

## IEEE 802.16.1: Action Report on Comment Resolution at Session #11: 2001/02/18

Comment # 11-1      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 5      Starting Line Number 61      Section TOC

Change "Sub-layer" to "Sublayer" and similar incidences throughout the document (e.g., page 7, line 12).

**Reason**  
In the document, "Sub-layer" is used in some places and "Sublayer" is used in others. Make them consistent.

**Resolution of Group**      **Decision of Group**      Accept

**Reason for Decision/Resolution**

**Group's Notes**  
Action: Comment 371 must be completed prior to any other comment resolutions being integrated in the document.

**Editor's Notes**      **Editor's Actions**      e) done

Comment # 11-2      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 16      Starting Line Number 10      Section 1.3

To suppress from the text the suffix ".1" to "802.16", as well as from the figure title.  
To include the text "[1,3..]" in the figure for remarking the distinct possible flavors of Physical 802.16 layer.

**Reason**  
To maintain coherence with the generic protocol relationship intended to be shown with the figure.

**Resolution of Group**      **Decision of Group**      Reject

**Reason for Decision/Resolution**  
Defer first part pending decision on PAR renumbering. Reject second part for consistency (PHYs of other 802 standards are not numbered in the figure.)

**Group's Notes**  
Revisit following PAR number revisions.

**Editor's Notes**      **Editor's Actions**      e) done

Changes made by editor in accordance with new PAR numbering scheme adopted at Session #11.

Comment # 11-3      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 17      Starting Line Number 3      Section 1.3

To include in the standards enumeration the following ones:

- ANSI/IEEE Std 802.5
- ANSI/IEEE Std 802.6

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-4      Comment submitted by: Antonis Karvelas      Neither

Change      Type Technical      Starting Page Number 19      Starting Line Number 35      Section 3

You must add the downstream in the definition of the burst profile. Add the word downstream in the sentence "Set of parameters that describe the upstream transmission..". The correct is "Set of parameters that describe the upstream and downstream transmission ..".

**Reason**

The term "burst profile" is used not only for upstream but also for downstream.

Resolution of Group      Decision of Group      Accept-Modified

change "and" for "or" in recommended wording.

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-5      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 19      Starting Line Number 35      Section 3

To delete "upstream" from the sentence "Burst Profile: Set of parameters that describe upstream transmission properties.."

**Reason**

The definition of Burst Profile is generic to both upstream and downstream.

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see comment 4.

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-6      Comment submitted by: Kenneth Stanwood      Member

Change      Type Technical      Starting Page Number 19      Starting Line Number 41      Section 3 Definitions

See IEEE 802.16.1c-01/04r0 for description of changes for packing multiple SDUs into a single PDU in presence of fragmentation and of higher layer protocol type.

**Reason**

See IEEE 802.16.1c-01/04r0 for explanation of need for packing multiple SDUs into a single PDU in presence of fragmentation and of higher layer protocol type.

Resolution of Group      Decision of Group      Accept-Clarified

Ken will provide changes to the above mentioned document that will also require inclusion for this edit.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Figures need to be edited and redrawn in FM format.

Need to check and/or fix TLV types (for entire section)

Comment # 11-7      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 19      Starting Line Number 64      Section 3.11

Change "a SS" to "an SS" and all similar incidences throughout the document (e.g., page 20, line 14).

**Reason**

Grammatical error.

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-8      Comment submitted by: Coleman Hum      Member

Change      Type Editorial      Starting Page Number 20      Starting Line Number 23      Section 3.18

move Section 3.18 before 3.15

**Reason**

Alphabetical ordering

Resolution of Group      Decision of Group Accept-Modified

also move 3.19 to meet alphabetical ordering.

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-9      Comment submitted by: Coleman      Hum      Member

Change      Type Editorial      Starting Page Number 20      Starting Line Number 26      Section 3.19

move Section 3.19 before 3.15

**Reason**

Alphabetical ordering

Resolution of Group      Decision of Group      Accept-Duplicate

Reason for Decision/Resolution

**Group's Notes**

see comment 8.

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-10      Comment submitted by: Stanley      Wang      Neither

Change      Type Technical, Binding      Starting Page Number 20      Starting Line Number 38      Section 3.22

Add the following definition after "Management Connection":

"Message Integrity Check (MIC): A digest which ensures that the data sent from the provisioning server were not modified en route.

**Reason**

MIC is a very important part of the registration process and should have been defined.

Resolution of Group      Decision of Group      Reject

Reason for Decision/Resolution

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

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

Change Type Technical, Binding Starting Page Number 20 Starting Line Number 39 Section 3.22

To clarify whether the mini-slot concept is also valid for the downstream in the mini-slot definition included in section 3.

**Reason**

Along the current standard content is not clear whether the mini-slot concept is applicable for the downstream subframe.

Resolution of Group Decision of Group Accept-Clarified

at the beginning of the definition, insert the word "uplink" in front of the word "bandwidth."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-12 Comment submitted by: Robert Johnson Neither

Change Type Technical Starting Page Number 20 Starting Line Number 44 Section 3.24

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

**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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

added to acronyms

Comment # 11-13      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical      Starting Page Number 20      Starting Line Number 44      Section 3.24

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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      f) none needed  
duplicate (12)

Comment # 11-14      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 20      Starting Line Number 52      Section 3.26

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.

```

+-----+
-----"   Layer-N SAP   "-----
+-----+

```

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      f) none needed  
duplicate (12)

Comment # 11-15 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 20 Starting Line Number 53 Section 3.26

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

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

**Reason**

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

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

Ranging is sufficiently defined in the section on ranging.

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-16 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 20 Starting Line Number 62 Section 3

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)

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see comment 17

Editor's Notes Editor's Actions f) none needed



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

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

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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

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

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

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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-19 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 21 Starting Line Number 1 Section 3.29

Change the end of the line to read "that provides a" instead of "that is provided a"

**Reason**

Grammatical error.

Resolution of Group Decision of Group Reject

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-20 Comment submitted by: Stanley Wang Neither

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

Add the following definition:

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.

Resolution of Group Decision of Group Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-21 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 21 Starting Line Number 36 Section 3.39

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.

Resolution of Group Decision of Group Accept-Modified

Change all occurrences of the words "upstream" and "downstream" to "uplink" and "downlink" respectively. Also delete definition numbers 3.12 and 3.43.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-22 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 21 Starting Line Number 52 Section 4

To insert the following missing abbreviations:

- PKM (Privacy Key Management)
- BNI (Base Station Network Interface)
- SNI (Subscriber Station Network Interface)
- FBWA (Fixed Broadband Wireless Access)
- TEK (Traffic Encryption Key)

**Reason**

To complete abbreviations chapter

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-23      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 21      Starting Line Number 59      Section 4

Add the following acronym:  
"CCS Common Channel Signaling"

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-24      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 21      Starting Line Number 62      Section 4

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 proposed specification for Convergence Sublayer supporting variable-length, packet-based high-layer protocols.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-25      Comment submitted by: Stanley Wang      Neither

Change      Type Technical, Binding      Starting Page Number 21      Starting Line Number 62      Section 4

Add the following acronym:  
"CLP Cell Loss Priority"

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-26      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 22      Starting Line Number 3      Section 4

Move "DL Down Link" to page 22, line 5 after "DIUC Downlink Interval Usage Code"

**Reason**

Out of order

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-27      Comment submitted by: Roger Marks      Member

Change      Type Editorial      Starting Page Number 22      Starting Line Number 21      Section 4

Delete "H-FDD Half-duplex FDD"

**Reason**

Term appears nowhere else in current draft.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-28      Comment submitted by: Stanley Wang      Neither

Change      Type    Technical, Binding      Starting Page Number 22      Starting Line Number 21      Section 4

Add the following acronym:  
"HEC Header Error Check"

**Reason**

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

Resolution of Group      Decision of Group    Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions    e) done

Comment # 11-29      Comment submitted by: Stanley Wang      Neither

Change      Type    Technical, Binding      Starting Page Number 22      Starting Line Number 28      Section 4

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.

Resolution of Group      Decision of Group    Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions    e) done

Comment # 11-30      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 22      Starting Line Number 42      Section 4

Add the following acronym:  
"PCI Protocol Control Information"

**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.

Resolution of Group      Decision of Group      Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-31      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 22      Starting Line Number 42      Section 4

Add the following acronym:  
"NNI Network to Network Interface (or Network Node Interface)"

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-32      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 22      Starting Line Number 43      Section 4

Add the following acronym:  
"PCI Protocol Control Information"

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-33      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 22      Starting Line Number 45      Section 4

Add the following acronyms:

"PHS Payload Header Suppression"  
"PHSF Payload Header Suppression Field"  
"PHSI Payload Header Suppression Index"  
"PHSM Payload Header Suppression Mask"  
"PHSS Payload Header Suppression Size"  
"PHSD Payload Header Suppression Delay"

**Reason**

These acronyms 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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done



Comment # 11-34      Comment submitted by: Stanley Wang      Neither

Change      Type Technical, Binding      Starting Page Number 22      Starting Line Number 45      Section 4

Add the following acronym:  
"PHS Payload Header Suppression"

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-35      Comment submitted by: Robert Johnson      Neither

Change      Type Technical, Binding      Starting Page Number 22      Starting Line Number 50      Section 4

Add the following acronym:  
"PPP Point-to-Point Protocol"

**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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-36 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 22 Starting Line Number 51 Section 4

Add the following acronyms:

"PTI Payload Type Indicator"

"PVC Permanent Virtual Connection"

**Reason**

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

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-37 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 22 Starting Line Number 54 Section 4

Add "SA Security Association"

**Reason**

Per page 20, line 54, the definition of SA.

