS Basic Capability Response
- 2. On page 43, line 26 change the reserved message types to 28-255.
- 3. On page 59, line 21 add the following parenthetical remark at the end of the line:

"(excluding Physical Parameters Supported and Bandwidth Allocation Support)"

4. On page 88, line 23 add the following sections:

6.2.1.2.x SBC-REQ Message

The SS Basic Capability Request shall be transmitted by the SS during initialization. An SS shall generate SBC-REQ messages in the form shown in Figure x.

<<Insert figure here identical to Figure 22 on page 58 for REG-REQ except message type field = 26.>>

An SS shall generate SS Basic Capability Requests including the following parameter:

Basic CID (in the MAC Header)

The CID in the MAC Header is the Basic CID for this SS, as assigned in the RNG-RSP message.

All other parameters are coded as TLV tuples.

Basic Capability Requests contain those SS Capabilities Encodings that are necessary for effective communication with the SS during the remainder of the initialization protocols. The following parameters are included in the Basic Capabilities Request:

Physical Parameters Supported (see 11.4.5.3)

Bandwidth Allocation Support (see 11.4.5.4.1)

6.2.1.2.x SBC-RSP Message

The SS Basic Capability Response shall be transmitted by the BS in response to a received SBC-REQ.

To provide flexibility, the message parameters following the Response field shall be encoded in a TLV format.

<< Insert figure here identical to Figure 23 on page 60 for REG-RSP except message type field = 27.>>

A BS shall generate SS Basic Capability Responses in the form shown in Figure x, including both of the following parameters:

CID (in the MAC Header)

CID from corresponding SBC-REQ to which this response refers (this acts as a transaction identifier)

Response

A one-byte quantity with one of the following values:

0 = Okay

The following parameters shall be included in the registration response if found in the SS Basic Capability Request:

SS Capabilities (see 11.4.5)

The BS response to the subset of SS capabilities present in the SBC-REQ message. The BS responds to the SS capabilities to indicate whether they may be used. If the BS does not recognize an SS capability, it must return this as "off" in the SBC-RSP.

Only capabilities set to "on" in the SBC-REQ may be set "on" in the REG-RSP as this is the handshake indicating that they have been successfully negotiated.

- 5. On page 107, line 49 insert the following line between items c and d, renumbering the rest of the list:
- d) Negotiate basic capabilities
- 6. On page 108, line 29 add the negotiation of basic capabilities to Figure 58 between Ranging and Establishment of IP connectivity.
- 7. On page 117, line 1 add the following section before the current section 6.2.3.8 (renumbering the following sections):

6.2.3.8 Negotiate Basic Capabilities

Immediately after completion of ranging, the SS informs the BS of its basic capabilities by transmitting an SBC-REQ message with its capabilities set to "on". The BS responds with an SBC-RSP message with the intersection of the SS's and the BS's capabilities set to "on".

8. On page 313, line 28 through page 316, line 15 change the scope of the TLVs to be SBC-REQ and SBC-RSP.

Reason:

As discussed in section 1 of IEEE 802.16.1c-01/03r0:

On the control of the

the establishment of IP connectivity, establishment of time of day, and the transfer via TFTP of the configuration file. This is shown in Figure 58 on page 108 of the air interface specification. Unfortunately, until the REG-REQ message the BS is not aware of the SSs capabilities at the physical layer. This effectively requires that the BS communicate with the SS using the control channel FEC. This is a very inefficient use of bandwidth.

Additionally, the BS does not know whether the SS is GPC or GPT. Since some of the interaction to this point should happen on the SSs basic connection and some should happen on its secondary management connection, this unduly complicates the initialization process.

An SS Basic Capabilities Request (SBC-REQ) and Response (SBC-RSP) should be added in the initialization sequence between ranging and the establishment of IP connectivity. The SBC-REQ should be from the SS to the BS and should contain the following TLVs that are currently in the REG-REQ messages. The SBC-RSP would return those that the SS is allowed to use as is currently being done by the REG-RSP message. Only those relevant to the particular PHY or SS should be included.

- 5.12.1 Physical Layer Type (it is actually recommended that this TLV be eliminated since it serves no purpose)
- 5.12.2 10-66 GHz PHY SS Demodulator Types
- 5.12.3 10-66 GHz PHY SS Modulator Types
- 5.12.4 10-66 GHz PHY Mode A SS Downstream FEC Types
- 5.12.5 10-66 GHz PHY Mode B SS Downstream FEC Types
- 5.12.6 10-66 GHz PHY SS Upstream FEC Types
- 5.14 Duplexing Support (it is actually recommended that this TLV be eliminated since it serves no purpose)
- 5.15 Bandwidth Allocation Support

These TLVs would then be removed from the REG-REQ and REG-RSP messages.

Comment #	11-110	Comment submitted by:	Vicente		Observer			
Type	Editorial	Starting Pa	ge Number	43	Starting Line Number	Section	6.2.1.2.1	
Suggested C	Change:						Editor	Sater

To explain what is an active uplink.

Reason:

Along the text there is no explanation about the meaning, implications, and possible number of active uplinks in the system.

Comment #	11-111	Comment s	ubmitted by:	Vladimir		Yanover				Observer
Type	Editorial		Starting Pag	je Number	44	Starting Line	Number	46	Section	6.2.1.2.1
Suggested C	hange:								Editor	Sater
Remove all	the definition	n of the para	meters set of	UCD mes	ssage t	o the PHY s	ection			
Reason:										
This is a pa	rt of MAC-PH	IY separatio	n process. Mo	ost of the p	oarame	ters listed in	the men	tioned	topic are n	ot relevant e.g. to HIPE
Comment #	11-112	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	44	Starting Line	Number	57	Section	6.2.1.2.1
Suggested C	hange:								Editor	Sater
	ne meaning c	of "PHY type	s=(0,1)" previ	iously to m	nention	it.				
Reason:										
It is necessa	ary to introdu	ce the conce	ept and notati	on of PHY	types	previously to	be used	in the	text.	
										0.1
Comment #	11-113	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	45	Starting Line	Number	1	Section	6.2.1.2.1
Suggested C									Editor	Sater
	igure 12" jus	t between "l	JL-MAP Mess	sage." and	l "illustr	ates"				
Reason:	_									
Missing wor	rd									
				Minanta		O. illa =				Obcomion
	11-114	Comment s	ubmitted by:			Quilez		4.0		Observer
Type	Editorial		Starting Pag	ge Number	47	Starting Line	Number	16	Section	6.2.1.2.2
Suggested C									Editor	Sater
•	ly describe th	ne character	istics of TDM	Burst type	e 1					
Reason:										
In the Comr	nents columr	n, it is neces	sary to explic	itely descr	ibe wh	at is meant l	by well kr	own, i.	e. what are	e the characteristics of T

type 1

Comment #	11-115	Comment submitted by:	Vicente		Quilez			Observer
Type	Editorial	Starting Pag	ge Number 4	17 s	tarting Line Number	40	Section	6.2.1.2.2
Suggested	Change:						Editor	Sater

To describe the function of Gap Burst type in the system, as well as to confirm if Gap Burst descriptor should include all the parameters listed on page 48, lines 35-47

Reason:

It is not clear how is used the Gap Burst type, neither if its descriptor should contain the same parameters as the other burst types in the table.

Which is the reason for sending every 2 seconds (maximum) the PHY characteristics of each Burst (Burst Descriptor)? Why to spend bandwidth?

Reason:

I believe that the PHY characteristics of each Burst are chosen for every system deployment once and if changed, are changed very rarely.

Remove all the definition of the parameters set of Burst Descriptor to the PHY section

Reason:

This is a part of MAC-PHY separation process. Most of the parameters listed in the mentioned topic are not relevant e.g. to HIPERLAN PHY

Comment #	11-118	Comment s	ubmitted by:	Carl		Eklund				Member	
Type	Technical		Starting Pag	ge Number	48	Starting	Line Number	35	Section	6.2.1.2.2	
Suggested C	hange:								Editor	Sater	
Make irrele	vant TLVs o	ptional in the	burst descri	ptos							
Reason:											
			tell 10^6 tim omment docu					pport B	TCs. Sam	e comment applies for p	age 4
Comment #	11-119	Comment s	ubmitted by:	Coleman		Hum				Member	
Type	Editorial		Starting Pag	ge Number	49	Starting	Line Number	26	Section	Figure 15	
Suggested C	hange:								Editor	Marks	
Type 5)											
Reason:											
missing clos	sing bracket										
Comment #	11-120	Comment s	ubmitted by:	Vicente		Quilez				Observer	
Type	Editorial		Starting Pag	ge Number	49	Starting	Line Number	26	Section	6.2.1.2.3	
Suggested C	hange:								Editor	Sater	
To correct t	the figure cha	anging "PHY	Type 5" by "	Phy Type 2	2"						
Reason:											
To avoid in	consistency										
Comment #	11-121	Comment s	ubmitted by:	Carl		Eklund				Member	
Type	Technical		Starting Pag	ge Number	49	Starting	Line Number	53	Section	6.2.1.2.3	
Suggested C	hange:								Editor	Sater	
Insert text"	-Length: If th	•		_		_	•		•	d in the MAC header is rength but the SS must d	

The length is given in bytes, the DL-MAP is not byte aligned.

Reason:

Comment #	11-122	Comment su	ubmitted by:	Vladimir		Yanove	ər				Observer	
Type	Editorial		Starting Pag	ge Number	49	Starting	Line N	lumber	54	Section	6.2.1.2.3	
Suggested C	hange:									Editor	Sater	
Remove all	the definition	of the para	meters set of	f PHY synd	chroniza	ation field	d to th	e PHY	sectior	า		
Reason:												
This is a pa	rt of MAC-PH	Y separation	n process. Re	emoving (to	o PHY s	section)	of the	consta	nt fram	e length c	ondition is especially im	portant.
Comment #	11-123	Comment su	ubmitted by:	Carl		Eklund	ı				Member	
Type	Editorial		Starting Pag	ge Number	55	Starting	Line N	lumber	14	Section	6.2.1.2.5	
Suggested C	hange:									Editor	Sater	
	0 reserved to	table 4										
Reason:												
UIUC=0 is r	not defined											
Comment #	11-124	Comment su	ubmitted by:	Vicente		Quilez					Observer	
Type	Editorial		Starting Pag	ge Number	56	Starting	Line N	lumber	15	Section	6.2.1.2.5	
Suggested C	hange:									Editor	Sater	
To add a "l'	' to "Til"											
Reason:												
Missing lett	er											
Comment #	11-125	Comment su	ubmitted by:	Vicente		Quilez					Observer	
Type	Editorial		Starting Pag	ge Number	56	Starting	Line N	lumber	32	Section	6.2.1.2.5	
Suggested C	hange:									Editor	Sater	
To delete "	is" from "Initia	lization CID	if SS is has	not yet", a	and cor	rection c	of "bc	th dow	link and	d downlink	" by " both downlink a	and uplink"
Reason:												
To correct v	vording errors	in the text										

Comment #	11-126 Comment submitted by: Carl Eklund									Member
Type	Editorial		Starting Pag	ge Number	56	Starting Line	Number	38	Section	6.2.1.2.5
Suggested C	hange:								Editor	Sater
The text if s	ent should	l not be a par	t of the itemiz	ed list						
Reason:										
List is abou	t CIDs in the	e initial mainte	enance interv	als.						
Comment #	11-127	Comment s	ubmitted by:	Antonis		Karvelas				Neither
Type	Technical,	Binding	Starting Pag	ge Number	56	Starting Line	Number	45	Section	6.2.1.2.5
Suggested C	hange:								Editor	Sater
"The identifuplink." replace the			nel on which	the SS red	ceived	the DCD whi	ch descr	ibed th	his	
Reason:										
The Uplink	channel is c	lescribed by t	he UCD and	not the Do	CD MA	AC Manageme	ent mess	sages.		
Comment #	11-128	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	56	Starting Line	Number	46	Section	6.2.1.2.5
Suggested C	hange:								Editor	Sater
	the sentenc	e: the DCD	which descr	ibed this u	ıplink.					
by the sent	ence: the	DCD which c	lescribed this	downlink.						

There is an inconsistency since the DCD only describes burst profiles in the downlink direction (not in the uplink).

Comment #	11-129	Comment s	ubmitted by:	Vladimir		Yanover				Observer
Type	Editorial		Starting Pag	je Number	58	Starting Line Nu	mber	2	Section	6.2.1.2.7
uggested C	hange:								Editor	Sater
Replace "R	lequested D	L Modulation	Maximum Mo	odulation	Type §	Supported" with "	Requ	ested r	ange of Di	PHY parameters"
eason:										
		•	n process. In also on the F	_			е Мах	imum	Modulation	Type does not define t
Comment #	11-130	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	58	Starting Line Nu	mber	61	Section	6.2.1.2.7
Suggested C	hange:								Editor	Sater
			onfiguration s uration setting	•						
leason:										
Γo be coheι	rent with the	title of the re	ferenced star	ndard sect	ion (1	1.4.1).				
			,							
Comment #	11-131	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	58	Starting Line Nu	mber	62	Section	6.2.1.2.7
Suggested C	hange:								Editor	Sater
by ; Upstre		annel ID conf ID configura	iguration sett tion setting.	ing						
Reason:										
To be cohe	rent with the	title of the re	ferenced star	ndard sect	ion (1	1.4.2).				

See section 3 of IEEE 802.16.1c-01/03r0:

- 1. On page 58, delete line 64.
- 2. On page 59, delete line 1.
- 3. On page 59, line 27 add:
- Uplink Service Flow Configuration Settings
- Downlink Service Flow Configuration Settings
- 4. On page 60, delete lines 41-43.
- 5. On page 60 delete line 49 through page 61, line 13.
- 6. On page 62 delete lines 10-26.
- 7. On page 108, line 38 add a step to Figure 58 called "Establish provisioned connections" between privacy and operational.
- 8. On page 118, line 26 delete the phrase "provisioned set of service flows and any other".
- 9. On page 120, line 16, remove the phrase "Setup Service Flows &" from the rightmost box.
- 10. On page 120, line 51 delete step d).
- 11. On page 120, line 60 delete the phrase "If the Registration Request contains Service Flow encodings,"
- 12. On page 121, line 29-37 delete the 2 decision diamonds and their associated "No" actions.
- 13. On page 121, line 45-46 delete the "Create Requested Services" box.
- 14. On page 122, line 16-17 delete the "Destroy Services" box.
- 15. On page 122, line 33 add the section:
- 6.2.3.9.3 Service Flow Setup

After privacy is initialized, or after registration if privacy is disabled, the SS shall send DSA-REQ messages to the BS for to set up connections for the service flows listed in the configuration file. The BS shall respond with the DSA-RSP message.

- 16. On page 130, line 62 delete "Registration Response,"
- 17. On page 131, line 14 delete "REG-RSP"
- 18. On page 131, line 25 delete "REG-REQ"
- 19. On page 133, line 42 change "a Registration Request" to "multiple DSA-REQ messages".
- 20. On page 133, line 43 change "Registration Response" to "DSA-RSP" and change "Registration Acknowledge" to "DSA-ACK".
- 21. On page 134, line 1, replace the figure with a flowchart that better describes sending multiple DSA messages after registration.
- 22. On page 134, delete line 57 through page 135, line 59.

Reason:

See section 3 of IEEE 802.16.1c-01/03r0:

There are 3 scenarios where connections are established.

Provisioned connections at SS initialization

Dynamic connections

Provisioned connections added to an SS at some point after initialization

The last two scenarios require the use of the DSA-REQ/RSP/ACK protocol to set up connections in response to network management, signaling, or some other external stimulus.

The first scenario is currently specified to work in the following manner:

- The SS TFTPs a configuration file containing the parameters for its currently provisioned service flows.
- The SS sends the service flow information to the BS in the REG-REQ message.
- The BS responds with connection IDs in the REG-RSP message.

Not only is the use of the REG-REQ/RSP in this scenario inconsistent with the presence of the DSA protocol, there are issues regarding the timing of the setup and use of the connections. Figure 58 on page 108 shows that authentication and key exchange happen after registration. But the current protocol allows SSs to setup and start using connections before they are fully authenticated. To avoid this race condition and to eliminate redundant methods for achieving the same goal, the following sequence of events should be used to set up the

connections for the service flows that are listed in the 55's configuration file.

The SS TFTPs a configuration file containing the parameters for its currently provisioned service flows.

- The SS registers, but does not provide service flow parameters in the REG-REQ
- The SS is authenticated

To correct the title

The SS uses a series of DSA-REQ/RSP protocols to set up the connections for the service flows that were in the configuration file.

Comment #	11-133	Comment submi	itted by:	Antonis		Karvelas				Neither
Type	Technical,	Binding St	arting Page	e Number	59	Starting Line	Number	8	Section	6.2.1.2.7
Suggested (change:								Editor	Sater
Delete the	Downlink M	lodulation Configu	uration Se	etting and	also t	he 11.4.4 sect	ion.			
Reason:										
This setting	doesn't exi	st in the Configura	ation File I	based on	the 9.	2.2 section.				
Comment #	11-134	Comment submi	itted by:	Vicente		Quilez				Observer
Type	Editorial	St	arting Page	e Number	84	Starting Line	Number	58	Section	6.2.1.2.18
Suggested (change:								Editor	Sater
To change	"Request" b	oy "Response" in t	the title							

Comment #	11-135	Comment submitted by:	Kenneth	Kenneth Stanwood			
Type	Editorial	Starting Pa	ge Number 87	Starting Line Number	34 Sect	ion	6.2.1.2.19 Multicast
Suggested	Change:				Edit	or	Marks

On page 87, line 34 add the lsit of parameters, referencing the correct section:

Multicast CID (see section 11.1.4.1) Assignment (see section 11.1.4.1)

On page 88, line 10: reference TLV section for this message which must be added on page 295, line 21.

On page 295, line 1 the section level is wrong for section 11.1.4.1. It should really be 11.1.5. This change should be reflected in the change on page 87.

Reason:

Consistency with rest of document and clarity when building the message.

Leiba

Member

00	JIIC "				-							
Т	ype	Technical,	Binding	Starting	Page Numb	er 88	Starting	Line	Number	21	Section	6.2.1.2.21
Sugge	sted C	hange:									Editor	Sater
In res	sponse	to the AR	Q-ACK mes	sage whose	e format is	specified	as TBD,	the fo	ollowing	forma	t is propose	d
Bit	0		Bit	F 8		Ri	t 15					
							.0 13					
"+	+	++-	-++"-	-++-	-++	+"						
11						11						
11						11						
+ -	_					- +						
11		Generic:	MAC Heade:	r (Downli	nk)	11						
п				· -	,	H.						
+ -	-			-++-	-++	++						
11			II .	MAC Mana	gement	II						
11			II .	Message	Type = 24	4 "						
++	+	+++-	-++"-	_								
'' <i>P</i>	ACK se	equence	H.	ACK sequ	ience	II.						
		_	11	_		H.						
++	+	++-	-++-	-++-	-++	++						
			•			•						
			•			•						
++	+	+++-	-++"-	-++-	-++	++						

Comment submitted by: Yigal

See also document number IEEE 802.16.1c-00/02 (figure 2) for a VISIO drawing of the text drawing above (with the slight difference that the concatenation of the generic downlink MAC header and the byte specifying the management message type are called 'MAC management header').

Reason:

Response for TBD

number #(n-1)

ACK sequence " ACK sequence

" number #n

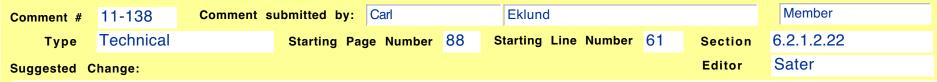
+--+--+--+--+--+--+

Comment # 11-136

Comment #	11-137	Comment s	ubmitted by:	Carl			Member		
Type	Technical		Starting Pag	ge Number	88	Starting Line Number	37	Section	6.2.1.2.22
Suggested C	hange:							Editor	Sater
Change the	e text starting	r from "In this	case "to"	uses con	tention	slots" to read "In this	case th	ne messac	ne should be sent in a m

uplink interval. As the BS may not have have allocated such an interval the SS may send it in a Reguest Interval or Data Grant Type interval assigned to any multicast group the member of which the SS is with the designated UIUC of that interval."","It is unclear which kind of contention slots it can be sent in. As specified now it can possibly cause serious havoc. We must respect the UIUC. Currently the way we have defined this and the uplink IE we are in a dead end. Obviously this also requires the redefinition of the request IE.

Reason:



Replace the list of data grant burst types (i.e. until line 4 of next page) with

-DIUCs as defined in <reference to table 3>. Only DIUC values from 0-5 are allowed.

Reason:

The figure states DIUC which is not clear from the parameters.

Neither Comment submitted by: Stanley Wang 11-139 Comment # Editorial Starting Line Number 40 6.2.1.4 Type Starting Page Number 89 Section Sater Editor Suggested Change:

Change the sentence to read "... Service Flow to 00 and 0000, respectively." instead of "... Service Flow to 0 and 0000, respectively."

Reason:

Per its definition (see page 89 line59), FC is a two-bit value.

						0.11			Observation
Comment #	11-140	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	ge Number	90	Starting Line Number	4	Section	6.2.1.4
Suggested C	hange:							Editor	Sater
To insert fir	st, thus read	ing "new first	t fragment".						
Reason:									
As it appear	rs in the text,	the descript	tion of the bel	naviour of t	he sys	stem after fragment los	ss is a	mbiguous.	
Comment #	11-141	Comment s	submitted by:	Carl		Eklund			Member
Type	Technical		Starting Pag	ge Number	90	Starting Line Number	6	Section	6.2.1.4.1
Suggested C	hange:							Editor	Sater
	• •	•	•	•	_				U which is a fragment o
Reason:									_
We do not in	ntend to frag	ment MAC F	PDUs						
Comment #	11-142	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	ge Number	90	Starting Line Number	38	Section	6.2.2.1
Suggested C	hange:							Editor	Stanwood
To change:	of each Q		er is provided vided in 11.4.						
Reason:									

To ease to the reader the search of the referenced parameters, since section 11 is a very large section.

Comment #	11-143	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	90	Starting Line	Number	44	Section	6.2.2.1.
Suggested C	hange:								Editor	Stanwood
definition o	n that along	the standard				th Stealing m			owed per e	ach kind of service, but
Reason:										
To increase	the underst	anding of the	standard.							
Comment #	11-144	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	91	Starting Line	Number	29	Section	6.2.2.1.1.
Suggested C	hange:								Editor	Stanwood
by : The Gr or by: The	ant Manage	ment fields in	the Generic	MAC head	der (se	ader (see Fig e Figure 5) a ee Figure 5) i	re used .			
Reason:										
To maintain	the subject	concordant v	ith the verb	of the sent	ence.					
				\n		0.11				Observan
Comment #	11-145	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	e Number	91	Starting Line	Number	30	Section	6.2.2.1.1.
Suggested C	hange:								Editor	Stanwood
Talabanaa	the Dond	uidth Manag	montfield							

To change: .. the Bandwidth Management field .. by: the Grant Management field ..

Reason:

To be coherent with the description of the Generic MAC header (figure 5).

Comment #	11-146	Comment s	ubmitted by: Stanley		Wang			Neither
Type	Editorial		Starting Page Number	91	Starting Line Number	35	Section	6.2.2.1.1
Suggested C	hange:						Editor	Stanwood
Change "m	ismatch's" to	"mismatche	s"					
Reason:								
Туро								
Comment #	11-147	Comment si	ubmitted by: Vicente		Quilez			Observer
Type	Editorial		Starting Page Number	91	Starting Line Number	36	Section	6.2.2.1.1
Suggested C	hange:						Editor	Stanwood
To change by: non-UG								
Reason:								
The Unsolid	ited Grant S	ervice is refe	rred as UGS.					
Comment #	11-148	Comment si	ubmitted by: Vicente		Quilez			Observer
Type	Editorial		Starting Page Number	91	Starting Line Number	40	Section	6.2.2.1.1.
Suggested C	hange:						Editor	Stanwood
		width Manage gement field .						
Reason:								
To be cohe	rent with the	description of	of the Generic MAC hea	der (fig	gure 5).			

Observer Comment submitted by: Vicente Quilez 11-149 Comment # 6.2.2.1.3. Editorial Starting Page Number 92 Starting Line Number 34 Section Type Stanwood Editor Suggested Change: To change: .. the Bandwidth Management field .. by: the Grant Management field .. Reason: To be coherent with the description of the Generic MAC header (figure 5). Neither Comment submitted by: Stanley Wang 11-150 Comment # 6.2.2.1.3 Editorial Starting Line Number 35 Starting Page Number 92 Section Type Stanwood Editor Suggested Change: Change "UGS/AD" to "UGS-AD" Reason: Per its definition on page 23, line 11. Observer Comment submitted by: Vicente 11-151 Quilez Comment # Editorial 6.2.2.1.3 Starting Page Number 92 Starting Line Number 36 Type Section Stanwood Editor Suggested Change: To change: .. the Bandwidth Management field ... by: the Grant Management field .. Reason: To be coherent with the description of the Generic MAC header (figure 5).

Comment #	11-152	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag	ge Number	92	Starting	Line	Number	38	Section	6.2.2.1.3
Suggested C	Change:									Editor	Stanwood
Change "U	GS/AD" to "U	JGS-AD"									
Reason:											
Per its defin	nition on page	e 23, line 11.									
Comment #	11-153	Comment s	ubmitted by:	Vicente		Quilez					Observer
Type	Editorial		Starting Pag	ge Number	94	Starting	Line	Number	1	Section	6.2.2.2.1
Suggested C	Change:									Editor	Stanwood
Reason:	proper refere	inces to the i	nessages us	sea to disti	iriguisii	between	i botti	KING OI	reque	sis (increm	ental or aggregate).
	al a wata a al:	نا والموالة والم		t	a . C			well se	مالة منية ما	ole elifferencia	t manala ami aman susa uta
To ease the	understandi	ng or both ki	nd of reques	t mechanii	ms at c	ar i moo	ie, as	well as	now u	iis dilieren	t mechanisms work
Comment #	11-154	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag		94	Starting	Line	Number	3	Section	6.2.2.2.1
Suggested C				,		3				Editor	Stanwood
	he end of the	line.									
Reason:											
Punctuation	n error.										
Comment #	11-155	Comment s	ubmitted by:	Vicente		Quilez					Observer
Type	Editorial		Starting Pag	ge Number	96	Starting	Line	Number	5	Section	6.2.2.2.1.2.
Suggested C	Change:									Editor	Stanwood
There are	several arrow	s missing in	the flowchar	t describe	d in fig	ure 48.					
Reason:											
11003011.											

Observer Comment submitted by: Vicente Quilez 11-156 Comment # Editorial Starting Line Number 12 6.2.2.2.1.2. Starting Page Number 96 Section Type Stanwood Editor Suggested Change: To change the text: Request Bandwidth for CIDx by: Request Bandwidth for Basic CID or to add some steps explaining how from a request bandwidth for CIDx, the SS requests bandwidth to the BS by means of the Basic CID. Reason: The BS only knows the Basic CID associated to the SS, in GPTmode. Observer Comment submitted by: Vicente Quilez 11-157 Comment # 6.2.2.2.1.2. Technical, Binding Starting Line Number 44 Type Starting Page Number 96 Section Stanwood **Editor** Suggested Change: The box placed at the bottom to the rigth of figure 48 says that when there is another SDU in gueue, the SS "sends the untransmitted portion" of 1st SDU with request for queue contents in piggyback field." Therefore, it seems that is not possible to start the transmission of next SDU, although there is space for it. If this is the case, please insert an explanation on why this happens. Reason:

To clarify whether it is possible to send portion's of next SDU when there might be space for it in GPT mode.

In Figure 49, change all incidences of "CPE" to "SS" (10 incidences total)

Reason:

This specification uses the term "SS" instead of "CPE"

Comment #	11-159	Comment s	ubmitted by: Vicente		Quilez			Observer
Type	Editorial		Starting Page Num	ber 98	Starting Line Number	13	Section	6.2.2.2.1.
Suggested C	hange:						Editor	Stanwood
To change	the acronym	n CPE by SS	in all the text boxes	depicted	l in figure 48.			
Reason:								
To show that	at one SS m	ay have more	e than one associate	ed CPE.				
								March
Comment #	11-160	Comment s	ubmitted by: Carl		Eklund			Member
Type	Editorial		Starting Page Num	ber 99	Starting Line Number	37	Section	6.2.2.2.2
Suggested C	hange:						Editor	Stanwood
	ntence "This	s will typically	·"					
Reason:								
The senten	ce provides	no useful info	ormation.					
Comment #	11-161	Comment s	ubmitted by: Vicente)	Quilez			Observer
Type	Editorial		Starting Page Num	ber 100	Starting Line Number	24	Section	6.2.2.2.2.
Suggested C	hange:						Editor	Stanwood
	the acronym	n CPE by SS	in all the text boxes	depicted	I in figure 49.			
Reason:								
To show that	at one SS m	ay have more	e than one associate	ed CPE				
								N. SI
Comment #	11-162	Comment s	ubmitted by: Stanley		Wang			Neither
Type	Technical,	Binding	Starting Page Num	ber 100	Starting Line Number	24	Section	6.2.2.2.2
Suggested C	•						Editor	Stanwood
	0, change al	I incidences	of "CPE" to "SS" (5	incidence	es total)			
Reason:								
This specific	cation uses t	the term "SS'	instead of "CPE"					

Observer Comment submitted by: Vicente Quilez 11-163 Comment # Editorial Starting Page Number 100 Starting Line Number 54 6.2.2.2.3. Section Type Editor Stanwood Suggested Change: To change the acronym USG by the acronym UGS in the paragraph placed between lines 54 and 63. Reason: The acronym used for Ungranted Service is UGS, not USG. Comment submitted by: Vicente Observer Quilez 11-164 Comment # Editorial Starting Page Number 101 6.2.2.2.3 Starting Line Number 12 Type Section Stanwood Editor Suggested Change: To change the acronym USG by the acronym UGS in all the text boxes included in figure 51. Reason: The acronym for Ungranted Service is UGS, not USG. Neither Comment submitted by: Stanley Wang 11-165 Comment # 6.2.2.3.1.1 Editorial Starting Page Number 101 Starting Line Number 51 Section Type Stanwood Editor Suggested Change: Change the second sentence to read "After either the BS or SS Time Stamps reach the maximum value of 2^29 - 1, both Time Stamps roll over to zero and continue to count." instead of

"After either the BS or SS Time Stamps reach the maximum value of 2^29 - 1, they roll over to zero and continue to count."

Reason:

Since "either A or B" implies one of the two, the sentence must specifically states "both Time Stamps." Otherwise, the word "they" in the sentence refers to nothing.

Observer Comment submitted by: Vicente Quilez 11-166 Comment # Editorial Starting Page Number 102 Starting Line Number 4 6.2.2.3.2 Section Type Editor Stanwood Suggested Change: To change the expression: .. carried in the Physical Channel Descriptor. by: ..carried in the Uplink Channel Descriptor. Reason: There is no Physical Channel Descriptor MAC message. There are only Uplink or Downlink Channel Descriptor MAC messages. To be coherent with the kind of MAC messages definition. Member Comment submitted by: Carl Eklund 11-167 Comment # 6.2.2.3.2 Editorial Starting Line Number 10 Starting Page Number 102 Section Type Stanwood **Editor** Suggested Change: Delete paragraph starting "Practical mini.." Reason: This paragraph although skillfully worded contains no useful information and no requirements. Comment submitted by: Vicente Observer Quilez Comment # 11-168 6.2.2.3.3.6 Editorial Starting Line Number 64 Type Starting Page Number 103 Section Stanwood Editor Suggested Change: To include section description of Data Acknowledge IE Reason: Data Acknowledge IE is mentioned but not described Comment submitted by: Vicente Quilez Observer 11-169 Comment # Editorial Starting Page Number 105 Starting Line Number 4 6.2.2.4.1 Type Section Stanwood Editor Suggested Change: MAC Ctrl should be applied to the same frame that Phy Ctrl. Therefore, n, n+1, n+2 and n+3 should be changed to n-1, n, n+1, n+2. Reason: In figure 55, the information included in the MAC Ctrl portion pertains to the same frame and not to the following one as it is in the figure.