Resolution of Group Decision of Group Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-38 Comment submitted by: Robert Johnson Neither

Change Type Technical, Binding Starting Page Number 22 Starting Line Number 58 Section 4

Add the following acronym:

"SF Service Flow"

**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.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-39 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 22 Starting Line Number 61 Section 4

Add the following acronym:

"SVC Switched Virtual Connection"

**Reason**

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

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-40      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 23      Starting Line Number 5      Section 4

To correct the abbreviation "TRGTTG" with the abbreviation "TTG", and to include the abbreviation "RTG" standing for "Rx/Tx Transmission Gap"

**Reason**

"TRGTTG" does not correspond to any abbreviation in the text neither to the proposed definition. The proposed definition corresponds to the abbreviation "TTG" .

Furthermore, the counterpart to "TTG", i.e. "RTG" is not listed.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-41      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 23      Starting Line Number 6      Section 4

Move "UIUC Uplink Interval Usage Code" to page 23, line 11 after "UGS-AD Unsolicited Grant Service with Activity Detection"

**Reason**

Out of order

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-42      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 23      Starting Line Number 7      Section 4

Delete "DIUC Downlink Interval Usage Code"

**Reason**

Already defined on page 22, line 5.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-43      Comment submitted by: Stanley Wang      Neither

Change      Type Technical      Starting Page Number 23      Starting Line Number 13      Section 4

Add the following acronyms:

"UNI User to Network Interface"

"VC Virtual Channel"

"VCI Virtual Channel Identifier"

"VP Virtual Path"

"VPI Virtual Path Identifier"

**Reason**

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

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-44      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 24      Starting Line Number 1      Section 5.1

Replace section 5.1 of IEEE 802.16.1/D1-2000 with section 6 of IEEE 802.16.1c-01/01. Renumber the section and subsection numbers accordingly.

**Reason**

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

Resolution of Group      Decision of Group      Accept-Modified

Stanley Wang will provide new text for this section.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

As agreed, Stanley Wang provided new text for this section.

Comment # 11-45      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 24      Starting Line Number 23      Section 5.2

Replace sections 5.2 and 5.3 with the content from this Packet CS contribution (IEEE 802.16.1c-01/02) starting with the section labeled "Reference Model" (on page 7) and ending with the section labeled "Common Sublayer" (on page 18, which end on page 21 before the section labeled "TLV Encodings").

**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.

Resolution of Group      Decision of Group      Accept-Modified

**Reason for Decision/Resolution****Group's Notes**

Carl Eklund will provide modified document for insertion.

Editor's Notes      Editor's Actions      e) done

As agreed, Carl Eklund provided modified document for insertion.

Comment # 11-46 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 25 Starting Line Number 31 Section 6

Replace "minimizes contention" with "allocates capacity"

**Reason**

The protocol does not minimize contention.

Resolution of Group Decision of Group Accept-Modified

Replace "minimizes contention" with "controls contention"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-47 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 25 Starting Line Number 60 Section 6

Change "A SS" to "An SS" and similar incidences throughout the document (e.g., page 38, line 42).

**Reason**

Grammatical error.

Resolution of Group Decision of Group Accept-Duplicate

Search for occurrences of SS. If preceded by "A" or "a" change to "An" or "an" respectively.

**Reason for Decision/Resolution**

MS Word's grammar checker prefers "an SS"

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

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

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

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 undoubtedly determine which is the one supporting the listed primitives.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

Clarification now that we have both a MAC and a PHY SAP.

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

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

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

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      e) done



Comment # 11-50      Comment submitted by: Stanley Wang      Neither

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

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-51      Comment submitted by: Stanley Wang      Neither

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

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

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

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

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-53      Comment submitted by: Robert Johnson      Neither

Change      Type Technical, Binding      Starting Page Number 28      Starting Line Number 59      Section 6.1.1.1.2

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.

Resolution of Group      Decision of Group      Accept

accept as is.

**Reason for Decision/Resolution**

Even though this is a technical comment stimulated by the Packet CS proposal, it is useful for this logical MAC-SAP interface to abstract the parameters of the primitives into larger groups.

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-54      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 28      Starting Line Number 60      Section 6.1.1.1.2

Add the following lines:

"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.

Resolution of Group      Decision of Group      Accept-Duplicate  
discuss when packing proposal is discussed.

**Reason for Decision/Resolution**

**Group's Notes**

see comment 55

Editor's Notes      Editor's Actions      f) none needed  
check

Comment # 11-55      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 28      Starting Line Number 60      Section 6.1.1.2

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-56 Comment submitted by: Coleman Hum Member

Change Type Technical Starting Page Number 28 Starting Line Number 65 Section 6.1.1.1.2

ARQ parameters (optional)

**Reason**

ARQ is optional.

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

This is really an editorial comment. ARQ on/off is not optional. There are other parameters that are optional depending upon whether ARQ is on or off.

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-57 Comment submitted by: Robert Johnson Neither

Change Type Technical, Binding Starting Page Number 29 Starting Line Number 16 Section 6.1.1.1.2

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.

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see comment 58

Editor's Notes Editor's Actions f) none needed

Comment # 11-58      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 29      Starting Line Number 16      Section 6.1.1.2

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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-59      Comment submitted by: Carl Eklund      Member

Change      Type      Technical      Starting Page Number 29      Starting Line Number 20      Section 6.1.1.1.2

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

Resolution of Group      Decision of Group      Accept

"CRC request, if ON, requests that the MAC SDUs delivered over this connection are transported in MAC PDUs with a CRC added to them."

Reason for Decision/Resolution

This is actually more editorial in nature. As Carl pointed out, the current text is wrong. Additionally, with the support there appears to be for packing, the change is warranted even more.

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-60      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 29      Starting Line Number 20      Section 6.1.1.1.2

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.

Resolution of Group      Decision of Group      Accept-Duplicate  
use change proposed in 59

**Reason for Decision/Resolution**

59 has specific wording for the change.

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-61      Comment submitted by: Yigal Leiba      Member

Change      Type Editorial      Starting Page Number 29      Starting Line Number 24      Section 6.1.1.1.2

Add explanation for the ARQ-parameters field in the MAC-CREATE-CONNECTION.request message. The explanation 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) explanation for one of the MAC-CREATE-CONNECTION.request message fields.

Resolution of Group      Decision of Group      Accept  
Use the wording provided here by Yigal.

**Reason for Decision/Resolution**

Clears up coments56 and 62

**Group's Notes**

Editor's Notes      Editor's Actions      e) done  
minor edits done

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

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

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.

Resolution of Group      Decision of Group      Accept-Duplicate

Use wording proposed in 61.

**Reason for Decision/Resolution**

61 provides specific wording.

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-63      Comment submitted by: Vicente      Quilez      Observer

Change      Type      Editorial      Starting Page Number 29      Starting Line Number 25      Section 6.1.1.1.2

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.

Resolution of Group      Decision of Group      Accept-Duplicate

Use wording proposed in 61.

**Reason for Decision/Resolution**

61 provides specific wording.

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-64 Comment submitted by: Robert Johnson Neither

Change Type Technical Starting Page Number 30 Starting Line Number 1 Section 6.1.1.2.2

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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

Same reason as 53.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-65 Comment submitted by: Coleman Hum Member

Change Type Technical Starting Page Number 30 Starting Line Number 8 Section 6.1.1.2.2

ARQ parameters (optional)

**Reason**

ARQ is also not returned.

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

ARQ On/Off verification required at a minimum.

**Group's Notes**

Editor's Notes Editor's Actions f) none needed



Comment # 11-66      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 30      Starting Line Number 20      Section 6.1.1.2.4

Change ".RESPONSE primitive" to ".response primitive"

Reason  
Consistency issue (per its original definition on page 27, line 45)

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution  
consistency in document

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-67      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 30      Starting Line Number 34      Section 6.1.1.3.1

Change ".INDICATION" to ".indication"

Reason  
Consistency issue (per its original definition on page 27, line 44).

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution  
consistency in document

Group's Notes

Editor's Notes      Editor's Actions      e) done  
also in section header

Comment # 11-68      Comment submitted by: Stanley Wang Neither

Change      Type Editorial      Starting Page Number 31      Starting Line Number 20      Section 6.1.1.4.1

Change "fro" to "for"

Reason

Typo

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

typo

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-69      Comment submitted by: Stanley Wang Neither

Change      Type Editorial      Starting Page Number 31      Starting Line Number 37      Section 6.1.1.4.2

Change ".response" to ".response."

Reason

Punctuation error. Missing "." at the end of the sentence.

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

typo

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-70      Comment submitted by: Coleman      Hum      Member

Change      Type Editorial      Starting Page Number 31      Starting Line Number 61      Section 6.1.1.5

Change AC to MAC

**Reason**

Dropped Letter

Resolution of Group      Decision of Group Accept

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes      Editor's Actions e) done

Comment # 11-71      Comment submitted by: Vicente      Quilez      Observer

Change      Type Editorial      Starting Page Number 31      Starting Line Number 61      Section 6.1.1.5

To add a "M" to "AC-CHANGE-.." resulting on "MAC-CHANGE-.."