Comment #	11-170	Comment s	ubmitted by:	Vicente		Quilez	2				Observer
Type	Editorial		Starting Pag	je Number	105	Starting	Line No	umber	25	Section	6.2.2.4.1
Suggested C	hange:									Editor	Stanwood
	hould be app	olied to the s	ame frame th	at Phy Ctrl	. There	efore, n,	n+1, n+	-2 and	n+3 s	should be c	hanged to n-1, n, n+1, r
Reason:											
in figure 56,	tne informa	tion included	in the MAC (tri portion	pertai	ns to the	same	trame	and n	ot to the to	llowing one as it is in the
Comment #	11-171	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag	je Number	106	Starting	Line No	umber	24	Section	6.2.2.5
Suggested C	hange:									Editor	Stanwood
Change "S	S makes," at	t the end of t	he line to "SS	makes;"							
Reason:											
Punctuation	error.										
	11 170	Comment	ubmitted by:	Stanlov		Wang					Neither
Comment #	11-172 Editorial	Comment	Starting Pag		106	Starting	Line Nu	ımbar	25	Section	6.2.2.5
Type			Starting Pag	je Number	100	Starting	Line ivi	uiiibei	23	Editor	Stanwood
Suggested C Change "a		" to "an instr	uctional"							Lunoi	Otanwood
Reason:											
Grammatica	al error.										
Comment #	11-173	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag	je Number	106	Starting	Line Nu	umber	26	Section	6.2.2.5
Suggested C										Editor	Stanwood
Change "ov Reason:	vn CID)" to "	own CID),"									
Punctuation	Orror										
Functuation	enor.										

Neither Comment submitted by: Stanley Wang 11-174 Comment # Starting Page Number 110 Starting Line Number 33 Editorial 6.2.3.3 Section Type Zuniga Editor Suggested Change: Move the "NO" on the right-hand side of the figure to the right-hand side of the decision box (i.e., the box labeled "Initial ranging successful?") where it belongs (around line 47) Reason: Editorial change of the figure.

You must solve the inconsistency between sections 6.2.3.2 and 6.2.3.4.

Reason:

There is an inconsistency between sections 6.2.3.2 and 6.2.3.4.

In section 6.2.3.2 the standard notes that "The SS achieves MAC synchronization once it has received at least one DL-MAP message. A SS MAC remains in synchronization as long as it continues to successfully receive the DL-MAP and DCD messages for its Channel". In section 6.2.3.4 the standard notes that "The SS MAC remains in synchronization as long as it continues to successfully receive the DL-MAP, UL-MAP, DCD and UCD messages."

I believe that may be two types of synchronization.

- (a) Upstream synchronization: The SS must receive periodically UCD and UL-MAP messages to retain synchronization, otherwise search for other upstream channel. The loss of this synchronization doesn't mean that the SS lose downstream synchronization.
- (b) Downstream synchronization: The SS must receive periodically DCD and DL-MAP messages to retain synchronization, otherwise search for other downstream channel and of course lose not only downstream but also upstream synchronization.

 Comment #
 11-176
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Technical, Binding
 Starting Page Number
 111
 Starting Line Number
 5
 Section
 6.2.3.5

 Suggested Change:
 Editor
 Zuniga

Change the end of the line to read "Refer to Figure 60" and fix the cross-reference, if any.

Reason:

There is no table and only one figure to refer to.

Comment #	11-177	Comment s	ubmitted by:	Stanley		Wang				Neither	
Type	Technical,	Binding	Starting Pag	ge Number	111	Starting Line	Number	5	Section	6.2.3.5	
Suggested C	hange:								Editor	Zuniga	
Change "de	efined in 10.	1" to "defined	in Table 66"	and fix th	e corss	s-reference.					
Reason:											
Section 10.	1 is the sect	ion containin	g Table 66 w	hich define	es the '	'ranges."					
Comment #	11-178	Comment si	ubmitted by:	Stanley		Wang				Neither	
Type	Editorial		Starting Pag	ge Number	111	Starting Line	Number	7	Section	6.2.3.5	
Suggested C	hange:								Editor	Zuniga	
Edit Figure	60 on page	111 and con	tinued on pag	ge 112 to i	remove	some of the	e unnece	ssary s	paces and	to make the figure fit o	n one page.
Reason:											
		figures (one At least, the				,			•	". Make them fit on one	page can
Comment #	11-179	Comment si	ubmitted by:	Antonis		Karvelas				Neither	
Type	Editorial		Starting Pag	ge Number	111	Starting Line	Number	8	Section	6.2.3.5	
Suggested C	hange:								Editor	Zuniga	
You must n	nodify the Fi	gure 60 so as	to include th	ne DCD m	essage	s from the B	S.				
Reason:											
		2 seconds (m ude these DC	,				•		stics of the	e downstream channel.	I believe tha
Comment #	11-180	Comment si	ubmitted by:	Stanley		Wang				Neither	
Type	Editorial		Starting Pag	ge Number	112	Starting Line	Number	39	Section	6.2.3.6	
Suggested C	hange:								Editor	Zuniga	
Change "(n	naximum rol	und trip propa	•						lememtati	on delay)" to read "(ma	ximum round

The delay actually depends on the radius of the transmission cell instead of the size of the cell.

Comment #	11-181	Comment s	submitted by:	Antonis		Karvelas				Neither
Type	Technical,	Binding	Starting Pag	je Number	112	Starting Line N	umber	56	Section	6.2.3.6
Suggested (Change:								Editor	Zuniga
•	rary CID isn	ı't defined in s	section 6.2.1.2	2.5 which d	describ	es the RNG-RE	EQ MAG	C Man	agement n	nessage.
Reason:										
This incons	istency mus	st be resolved	l.							
Comment #	11-182	Comment s	submitted by:	1		Lindh				Member
Type	Technical		Starting Pag	je Number	112	Starting Line N	umber	60	Section	6.2.3.6
Suggested (Editor	Zuniga
								ot suc	cessful the	SS shall resend it at the
Reason:	ce transmit (opportunity at	t one step nig	ner power	ievei l	until successful.				
	dure will dec	crease the ne	eded dynamic	c range in	the RS	2				
This proced	Jule Will dec	nease the ne	eded dynamic	, range in	THE DC). 				
Comment #	11-183	Comment s	submitted by:	Antonis		Karvelas				Neither
Type	Technical,	Non-binding	Starting Pag	ge Number	112	Starting Line N	umber	61	Section	6.2.3.6
Suggested (Change:								Editor	Zuniga
	_	o be consiste	ent with the ac	tions that	are des	scribed from this	s point	until th	ne Page 11	3, Line 6 of section 6.2.
Reason:										
The Figure	62 doesn't o	contain the ac	ctions that are	described	from t	his point until th	ne Page	e 113,	Line 6 of s	section 6.2.3.6 .
ind inguid	02 0000111	uno un								
ino rigare	02 00001111	and the transfer of the transf						•		
Comment #	11-184		submitted by:			Wang				Neither
		Comment s		Stanley	112				Section	
Comment #	11-184 Technical,	Comment s	submitted by:	Stanley	112	Wang				Neither
Comment # Type Suggested (11-184 Technical,	Comment s Binding	submitted by:	Stanley ge Number		Wang			Section	Neither 6.2.3.6
Comment # Type Suggested (11-184 Technical,	Comment s Binding	submitted by: Starting Pag	Stanley ge Number		Wang			Section	Neither 6.2.3.6

Comment :	# 11-185	Comment su	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	113	Starting Line	Number	11	Section	6.2.3.6
Suggested	Change:								Editor	Zuniga
		The messa	ge sequence	chart (Fig	ure 61)	and flow cha	ırts (Figi	ure 62	and Figure	e 63) on the following
Reason:										
Adding s	pecific figure nu	umbers to the	text improve	es its reada	ability.					
Comment	# 11-186	Comment su	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	113	Starting Line	Number	52	Section	6.2.3.6
Suggested	Change:								Editor	Zuniga
	our (4) lines of t	ext starting w	ith the line "[time to ser	nd an .	" and reduc	e the sp	ace c	aused by th	ne removal of these lines
Figure.										
Reason:		100 - 100							C.	
This may	have been an	editorial error	r as a result	of copy-an	d-paste	e from anothe	r part of	the sa	ame figure.	
	44.407	0	ala and the same	Ctonley		Mone				Neither
Comment		Comment st	ubmitted by:		444	Wang		0		
Type	Editorial		Starting Pag	ge Number	114	Starting Line	Number	2	Section	6.2.3.6
										–
Suggested	_								Editor	Zuniga
Change	Change: the last senten	ce of the line	to read "This	s is defined	d as SS	S Ranging Re	sponse	Proce		
Change Reason:	the last senten								ssing Time	in Table 66."
Change Reason: Per its de	the last senten	e 66, the word	d "Processin						ssing Time	
Change Reason: Per its de	the last senten	e 66, the word	d "Processin						ssing Time	in Table 66."
Change Reason: Per its de section (s	the last senten efinition in Table section 10.1) th	e 66, the word at contains th	d "Processing ne table.						ssing Time	in Table 66."
Change Reason: Per its de section (s	the last senten efinition in Table section 10.1) th	e 66, the word at contains th	d "Processing ne table. ubmitted by:	g" is missir Stanley	ng. In a	ddition, the te	ext shou	ld refe	ssing Time	in Table 66." inition table (Table 66) r
Change Reason: Per its desection (s Comment	the last senten efinition in Table section 10.1) th # 11-188 Editorial	e 66, the word at contains th	d "Processing ne table.	g" is missir Stanley	ng. In a	ddition, the te	ext shou	ld refe	ssing Time r to the def	in Table 66." inition table (Table 66) r Neither 6.2.3.6
Change Reason: Per its de section (s Comment Type Suggested	the last senten efinition in Table section 10.1) th # 11-188 Editorial Change:	e 66, the word at contains th	d "Processing ne table. ubmitted by: Starting Pag	g" is missir Stanley ge Number	ng. In a	ddition, the te	ext shou	ld refe	ssing Time	in Table 66." inition table (Table 66) r
Change Reason: Per its de section (s Comment Type Suggested	the last senten efinition in Table section 10.1) th # 11-188 Editorial	e 66, the word at contains th	d "Processing ne table. ubmitted by: Starting Pag	g" is missir Stanley ge Number	ng. In a	ddition, the te	ext shou	ld refe	ssing Time r to the def	in Table 66." inition table (Table 66) r Neither 6.2.3.6

Comment # 11-189 Comment submitted by: Antonis Karvelas Neither

Type Technical, Binding Starting Page Number 114 Starting Line Number 30 Section 6.2.3.6

Suggested Change: Editor Zuniga

Add a process before the "Wait for Station Maintenance opportunity" process. The process will be named "Check RNG-RSP validity" and will check the RNG-RSP contents e.g. the Ranging Status filed. If all OK the next process will be the "Wait for Station Maintenance opportunity" process, if not the next process will be the "Error Re-Initialize MAC" process.

Reason:

To describe better the Initial Ranging procedure.

 Comment #
 11-190
 Comment submitted by:
 Antonis
 Karvelas

 Type
 Technical, Binding
 Starting Page Number
 114
 Starting Line Number
 32
 Section
 6.2.3.6

 Suggested Change:
 Editor
 Zuniga

The process "Wait for Station Maintenace opportunity" doesn't exit anywhere in the document. Is there any relation between figures 62 and 71?

Reason:

To reduce confusion.

Comment # 11-191 Comment submitted by: Antonis Karvelas Neither

Type Technical, Binding Starting Page Number 114 Starting Line Number 33 Section 6.2.3.6

Suggested Change: Editor

Add a note to explain that the "Retries exhausted?" conditional refers to the "Contention Ranging Retries" entry of the Table 66.

Reason:

Where the "Retries exhausted?" conditional refers?

If refers to the "Contention Ranging Retries" entry of the Table 66, I believe that you must add a note to explain this.

Comment #	11-192	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Pag	ge Number	114	Starting	Line N	umber	44	Section	6.2.3.6
Suggested C	Change:									Editor	Zuniga
Change the	e text to read	d "To avoid th	ese SSs rep	eating the	loop .	" instea	d of "T	o avoi	d these	SS repea	ting the loop"
Reason:											
Grammatica	al error.										
	11-193		ubmitted by:	Antonis		Karvela	as				Neither
Type	Technical,	Binding	Starting Pag	ge Number	114	Starting	Line N	umber	47	Section	6.2.3.6
Suggested C	_									Editor	Zuniga
	Remote and	DSC-ACK te	xt in the box	must be re	placed	d with "Ind	crease	local p	oower"	as in a pre	evious version of the sta
Reason:				0.40:61							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		the DSC-Re of the stand		SC-ACK he	ere ? I	believe th	nat the	text in	the bo	x must be	replaced with "Increase
Comment #	11-194	Comment s	ubmitted by:	Yigal		Leiba					Member
Type	Editorial		Starting Pag	ge Number	114	Starting	Line N	umber	47	Section	6.2.3.6
Suggested C	Change:									Editor	Zuniga
			eem out of pla	ace in figur	e 62,	which is a	about ii	ntial ra	nging.	Seems like	e the box should contain
Reason:	ower by 1 s	iep.									
Туро											
Туро											
Comment #	11-195	Comment s	ubmitted by:	Stanley		Wang					Neither
Туре	Editorial		Starting Pag	ge Number	115	Starting	Line N	umber	1	Section	6.2.3.7
			•	•		•					
Suggested C	Change:									Editor	Zuniga
Suggested C	_	"a) All param	neters shall be	e " and	relabe	el the rese	et of the	e list to	b), c)		Zuniga
	_	"a) All param	neters shall be	e " and	relabe	el the rese	et of the	e list to	b), c)		Zuniga

Neither Wang Comment submitted by: Stanley 11-196 Comment # Technical, Binding Starting Page Number 115 Starting Line Number 12 6.2.3.7 Section Type Zuniga **Editor** Suggested Change: Remove two (2) lines starting with the line "For multi-channel support, . . ." and move these two lines to page 114, line 4 to read "NOTE -- For multi-channel support, . . ." Reason: This paragraph has nothing to do with the section (Section 6.2.3.7, Ranging Parameter Adjustment). It belongs to the end-of-paragraph note for Section 6.2.3.6, Initial Ranging and Automatic Adjustments. Neither Comment submitted by: Antonis 11-197 Karvelas Comment # 6.2.3.6 Editorial Starting Page Number 116 Starting Line Number 36 Section Type Editor Zuniga Suggested Change: In Figure 63 add notes to the two conditionals "Retries exhausted?" in order to clarify the entries of Table 66 which correspond to the conditionals. Reason: To clarify the figure 63. Comment submitted by: Stanley Neither Wang 11-198 Comment # Editorial Starting Page Number 116 6.2.3.7 Starting Line Number 39 Section Type Zuniga **Editor** Suggested Change: Edit Figure 63 to include an arrow for the second input (the one on the right-hand side) for the box labeled "Remove SS from poll list" Reason:

Editorial error.