**Reason**

A character is missing.

Resolution of Group      Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

duplicate with 70

**Group's Notes**

Editor's Notes      Editor's Actions f) none needed

Comment # 11-72      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 33      Starting Line Number 39      Section 6.1.1.8.3

Change ".INDICATION" to ".indication"

**Reason**

Consistency issue (per its original definition on page 27, line 44).

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed  
duplicate (67)

Comment # 11-73      Comment submitted by: Robert Johnson      Neither

Change      Type Technical, Binding      Starting Page Number 34      Starting Line Number 38      Section 6.1.1.10.2

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.

Resolution of Group      Decision of Group      Accept

defer to discussion of ATM and packet convergence sublayers

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed  
deferred

Comment # 11-74      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 34      Starting Line Number 38      Section 6.1.1.10.2

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.

Resolution of Group      Decision of Group      Accept-Duplicate  
defer to discussion of ATM and packet convergence sublayers

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed  
deferred

Comment # 11-75      Comment submitted by: Carl Eklund      Member

Change      Type      Technical      Starting Page Number 34      Starting Line Number 49      Section 6.1.1.10.2

Delete sentence "The length .."

**Reason**

There is no need for limiting the size of the MSDU as fragmentation exists.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-76      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 34      Starting Line Number 52      Section 6.1.1.10.2

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.

Resolution of Group      Decision of Group      Accept

defer to discussion of ATM and packet convergence sublayers

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done  
deferred

Comment # 11-77      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 34      Starting Line Number 52      Section 6.1.1.10.2

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.

Resolution of Group      Decision of Group      Accept-Duplicate

defer to discussion of ATM and packet convergence sublayers

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done  
deferred

Comment # 11-78      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 35      Starting Line Number 1      Section 6.2.1

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.

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-79      Comment submitted by: Robert Johnson      Neither

Change      Type Technical, Binding      Starting Page Number 35      Starting Line Number 29      Section 6.1.1.11.2

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

to be deferred?

Comment # 11-80      Comment submitted by: Stanley      Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 35      Starting Line Number 29      Section 6.1.1.11.2

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.

**Resolution of Group**      **Decision of Group**      Accept-Duplicate  
defer to discussion of ATM and packet convergence sublayers

**Reason for Decision/Resolution**

**Group's Notes**

**Editor's Notes**      **Editor's Actions**      f) none needed



Comment # 11-81 Comment submitted by: Kenneth Stanwood Member

Change Type Technical, Binding Starting Page Number 35 Starting Line Number 59 Section 6.2 Data/Control

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

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

Resolution of Group Decision of Group Accept-Modified

follow new intructions in file name "Revised changes for comment 11-81.doc":

follow new intructions in file name "Revised changes for comment 11-81.doc":

Revised changes for comment 11-81:

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 Addressing and Connections

Modify this moved text:

Page 286, line 57-62 replace the paragraph with: "Connections are identified by a 16-bit Connection Identifier (CID). At SS initialization, 3 management connections in each direction (uplink and downlink) shall be established between the SS and the BS. These CIDs shall be assigned in the REG-RSP message and reflect the fact that there are inherently 3 different QoS of management traffic between an SS and the BS. The Basic Connection is used by the BS MAC and SS MAC to exchange short, time urgent MAC Management messages. The Primary Management Connection is used by the BS MAC and SS MAC to exchange longer, more delay tolerant MAC Management Messages. Table 2 specifies which MAC Management Messages are transferred on which of these two connections. Finally, the Secondary Management Connection is used by the BS and SS to transfer delay tolerant, standards based (DHCP, TFTP, SNMP, etc.)

management messages. The Secondary Management Connection shall use the Ethernet Convergence Sublayer.

2. On page 42, line 39 add a column titled "Connection" to Table 2. This column is filled out as shown below for each message:

**Reason for Decision/Resolution**

**Group's Notes**

See document "Revised changes for comment 11-81.doc"

**Editor's Notes**    **Editor's Actions**    e) done

**Comment #** 11-82      **Comment submitted by:** Stanley    Wang    Neither

**Change**      **Type** Technical, Binding      **Starting Page Number** 36      **Starting Line Number** 2      **Section** 6.2.1

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 divided into subsections corresponding to different service-specific specifications.

**Resolution of Group**      **Decision of Group**    Accept-Modified

Delete the 2 sentences referenced in the comment

**Reason for Decision/Resolution**

**Group's Notes**

**Editor's Notes**    **Editor's Actions**    e) done

**Comment #** 11-83      **Comment submitted by:** Stanley    Wang    Neither

**Change**      **Type** Editorial      **Starting Page Number** 36      **Starting Line Number** 3      **Section** 6.2.1

Change the sentence to read ".. components are defined .." instead of ".. components is defined .."

**Reason**

Grammatical error.

**Resolution of Group**      **Decision of Group**    Reject

**Reason for Decision/Resolution**

**Group's Notes**

**Editor's Notes**    **Editor's Actions**    f) none needed

Comment # 11-84 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 36 Starting Line Number 9 Section 6.2.1

Add sentence:"In the figures the bits are numbered starting from the msb with the msb being number 0"

**Reason**

This is a source for endless confusion. As far as I understand it the the EC bit is the first to be transmitted.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done  
spelled out MSB

Comment # 11-85 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 36 Starting Line Number 23 Section 6.2.1

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.

Resolution of Group Decision of Group Accept-Clarified

Replacing sentence should read "When a connection is designated as requiring CRC every MAC PDU shall include a CRC-32 checksum as defined in <reference to ISO 8802-3>". Table 1 line 53 should read "The length in bytes of the MAC PDU". Add the reference

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done  
check reference

Comment # 11-86      Comment submitted by: Robert Johnson      Neither

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

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.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

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

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

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

**Reason**

Consistency issue (all other reserved fields are shaded).

Resolution of Group      Decision of Group      Accept-Clarified

shade

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-88      Comment submitted by: Stanley Wang      Neither

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

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.

Resolution of Group      Decision of Group    Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions    f) none needed

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

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

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.

Resolution of Group      Decision of Group    Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions    e) done

Comment # 11-90      Comment submitted by: Stanley Wang      Neither

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

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.

Resolution of Group      Decision of Group      Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-91      Comment submitted by: Carl Eklund      Member

Change      Type      Editorial      Starting Page Number 38      Starting Line Number 6      Section 6.2.1

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 discard 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

Resolution of Group      Decision of Group      Accept-Clarified

Change the paragraph to read "The third header format is used for MAC PDUs by which an SS requests bandwidth. These 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 PDU must have the following properties:" In addition to this, lines 33 & 34 are to be deleted.

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-92 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 39 Starting Line Number 8 Section 6.2.1

To add the Grant Management field description into the table.

**Reason**

To completely define all the MAC Header Files the Grant Management field description should be included

Resolution of Group Decision of Group Accept-Modified

Create a new table, table 2, containing the following rows moved from table 1: GPI, PBR, PM and SI. The new table shall be named "Grant Management Field." Add row to table 1 for Grant Management field. The definition will be a reference to the new table and figure 5.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-93 Comment submitted by: Kenneth Stanwood Member

Change Type Technical Starting Page Number 39 Starting Line Number 13 Section 6.2.1 Message

On page 39, line 13 add the following sentence to the Description for BR field:

"For GPT SS's, if the most significant bit of the Bandwidth request field is set to 1, the request is an aggregate request to reset the BS's perception of the connection's bandwidth needs.

**Reason**

Per previous agreement and section "6.2.2.2.1 Requests", GPT SSs periodically make aggregate requests, but the mechanism for flagging a request as aggregate was left out.

Resolution of Group Decision of Group Accept-Modified

In figure 7, change bits 1 and 2 to contain "EKS=00." Bit 3 will be marked as "Rsvd." Bit 0 should be "EC=1." Bit 4 shall be called "AR." Add the definition of the AR bit definition to table 1 in a new row. The contents of the row shall be "AR | 1 | Aggregate Request <cr>A value of 1 indicates an aggregate request. A value of 0 indicates an incremental request.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-94      Comment submitted by: Robert Johnson      Neither

Change      Type      Technical, Binding      Starting Page Number 39      Starting Line Number 19      Section 6.2.1

Add the following new row to the table:

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

**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.

Resolution of Group      Decision of Group      Accept-Modified

Add a new row into table 1 containing "CPT | 3 | For the convergence sublayer to pass information to its peer convergence sublayer. These bits are ignored by the MAC CPS."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-95      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 39      Starting Line Number 19      Section 6.2.1

Add the following new row to the table:

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

**Reason**

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

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see comment 94.

Editor's Notes      Editor's Actions      f) none needed



Comment # 11-96 Comment submitted by: Coleman Hum Member

Change Type Technical Starting Page Number 39 Starting Line Number 42 Section 6.2.1

The unsolicited grant size in bytes per interval required by a connection UGS with Activity Detection

**Reason**

Need to define the units for a grant.

Resolution of Group Decision of Group Accept-Clarified

Also add references to sections "11.4.12.18 Unsolicited Grant Size," "11.4.12.19 Nominal Grant Interval" and "11.4.12.21 Grants per Interval."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done  
make refs dynamic

Comment # 11-97 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 40 Starting Line Number 18 Section 6.2.1

Move the entire row for "CI" to page 39, line 15 after the row for "BR"

**Reason**

Out of order

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-98      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 40      Starting Line Number 22      Section 6.2.1

Move the entire row for "PDE" to page 40, line 10 after the row for "PBR"

**Reason**

Out of order

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-99      Comment submitted by: Coleman Hum      Member

Change      Type Technical      Starting Page Number 40      Starting Line Number 28      Section 39

Need ARQ proposal?

**Reason**

Requires more detail on the mechanism such as how retransmits are requested, timeouts, etc. The MAC headers need to show the optional ARQ bytes.

Resolution of Group      Decision of Group      Reject

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-100      Comment submitted by: Vicente      Quilez      Observer

Change      Type Editorial      Starting Page Number 40      Starting Line Number 28      Section 6.2.1

To insert a more descriptive text and provide some explanation diagrams about the ARQ mechanism foreseen in the standard.

**Reason**

The description contained in the text only take into account the behaviour of the transmitter side, but it is also necessary to describe the receiver side behaviour (e.g., behaviour when receiving wrong packets, etc)

**Resolution of Group      Decision of Group      Accept-Modified**

Create a new level four subsection at the end of the level three section "6.2.2 Access Methods." The new section shall be labeled as "ARQ Mechanism." This section shall contain "For future study." Add "ARQ Automatic Retransmit Request" to the Acronym

**Reason for Decision/Resolution**

The ARQ mechanism to be used, if any, has not yet been decided upon. The new section is set as a place holder for future use.

**Group's Notes**

**Editor's Notes      Editor's Actions      e) done**  
must confirm

Comment # 11-101      Comment submitted by: Carl      Eklund      Member

Change      Type Technical      Starting Page Number 40      Starting Line Number 30      Section 6.2.1

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.

**Resolution of Group      Decision of Group      Accept-Clarified**

delete

**Reason for Decision/Resolution**

**Group's Notes**

**Editor's Notes      Editor's Actions      e) done**

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

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

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.

Resolution of Group      Decision of Group      Accept-Clarified

Change the word "packet" to "payload." This change should be made throughout the paragraph.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed  
superceded (101)

Comment # 11-103      Comment submitted by: Yigal Leiba      Member

Change      Type      Editorial      Starting Page Number 40      Starting Line Number 34      Section 6.2.1

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).

Resolution of Group      Decision of Group      Reject

**Reason for Decision/Resolution**

**Group's Notes**

comment 100 makes this comment unnecessary.

Editor's Notes      Editor's Actions      f) none needed

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

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

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.

Resolution of Group Decision of Group Accept-Modified

Remove section "6.2.1.1.1 Convergence Sublayer PDU formats." Also modify the title of the next section to "Encryption of MAC layer PDUs." At the end of line 23 on page 41, the following sentence should be added: "If CRC is enabled, the CRC shall be calculated on the ciphertext."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-105 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 41 Starting Line Number 47 Section 6.2.1.1.2

Change "a SA" to "an SA" and similar incidences throughout the document (e.g., page 41, line 47 again).

**Reason**

Grammatical error.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-106 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 41 Starting Line Number 47 Section 6.2.1.1.2

Change "a SA" to "a Security Association (SA)".

**Reason**

SA appears for the first time and should be spelled out.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-107 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Binding Starting Page Number 43 Starting Line Number 15 Section 6.2.1.2

Delete of define somewhere in the standard the DCC-REQ and DCC-RSP MAC Management messages.

**Reason**

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

Resolution of Group Decision of Group Accept-Modified

Insert new subsections within the "6.2.1.2 MAC Management Messages" to be used for the definitions of "Dynamic Channel Change-Request (DCC-REQ) Message" and "Dynamic Channel Change-Response (DCC-RSP) Message." The contents of these sections are to be left as TBD.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

On page 43, line 23 add:

24 DBTC-RSP Downlink Burst Type Change Response

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

Comment 11-108: Technical, Binding Change 43 23 6.2.1.2 MAC (DBTC-RSP) M... 11-108

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.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Must confirm.

Comment # 11-109 Comment submitted by: Kenneth Stanwood Member

Change Type Technical Starting Page Number 43 Starting Line Number 25 Section 6.2.1.2 Management

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.

**Reason**

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

Currently the SS physical layer capabilities are reported to the BS in the REG-REQ message. This message, unfortunately, is preceded by 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 GBC or GBT. Since some of the interaction to this point should happen on the SSs

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Must confirm.



Comment # 11-110 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 43 Starting Line Number 33 Section 6.2.1.2.1

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.

Resolution of Group Decision of Group Accept-Modified

change end of sentence to "..active uplink channel associated with the downlink channel."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-111 Comment submitted by: Vladimir Yanover Observer

Change Type Editorial Starting Page Number 44 Starting Line Number 46 Section 6.2.1.2.1

Remove all the definition of the parameters set of UCD message 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

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

See comment 371

Editor's Notes Editor's Actions f) none needed

Comment # 11-112      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 44      Starting Line Number 57      Section 6.2.1.2.1

To define the meaning of "PHY types=(0,1)" previously to mention it.

**Reason**

It is necessary to introduce the concept and notation of PHY types previously to be used in the text.

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see comment 371

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-113      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 45      Starting Line Number 1      Section 6.2.1.2.1

To insert "Figure 12" just between "UL-MAP Message." and "illustrates"

**Reason**

Missing word

Resolution of Group      Decision of Group      Accept-Clarified

add cross-reference to figure 12.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-114 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 47 Starting Line Number 16 Section 6.2.1.2.2

To explicitly describe the characteristics of TDM Burst type 1

**Reason**

In the Comments column, it is necessary to explicitly describe what is meant by well known, i.e. what are the characteristics of TDM burst type 1

Resolution of Group Decision of Group Accept-Modified

From table 3, split the row that is currently marked as reserved into row 6 and row 7. Next rename the first column from row 0 to 11 as "Downlink Burst Type 1" through "Downlink Burst Type 12." Rows 12 and 13 shall be reserved. Finally, remove the third column, "Comments."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-115 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 47 Starting Line Number 40 Section 6.2.1.2.2

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.

Resolution of Group Decision of Group Accept-Modified

Add the following sentences on page 47, line 44: "The Gap Downlink Burst Type (DIUC=14) indicates a silent interval in downlink transmission. It is well-known and shall not be defined in the DCD message."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-116 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Non-binding Starting Page Number 48 Starting Line Number 28 Section 6.2.1.2.2

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.

Resolution of Group Decision of Group Accept-Modified

make maximum of 10 seconds instead of 2 seconds. This change is to be made for both UCD (page 284, line 20) and DCD (page 284, line 17) intervals.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-117 Comment submitted by: Vladimir Yanover Observer

Change Type Editorial Starting Page Number 48 Starting Line Number 32 Section 6.2.1.2.3

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

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see comment 371

Editor's Notes Editor's Actions f) none needed

Comment # 11-118 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 48 Starting Line Number 35 Section 6.2.1.2.2

Make irrelevant TLVs optional in the burst descriptors

**Reason**

There is little use for a Mode A BS to tell  $10^6$  times during its lifetime that it doesn't support BTCs. Same comment applies for page 45 line 38 and I am too lazy to start a new comment document for this duplicated comment.

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

PHY should take care of it.

Editor's Notes Editor's Actions f) none needed

Comment # 11-119 Comment submitted by: Coleman Hum Member

Change Type Editorial Starting Page Number 49 Starting Line Number 26 Section Figure 15

Type 5)

**Reason**

missing closing bracket

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

comment 371 has taken care of it

Editor's Notes Editor's Actions f) none needed

Comment # 11-120 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 49 Starting Line Number 26 Section 6.2.1.2.3

To correct the figure changing "PHY Type 5" by "Phy Type 2"

**Reason**

To avoid inconsistency

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

371

Editor's Notes Editor's Actions f) none needed

Comment # 11-121 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 49 Starting Line Number 53 Section 6.2.1.2.3

Insert text" -Length: If the length of the DL-MAP message is a non-integer number of byte the Length field in the MAC header is reported as  $\lceil$  length of the DL-MAP message  $\rceil$  [latex notation]. The message must be padded to match this length but the SS must disregard the 4 pad bits"

**Reason**

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

Resolution of Group Decision of Group Accept-Clarified

Insert text" -Length: If the length of the DL-MAP message is a non-integral number of byte the Length field in the MAC header is rounded up to the next integral number of bytes. The message must be padded to match this length but the SS must disregard the 4 pad bits"

**Reason for Decision/Resolution**

**Group's Notes**

$\lceil$  ..  $\rceil$  is equivalent to the ceiling operator, i.e., round up to nearest integer.

Editor's Notes Editor's Actions e) done

Comment # 11-122      Comment submitted by: Vladimir Yanover      Observer

Change      Type Editorial      Starting Page Number 49      Starting Line Number 54      Section 6.2.1.2.3

Remove all the definition of the parameters set of PHY synchronization field to the PHY section

**Reason**

This is a part of MAC-PHY separation process. Removing (to PHY section) of the constant frame length condition is especially important.

Resolution of Group      Decision of Group      Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

[comment 371](#)

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-123      Comment submitted by: Carl Eklund      Member

Change      Type Editorial      Starting Page Number 55      Starting Line Number 14      Section 6.2.1.2.5

Add UIUC=0 reserved to table 4

**Reason**

UIUC=0 is not defined

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done

Comment # 11-124 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 56 Starting Line Number 15 Section 6.2.1.2.5

To add a "l" to "Til"

**Reason**

Missing letter

Resolution of Group Decision of Group Accept

use the word "until" instead. This must also be reflected on line 48.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-125 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 56 Starting Line Number 32 Section 6.2.1.2.5

To delete "is" from "Initialization CID if SS is has not yet.", and correction of "..both dowlink and downlink.." by ".. both downlink and uplink.."