2001/01/1	•									1222 002.10.1
Comment #	11-199	Comment s	ubmitted by:	Yigal		Leiba				Member
Type	Editorial		Starting Pag	ge Number	116	Starting Line	Number	57	Section	6.2.3.7
Suggested C	hange:								Editor	Zuniga
	•					the state of the s				the pending-till-compl
_	ugh" test whi	ich follows re	ceipt of a RN	IG-RSP sh	nall not	t judge the S	S's trans	mit eq	ualization u	until pending-till-comple
Reason:			a manada la la mand		. 4 41	la la cada de de la del				
The text me	entions a trar	nsmit equaliz	er, which no	longer exis	sts in tr	nis standard.				
Comment #	11-200	Comment s	ubmitted by:	Antonis		Karvelas				Neither
Type			Starting Pag		117		Number	6	Section	6.2.3.8.1
Suggested C		rton binding	Otarting 1 as	je Rumber	117				Editor	Zuniga
		ify which MA	C manageme	ent messac	aes wil	ll be used for	the imple	ement		DHCP mechanisms.
Reason:	ara made diar	ny winon wi	o managome	nit mooda	900 Wil		are imple	01110111		Biror modifications.
I believe that	at the standa	ırd must clari	fy which MAC)) manager	ment m	nessages, if a	ıny, will b	e use	d for the im	plementation of the DF
mechanism										
Comment #	11-201	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	117	Starting Line	Number	8	Section	6.2.3.8.1
Suggested C									Editor	Zuniga
	64" should	be changed	to "See figure	∍ 64".						
Reason:										
To correct a	i misprint.									
0	11-202	Comment s	ubmitted by:	Stanley		Wang				Neither
Comment #		Comment 3	-		117		Number	0	Cootion	6.2.3.8.1
	Editorial		Starting Pag	je Number	117	Starting Line	Number	0	Section	
Suggested C		line to reed "	Coo Eiguro 6	4 " inotoco	l of IIC	oo Toblo 64 "	and fix th	ho oro	Editor	Zuniga
Reason:	eria or the	ine to read "	See Figure 6	+. mstead	101.26	ee Table 64."	and nx ti	ne cro	ss-reierend	e (ii ariy).
	not a table.									
it is a liguio	not a table.									

Comment #	11-203	Comment s	ubmitted by:	Stanley		Wang					Neither
Type	Editorial		Starting Page	ge Number	117	Starting I	ine Numb	er 4	3	Section	6.2.3.8.2
Suggested (Change:									Editor	Zuniga
	e end of the l	ine to read "I	Refer to Figu	re 65." ins	tead of	"See Tab	le 65." aı	nd fix	the c	ross-refer	ence (if any).
Reason:											
It is a figure	not a table.										
				N		0.11					Ohaaman
Comment #	11-204	Comment s	ubmitted by:		—	Quilez					Observer
Type	Editorial		Starting Page	ge Number	117	Starting I	ine Numb	er 4	4	Section	6.2.3.8.1
Suggested (_			0.511						Editor	Zuniga
"See Table	e 65" should	be changed	to "See figure	e 65".							
	n mionriet										
To correct a	a misprint.										
O	11-205	Comment s	ubmitted by:	Stanley		Wang					Neither
Comment #	Editorial	Oomment 3	Starting Page		117		ine Numb	or 1	5	Section	6.2.3.8.2
Туре			Starting Pa	ge Number	117	Starting 1	ine Num	7 4	3	Editor	Zuniga
Suggested (ine to read "	from the s	server's Hr	niversa	l Coordina	ted Time	(UC	T) sha		bined" instead of ".
_	C) shall be c			SCIVCI S OI	IIVCISA	i Oddiania	ica mine	(00)	1) 3110	an be com	omea moteau or .
Reason:	,										
Acronyms	with definition	٦.									
Comment #	11-206	Comment s	ubmitted by:	Vicente		Quilez					Observer
Type	Editorial		Starting Page	ge Number	118	Starting I	ine Numb	er 8		Section	6.2.3.9
											Zunigo
Suggested (Change:									Editor	Zuniga
		nce, "as shov	vn in 66" sho	uld be cha	ınged b	y "as sho	wn in figı	ıre 66	6".	Editor	Zuniga
		nce, "as shov	vn in 66" sho	uld be cha	inged b	y "as sho	wn in figu	ure 66	6".	Editor	Zuniga

Neither Comment submitted by: Stanley Wang 11-207 Comment # Editorial Starting Line Number 8 6.2.3.9 Starting Page Number 118 Section Type **Editor** Zuniga Suggested Change: Change the line to read "as shown in Figure 66" instead of "as shown in 66" and fix the cross-reference (if any). Reason: "66" implies "Section 66" not "Figure 66." Neither Comment submitted by: Stanley Wang Comment # 11-208 Technical, Binding Starting Page Number 119 6.2.3.9.1 Starting Line Number 25 Section Type Zuniga **Editor** Suggested Change: Change the label for the second box (the box in the middle) to read "TFTP Wait Timeout" instead "Timeout" Reason: A specific timeout is defined in Table 66 on page 284 for this purpose and should be used here. Comment submitted by: Stanley Wang Neither 11-209 Comment # 6.2.3.9.1 Technical, Binding Starting Page Number 120 Starting Line Number 41 Section Type Editor Zuniga Suggested Change: Change the text at the end of line to read "Authentication Failure (i.e., Response=1 in the REG-RSP Messge)," instead of "Authorization Failure." Reason: BS MIC is for authentication, which is part of the authorization process not the entire authorization process. Per Figure 68 on page 121. Adding "Response=1" improves the readability of the document. "Response=1" is per section 6.2.1.2.8, REG-RSP Message, on page 60. Comment submitted by: Stanley Wang Neither 11-210 Comment # Starting Page Number 120 Technical, Binding Starting Line Number 54 6.2.3.9.1 Type Section Zuniga Editor Suggested Change: Change the end of the line to read "Service Flow Parameters." instead of "Service Flow Response(s)." Reason: Per REG-RSP definition in 6.2.1.2.8 on page 60.

Neither Comment submitted by: Stanley Wang 11-211 Comment # Technical, Binding Starting Line Number 54 6.2.3.9.1 Starting Page Number 120 Section Type Zuniga **Editor** Suggested Change: Change the line to read "Class of Service Failure (i.e., Response=2 in the REG-RSP Message)" instead of "Class of Service Failure" Reason: Adding "Response=2" improves the readability of the document. "Response=2" is per section 6.2.1.2.8, REG-RSP Message, on page 60. Comment submitted by: Stanley Neither Wang Comment # 11-212 Technical, Binding Starting Page Number 120 6.2.3.9.1 Starting Line Number 55 Section Type Zuniga Editor Suggested Change: Change the line to read "any SS Capabilities (refer to 11.4.5) requested." instead of "any SS Capabilities requested." and fix the cross-reference (if any). Reason: Adding a forward reference improves the readability of the document. Neither Comment submitted by: Stanley Wang 11-213 Comment # 6.2.3.9.1 Technical, Binding Starting Page Number 120 Starting Line Number 55 Type Section Zuniga Editor Suggested Change: Change the end of the line to read "to provide any SS" instead of "to provide the SS" Reason: There are many requested SS Capabilities. "SS Capabilities" shall be turned "off" if any one of those capabilities cannot be met. Neither Comment submitted by: Stanley Wang 11-214 Comment # 6.2.3.9.1 Technical, Binding Starting Page Number 120 Starting Line Number 56 Type Section Zuniga **Editor** Suggested Change: Change the end of the line to read "(refer to 6.2.1.2.8)." instead of "(refer to 6.2.8.1)." and fix the cross-reference (if any). Reason: There is no such section. The correct section should be section 6.2.1.2.8, which defines the format of the REG-RSP Message.

Neither Comment submitted by: Stanley Wang 11-215 Comment # Starting Line Number 63 6.2.3.9.1 Technical, Binding Starting Page Number 120 Section Type Editor Zuniga Suggested Change: Change the line to read "If timer T9 (defined in Table 66) expires" instead of "If timer T9 expires" and fix the cross-reference (if any). Reason: Adding a forward reference improves the readability of the document. Table 66 on page 284 defines all the timers. Neither Comment submitted by: Stanley Wang Comment # 11-216 Starting Page Number 122 Technical Starting Line Number 7 6.2.3.9.1 Type Section Zuniga Editor Suggested Change: In Figure 69, two constants are needed, a timer for REG-ACK timeout and a counter for REG-ACK retries. Both constants must be defined in Table 66 on page 284. Once the two constants were defined, Figure 69 must be updated accordingly. Reason: Figure 69 refers to "T7" timer, which was defined (according to Table 66 on page 284) as "Wait for DSA/DSC/DSD Response timeout." In other words, "T7" is not for "REG-ACK timeout". In addition, a "Retries counter" is needed for REG-ACK retries. Neither Comment submitted by: Stanley Wang Comment # 11-217 Starting Page Number 122 Editorial Starting Line Number 31 6.2.3.9.2 Type Section Zuniga Editor Suggested Change: Change the beginning of the line to read "described in 7.2.1." instead of "described in 7." Reason: Should refer to a specific sub-section that actually describes the process. 7.2.1 on page 175 describes SS initialization. Neither Comment submitted by: Stanley Wang 11-218 Comment # Starting Page Number 122 6.2.3.9.2 Editorial Starting Line Number 31 Type Section Editor Zuniga Suggested Change: Change the end of the line to read "a Privacy Support encoding (see 11.4.5.1)" instead of "a Privacy Configuration Setting (11.4.5.1)" Reason: Typo per definition defined in section 11.4.5.1.

IEEE 802.16.1-01/03

Comment #	11-219	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	122	Starting Line	Number	60	Section	6.2.3.9.3
Suggested C	hange:								Editor	Zuniga
Delete the	reference to	section 6.2.1	I.2.8. Specifi	cally, dele	te " see	e (6.2.1.2.8)'	at the er	nd of th	e line.	
Reason:										
			Registration Fated that doe		•	,	•	does i	not include	information about agir
Comment #	11-220	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	123	Starting Line	Number	14	Section	6.2.4
Suggested C	hange:								Editor	Stanwood
	reference in	order to clar	ify the meani	ng of T4.						
Reason:										
T4 is introdu	uced in the te	ext without a	reference. It	should be	appen	ded "(see Ta	able 66)"	at the e	end of the	sentence
										-
Comment #	11-221	Comment s	ubmitted by:	Vladimir		Yanover				Observer
Type	Editorial		Starting Pag	ge Number	125	Starting Line	Number	32	Section	6.2.4.1
Suggested C	change:								Editor	Stanwood
										It should be transform802.11a/HIPERLAN)
Reason:										
Comment #	11-222	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	126	Starting Line	Number	52	Section	6.2.5.1
Suggested C	change:								Editor	Sater
Add "." to the	ne end of the	line.								
Reason:										
Punctuation	error.									

	-										
Comment #	11-223	Comment s	submitted by:	Vicente		Quilez				Observer	
Type	Editorial		Starting Page	ge Number	127	Starting Line	Number	8	Section	6.2.5.1	
Suggested C	Change:								Editor	Sater	
			o delete "ups n active Serv							also have a 16 bit Conn '.	ection
Reason:											
CIDs are as	ssociated to b	oth upstrea	m and downs	stream.							
Comment #	11-224	Comment s	submitted by:	Vicente		Quilez				Observer	
Type	Editorial		Starting Page	ge Number	127	Starting Line	Number	23	Section	6.2.5.2	
Suggested C	Change:								Editor	Sater	
by the BS t	to all existing	Service Flo	,	o serves as	s the pr	incipal ident	ifier in th	e SS ar	nd the BS	A ServiceFlowID (SFID) for the Service Flow. A pint f).	•
Reason:											
The SFID s	eems to be d	uplicated in	the attribute	list of Serv	ice Flo	ws.					
Comment #	11-225	Comment s	submitted by:	Stanley		Wang				Neither	
Type	Editorial		Starting Page	ge Number	127	Starting Line	Number	38	Section	6.2.5.2	
Suggested C	Change:								Editor	Sater	
Delete the	"," after "SFID)."									
Reason:											
Punctuation	error.										
Comment #	11-226	Comment s	submitted by:	Coleman		Hum				Member	
Type	Editorial		Starting Page	ge Number	127	Starting Line	Number	44	Section	6.2.5.2	
Suggested C	Change:								Editor	Sater	
	nship betwee	n the Qos F	arameter Se	ts is as sho	own in	Figure 74					
Reason:											
Figure 76 s	hould be Figi	ıre 74.									

Comment #	11-227	Comment s	ubmitted by:	Stanley		Wang					Neither	
Type	Editorial		Starting Pag	ge Number	127	Starting	Line N	umber	44	Section	6.2.5.2	
Suggested C	hange:									Editor	Sater	
Change the	line to read "	in Figure 7	4 and Figure	75" instea	d of "in	Figure 7	76 and	Figure	75" a	nd fix the c	ross-reference (if any)	
Reason:												
The original	text refers to	the wrong f	igure.									
	11-228	Comment s	ubmitted by:	Vicente		Quilez					Observer	
Type	Editorial		Starting Pag	ge Number	127	Starting	Line N	umber	45	Section	6.2.5.2	
Suggested C	hange:									Editor	Sater	
	should be ch	anged to "F	igure 74".									
Reason:												
To correct a	misprint.											
				0		144					Nathan	
	11-229	Comment s		Stanley		Wang					Neither	
Type	Editorial		Starting Pag	ge Number	127	Starting	Line N	umber	57	Section	6.2.5.2 footnote	
Suggested C	_									Editor	Sater	
Insert a nev	v line break b	efore the wo	ord "if" at the	end of the	e end a	nd make	the ne	ew line	aligne	d with the	rest of the lines on the sa	ame
Editorial cha	anges.											
Commert #	11-230	Comment	ubmitted by:	Stanley		Wang					Neither	
	Editorial				197	Starting	Line N	umber	50	Continu	footnote	
			Starting Pag	je Number	121	Starting	Lille IV	uilibei	50	Section	Sater	
Suggested C		200) to !!c =	. Il (with a am	2000) 000	oimilor	inaidana	oo thuo	u abou	t tha d	Editor		
Reason:	y. (with a sp	ace) to e.g	j., (with a sp	bace) and	Similar	iricidenc	es mro	ugnou	i ine d	ocument (e	e.g., page 127, line 60).	
Punctuation	orror											
runctuation	enor.											

_	44.004	0	h.m.:tta.d. h	Ctanlay		Mana			Neither
Comment #	11-231		ubmitted by:	-	100	Wang			
Type	Technical,	Binding	Starting Pag	ge Number	130	Starting Line Number	55	Section	6.2.5.4
Suggested (Editor	Sater
_	e line to read	d " By expli	icitly including	g all QoS p	arame	ters." instead of " E	By expl	icitly includ	ing all traffic parameter
Reason:									
	\ U			•	n Tole	erance) and QoS para	ımeter	(e.g., Cell I	oss Rate & Cell Delay
are two dill	erent conce	pts and are n	ot interchang	jeable.					
0	11-232	Comment s	ubmitted by:	Stanley		Wang			Neither
Comment #	Editorial	Oomment 3			120	Starting Line Number	60	Castian	6.2.5.4
Туре			Starting Pag	ge Number	130	Starting Line Number	02	Section	Sater
Suggested (_			DEO "		1. (II.) D. 1.	5	Editor	
Change the Reason:	e line to reac	l "stages: RE0	G-RSP, DSA-	-REQ,"	ınstea	d of "stages: Registra	tion Re	esponse, D	SA-REQ,"
Consistenc	y issue.								
		_		0: 1					Nielika
Comment #	11-233		ubmitted by:	-		Wang			Neither
Type	Technical,	Binding	Starting Pag	ge Number	133	Starting Line Number	29	Section	6.2.5.6.3
Suggested (Change:							Editor	Sater
				•				•	the BS MIC."",""Autho
"authentica	ation" are two	o different fur	nctionalities.	BS MIC is	used t	to authenticate SSs (p	oer sec	otion 6.2.3.9	9.1 on page 118, line 2 ⁻
neasull:									
									O
		Commont o	ubmitted by:	Vicente		Quilez			Observer
Comment #	11-234	Comment s	dominited by.	11001110					
Comment # Type	11-234 Editorial	Comment	Starting Pag		134	Starting Line Number	52	Section	6.2.5.7.1
	Editorial	Comment's	•		134	Starting Line Number	52	Section Editor	6.2.5.7.1 Sater
Type Suggested (Editorial		Starting Pag	ge Number		Starting Line Number appropriate ones.	52		
Type Suggested (Editorial		Starting Pag	ge Number			52		

Add a new section title as follows:

"6.2.5.7.2 Dynamic Service Flows"

Change the number for current section "6.2.5.7.2" (page 135, line 61) to "6.2.5.7.2.1"

Change the subsection numbers for the rest of the section accordingly, i.e., "6.2.5.7.2.1" (page 136, line 31) to "6.2.5.7.2.2" and "6.2.5.7.2.2" (page 136, line 61) to "6.2.5.7.2.3".