**Reason**

To correct wording errors in the text

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-126 Comment submitted by: Carl Eklund Member

Change Type Editorial Starting Page Number 56 Starting Line Number 38 Section 6.2.1.2.5

The text if sent.. should not be a part of the itemized list

**Reason**

List is about CIDs in the initial maintenance intervals.

Resolution of Group Decision of Group Accept-Clarified  
turn e) into a stand alone paragraph instead of a bulleted item.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-127 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Binding Starting Page Number 56 Starting Line Number 45 Section 6.2.1.2.5

In sentence :

"The identifier of the downlink channel on which the SS received the DCD which described this uplink."  
replace the DCD with UCD.

**Reason**

The Uplink channel is described by the UCD and not the DCD MAC Management messages.

Resolution of Group Decision of Group Accept-Modified  
Replace the sentence with: "The identifier of the downlink channel on which the SS received the UCD which described the uplink on which this ranging request message will be transmitted."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-128 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 56 Starting Line Number 46 Section 6.2.1.2.5

To change the sentence: .. the DCD which described this uplink.  
by the sentence: .. the DCD which described this downlink.

**Reason**

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

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-129 Comment submitted by: Vladimir Yanover Observer

Change Type Editorial Starting Page Number 58 Starting Line Number 2 Section 6.2.1.2.7

Replace "Requested DL Modulation Maximum Modulation Type Supported" with "Requested range of DL PHY parameters"

**Reason**

This is a part of MAC-PHY separation process. In e.g. 802.11a/HIPERLAN PHY the Maximum Modulation Type does not define the highest possible data rate, the rate depends also on the FEC rate (1/2, 2/3 etc.)

Resolution of Group Decision of Group Accept-Modified

Replace "Requested DL Modulation Maximum Modulation Type Supported" to "Granted downlink burst type." This requires that the same change be made on page 294, lines 40-43. The corresponding value field on page 294 must be replaced with "This parameter is sent in response to the RNG-REQ Requested Downlink Burst Type parameter. It contains the DIUC to be used by the BS for transmissions to the SS."

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-130      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 58      Starting Line Number 61      Section 6.2.1.2.7

To change : Downlink Frequency Configuration settings.  
by : Downstream Frequency Configuration settings.

**Reason**

To be coherent with the title of the referenced standard section (11.4.1).

Resolution of Group      Decision of Group      Reject

**Reason for Decision/Resolution**

It was decided in another comment to use "downlink" throughout the document and to remove any occurrences of the word "downstream."

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-131      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 58      Starting Line Number 62      Section 6.2.1.2.7

To change : Uplink Channel ID configuration setting  
by ; Upstream Channel ID configuration setting.

**Reason**

To be coherent with the title of the referenced standard section (11.4.2).

Resolution of Group      Decision of Group      Reject

**Reason for Decision/Resolution**

similar reason as comment 130.

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-132      Comment submitted by: Kenneth Stanwood      Member

Change      Type      Technical, Binding      Starting Page Number 58      Starting Line Number 64      Section 6.2.1.2.7 Registration

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

1. On page 58, delete line 64.
2. On page 59, delete line 1.

**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/PSF/ACK protocol to set up connections in response to network management

**Resolution of Group      Decision of Group      Accept-Modified**

Do as mentioned in change. Also, delete lines 44 and 45 on page 282.

**Reason for Decision/Resolution**

**Group's Notes**

Ken Stanwood will provide a copy of the new figure 77.

**Editor's Notes      Editor's Actions      a) awaiting missing input**

Done, except awaiting new Figure 77. ["On page 134, line 1, replace the figure with a flowchart that better describes sending multiple DSA messages after registration."]

Comment # 11-133      Comment submitted by: Antonis Karvelas      Neither

Change      Type      Technical, Binding      Starting Page Number 59      Starting Line Number 8      Section 6.2.1.2.7

Delete the Downlink Modulation Configuration Setting and also the 11.4.4 section.

**Reason**

This setting doesn't exist in the Configuration File based on the 9.2.2 section.

Resolution of Group      Decision of Group      Reject

Reason for Decision/Resolution

**Group's Notes**

already addressed by another comment by Ken Stanwood.

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-134      Comment submitted by: Vicente Quilez      Observer

Change      Type      Editorial      Starting Page Number 84      Starting Line Number 58      Section 6.2.1.2.18

To change "Request" by "Response" in the title

**Reason**

To correct the title

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

**Group's Notes**

Editor's Notes      Editor's Actions      e) done



Comment # 11-137 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 88 Starting Line Number 37 Section 6.2.1.2.22

Change the text starting from "In this case..." to ".. uses contention slots". to read "In this case the message should be sent in a more robust uplink interval. As the BS may not have have allocated such an interval the SS may send it in a Request 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

Resolution of Group Decision of Group Accept-Modified

Replace the paragraph beginning on line 34 with "The message format shall be as shown in Figure 45."

#### Reason for Decision/Resolution

#### Group's Notes

Editor's Notes Editor's Actions e) done

Delete more?

Comment # 11-138 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 88 Starting Line Number 61 Section 6.2.1.2.22

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.

Resolution of Group Decision of Group Accept-Modified

Accept comment except for the last sentence.

#### Reason for Decision/Resolution

#### Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-139 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 89 Starting Line Number 40 Section 6.2.1.4

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.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

already done

Comment # 11-140 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 90 Starting Line Number 4 Section 6.2.1.4

To insert first, thus reading "new first fragment...".

**Reason**

As it appears in the text, the description of the behaviour of the system after fragment loss is ambiguous.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done



Comment # 11-141 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 90 Starting Line Number 6 Section 6.2.1.4.1

Change "Encryption of PDU fragments" to "Encryption of fragment PDUs" and Change text to read "A PDU which is a fragment of a MSDU may have its payload encrypted. Encryption is applied after fragmentation. Likewise, decryption is applied before reassembly of the MSDU."

**Reason**

We do not intend to fragment MAC PDUs

Resolution of Group Decision of Group Accept-Clarified

Change the title of section 6.2.1.4.1 to "Encryption in the Presence of Fragmentation." Use the text above as described except replace "MSDU" with "MAC SDU".

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done  
already done

Comment # 11-142 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 90 Starting Line Number 38 Section 6.2.2.1

To change: .. of each QoS parameter is provided in 11  
by: .. of each QoS parameter is provided in 11.4.12.

**Reason**

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

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

clarification

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-143      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 90      Starting Line Number 44      Section 6.2.2.1.

The third colom of table 20 indicates whether or not the Bandwidth Stealing mechanism is allowed per each kind of service, but there is no definition on that along the standard.

The suggestion is to add the Bandwidth Stealing concept definition in section 3 (Defintions).

**Reason**

To increase the understanding of the standard.

Resolution of Group      Decision of Group      Accept-Clarified

Add definition of bandwidth stealing to section 3: "Bandwidth Stealing - Bandwidth stealing is when a GPT SS uses a portion of the bandwidth allocated in response to a bandwidth request for a connection to send another bandwidth request rather than sending data."

**Reason for Decision/Resolution**

clarification

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Definition was edited by is still hard to understand.

Comment # 11-144      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 91      Starting Line Number 29      Section 6.2.2.1.1.

To change: The Grant Management fields in the Generic MAC header (see Figure 5) is used..

by : The Grant Management fields in the Generic MAC header (see Figure 5) are used ..

or by: The Grant Management field in the Generic MAC header (see Figure 5) is used ..

**Reason**

To maintain the subject concordant with the verb of the sentence.

Resolution of Group      Decision of Group      Accept-Clarified

Accept the 3rd of the 3 suggested options.

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-145 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 91 Starting Line Number 30 Section 6.2.2.1.1.

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).

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-146 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 91 Starting Line Number 35 Section 6.2.2.1.1

Change "mismatch's" to "mismatches"

**Reason**

Typo

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-147 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 91 Starting Line Number 36 Section 6.2.2.1.1

To change: non-USG  
by: non-UGS

**Reason**

The Unsolicited Grant Service is referred as UGS.

Resolution of Group Decision of Group Accept-Modified

Also change every other occurrence in the text or figures of the term "USG" to "UGS" throughout the document.

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-148 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 91 Starting Line Number 40 Section 6.2.2.1.1.

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).

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-149 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 92 Starting Line Number 34 Section 6.2.2.1.3.

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).

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-150 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 92 Starting Line Number 35 Section 6.2.2.1.3

Change "UGS/AD" to "UGS-AD"

**Reason**

Per its definition on page 23, line 11.

Resolution of Group Decision of Group Accept-Modified

Also change USG/AD to UGS-AD on Page 92, line 8.

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

changed in 5 places

Comment # 11-151 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 92 Starting Line Number 36 Section 6.2.2.1.3

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).

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-152 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 92 Starting Line Number 38 Section 6.2.2.1.3

Change "UGS/AD" to "UGS-AD"

**Reason**

Per its definition on page 23, line 11.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-153 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 94 Starting Line Number 1 Section 6.2.2.2.1

In the sentence: ..GPT mode most requests are incremental, but the SS periodically issues aggregate requests..  
to add the proper references to the messages used to distinguish between both kind of requests (incremental or aggregate).

**Reason**

To ease the understanding of both kind of request mechanisms at GPT mode, as well as how this different mechanisms work

Resolution of Group Decision of Group Accept-Duplicate

The text to fix this is in comment 93.

**Reason for Decision/Resolution**

Fill hole in how to do this function.

**Group's Notes**

see comment 93

Editor's Notes Editor's Actions f) none needed

Comment # 11-154 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 94 Starting Line Number 3 Section 6.2.2.2.1

Add "." to the end of the line.

**Reason**

Punctuation error.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-155 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 96 Starting Line Number 5 Section 6.2.2.2.1.2.

There are several arrows missing in the flowchart described in figure 48.

**Reason**

To clarify the implementation of the GPT mode, since this flowchart is the only explanation on how this mode works.

Resolution of Group Decision of Group Accept

Add arrowheads to Figures 47 and 48.

**Reason for Decision/Resolution**

clarification of figures

**Group's Notes**

Phil Guillemette will provide figures 47 and 48 with arrows drawn in.

Editor's Notes Editor's Actions e) done

Check and confirm that arrows are correct.

Comment # 11-156 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 96 Starting Line Number 12 Section 6.2.2.2.1.2.

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 .

Resolution of Group Decision of Group Accept-Modified

On page 95, change line 55 to read: "For SSs operating in GPT mode, the bandwidth requests are addressed to the individual connections while the bandwidth grant is addressed to the SSs' Basic CIDs and not explicitly to individual CIDs.

**Reason for Decision/Resolution**

Even in GPT mode, the requests are still by connection.

**Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-157      Comment submitted by: Vicente Quilez      Observer

Change      Type      Technical, Binding      Starting Page Number 96      Starting Line Number 44      Section 6.2.2.2.1.2.

The box placed at the bottom to the right of figure 48 says that when there is another SDU in queue, 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.

Resolution of Group      Decision of Group      Accept-Modified  
Task someone (Ken and Juan-Carlos) to draw a clearer picture.

**Reason for Decision/Resolution**

The Figure is correct, but based on the comment, the figure is confusing.

**Group's Notes**

Editor's Notes      Editor's Actions      a) awaiting missing input  
"Someone (Ken and Juan-Carlos) should draw a clearer picture."

Comment # 11-158      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 98      Starting Line Number 3      Section 6.2.2.2.2.1

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

**Reason**

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

Resolution of Group      Decision of Group      Accept  
I provided a new drawing in November and a new copy again in December. For some reason, this picture is eluding being updated in the document. I can provide the new figure yet again.

**Reason for Decision/Resolution**

Really an editorial comment that has been accepted, but somehow missed twice now.

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-159 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 98 Starting Line Number 13 Section 6.2.2.2.1.

To change the acronym CPE by SS in all the text boxes depicted in figure 48.

**Reason**

To show that one SS may have more than one associated CPE.

Resolution of Group Decision of Group Accept-Duplicate

I provided a new drawing in November and a new copy again in December. For some reason, this picture is eluding being updated in the document. I can provide the new figure yet again.

**Reason for Decision/Resolution**

Really an editorial comment that has been accepted, but somehow missed twice now.

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-160 Comment submitted by: Carl Eklund Member

Change Type Editorial Starting Page Number 99 Starting Line Number 37 Section 6.2.2.2.2

Remove sentence "This will typically.."

**Reason**

The sentence provides no useful information.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

Carl's correct. It provides no useful information.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-161 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 100 Starting Line Number 24 Section 6.2.2.2.2.2.

To change the acronym CPE by SS in all the text boxes depicted in figure 49.

**Reason**

To show that one SS may have more than one associated CPE

Resolution of Group Decision of Group Accept-Duplicate

I provided a new drawing in November and a new copy again in December. For some reason, this picture is eluding being updated in the document. I can provide the new figure yet again.

**Reason for Decision/Resolution**

Really an editorial comment that has been accepted, but somehow missed twice now.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-162 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 100 Starting Line Number 24 Section 6.2.2.2.2.2

In Figure 50, change all incidences of "CPE" to "SS" (5 incidences total)

**Reason**

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

Resolution of Group Decision of Group Accept-Duplicate

I provided a new drawing in November and a new copy again in December. For some reason, this picture is eluding being updated in the document. I can provide the new figure yet again.

**Reason for Decision/Resolution**

Really an editorial comment that has been accepted, but somehow missed twice now.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-163      Comment submitted by: Vicente Quilez Observer

Change      Type Editorial      Starting Page Number 100      Starting Line Number 54      Section 6.2.2.2.3.

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.

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-164      Comment submitted by: Vicente Quilez Observer

Change      Type Editorial      Starting Page Number 101      Starting Line Number 12      Section 6.2.2.2.3

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.

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-165 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 101 Starting Line Number 51 Section 6.2.2.3.1.1

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.

Resolution of Group Decision of Group Accept-Modified

Change the second sentence to read "After either the BS Time Stamp or SS Time Stamp reaches the maximum value of  $2^{29} - 1$ , the Time Stamp rolls over to zero and continue to count."

**Reason for Decision/Resolution**

Original sentence was incorrect, but so was suggested replacement sentence.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-166 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 102 Starting Line Number 4 Section 6.2.2.3.2

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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-167 Comment submitted by: Carl Eklund Member

Change Type Editorial Starting Page Number 102 Starting Line Number 10 Section 6.2.2.3.2

Delete paragraph starting "Practical mini.."

**Reason**

This paragraph although skillfully worded contains no useful information and no requirements.

Resolution of Group Decision of Group Accept-Modified

Delete the paragraph mentioned above, and in its stead, add the text "The purpose of the mini-slots are to extend the range of the offset field in the uplink map information elements."

**Reason for Decision/Resolution**

I feel the paragraph is informational. It should probably be clarified further. I think it would clear up some issues discussed in some of the TG3 MAC proposals.

**Group's Notes**

Editor's Notes Editor's Actions f) none needed  
the paragraph no longer exists

Comment # 11-168 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 103 Starting Line Number 64 Section 6.2.2.3.3.6

To include section description of Data Acknowledge IE

**Reason**

Data Acknowledge IE is mentioned but not described

Resolution of Group Decision of Group Accept-Modified

delete "Data Acknowledgement IEs and" beginning on line 64 and delete line 53 up to the period.

**Reason for Decision/Resolution**

Data Acknowledgement IEs no longer exist.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-169 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 105 Starting Line Number 4 Section 6.2.2.4.1

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.

Resolution of Group Decision of Group Accept-Modified

In addition to the above change, remove instances of QAM16 and QAM64 in figures 53 and 54.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-170 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 105 Starting Line Number 25 Section 6.2.2.4.1

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 56, 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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-171 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 106 Starting Line Number 24 Section 6.2.2.5

Change "SS makes," at the end of the line to "SS makes,;"

**Reason**

Punctuation error.

Resolution of Group Decision of Group Accept-Modified

Change "SS makes," to "SS makes. However,"

**Reason for Decision/Resolution**

fix typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-172 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 106 Starting Line Number 25 Section 6.2.2.5

Change "a instructional" to "an instructional"

**Reason**

Grammatical error.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-173      Comment submitted by: Stanley Wang Neither

Change      Type Editorial      Starting Page Number 106      Starting Line Number 26      Section 6.2.2.5

Change "own CID)" to "own CID),"

**Reason**  
Punctuation error.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**  
typo

**Group's Notes**

**Editor's Notes**      **Editor's Actions**      e) done

Comment # 11-174      Comment submitted by: Stanley Wang Neither

Change      Type Editorial      Starting Page Number 110      Starting Line Number 33      Section 6.2.3.3

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

**Group's Notes**

**Editor's Notes**      **Editor's Actions**      e) done

Comment # 11-175 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Non-binding Starting Page Number 110 Starting Line Number 61 Section 6.2.3.4

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

Resolution of Group Decision of Group Accept-Modified

On page 109, line 2 change "SYNC" to "DL-MAP" and remove the word "again" on line 4. On page 110, line 59, remove the heading "6.2.3.4 Loss of Synchronisation." On the same page, on line 61, change "remains in synchronisation" to "is considered to have valid uplink parameters." On line 61 on page 110, delete the words "DL-MAP," and "DCD." On line 64, delete "and shall try to re-establish synchronization."

#### Reason for Decision/Resolution

#### Group's Notes

Editor's Notes Editor's Actions e) done

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

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

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.

Resolution of Group Decision of Group Accept

#### Reason for Decision/Resolution

#### Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-177 Comment submitted by: Stanley Wang Neither

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

Change "defined in 10.1" to "defined in Table 66" and fix the corss-reference.

**Reason**

Section 10.1 is the section containing Table 66 which defines the "ranges."

Resolution of Group Decision of Group Reject

It seems to me that it is better now, since allows different PHYs to have their own table.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-178 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 111 Starting Line Number 7 Section 6.2.3.5

Edit Figure 60 on page 111 and continued on page 112 to remove some of the unnecessary spaces and to make the figure fit on one page.

**Reason**

Currently, there are two figures (one on page 111 and another on page 112). Both are labeled "Figure 60". Make them fit on one page can improve the readability. At least, the caption of the second Figure 60 should include the word "continued".