Reason:

The current numbering implies that "6.2.5.7.2.1 Dynamic Service Flow Creation --- BS Initiated" (page 136, line 31) is a subsection of "6.2.5.7.2 Dynamic Service Flow Creation --- SS Initiated" (page 135, line 61) which is inappropriate.

 Comment #
 11-236
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Editorial
 Starting Page Number
 136
 Starting Line Number
 35
 Section
 6.2.5.7.2.1

 Suggested Change:
 Editor
 Sater

Change the text at the end of the line to read "The protocol is illustrated" (i.e., remove the word "as").

Reason:

Grammatical error.

In figure 80, "DSD" should be changed to "DSC".

Reason:

After a Dynamic Service Deletion, the Service Flow cannot be operational.

Comment # 11-238 Comment submitted by: Stanley Wang

Type Technical, Binding Starting Page Number 146 Starting Line Number 35 Section 6.2.5.8.3

Suggested Change: Editor

Add another subsection titled as follows:

"6.2.5.8.3.1 SS Initiated Dynamic Service Addition"

Change the subsection numbers for the rest of the section accordingly, i.e., "6.2.5.8.3.1" (page 147, line 45) to "6.2.5.8.3.2" and "6.2.5.8.3.2" (page 149, line 1) to "6.2.5.8.3.3".

Fix the cross-reference on page 136, line 3, so that the updated cross-reference would point to this newly created instead of the currently defined subsection 6.2.5.8.3.1.

Reason:

Current section 6.2.5.8.3, Dynamic Service Addtion, actually includes SS initiated and BS initiated DSAs. SS initiated DSA is discussed in 6.2.5.8.3 itself; while BS initiated DSA is discussed in one of its subsections, 6.2.5.8.3.1. This structure implies that BS initiated DSA is a subsection of SS initiated DSA.

 Comment #
 11-239
 Comment submitted by:
 Stanley
 Wang
 Neither

 Type
 Editorial
 Starting Page Number
 148
 Starting Line Number
 46
 Section
 6.2.5.8.3.1

 Suggested Change:

Delete the two lines of text on page 148, line 46 and line 48.

Reason:

These two lines of text might have been place holders for section 6.2.5.8.3.2 (page 149, line 1) and were not deleted when the section was created.

Comment # 11-240 Comment submitted by: Vicente Quilez Observer

Type Editorial Starting Page Number 173 Starting Line Number 27 Section 7.1.1

Suggested Change: Editor

The last word of the sentence should be "Format" instead of "Formant".

Reason:

To correct a misprint.

Comment #	11-241	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	175	Starting Line	Number	1	Section	7.1.3
Suggested C	hange:								Editor	Eklund
Change "A	SA" to "An S	A" and simi	lar incidences	s througho	ut the	document (e.	g., page	179, li	ne 14).	
Reason:										
Grammatica	l error.									
										The second
Comment #	11-242	Comment s	ubmitted by:	Stanley		Wang				Neither
Type	Editorial		Starting Pag	ge Number	178	Starting Line	Number	47	Section	7.3.1.1
Suggested C	hange:								Editor	Eklund
Change "i.e	. " (with a sp	ace) to "i.e.,	, " (with a spa	ace) and si	milar ir	cidences thro	oughout	the do	cument (e.	g., page 288, line 5).
Reason:										
Punctuation	error.									
Comment #	11-243	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	200	Starting Line	Number	53	Section	8.1.1
Suggested C	hange:								Editor	Yanover
The point in	side the brad	ckets should	l be deleted.	Therefore,	instead	d of "(PLME.)	", it shou	ıld be '	"(PLME)".	
Reason:										
To correct a	misprint.									
Comment #	11-244	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	202	Starting Line	Number	17	Section	8.1.3.2
Suggested C	L								Editor	Yanover
Suggested C	nange:								Editor	Tallovel
	-	nould be cha	anged to "UCI	D_PARAM	_VEC1	ΓOR".			Editor	ranover

As the rest of vectors have "VECTOR" in their names, it seems reasonable, for the sake of consistency, to include this complete word in the

name proposed for change.

Comment #	11-245	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	je Number	205	Starting Line Number	er 20	Section	8.1.3.9
Suggested C	hange:							Editor	Yanover
The word "l	Primatives" s	should be ch	anged to "Prir	mitives"					
Reason:									
To correct a	ı misprint in t	the figure ca	ption.						
Comment #	11-246	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	je Number	206	Starting Line Number	er 61	Section	8.1.3.12.5
Suggested C	hange:							Editor	Yanover
	Primatives" s	should be ch	anged to "Prir	mitives".					
Reason:									
To correct a	misprint in t	the figure ca	ption.						
Comment #	11-247	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	je Number	213	Starting Line Number	er 10	Section	8.1.3.24.5
Suggested C	hange:							Editor	Yanover
The arrow	direction mu	st be change	∍d.						
Reason:									
Following P	HY_TXSTAF	२T. request (definition (see	8.1.3.15),	, this p	rimitive is generated	by MA	C.	
Comment #	11-248	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	je Number	213	Starting Line Number	er 12	Section	8.1.3.24.5
Suggested C	hange:							Editor	Yanover
Δ	tion must be	changed							
Arrow direc	tion must be	o onangea.							
Reason:	nion must be	o onangea.							

Comment #	11-249	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Technical,	Binding	Starting Pag	e Number	213	Starting Lin	e Number	15	Section	8.1.3.24.5
Suggested C	hange:								Editor	Yanover
The positio	n of PHY_N	IACPDU.conf	irmation in fig	jure 118 r	nust be	e checked.				
Reason:										
the PHY_M	ACPDU prir	mitive has bee	en completed ⁱ	'. Howeve	er, in fig	gure 118, thi	s primitiv	e is pla	aced before	on of the MAC message e PHY_START.indication ete transmission before
Comment #	11-250	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	e Number	213	Starting Lin	Number	17	Section	8.1.3.24.5
Suggested C	hange:								Editor	Yanover
Reason:	_		ation primitive							
The PHY_F	RXSTART.in	dication primi	tive, represen	nted in figi	ures 1	18 and 119,	has not b	een pr	eviously de	efined.
Comment #	11-251	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag		213	Starting Lin	e Number	30	Section	8.1.3.24.5
Suggested C			3 3						Editor	Yanover
		should be cha	anged to "Prir	mitives".						
Reason:										
To correct a	misprint in	figure caption	۱.							
Comment #	11-252	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	e Number	213	Starting Lin	Number	37	Section	8.1.3.24.5
Suggested C	hange:								Editor	Yanover
Figure 119	should be	reviewed.								
Reason:										
PHY_TXST	ART.reques	t has no conf	irmation in fig	ure.						

Observer Comment submitted by: Vicente Quilez 11-253 Comment # Editorial Starting Page Number 213 Starting Line Number 41 8.1.3.24.5 Section Type Editor Yanover Suggested Change: Figure 119 should be reviewed. Reason: PHY_RXSTART.confirmation has no request. Observer Comment submitted by: Vicente Quilez 11-254 Comment # Technical, Binding Starting Page Number 213 8.1.3.24.5 Starting Line Number 46 Type Section Yanover Editor Suggested Change: The position of PHY_MACPDU.confirmation in figure 119 must be checked. Reason: Following PHY_MACPDU.confirmation definition (8.1.3.19.1), this primitive "confirms that the transmission of the MAC message requested by the PHY MACPDU primitive has been completed". However, in figure 119, this primitive is placed before PHY START.indication that is generated after the start of transmission (see 8.1.3.17.3). It does not seem possible to confirm the complete transmission before the start of it. Observer Comment submitted by: Vicente Quilez Comment # 11-255 8.1.3.24.5 Starting Page Number 213 Editorial Starting Line Number 48 Type Section Yanover Editor Suggested Change: An arrow must be inserted under PHY START.indication. Reason: To insert a missing arrow in figure 119. Comment submitted by: Vicente Quilez Observer 11-256 Comment # Editorial Starting Page Number 213 Starting Line Number 8.1.3.24.5 Type Section Yanover Editor Suggested Change: The word "Primatives" should be changed to "Primitives". Reason: To correct a misprint in the figure caption.

Comment #	11-257	Comment s	ubmitted by:	Vicente		Quilez					Observer
Type	Editorial		Starting Pag	ge Number	217	Starting	Line Nur	nber	5	Section	8.2.1.2.4
Suggested	Change:									Editor	Schiltz/Klein
It should b	e included a	reference of	the definition	of PHY m	node A.	. This def	inition is	in se	ction	8.2.1.5.1.	
Reason:											
PHY mode	A is introduc	ced in the tex	t without any	previous	definition	on or refe	erence.				
	44.050	Comment	ubmitted by:	Vicente		Quilez					Observer
Comment #	11-258	Comment s			017				10		
Type	Editorial		Starting Pag	ge Number	217	Starting	Line Nur	nber	19	Section	8.2.1.2.5
Suggested (auld ba dalat	o d							Editor	Schiltz/Klein
Reason:	muniple" sno	ould be delete	au.								
	is not made	of a multiple	of 1 symbols	but of exa	actly 1 s	evmhole					
ATTIT SIOI	is not made	or a multiple	or 4 Symbols	but of exe	icity 4 s	symbols.					
Comment #	11-259	Comment s	ubmitted by:	Vicente		Quilez					Observer
Туре	Editorial		Starting Pag	ge Number	217	Starting	Line Nur	nber	27	Section	8.2.1.2.5
Suggested (•						Editor	Schiltz/Klein
		reference of	the definition	of PHY m	node B.	. This def	inition is	in se	ction	8.2.1.5.2.	
Reason:											
PHY mode	B is introduc	ced in the tex	t without any	previous	definitio	on or refe	erence.				
Comment #	11-260	Comment s	ubmitted by:	Lars		Lindh					Member
Type	Editorial		Starting Pag	ge Number	217	Starting	Line Nur	nber	47	Section	8.2.1.2.5
Suggested	Change:									Editor	Schiltz/Klein
Insert the	vord "QPSK"	'so the senter	nce will read	" this me	ans QF	PSK follow	wed by 1	16-Q <i>A</i>	M"		
Reason:											

Comment # 11-261 Comment submitted by: Antonis Karvelas Neither

Type Technical, Non-binding Starting Page Number 217 Starting Line Number 52 Section Schiltz/Klein

The standard must clarify with details where in the downstream frame the SS is responsible to hear.

Reason:

The standard must clarify with details where in the downstream frame the SS is responsible to hear. Starting from this line it notes that: "Each SS continuously receives the entire downstream burst, decodes the data in the DS burst, and looks for MAC headers indicating data for that SS.", but the "burst" is a downstream region with specific PHY characteristics. I believe that a SS is responsible to hear the Frame Control Header and the DIUC for which is assigned to, and not to the other DIUC regions.

Comment # 11-262 Comment submitted by: Vicente Quilez Observer

Type Editorial Starting Page Number 217 Starting Line Number 52 Section 8.2.1.2.5

Suggested Change: Editor

To specify the modes that are compliant with this sentence

Reason:

The sentence is not always true (e.g., FDD HD)

To insert a dot preceding "the TDMA portion.."

Reason:

Missing character

To insert TDMA instead of TDM in the data part of TDMA portion in figure 123

Reason:

Wording error

To specify that the Frame Control Header contains a map stating the PS not only where the modulation will change, but the complete burst profile

Reason:

To provide a more exact statement

 Comment #
 11-266
 Comment submitted by:
 Antonis
 Karvelas
 Neither

 Type
 Editorial
 Starting Page Number
 219
 Starting Line Number
 32
 Section
 8.2.1.2.7

 Suggested Change:
 Editor
 Schiltz/Klein

Insert the sentence: "The supporting of the Shortened FEC Block for the downlink bursts is optional as referred to the section 11.1.2.2."

Reason:

I believe that in the region 8.2.1.2.7 the standard must remarks that the supporting of the Shortened FEC Block for the downlink bursts is optional as referred to the section 11.1.2.2, in order to remove any doubt about this.

The sentence: "Then, p= kn + j where j is the number of integral FEC blocks that fit in the burst and is the number of PS remaining after integral FEC blocks are allocated." must be replaced with the following: "Then, p= kn + j where k is the number of integral FEC blocks that fit in the burst and j is the number of PS remaining after integral FEC blocks are allocated."

Reason:

You must correct the sentence in order to agree with Figure 124.

Comment #	11-268	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	je Number	219	Starting Line	Number	36	Section	8.2.1.2.7
Suggested C	hange:								Editor	Schiltz/Klein
To correct t	he FEC usa	ge explanation	on as follows:	" =kn+j w	here k	is the numbe	r of integ	gral FE	C blocks th	nat fit in the burst and j
of PS rema	uining"									
Reason:										
Wrong defir	nition									
	44.000			V" I -		0.11				Obcomion
Comment #	11-269	Comment s	ubmitted by:		0.1.0	Quilez		0.0		Observer
Type	Editorial		Starting Pag	e Number	219	Starting Line	Number	38	Section	8.2.1.2.7
Suggested C									Editor	Schiltz/Klein
To substitut	te f by r									
		ode a se dia Halia a	-1		ا ماله ما	a ta a company di altra an) l O - l	
To unity not	nenciature v	vnen talking	about the har	ne given t	to the i	oits providing	correction	n in F	reed Solom	ion schemes
O	11-270	Comment s	submitted by:	Lare		Lindh				Member
Comment # Type	Technical	Oomment 3	Starting Pag		210	Starting Line	Number	12	Section	8.2.1.2.7
			Starting Pay	e Number	213	Otarting Line	Number	40	Editor	Schiltz/Klein
Suggested C	_	a that a code	aword cannot	have less	than 6	information b	ovtes		Luitoi	GOTHILE/TRICITI
Reason:	iterice statiri	g triat a cout	sword carmot	nave less	illail C	mormation	лутез -			
This is also	required in 8	8.2.3.5.5.2								
1112 13 3.130	2 42 6 6. 11									
Comment #	11-271	Comment s	ubmitted by:	Antonis		Karvelas				Neither
Type	Editorial		Starting Pag	je Number	219	Starting Line	Number	46	Section	8.2.1.2.7
Suggested C	hange:								Editor	Schiltz/Klein
	e "symbols"	with "PSs".								
Reason:										

Comment #	11-272	Comment s	submitted by: Antonis	Karvelas			Neither
Туре	Editorial		Starting Page Number 2	219 Starting Line Number	54	Section	8.2.1.2.7
Suggested C	hange:					Editor	Schiltz/Klein
	ols" must be	replaced wit	h "PSs".				
Reason:							
The j is PSs	not symbols	according t	o the above text.				
Comment #	11-273	Comment s	ubmitted by: Carl	Eklund			Member
Type	Editorial		Starting Page Number 2	Starting Line Number	12	Section	8.2.1.2.8
Suggested C	hange:					Editor	Schiltz/Klein
change ms	ec to ms						
Reason:							
The SI unit	for measurin	g time is a s	econd which is abbreviate	es s. Apply this whereever	r it appe	ars.	
				0.11			O
Comment #	11-274	Comment s	ubmitted by: Vicente	Quilez			Observer
Type	Editorial		Starting Page Number 2	Starting Line Number	25	Section	8.2.1.3
Suggested C						Editor	Schiltz/Klein
	ub" in front o	f "frame"					
Reason:		-1-1					
10 provide	a more exact	statement					
0	11-275	Comment	submitted by: Vicente	Quilez			Observer
Comment #		Comment	_		4	0	_
Type	Editorial		Starting Page Number 2	Starting Line Number	1	Section	8.2.1.3.1
Suggested C	•	Downt Mark	NA - India to a Union III I and the			Editor	Schiltz/Klein
10 Substitu Reason:	te "Upstream	Burst Mode	e Modulation" by "Upstrea	am purst profile modes"			
	ootuolly doo	lo with burst	t profiles modes, not only	moduilation modes			
ine section	actually dea	us with durs	profiles modes, not only	moduliation modes			