Resolution of Group Decision of Group Accept

Make the figure fit in one page

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-179 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 111 Starting Line Number 8 Section 6.2.3.5

You must modify the Figure 60 so as to include the DCD messages from the BS.

**Reason**

The BS sends at every 2 seconds (maximum) DCD messages in order to specify the characteristics of the downstream channel. I believe that the Figure 60 must include these DCD messages from the BS in order to be more descriptive.

Resolution of Group Decision of Group Accept

On lines 13, 18 and 34, replace the five (5) occurrences of "UCD" with "UCD and DCD." On line 44, add a DCD message going across, before "establish .." On line 3, replace "and UCD" with ", UCD, DCD and UL-MAP."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-180 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 112 Starting Line Number 39 Section 6.2.3.6

Change "(maximum round trip propagation delay due to cell size plus maximum allowable implementation delay)" to read "(maximum round trip propagation delay due to cell radius plus maximum allowable implementation delay)"

**Reason**

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

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-181 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Binding Starting Page Number 112 Starting Line Number 56 Section 6.2.3.6

The temporary CID isn't defined in section 6.2.1.2.5 which describes the RNG-REQ MAC Management message.

**Reason**

This inconsistency must be resolved.

Resolution of Group Decision of Group Accept-Modified

remove footnote number one on page 60. On page 112, lines 56,61 and 62 change the word "temporary" to "Basic." On page 113, lines 37 and 43 replace "temporary" with "Basic." On page 116, line 14, replace "temporary CID" with "Management CIDs." On page 120, line 63, replace "temporary CID" with "Management CIDs."

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-182 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 112 Starting Line Number 60 Section 6.2.3.6

Insert "The SS shall first send the Ranging Request at minimum power level and if it is not successful the SS shall resend it at the next Initial Maintenance transmit opportunity at one step higher power level until successful."

**Reason**

This procedure will decrease the needed dynamic range in the BS.

Resolution of Group Decision of Group Accept-Modified

It reads better in-between paragraphs on page 112 line 54

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-183      Comment submitted by: Antonis Karvelas      Neither

Change      Type      Technical, Non-binding      Starting Page Number 112      Starting Line Number 61      Section 6.2.3.6

Update the Figure 62 to be consistent with the actions that are described from this point until the Page 113, Line 6 of section 6.2.3.6 .

**Reason**

The Figure 62 doesn't contain the actions that are described from this point until the Page 113, Line 6 of section 6.2.3.6 .

Resolution of Group      Decision of Group      Accept-Duplicate

**Reason for Decision/Resolution****Group's Notes**

Action: Carl to redraw the figure 62. See comment 189 and 191 for additional info.

Editor's Notes      Editor's Actions      e) done

As agreed, Carl Eklund redrew Figure 62.

Comment # 11-184      Comment submitted by: Stanley Wang      Neither

Change      Type      Technical, Binding      Starting Page Number 112      Starting Line Number 62      Section 6.2.3.6

Change "a Ranging Request" to "another Ranging Request"

**Reason**

It is actually "another" instead of "a," since the SS has transmitted one before.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-185 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 113 Starting Line Number 11 Section 6.2.3.6

Change the line to read "The message sequence chart (Figure 61) and flow charts (Figure 62 and Figure 63) on the following . . ."

**Reason**

Adding specific figure numbers to the text improves its readability.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-186 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 113 Starting Line Number 52 Section 6.2.3.6

Delete four (4) lines of text starting with the line "[time to send an . . ." and reduce the space caused by the removal of these lines in the Figure.

**Reason**

This may have been an editorial error as a result of copy-and-paste from another part of the same figure.

Resolution of Group Decision of Group Accept

Fix according to prior Temporary CID resolution

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

deleted 5 lines

Comment # 11-187      Comment submitted by: Stanley      Wang      Neither

Change      Type Editorial      Starting Page Number 114      Starting Line Number 2      Section 6.2.3.6

Change the last sentence of the line to read "This is defined as SS Ranging Response Processing Time in Table 66."

**Reason**

Per its definition in Table 66, the word "Processing" is missing. In addition, the text should refer to the definition table (Table 66) not the section (section 10.1) that contains the table.

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-188      Comment submitted by: Stanley      Wang      Neither

Change      Type Editorial      Starting Page Number 114      Starting Line Number 13      Section 6.2.3.6

Add a space to read "UL-MAP with" instead of "UL-MAPwith"

**Reason**

Typo

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done



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

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

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.

Resolution of Group Decision of Group Accept  
If not?

**Reason for Decision/Resolution**

**Group's Notes**

wait for figure from Carl. See comment 183.

Editor's Notes Editor's Actions e) done

As agreed, Carl Eklund redrew figure.

Comment # 11-190 Comment submitted by: Antonis Karvelas Neither

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

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

**Reason**

To reduce confusion.

Resolution of Group Decision of Group Accept-Modified

On page 123, line 14, change "Periodic Ranging" to "periodic Ranging". Delete from "at least..." in line 14 until "...opportunities" in line 15. On page 123, line 18, delete the word "Periodic". On page 123, line 20, delete the word "Periodic". On page 123, line 24, change the word "periodic" to "station". On page 125, line 6, change the word "Unicast" to "Station".

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

**Group's Notes**

see Carl's figure from comment 183.

Editor's Notes      Editor's Actions      e) done

Comment # 11-192      Comment submitted by: Stanley Wang      Neither

Change      Type      Editorial      Starting Page Number 114      Starting Line Number 44      Section 6.2.3.6

Change the text to read "To avoid these SSs repeating the loop . . ." instead of "To avoid these SS repeating the loop . . ."

**Reason**

Grammatical error.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-193      Comment submitted by: Antonis Karvelas      Neither

Change      Type      Technical, Binding      Starting Page Number 114      Starting Line Number 47      Section 6.2.3.6

The DSC-Remote and DSC-ACK text in the box must be replaced with "Increase local power" as in a previous version of the standard.

**Reason**

What is the meaning of the DSC-Remote and DSC-ACK here ? I believe that the text in the box must be replaced with "Increase local power" as in a previous version of the standard.

Resolution of Group      Decision of Group      Accept

Reason for Decision/Resolution

Group's Notes

see Carl's figure for comment 183

Editor's Notes      Editor's Actions      e) done

Comment # 11-194      Comment submitted by: Yigal Leiba      Member

Change      Type      Editorial      Starting Page Number 114      Starting Line Number 47      Section 6.2.3.6

The DSC-Remote and DSC-ACK seem out of place in figure 62, which is about intial ranging. Seems like the box should contain a text like 'Increase power by 1 step'.

**Reason**

Typo

Resolution of Group      Decision of Group      Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-195 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 115 Starting Line Number 1 Section 6.2.3.7

Itemize the line to read "a) All parameters shall be . . ." and relabel the reset of the list to b), c) and d)

**Reason**

Paragraph format problem.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-196 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 115 Starting Line Number 12 Section 6.2.3.7

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.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-197 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 116 Starting Line Number 36 Section 6.2.3.6

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.

Resolution of Group Decision of Group Accept-Modified

Include the following as Note: "The Retries Exhausted condition refers to the Contention Ranging Retries entry of Table 66." Change all occurrence's of "till" to "until" throughout the document.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-198 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 116 Starting Line Number 39 Section 6.2.3.7

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.

Resolution of Group Decision of Group Accept-Clarified

for the one with two inputs.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-199 Comment submitted by: Yigal Leiba Member

Change Type Editorial Starting Page Number 116 Starting Line Number 57 Section 6.2.3.7

The note to figure 63 mentions a transmit equalizer. Remove the text, 'If opportunities are offered prior to the pending-till-complete expiry, the "good-enough" test which follows receipt of a RNG-RSP shall not judge the SS's transmit equalization until pending-till-complete expires.'

**Reason**

The text mentions a transmit equalizer, which no longer exists in this standard.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-200 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Non-binding Starting Page Number 117 Starting Line Number 6 Section 6.2.3.8.1

The standard must clarify which MAC management messages will be used for the implementation of the DHCP mechanisms.

**Reason**

I believe that the standard must clarify which MAC management messages, if any, will be used for the implementation of the DHCP mechanisms.

Resolution of Group Decision of Group Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

see comment 81

Editor's Notes Editor's Actions f) none needed

Comment # 11-201 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 117 Starting Line Number 8 Section 6.2.3.8.1

"See Table 64" should be changed to "See figure 64".

**Reason**

To correct a misprint.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-202 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 117 Starting Line Number 8 Section 6.2.3.8.1

Change the end of the line to read "See Figure 64." instead of "See Table 64." and fix the cross-reference (if any).

**Reason**

It is a figure not a table.

Resolution of Group Decision of Group Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-203 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 117 Starting Line Number 43 Section 6.2.3.8.2

Change the end of the line to read "Refer to Figure 65." instead of "See Table 65." and fix the cross-reference (if any).

**Reason**

It is a figure not a table.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-204 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 117 Starting Line Number 44 Section 6.2.3.8.1

"See Table 65" should be changed to "See figure 65".

**Reason**

To correct a misprint.

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-205 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 117 Starting Line Number 45 Section 6.2.3.8.2

Change the end of the line to read ". . . from the server's Universal Coordinated Time (UCT) shall be combined . . ." instead of ". . . from the server (UTC) shall be combined . . ."

**Reason**

Acronyms with definition.