Comment #	11-276	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	221	Starting Line	Number	3	Section	8.2.1.3.1
Suggested C	hange:								Editor	Schiltz/Klein
To substitu	te "Adaptive	modulation	" by "Adaptiv	e burst pro	ofiles"	ı				
Reason:										
The section	actually dea	als with burst	t profiles, not	only mod	ulation					
Comment #	11-277	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	221	Starting Line	Number	3	Section	8.2.1.3.1
Suggested C	hange:								Editor	Schiltz/Klein
	ite "users" by	/ "SS"								
Reason:										
Actually, the	e SS are ass	signed transr	nission chara	acteristics						
Comment #	11-278	Comment s	ubmitted by:	Carl		Eklund				Member
Type	Technical		Starting Pag	ge Number	221	Starting Line	Number	8	Section	8.2.1.3.1
Suggested C									Editor	Schiltz/Klein
	≀AM-4" with '	"the paramete	ers specified	for Reque	st Inte	vals (UIUC=1)"	1			
Reason:		11 12 13				11 1 1 1 1 1				
						or the intervals I separate sect		ned in	the UCD n	nessage. If we would wa
mandate th	at Hoquost II	itorvais ase (1431 50 40	no ma					
Comment #	11-279	Comment s	ubmitted by:	Vicente		Quilez				Observer
Туре	Editorial		Starting Pag		221	Starting Line	Number	10	Section	8.2.1.3.1
	_antona.		Otal till g T at	90		3		. 0		
	'hange:								Editor	Schitz/Kiein
Suggested C		smits with the	e modulation	specified	by " by	v " SS transmi	its with t	he bu	Editor rst profile s	Schiltz/Klein
Suggested C		smits with the	e modulation	specified	by" by	y "SS transmi	its with t	he bu		
Suggested C To substitu Reason:	ite "SS tran	smits with the		·		y "SS transmi	its with t	he bu		

Observer Comment submitted by: Vicente Quilez 11-280 Comment # Editorial Starting Page Number 221 Starting Line Number 57 8.2.1.4 Section Type Schiltz/Klein Editor Suggested Change: To change figure title to "Uplink mapping in the Continuous Downstream FDD" Reason: The word Downstream in the title (as appearing now) is confusing due to the mapping is really for upstream. The suggested change avoid such confussion. Neither Comment submitted by: Antonis Karvelas 11-281 Comment # Editorial Starting Page Number 222 8.2.1.5.2 Starting Line Number 28 Type Section Schiltz/Klein Editor Suggested Change: In the title of section 8.2.1.5.2 the "Upstream" must be replaced with "Downstream". Reason: Reduce confusion. Comment submitted by: Vicente Observer Quilez 11-282 Comment # 8.2.1.5.2 Editorial Starting Page Number 222 Starting Line Number Type Section Schiltz/Klein Editor Suggested Change: To change "upstream" by "downstream" Reason: Wording error Comment submitted by: Vladimir Observer Yanover 11-283 Comment # Starting Page Number 223 Editorial 8.2.2 Starting Line Number 4 Type Section Schiltz/Klein Editor Suggested Change: 8.2.2 PHY SAP Parameter Definitions paragraph needs to be completed including specification of all the parameters' vectors and primitives mentioned in 8.1 Reason: A a formal request, if needed. This is a part of MAC-PHY separation process

Comment # 11-284 Comment submitted by: Lars Lindh

Type Technical Starting Page Number 235 Starting Line Number 15 Section 8.2.3.4

Suggested Change: Editor Schiltz/Klein

Delete from "When no data is available to transmit .." until end of paragraph.

Reason:

This sentence is unclear and does not explain for what reason data is not available to transmit. If we have no data then we have a gap and transmission gaps should be scheduled in a DL map entry as burst type "Gap" with DIUC=14 according to Table 3. During such a gap the transmitter shall be shut down according to paragraph 8.2.1.2.7 Downlink Data. This operation has nothing to do with the pointer.

The text must describe the case where gaps exist between MAC PDUs. If not, the corresponding text must be removed.

Reason:

I believe that the only case to use the stuff_byte pattern is when the MAC sends the last codeword and the Last Codeword Length for this burst is fixed. Is there any case to have gaps between MAC PDUs of the same burst? Based on the Downstream Frame format there is the need to implement a buffer mechanism with 12 banks where each memory bank corresponds to one DIUC region and stores MAC PDUs for that DIUC region. There is not a reason to have gaps between the MAC PDUs of the same memory bank.

Comment # 11-286 Comment submitted by: Lars Lindh

Type Technical Starting Page Number 235 Starting Line Number 61 Section 8.2.3.5.1

Suggested Change: Editor Schiltz/Klein

Delete the sentence "After registration and authorization by the .. ".

Reason:

This sentence is not valid and gives a wrong understanding of the use of adaptive modulation.

Comment # 11-287 Comment submitted by: Antonis Karvelas Neither

Type Technical, Non-binding Starting Page Number 236 Starting Line Number 42 Section 8.2.3.5.3

Suggested Change: Editor Schiltz/Klein

The standard must clarify when the scrambler is cleared. At the beginning of each Downstream Frame or at the beginning of each TDM burst (that is at the beginning of each modulation/FEC different region - DIUC)?

Reason:

Based on the definition of "burst" the sentence "At the beginning of each burst, the PRBS register is cleared.." means that the scrambler is reloaded with the seed at the beginning of each DIUC region. But this is different with the next sentence which notes that the scrambler is reloaded with the seed at the beginning of the TDM region of the Downlink frame and also at the beginning of each TDMA burst of the Downlink frame.

The sentence: "The sequence generator pauses while parity bites are being transmitted." must be replaced with: "The sequence generator pauses while parity bytes are being transmitted from the Reed Solomon Encoder."

Reason:

To demystify the text and to show that when the Reed Solomon transmits the check bytes the scrambler must be in a hold (not running) state.

To align the initial value of t with the value provided in page 290, line 19

Reason:

To avoid inconsistency

Observer Comment submitted by: Vicente Quilez 11-290 Comment # Editorial Starting Page Number 237 Starting Line Number 34 8.2.3.5.4 Section Type Editor Schiltz/Klein Suggested Change: To indicate if the parity check code is used for error correction, error detection or both. If the use is as an error correction code, please insert an indication of the mechanism that may be used for getting that (e.g., soft decodable, etc.) Reason: To suggest an implementation solution, as in the case of Reed Solomon plus Block convolutional code (soft decodable) Neither Comment submitted by: Antonis Karvelas 11-291 Comment # Editorial 8.2.3.5.5 Starting Page Number 237 Starting Line Number 48 Type Section Schiltz/Klein Editor Suggested Change: Change the text "..able to correct from 1 to 16 byte errors." with the "..able to correct from 0 to 16 byte errors." or change the corresponding entry of Table 49 where the Error correction capability is defined as R=0-32 (T=0-16). Reason: To remove the inconsistency with Table 49 where the Error correction capability is defined as R=0-32 (T=0-16). Member Comment submitted by: Lars Lindh Comment # 11-292 8.2.3.5.5 Starting Page Number 237 Technical Starting Line Number 57 Type Section Schiltz/Klein Editor Suggested Change: Change "2 to 32" to "0 to 32" Reason: It shall be possible to bypass the Reed Solomon code. Neither Comment submitted by: Antonis Karvelas 11-293 Comment # Technical, Non-binding Starting Page Number 238 Starting Line Number 1 8.2.3.5.5 Type Section Schiltz/Klein Editor Suggested Change: I believe that the standard must clarify the reasons for the codeword size (K+R) to be an even number. Reason: To reduce confusion.

Type Editorial Starting Page Number 239 Starting Line Number 7 Section 8.2.3.5.5.2 Suggested Change: Editor Schiltz/Klein To unify processing descriptions contained in Shortened Last Codeword Mode given in page 239 from line 7 to line 20, and that page 257 from line 10 to line 20. Reason: To align definitions Comment # 11-295 Comment submitted by: Vicente Quilez Starting Line Number 1 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein To change "Figure 139" by "Figure 140" Reason: Numbering error Comment # 11-296 Comment submitted by: Lars Lindh Member 7 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Subspect Comment # 11-297 Comment submitted by: Alok Gupta Neither Schiltz/Klein Replace (40,20) with (46,26) Reason:		44.004	Comment	ubusitted by	Vicente		Quilez				Observer
Suggested Change: To unify processing descriptions contained in Shortened Last Codeword Mode given in page 239 from line 7 to line 20, and that page 257 from line 10 to line 20. Reason: To align definitions Comment # 11-295	Comment #		Comment s			000			7		
To unify processing descriptions contained in Shortened Last Codeword Mode given in page 239 from line 7 to line 20, and that page 257 from line 10 to line 20. Reason: To align definitions Comment # 11-295	Type	Editorial		Starting Pag	je Number	239	Starting Line	Number	7		
page 257 from line 10 to line 20. Reason: To align definitions Comment # 11-295		•									
Reason: To align definitions Comment # 11-295		•		ntained in Sh	ortened La	ast Co	deword Mode	given in	page	239 from li	ne 7 to line 20, and tha
Comment # 11-295	. •	ioni ine io u	o line 20.								
Comment # 11-295		finitions									
Type Editorial Starting Page Number 240 Starting Line Number 1 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein To change "Figure 139" by "Figure 140" Reason: Numbering error Comment # 11-296 Comment submitted by: Lars Lindh Member 1 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sub Comment # 11-297 Comment submitted by: Alok Gupta Neither Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:	To alight de	11111110115									
Type Editorial Starting Page Number 240 Starting Line Number 1 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein To change "Figure 139" by "Figure 140" Reason: Numbering error Comment # 11-296 Comment submitted by: Lars Lindh Member 1 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sub Comment # 11-297 Comment submitted by: Alok Gupta Neither Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:	Commont #	11-205	Comment s	ubmitted by:	Vicente		Quilez				Observer
Suggested Change: To change "Figure 139" by "Figure 140" Reason: Numbering error Comment # 11-296						240		Number	1	Section	82358
To change "Figure 139" by "Figure 140" Reason: Numbering error Comment # 11-296				Starting 1 ag	je Humber	240	otal till g _ illo				
Reason: Numbering error Comment # 11-296			by "Figure 1	1.40"						Luitoi	GOTHILE/TRIGHT
Numbering error Comment # 11-296		rigure 139	by Figure	140							
Comment # 11-296 Comment submitted by: Lars Lindh Member Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sublement # 11-297 Comment submitted by: Alok Gupta Neither Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:		orror									
Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sublement # 11-297 Comment submitted by: Alok Gupta Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:	Numbering	GITOI									
Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8 Suggested Change: Editor Schiltz/Klein Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Subl Comment # 11-297 Comment submitted by: Alok Gupta Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:	Comment #	11-296	Comment s	ubmitted by:	Lars		Lindh				Member
Suggested Change: Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sublement # 11-297						243		Number	41	Section	82358
Change the code (53,46) x (51,44) Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sublement # 11-297				Starting 1 ag	je Humber	240	otal till g _ illo		71		
Reason: The length of the codeword (53,46)x(51,44) is 338 bytes and exceeds the maximal length of 255 set by the pointer in the TC Sublement # 11-297			3) v (51 44)							Luitoi	GOTHILE/TRIGHT
Comment # 11-297 Comment submitted by: Alok Gupta Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:		5 COGE (35,40	J) X (J1,44)								
Comment # 11-297 Comment submitted by: Alok Gupta Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Editor Schiltz/Klein Replace (40,20) with (46,26) Reason:	The length	of the codew	ord (53 46)x	(51 44) is 338	R hytes an	d exce	eds the maxin	nal lengi	th of 2	55 set by th	ne pointer in the TC Su
Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Replace (40,20) with (46,26) Reason:	The length	or the deadw	014 (00, 10)X	(01,11) 10 000	bytoo an	a oxoc	odo tro maxin	nai iongi	01 2	oo oo by a	to pointer in the 10 ou
Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9 Suggested Change: Replace (40,20) with (46,26) Reason:	Comment #	11-297	Comment s	ubmitted by:	Alok		Gupta				Neither
Suggested Change: Replace (40,20) with (46,26) Reason:						244		Number	31	Section	82359
Replace (40,20) with (46,26) Reason:				Starting Fag	je Mullibel	277	Otal ting Line	· · · · · · · · · · · · · · · · · · ·	01		
Reason:			6 26)							Euitoi	OUTIIILZ/TXIGIT
	nepiace (4)	0,20) WILII (4	0,20)								
MAC message length has changed. FEC block size must match. See contribution for details.											

Observer Comment submitted by: Vicente Quilez 11-298 Comment # Editorial Starting Page Number 244 Starting Line Number 40 8.2.3.5.10 Section Type Editor Schiltz/Klein Suggested Change: To delete the duplicated word "Table" Reason: To avoid duplication Member Lindh Comment submitted by: Lars Comment # 11-299 Starting Page Number 247 8.2.3.5.11 Technical Starting Line Number 20 Type Section Schiltz/Klein Editor Suggested Change: Insert "The power levels of the different modulation schemes in a DL burst shall be such that the outer constellation points for the different modulation scheme coincide." Reason: This will make it easier for the AGC in the SS to operate during the change of the modulations. This is especially important in the TDM mode. Neither Comment submitted by: Antonis Karvelas 11-300 Comment # 8.2.4.3.2.1 Editorial Starting Page Number 255 Starting Line Number 48 Type Section Schiltz/Klein Editor Suggested Change: Change the text "..able to correct from 1 to 16 byte errors." with the "..able to correct from 0 to 16 byte errors." or change the corresponding entry of Table 60 where the Error correction capability is defined as R=0-32 (T=0-16). Reason: To remove the inconsistency with Table 60 where the Error correction capability is defined as R=0-32 (T=0-16). Comment submitted by: Lars Lindh Member 11-301 Comment # Technical Starting Page Number 255 Starting Line Number 8.2.4.3.2.1 Type Section Schiltz/Klein Editor Suggested Change: Change "2 to 32" to "0 to 32" Reason: It shall be possible to bypass the Reed Solomon code.

Comment #	11-302	Comment s	ubmitted by:	Lars		Lindh				Member				
Type	Technical		Starting Pag	ge Number	263	Starting L	ine Number	30	Section	8.2.4.3.4				
Suggested C	Change:								Editor	Schiltz/Klein				
Delete 64-0	Delete 64-QAM as an optional modulation scheme for the uplink													
Reason:														
schemes. T	The use 64-QAM as an optional modulation scheme in the uplink will enforce the use of a very tight spectrum mask for all modulation schemes. This will consequently lead to higher back-off requirements for the power amplifier also for the mandatory QPSK and mak lifficult to realize cost reduced terminals.													
Comment #	11-303	Comment s	ubmitted by:	Vicente		Quilez				Observer				
Type	Editorial		Starting Pag	ge Number	269	Starting L	ine Number	50	Section	8.2.4.3.7				
Suggested C	Change:								Editor	Schiltz/Klein				
	te the second	d column on	table 60											
Reason:														
It seems to	be incomplet	ted												
Comment #	11-304	Comment s	ubmitted by:	Lars		Lindh				Member				
Type	Technical		Starting Pag	ge Number	271	Starting L	ine Number	34	Section	8.2.6.1				
Suggested C	Change:								Editor	Schiltz/Klein				
	his reference	can then be	used" by "	This refere	ence m	ust then b	e used".							
Reason:														
In order mir	nimize error s	sources symb	ool clock lock	king should	d be m	andatory.								
Comment #	11-305	Comment s	ubmitted by:	Jay		Klein				Member				
Type	Editorial		Starting Pag	ge Number	271	Starting L	ine Number	47	Section	8.2.6.2				
Suggested C	Change:								Editor	Schiltz/Klein				
	F Sources" to other Radio sy			uency sou	rces"",	"Cost effe	ctivness re	quires	the modem	frequency source (syml				

Reason:

Comment #	11-306	Comment s	ubmitted by: Lars		Lindh			Member
Type	Technical		Starting Page Number	271	Starting Line Number	48	Section	8.2.6.2
Suggested	Change:						Editor	Schiltz/Klein
Change "	RF source s	hould referer	nce each other" with "R	F sour	ces must reference ea	ch oth	er".	
Reason:								
It should cl	early be state	ed that freque	ency locking is mandato	ry.				
Comment #	11-307	Comment s	ubmitted by: Vicente		Quilez			Observer
Type	Editorial		Starting Page Number	272	Starting Line Number	9	Section	8.2.7
Suggested							Editor	Schiltz/Klein
	referenced S	3ubsection						
Reason:								
To avoid in	ndeterminatio	n in referenc	es					
	11.000	Comment	ubmitted by		Klein			Member
Comment #	11-308	Comment s	ubmitted by: Jay	070		47		
Type	Editorial		Starting Page Number	272	Starting Line Number	17	Section	8.2.7
Suggested (-	May Dy phac	o noigo"				Editor	Schiltz/Klein
Reason:	pearance of "I	Max Ax phas	se noise					
Based on S	Session #10 (PHY TG1) r	ninutes these items are	not na	arameters to annear ir	n minir	num nerfori	mance. Due to an incor
	•	,	ed about this change.	not pe	aramotoro to appoar ii		nam ponon	nanco. Duo to an moor
					Dilataia			A. J.
Comment #	11-309	Comment s	ubmitted by: Juha		Pihlaja			Neither
Comment # Type	11-309 Technical	Comment s	ubmitted by: Juha Starting Page Number	272	Starting Line Number	27	Section	Neither 8.2.7
	Technical	Comment s		272		27	Section Editor	
Type Suggested	Technical		Starting Page Number	272		27		8.2.7
Type Suggested	Technical Change:		Starting Page Number	272		27		8.2.7

Comment #	11-310	Comment s	ubmitted by:	Juha		Pihlaja			Neither
Type	Technical		Starting Pag	ge Number	272	Starting Line Number	er 27	Section	8.2.7
Suggested C	hange:							Editor	Schiltz/Klein
Change: 10)-66 GHz +-	10 ppm, terr	minal frequen	cy locking	requir	ed			
Reason:									
+- 10 ppm is	s sufficient v	when we requ	uire terminal f	frequency	lockin	9			
Comment #	11-311	Comment s	ubmitted by:	Jay		Klein			Member
Type	Editorial		Starting Pag	ge Number	272	Starting Line Number	er 33	Section	8.2.7
Suggested C	hange:							Editor	Schiltz/Klein
Delete app	earance of "	Composite G	Group Delay"	and "Com	posite	Amplitude Ripple"			
Reason:									
		· · · · · · · · · · · · · · · · · · ·			not pa	arameters to appear	in minir	mum perfor	mance. Due to an incorr
procedure ti	ne Editor wa	as not informe	ed about this	change.					
Comment #	11-312	Comment s	ubmitted by:	Jay		Klein			Member
Type	Editorial		Starting Pag	ge Number	272	Starting Line Number	er 38	Section	8.2.7
Suggested C			J	,		· ·		Editor	Schiltz/Klein
		scussing "Bas	se station Red	ceiver" nar	ramete	are			
Reason:	o occion dis	bodooning Dad	o station rec	oorvor par	arriote				
Based on S	ession #10 ((PHY TG1) n	ninutes these	items are	not n	arameters to annea	in mini	mum nerfor	mance. Due to an incorr
		as not informe			not p	aramotoro to appour		nam ponon	nanco. Bao to an moon

Neither Pihlaja Comment submitted by: Juha 11-313 Comment # Technical Starting Page Number 272 Starting Line Number 40 8.2.7 Section Type Schiltz/Klein Editor Suggested Change: Change: Dynamic Range: 32 dB Reason: 32 dB is sufficient when the terminals are subject to power control Pihlaja Comment submitted by: Juha Neither 11-314 Comment # Starting Page Number 272 8.2.7 Technical Starting Line Number 42 Type Section Schiltz/Klein Editor Suggested Change: Change: BER performance threshold before FEC: for 10-3 QPSK -94 + 10*log(R) $16 \text{ QAM} - 87 + 10 \log(R)$ 64-QAM -81 + 10*log(R)for 10-6 QPSK -90 + 10*log(R) $16 \text{ QAM } -83 + 10 \log(R)$ 64-QAM -77 + 10*log(R)where R is the RF channel bandwidth in MHz Reason: These values are realistic and do not lead to unnecessary high transmission power in the SS Neither Pihlaja Comment submitted by: Juha 11-315 Comment # Starting Page Number 272 Technical Starting Line Number 57 8.2.7 Type Section Schiltz/Klein Editor Suggested Change: Change: Adjacent channel interferer threshold degradation at BER=10-6 : S/I = -2 dB for 1 dB degradation (assuming similar modulations on adjacent channels) where S/I represents Signal to Interferer ratio Reason: Makes use of adjacent channel possible

Comment #	11-316	Comment s	ubmitted I	by:	Juha		Pihlaja					Neither
Type	Technical		Starting	Pag	e Number	272	Starting	Line	Number	62	Section	8.2.7
Suggested C	hange:										Editor	Schiltz/Klein
	n. TBR $S/I = 1$		_	•					•	,	•	I) and 36 (64-QAM) for Where S/I represents
Reason:												
Co-channel	interference	threshold d	egradatio	n sh	ould be ir	nclude	d for the	uplinl	k as we	II		
Comment #	11-317	Comment s	ubmitted I	by:	Juha		Pihlaja					Neither
Type	Technical		Starting	Pag	e Number	272	Starting	Line	Number	64	Section	8.2.7
Suggested C	hange:										Editor	Schiltz/Klein
	Dynamic Ran	ge										
Reason:												
Min and Ma	x power spec	ification is	prefered									
												KL-ML
	11-318	Comment s		-			Pihlaja					Neither
Type	Technical		Starting	Pag	e Number	273	Starting	Line	Number	1	Section	8.2.7
Suggested C	hange:										Editor	Schiltz/Klein
Change: Mi	n transmitted	rms power	at at Max	x leve	el setting	:						
32 G 42 G	iHz band iHz band iHz band	16 15	dBm dBm dBm									
with QPSK	modulation (0	0.35 roll-off	factor)									
with QPSK Reason:	modulation ((0.35 roll-off	factor)									

Comment #	11-319	Comment submitted	by: Juha		Pihlaja			Neither	
Type	Technical	Starting	Page Number	273	Starting Line Numbe	r 4	Section	8.2.7	
Suggested	Change:						Editor	Schiltz/Klein	
Insert: Ma	x transmitted	rms power at Min leve	el setting: -30	dBm					
Reason:									
Maximum	and Minimum	values specification	preferred						
Comment #	11-320	Comment submitted	<mark>by:</mark> Juha		Pihlaja			Neither	
Type	Technical	Starting	Page Number	273	Starting Line Numbe	r 4	Section	8.2.7	
Suggested	Change:						Editor	Schiltz/Klein	
		l adjustment steps an essaging, in steps of	•			adjust i	ts Tx power	level, based on feedba	ck from the
Reason:									
1.0 dB ste	p size is prefe	red							
Comment #	11-321	Comment submitted	by: Juha		Pihlaja			Neither	
Comment #	11-321 Technical		by: Juha	273	Pihlaja Starting Line Numbe	r 16	Section	Neither 8.2.7	
	Technical			273		r 16	Section Editor		
Type Suggested	Technical Change:		Page Number		Starting Line Numbe	r 16		8.2.7	
Type Suggested	Technical Change:	Starting	Page Number		Starting Line Numbe	r 16		8.2.7	
Type Suggested Insert: Tx Reason:	Technical Change: Symbol Clock	Starting	Page Number		Starting Line Numbe	r 16		8.2.7	
Type Suggested Insert: Tx Reason:	Technical Change: Symbol Clock	Starting Accuracy: Must be lo	Page Number		Starting Line Numbe	r 16		8.2.7 Schiltz/Klein	
Type Suggested Insert: Tx Reason:	Technical Change: Symbol Clock	Starting Accuracy: Must be lo	Page Number		Starting Line Numbe	r 16		8.2.7	
Type Suggested Insert: Tx Reason: Symbol clo	Technical Change: Symbol Clock ock accuracy i	Starting Accuracy: Must be lose is an important param Comment submitted	Page Number	ymbol d	Starting Line Numbe			8.2.7 Schiltz/Klein	
Type Suggested Insert: Tx Reason: Symbol clo	Technical Change: Symbol Clock ock accuracy i 11-322 Technical	Starting Accuracy: Must be lose is an important param Comment submitted	Page Number ocked to BS s neter by: Juha	ymbol d	Starting Line Numbe		Editor	8.2.7 Schiltz/Klein Neither	
Type Suggested Insert: Tx Reason: Symbol clo Comment # Type Suggested	Technical Change: Symbol Clock ock accuracy i 11-322 Technical Change:	Starting Accuracy: Must be lose is an important param Comment submitted	Page Number ocked to BS syneter by: Juha Page Number	ymbol o	Starting Line Number		Editor Section	8.2.7 Schiltz/Klein Neither 8.2.7	
Type Suggested Insert: Tx Reason: Symbol clo Comment # Type Suggested	Technical Change: Symbol Clock ock accuracy i 11-322 Technical Change:	Starting Accuracy: Must be lose is an important param Comment submitted Starting	Page Number ocked to BS syneter by: Juha Page Number	ymbol o	Starting Line Number		Editor Section	8.2.7 Schiltz/Klein Neither 8.2.7	

Comment #	11-323	Comment	submitted by:	Jay		Klein			Member
Type	Editorial		Starting P	age Number	273	Section	8.2.7		
Suggested	Change:							Editor	Schiltz/Klein
Delete "Tx	Freq Range"	ı							
Reason:									
	Session #10 (the Editor wa	• •			e not pa	arameters to appear in	n minir	num perforr	mance. Due to an incor
Comment #	11-324	Comment	submitted by:	Juha		Pihlaja			Neither
Type	Technical		Starting P	age Number	273	Starting Line Number	21	Section	8.2.7
Suggested	Change:							Editor	Schiltz/Klein
Delete: Tx	frequency ra	ınge							
Reason:									
Not relevar	nt for specific	ation							
Comment #	11-325	Comment	submitted by:	Jay		Klein			Member
Type	Technical		Starting P	age Number	273	Starting Line Number	23	Section	8.2.7
Suggested	Change:							Editor	Schiltz/Klein
Replace T	BD with "Per	relevant loc	cal regulation	n requireme	nts"				
1 topiado 1				1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
Reason:									

Comment #	11-326	Comment s	ubmitted by:	Jay		Klein				Member			
Type	Editorial		Starting Pag	ge Number	273	Starting L	ine Number	25	Section	8.2.7			
Suggested C	change:								Editor	Schiltz/Klein			
Remove the following items: "Spectral mask (in band)" and "Filter distortion" (including Group delay and amplitude ripple reference)													
Reason:													
		(PHY, TG1) r as not informe			not pa	arameters	to appear ir	n minim	um perfori	nance. Due to an incorr			
						141				Manchan			
Comment #	11-327	Comment s	ubmitted by:	Jay		Klein				Member			
Type	Editorial		Starting Pag	ge Number	273	Starting L	ine Number	32	Section	8.2.7			
Suggested C	Change:								Editor	Schiltz/Klein			
(2) Add a "		r Station Rec nance thresh				on page 27	'2 line 48						
Reason:													
		(PHY, TG1) r as not informe			not pa	arameters	to appear ir	n minim	um perfori	nance. Due to an incorr			
Comment #	11-328	Comment s	ubmitted by:	Jay		Klein				Member			
Type	Editorial		Starting Pag	ge Number	273	Starting L	ine Number	32	Section	8.2.7			
Suggested C	hange:								Editor	Schiltz/Klein			

Replace TBD for the "Adjacent Channel" with the contents of similar section from page 272 line 59

Reason:

Suggested Change:

Based on Session #10 (PHY, TG1) minutes these items are not parameters to appear in minimum performance. Due to an incorrect procedure the Editor was not informed about this change

Comment #	11-329	Comment s	submitted by: Vicente		Quilez			Observer					
Type	Editorial		Starting Page Number	274	Starting Line Number	9	Section	8.2.7					
Suggested C	hange:						Editor	Schiltz/Klein					
	Change references in the table 64, column named "specification section"												
Reason:													
In table 64,	"specification	on Section" co	olumn, references does	s not m	atch any subclause s	ection	in the docu	ment.					
					121 :			Manakay					
Comment #	11-330	Comment s	submitted by: Jay		Klein			Member					
Type	Editorial		Starting Page Number	275	Starting Line Number	40	Section	8.2.7.2.1					
Suggested C	-						Editor	Schiltz/Klein					
	quired to Ins	sert accepted	changes of Session #	10, Co	mment 579 by J.Klein								
Reason:													
Editor forgo	t to insert ch	nange.											
	44.004	0	Wingston		Oville			Observer					
Comment #	11-331	Comment s	submitted by: Vicente	075	Quilez	40							
Type	Editorial		Starting Page Number	2/5	Starting Line Number	48	Section	8.2.7.2.1					
Suggested C		0.5					Editor	Schiltz/Klein					
Reason:	e 0 in table	65											
	foreneed in	the following	a paragraph (ng 975 li	no 57\	but it is not included in	n tabla	65						
Type o is re	nerenced If	ı ırıe ioliowinç	g paragraph (pg 275, li	ne 5/)	but it is not included i	ii labie	. 00						
Comment #	11-332	Comment s	submitted by: Stanley		Wang			Neither					
Type	Editorial		Starting Page Number	278	Starting Line Number	62	Section	9.2.1					
			Otaling Fago Hambol	270		02	Editor	Baragar/Tappenden					
Suggested C		l "Tyne is a s	ingle-byte identifier	" instea	ad of "Type is a single	- identi		Daragan rappondon					
Reason:	mic to reac	ι τγροισα σ	ingle byte lacitine	1113166	a or Type is a single	ideitti							
Туро													
. , po													

Comment #	11-333	Comment s	ubmitted by:	Stanley		Wang			Neither
Type	Editorial		Starting Pag	ge Number	278	Starting Line Number	er 63	Section	9.2.1
Suggested	Change:							Editor	Baragar/Tappenden
Change t	he line to read	d "Length is a	single-byte o	containing	" in:	staed of "Length is	a single	containing .	"
Reason:									
Туро									
Comment #	11-334	Comment s	ubmitted by:	Antonis		Karvelas			Neither
Type	Editorial		Starting Pag	ge Number	279	Starting Line Number	er 51	Section	9.2.2
Suggested	Change:							Editor	Baragar/Tappenden
Add text	to show that t	he "Network A	Access Confid	guration Se	ettina" i	s the same with the	Networ	k Access C	ontrol Object of the 11.4

Add text to show that the "Network Access Configuration Setting" is the same with the Network Access Control Object of the 11.4.3 Encoding.", "The text must show that the "Network Access Configuration Setting" is the same with the Network Access Control Object of the 11.4.3 Encoding in order to remove any doubt.

Reason:

Comment #	11-335	Comment submitted by:	Vicente		Quilez			Observer
Type	Editorial	Starting Page	ge Number 2	281	Starting Line Number	14	Section	9.2.3
Suggested C	Baragar/Tappenden							

Take out last row in figure 156

Reason:

The step described by the figure 156 reaches up to the SS MIC inclussion. The step describing how and when the BS MIC is included in the configuration file is described by figure 157.

Comment #	11-336	Comment submitted by:	Stanley	Wang			Neither
Type	Editorial	Starting Pa	ge Number 28	1 Starting Line Number	14	Section	9.2.3
Suggested (Change:					Editor	Baragar/Tappenden

Delete the last row ("type, length, value for BS MIC") from Figure 156.

Correspondingly, change the first sentence of page 282, line 12 to read as follows:

"b) The bytes of the BS MIC TLV are omitted from the calculation since it is not present at this step."

Reason:

There is no BS MIC at step (b) yet. BS MIC is added to the configuration file at step (c). In addition, without the additional wording "since it is not present at this step" to page 282, line 12, it may lead the reader to believe that BS MIC is present at step (b).

 Comment #
 11-337
 Comment submitted by:
 Vicente
 Quilez
 Observer

 Type
 Editorial
 Starting Page Number
 282
 Starting Line Number
 64
 Section
 9.3.1

 Suggested Change:

Editor

Baragar/Tappenden

Change/Delete reference D.3.1.1

Reason:

Section/Clause D.3.1.1 does not exist in the document

 Comment #
 11-338
 Comment submitted by:
 Antonis
 Karvelas
 Neither

 Type
 Technical, Binding
 Starting Page Number
 284
 Starting Line Number
 27
 Section
 10.1

 Suggested Change:
 Editor
 Guillemette

Replace the text "Time between transmission of broadcast Ranging requests" with "Time between of Initial Maintenance regions assigned by the BS".

Reason:

The BS doesn't send RNG-REQ messages. I believe that the text "Time between transmission of broadcast Ranging requests" must be replaced with "Time between of Initial Maintenance regions assigned by the BS" to reduce confusion.

Comment # 11-339 Comment submitted by: Antonis Karvelas Neither

Type Technical, Binding Starting Page Number 285 Starting Line Number 21 Section 10.1

Suggested Change: Editor Guillemette

Replace the "Wait for ranging response" with "Wait for ranging response after sending the ranging request". Also remove the Minimum Value 50 msec from Table 66 entry.

Reason:

Replace the sentence in order to clarify that the Timer T3 begins the counting after the SS sends the ranging request message. Also I believe that you must remove the Minimum Value 50 msec from the table entry because there isn't any reason to exist. If there is a reason for defining the Minimum Value then you must add a note which will explain that reason.

Comment # 11-340 Comment submitted by: Kenneth Stanwood Member

Type Editorial Starting Page Number 286 Starting Line Number 49 Section 10.2 Well known

Suggested Change: Editor

Use title-caps for header. I.E., "Well Known Addresses and Identifiers"

Reason:

Consistency with rest of document

On page 287, line 39 delete "Temporary Registration and"

Reason:

The Temporary CID was eliminated at a previous session, so this term doesn't exist anymore.

Comment #	11-342	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial		Starting Pag	ge Number	288	Starting L	ine Number	6	Section	11
Suggested C	hange:								Editor	Licardie
_	t words in the		"the most-sio	gnificant bi	ts is the	e first trans	smitted on	the wir	re" by "the i	most signigicant bits are
Reason:										
Transmissio	n of bits "on	the wire" do	es not make	sense in t	he para	agraph wh	ere the cor	nent is	included	
Comment #	11-343	Comment s	ubmitted by:	Lars		Lindh				Member
Type	Technical		Starting Pag	ge Number	289	Starting L	ine Number	17	Section	11.1.1.1
Suggested C	hange:								Editor	Licardie
Change "Pr	reamble patte	ern" to "Prea	ımble repetiti	ion"which	defines	how man	y times the	basic	16 symbol	preamble should be re
Reason:										
Preamble pa	attern is fixed	d and cannot	t be defined.	The repeti	tion co	unt must h	nowever be	given	as a parar	neter
Comment #	11-344	Comment s	ubmitted by:	Lars		Lindh				Member
Type	Technical		Starting Pag	ge Number	289	Starting L	ine Number	42	Section	11.1.1.1
Suggested C	hange:								Editor	Licardie
Delete Spe	ctrum invers	ion								
Reason:										
There was r	never a decis	ion to adopt	this parame	ter						
Comment #	11-345	Comment s	ubmitted by:	Vicente		Quilez				Observer
Type	Editorial				000			10		11.1.1.2
. , , , ,			Starting Pag	ge Number	290	Starting L	ine Number	42	Section	11.1.1.2
	hange:		Starting Pag	ge Number	290	Starting L	ine Number	42	Section Editor	Licardie
Suggested C		e Convergei				Starting L	ine Number	42		
Suggested C	the use of th	e Convergei				Starting L	ine Number	42		

Comment #	11-346	Comment s	ubmitted by:	Vicente		Quilez					Observer	
Type	Editorial		Starting Pag	e Number	292	Starting	Line N	umber	24	Section	11.1.2.2	
Suggested C	hange:									Editor	Licardie	
Change "in	pi dB units"	by "in 1/4 dE	3 units" in last	column,	second	row start	ing by	the er	nd			
Reason:												
Fixing of an	editorial mis	stake										
Comment #	11-347	Comment s	ubmitted by:			Quilez					Observer	
Type	Editorial		Starting Pag	e Number	294	Starting	Line N	umber	10	Section	11.1.4	
Suggested C										Editor	Licardie	
J	pi dB units"	by "in 1/4 dE	units" in last	column, f	irst rov	V .						
Reason:												
Fixing of an	editorial mis	stake										
Comment #	11-348	Comment s	ubmitted by:	Vicente		Quilez					Observer	
Type	Editorial		Starting Pag	e Number	294	Starting	Line N	umber	15	Section	11.1.4	
Suggested C	hange:									Editor	Licardie	
Change "in	pi dB units"	by "in 1/4 dE	3 units" in last	column,	second	row						
Reason:												
Fixing of an	editorial mis	stake										
Comment #	11-349	Comment s	ubmitted by:	Antonis		Karvela	S				Neither	
Type	Technical		Starting Pag	e Number	294	Starting	Line N	umber	36	Section	11.1.4	
Suggested C	hange:									Editor	Licardie	
•	e sentence "I e must be se		used, the Ra	nging Stat	us valu	ie must b	e set t	o 1" wi	ith the	following "I	f this TLV is used, the R	anging
Reason:												

If the BS commands the SS to change the downlink channel and redo initial ranging then the Ranging Status value is more logical to have the 2=abort value, because then the SS must abort the current Initial Ranging process, execute PHY resynchronization (downstream and upstream) and after these actions to perform again the Initial Ranging process.

Comment # 11-350 Comment submitted by: Antonis Karvelas Neither

Type Technical, Binding Starting Page Number 294 Starting Line Number 39 Section 11.1.4

Suggested Change: Editor Licardie

Insert the sentence "If this TLV is used, the Ranging Status value must be set to 2." after the sentence "The identifier of the uplink channel with which the SS should redo initial ranging."

Reason:

If the BS commands the SS to change the Uplink channel, the SS must abort its current Initial Ranging process. Then it must execute Upstream PHY synchronization (it must not execute Downstream PHY synchronization) and after completion of this it will redo Initial Ranging.

 Comment #
 11-351
 Comment submitted by:
 Antonis
 Karvelas
 Neither

 Type
 Technical
 Starting Page Number
 312
 Starting Line Number
 39
 Section
 11.4.5

 Suggested Change:
 Editor
 Licardie

Add text to clarify where the SS Capabilities Encoding stored in the SS.

Reason:

Where are these parameters come from? If the SS Capabilities Encoding stored in the SS (in a non-volatile storage) during the manufacturing phase, the standard must declare this.

Delete this TLV.

Reason:

It serves no purpose. For the SS and BS to communicate well enough to transfer this parameter, they must already agree on physical layer type.

Member Comment submitted by: Kenneth Stanwood 11-353 Comment # Editorial Starting Page Number 314 Starting Line Number 31 11.4.5.3.3 10-66 GHz Section Type Editor Licardie Suggested Change: Change type from 5.12.2 to 5.12.3. Reason: 5.12.2 is the type of the previous TLV. Comment submitted by: Kenneth Member Stanwood 11-354 Comment # Technical, Non-binding Starting Page Number 315 11.4.5.4 Duplexing Starting Line Number Type 38 Section Licardie Editor Suggested Change: Delete this TLV Reason: It serves no purpose. For the SS and BS to communicate well enough to transfer this parameter, they must already agree on duplexing method. Comment submitted by: Kenneth Member Stanwood 11-355 Comment # Editorial Starting Page Number 316 Starting Line Number 1 11.4.5.4.1 Bandwidth Type Section Marks Editor Suggested Change: Change section number to 11.4.5.5. (make it one level less deep) Reason: This TLV is same level as 11.4.5.4 Duplexing Support. Comment submitted by: Antonis Neither Karvelas 11-356 Comment # Technical, Binding Starting Page Number 317 11.4.7.2 Starting Line Number 1 Type Section Licardie Editor Suggested Change: Remove the 11.4.7.2 Service(s) Not Available Response section. Reason: This configuration setting doesn't exist in the REG-RSP message in the section 6.2.1.2.8.

Comment #	11-357	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	e Number	318	Starting Line Number	15	Section	11.4.9.1
Suggested C	Change:							Editor	Licardie
Delete the	dot before s	ubclause titl	e						
Reason:									
Fixing of a	typing mistak	ie .							
		_				0 "			
Comment #	11-358	Comment s	submitted by:			Quilez			Observer
Type	Editorial		Starting Pag	e Number	318	Starting Line Number	32	Section	11.4.9.2
Suggested C	Change:							Editor	Licardie
	uthorize Wail	state" by Re	eauthorize Wa	ait state" a	t the e	nd of the paragraph			
Reason:									
To be cohe	rent with tabl	le 82 and su	bclause 11.4.	9.1					
Comment #	11-359	Comment s	submitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	je Number	318	Starting Line Number	51	Section	11.4.9.3
Suggested C	Change:							Editor	Licardie
	armonize Vali	d Range val	ue in table						
Reason:									
Make cohe	rent the valid	range for th	e Authorizatio	n Grace ti	me be	cause it does not mat	tch the	one in the	table 82, page 320 (by
				1/ annath		Stanwood			Member
Comment #	11-360	Comment s	submitted by:	Kennetn		Otanwood			William .
Comment #	11-360 Editorial	Comment s	Starting Pag		325	Starting Line Number	29	Section	11.4.12.5.4 Quality of
	Editorial	Comment s			325		29	Section Editor	
Type Suggested C	Editorial		Starting Pag		325		29		11.4.12.5.4 Quality of
Type Suggested C	Editorial		Starting Pag		325		29		11.4.12.5.4 Quality of

Neither Comment submitted by: Stanley Wang 11-361 Comment # Technical, Binding Starting Page Number 325 Starting Line Number 29 11.4.12.5.4 Section Type Editor Licardie Suggested Change: Change the section number from "11.4.12.5.4" to "11.4.12.6" and re-number all subsections under section 11.4.12. Specifically, subsection 11.4.12.6 (page 326, line 39) should be re-numbered to 11.4.12.7; subsection 11.4.12.7 (page 327, line 3) should be re-numbered to 11.4.12.8, etc. Reason: Section 11.4.12.5, Service Flow Error Encodings, should not include a subsection in Quality of Service Parameter Set Type, which is currently numbered as subsection 11.4.12.5.4. Instead, Quality of Service Parameter Set Type should be a section by itself and should be in parallel with section 11.4.12.5, Service Flow Error Encodings. Comment submitted by: Vicente Observer Quilez 11-362 Comment # Editorial Starting Page Number 327 Starting Line Number 12 11.4.12.7 Section Type Licardie Editor Suggested Change: Equation numbering should be "(1)" instead of "(2)" Reason: References to the equation (for instance, in subclause 11.4.12.7.1) mention "(1)" Comment submitted by: Vicente Quilez Observer 11-363 Comment # Editorial Starting Page Number 328 11.4.12.9 Starting Line Number 46 Section Type Editor Licardie Suggested Change:

Change "This value of this parameter" by "The value of this parameter"

Reason:

Fixing of an editorial mistake

Comment # 11-364 Comment submitted by: Vicente Quilez Observer

Type Technical, Binding Starting Page Number 334 Starting Line Number 59 Section 11.4.12.22

Suggested Change: Editor Licardie

Change "NSI" by "BNI" in line 59

Reason:

The paragraph refers to the interface between the BS and the network. This interface is named -page 342, figure 160- as BNI from BS-Network Interface

Comment # 11-365 Comment submitted by: Yigal Leiba Member

Type Technical, Binding Starting Page Number 335 Starting Line Number 17 Section 11.4.12

Suggested Change: Editor Licardie

Insert the new sections, whose text is shown below,

'11.4.12.23 CRC and ARQ usage

The value of this parameter will define whether the connection uses ARQ and/or additional CRC on its MPDUs. The TLV fields are

TYPE: [24/25].23

Length: 1

Value: Bit 0, when set the connection appends a CRC field to each MPDU as specified in section 6.2.1

Bit 1, when set the connection appends a CRC field and an ARQ header to to each MPDU as

specified in section 6.2.1

SCOPE: Configuration File, REG-REQ, REG-RSP, DSx-REQ, DSx-RSP, DSx-ACK

11.4.12.24 ARQ re-transmission limit

The value of this parameter will characterize the ARQ algorithm for this connection. The number is the maximum number of times an MPDU can be re-trasnsmitted before it must be dropped. This limit enables connections that must satisfy a certain latency constraint to take advantage of ARQ in a way that will limit the resulting latency. The TLV fields are

TYPE: [24/25].24

Length: 1

Value: 0 - 127 (re-transmission count)

SCOPE: Configuration File, REG-REQ, REG-RSP, DSx-REQ, DSx-RSP, DSx-ACK

11.4.12.25 ARQ acknowledge window size

The value of this parameter will characterize the ARQ algorithm for this connection. The number is the size of the acknowledgement window, which measures the amount of time (since a certain MPDU is sent until is acknowledged by the receiving party. This time includes all processing delays of both PHY and MAC at both the transmitter and the receiver. MPDUs at the sender could belong from ARQ view point to one of four types, not-sent, outstanding, acknowledged and not-acknowledged. Any MPDU begins as not-sent. When it is sent it becomes outstanding for an acknowledgement window duration, after which it either is acknowledged, or becomes not-acknowledged. The ARQ algorithm defines the following policy that if any not-acknowledged MPDUs exist, they should be transmitted at the next transmission opportunity, otherwise a not-sent MPDU should be sent. The TLV fields are

TYPE: [24/25].25

Length: 4

Value: 0 - 2³² (microseconds)

SCOPE: Configuration File, REG-REQ, REG-RSP, DSx-REQ, DSx-RSP, DSx-ACK'

Reason:

Complete missing information on the ARQ algorithm parameters specified in the MAC-CREATE-CONNECTION messages (section 6.1.1),

and define the TEVS fleeded to communicate the information required in these messages across the air interface. Member Comment submitted by: Kenneth Stanwood 11-366 Comment # Starting Page Number 335 Technical, Binding Starting Line Number 17 Section 11.4.12 Service Flow Type Licardie Editor Suggested Change: Add a TLV for whether or not the MAC layer CRC is added to each PDU. Reason: There is currently no way to specify whether the CRC is turned on for a connection. Member Comment submitted by: Carl Eklund 11-367 Comment # Editorial Starting Page Number 337 Starting Line Number 48 Annex A Section Type Marks Editor Suggested Change: Delete entire annex Reason: It does not belong in the document. Also the text is outdated and confusing. Comment submitted by: Vicente Observer 11-368 Quilez Comment # Editorial Starting Page Number 337 Starting Line Number 61 **A.1** Type Section Editor Marks Suggested Change: Change the line starting "The IEEE802.16.1 standard" by "The IEEE802.16 standard" Reason: The paragraph description is general and apply to both IEEE802.16.1 and IEEE802.16.3 Observer Comment submitted by: Vicente Quilez 11-369 Comment # Starting Page Number 339 A.2 Editorial Type Starting Line Number 8 Section Marks Editor Suggested Change: In figure 159, second row last column, change "802.16 P-MP Radio" by "802.16.1 P-MP Radio". Reason:

The row description fits to "IEEE802.16.1 products" more than "IEEE802.16.3 products"

Comment #	11-370	Comment s	ubmitted by:	Vicente		Quilez			Observer
Type	Editorial		Starting Pag	e Number	339	Starting Line Number	13	Section	A.2
Suggested C	hange:							Editor	Marks
In figure 15	9, third row	last column,	change "802. ⁻	16 P-MP R	Radio" b	y "802.16.3 P-MP Ra	dio".		
Reason:									
The row description fits to "IEEE802.16.3 products" more than "IEEE802.16.1 products"									
Comment #	11-371	Comment s	ubmitted by:	Carl		Eklund			Member
Type	Editorial		Starting Pag	e Number	1	Starting Line Number	1	Section	all
Suggested C	hange:							Editor	

Incorporate the changes shown in contribution IEEE 802.16.1c-00/06. Green signifies added text, blue deleted.

Reason:

A better separation of PHY and MAC has been agreed on. Work on it started in San Diego but was not finished in time for the latest release of the draft.