Resolution of Group Decision of Group Accept-Modified

Ignore change above, but add UTC, Coordinated Universal Time to acronym list. On page 278, line 71, delete "Universal Coordinated time" and the parantheses around "UTC"

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-206 Comment submitted by: Vicente Quilez Observer  
Change Type Editorial Starting Page Number 118 Starting Line Number 8 Section 6.2.3.9

At the end of the sentence, "as shown in 66" should be changed by "as shown in figure 66".

**Reason**

To include a missing word.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-207 Comment submitted by: Stanley Wang Neither  
Change Type Editorial Starting Page Number 118 Starting Line Number 8 Section 6.2.3.9

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."

Resolution of Group Decision of Group Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-208 Comment submitted by: Stanley Wang Neither  
Change Type Technical, Binding Starting Page Number 119 Starting Line Number 25 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-209 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 41 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-210 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 54 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Reject

Perhaps "Confirmation Codes" 11.4.17

Reason for Decision/Resolution

Group's Notes

superceded by some other comment

Editor's Notes Editor's Actions f) none needed

Comment # 11-211 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 54 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

**Group's Notes**

superseded by some other comment

Editor's Notes Editor's Actions f) none needed

Comment # 11-212 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 55 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-213 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 55 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Reject

It seems to me that it is better now (only one).

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-214 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 56 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-215 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 120 Starting Line Number 63 Section 6.2.3.9.1

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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-216      Comment submitted by: Stanley      Wang      Neither

Change      Type      Technical      Starting Page Number 122      Starting Line Number 7      Section 6.2.3.9.1

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.

Resolution of Group      Decision of Group      Accept-Modified

Change T7 to T11 in Figure 69 and add the following row to table 66: "BS | T11 | Wait for REG-ACK timeout. | | | 2 s." Add yet another row to table 66 containing the following: "BS | Registration Response Retries | Number of retries on Registration Response | 3 | | ." Add note to figure 69: "The number of retries is given by Registration Response Retries in Table 66."

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-217      Comment submitted by: Stanley      Wang      Neither

Change      Type      Editorial      Starting Page Number 122      Starting Line Number 31      Section 6.2.3.9.2

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.

Resolution of Group      Decision of Group      Accept

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-218 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 122 Starting Line Number 31 Section 6.2.3.9.2

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.

Resolution of Group Decision of Group Accept-Modified

Ignore the above change. On page 313, line 1, change "Privacy Support" to "Privacy Configuration Setting." On 313, line 3, change "BPI" to "PKM." Again on page 313, change value field for 11.4.5.1 to read "0: Privacy not supported <cr> 1: Privacy Supported <cr> 2-255: Reserved."

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-219 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 122 Starting Line Number 60 Section 6.2.3.9.3

Delete the reference to section 6.2.1.2.8. Specifically, delete " see (6.2.1.2.8)" at the end of the line.

**Reason**

The text refers to Section 6.2.1.2.8, Registration Response (REG-RSP) Message, which does not include information about aging out the old CIDs. No specific section can be located that does cover the aging out the old CIDs.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-220 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 123 Starting Line Number 14 Section 6.2.4

To insert a reference in order to clarify the meaning of T4.

**Reason**

T4 is introduced in the text without a reference. It should be appended "(see Table 66)" at the end of the sentence

Resolution of Group Decision of Group Accept-Clarified

Append "(see Table 66)" at the end of the sentence.

**Reason for Decision/Resolution**

clarity

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-221 Comment submitted by: Vladimir Yanover Observer

Change Type Editorial Starting Page Number 125 Starting Line Number 32 Section 6.2.4.1

There is a problem with paragraph 6.2.4.1 that mentions explicitly the terms of the 802.16.1 Mode B PHY. It should be transformed to more generic form, particularly "modulation threshold" may not be applicable to all PHY (and actually is not for 802.11a/HIPERLAN)

**Reason**

Resolution of Group Decision of Group Accept-Modified

Change name of Figure 73 to "Burst Type Threshold Usage."

**Reason for Decision/Resolution**

PHY specific wording outside PHY section.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-222 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 126 Starting Line Number 52 Section 6.2.5.1

Add "." to the end of the line.

**Reason**

Punctuation error.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

typo

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-223 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 127 Starting Line Number 8 Section 6.2.5.1

After the semicolon, it is proposed to delete "upstream". Then, it should be written "active Service Flows also have a 16 bit Connection Identifier (CID)" instead of "upstream active Service Flows also have a 16 bit Connection Identifier (CID)".

**Reason**

CIDs are associated to both upstream and downstream.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

consistency in document

Group's Notes

Editor's Notes Editor's Actions e) done



Comment # 11-224 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 127 Starting Line Number 23 Section 6.2.5.2

Points a) and f) should be merged. Point f) should be deleted and point a) should be written as follows: "A ServiceFlowID (SFID) is assigned by the BS to all existing Service Flows. The SFID serves as the principal identifier in the SS and the BS for the Service Flow. A Service Flow which exists has at least an SFID, and an associated Direction". Due to this change, point g) becomes point f).

**Reason**

The SFID seems to be duplicated in the attribute list of Service Flows.

Resolution of Group Decision of Group Accept-Modified

Use the text provided, but delete the "," after "SFID" pre 225.

**Reason for Decision/Resolution**

clarity

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-225 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 127 Starting Line Number 38 Section 6.2.5.2

Delete the "," after "SFID."

**Reason**

Punctuation error.

Resolution of Group Decision of Group Accept-Duplicate

see 224

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-226 Comment submitted by: Coleman Hum Member

Change Type Editorial Starting Page Number 127 Starting Line Number 44 Section 6.2.5.2

The relationship between the Qos Parameter Sets is as shown in Figure 74

**Reason**

Figure 76 should be Figure 74.

Resolution of Group Decision of Group Accept-Duplicate

duplicate with 227 which is worded better.

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-227 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 127 Starting Line Number 44 Section 6.2.5.2

Change the line to read "in Figure 74 and Figure 75" instead of "in Figure 76 and Figure 75" and fix the cross-reference (if any)

**Reason**

The original text refers to the wrong figure.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-228 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 127 Starting Line Number 45 Section 6.2.5.2

"Figure 76" should be changed to "Figure 74".

**Reason**

To correct a misprint.

Resolution of Group Decision of Group Accept-Duplicate

Reason for Decision/Resolution

typo

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-229 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 127 Starting Line Number 57 Section 6.2.5.2 footnote

Insert a new line break before the word "if" at the end of the end and make the new line aligned with the rest of the lines on the same page.

**Reason**

Editorial changes.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

typo

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-230 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 127 Starting Line Number 58 Section 6.2.5.2 footnote

Change "e.g. " (with a space) to "e.g., " (with a space) and similar incidences throughout the document (e.g., page 127, line 60).

Reason  
Punctuation error.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution  
typo

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-231 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 130 Starting Line Number 55 Section 6.2.5.4

Change the line to read "--- By explicitly including all QoS parameters." instead of "--- By explicitly including all traffic parameters."

Reason  
Traffic parameter (e.g., Peak Cell Rate & Cell Delay Variation Tolerance) and QoS parameter (e.g., Cell Loss Rate & Cell Delay Variation) are two different concepts and are not interchangeable.

Resolution of Group Decision of Group Reject

discuss.

Reason for Decision/Resolution  
I think we want the superset of QoS parameters and traffic parameters.

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-232 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 130 Starting Line Number 62 Section 6.2.5.4

Change the line to read "stages: REG-RSP, DSA-REQ, . . ." instead of "stages: Registration Response, DSA-REQ, . . ."

**Reason**

Consistency issue.

Resolution of Group Decision of Group Reject

An earlier comment to remove "Registration Response" would make this OBE.

**Reason for Decision/Resolution**

consistency in document

**Group's Notes**

superceded somewhere

Editor's Notes Editor's Actions f) none needed

Comment # 11-233 Comment submitted by: Stanley Wang Neither

Change Type Technical, Binding Starting Page Number 133 Starting Line Number 29 Section 6.2.5.6.3

Change the line to read ". . . shall be authenticated by the BS MIC." instead of ". . . shall be authorized by the BS MIC.",""Authorization" and "authentication" are two different functionalities. BS MIC is used to authenticate SSs (per section 6.2.3.9.1 on page 118, line 21).

**Reason**

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

consistency of terms

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-234 Comment submitted by: Vicente Quilez Observer  
 Change Type Editorial Starting Page Number 134 Starting Line Number 52 Section 6.2.5.7.1

References at the end of the sentence should be changed by the appropriate ones.

**Reason**

Sections 5.3.6.1.3 and C.2.2.3.4 do not exist in the standard.

Resolution of Group Decision of Group Accept-Modified

drop references

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-235 Comment submitted by: Stanley Wang Neither  
 Change Type Editorial Starting Page Number 135 Starting Line Number 60 Section 6.2.5.7.2

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 31) 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.

Resolution of Group Decision of Group Accept-Modified

Also add heading "6.2.5.7.2 Dynamic Operation"

**Reason for Decision/Resolution**

Correct heading levels.

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

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

**Reason**

Grammatical error.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-237 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 137 Starting Line Number 30 Section 6.2.5.8.1

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

**Reason**

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

Resolution of Group Decision of Group Accept-Clarified

This change refers to the DSD at the state on the righthand side

**Reason for Decision/Resolution**

typo

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-238 Comment submitted by: Stanley Wang Neither

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

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".

#### Reason

Current section 6.2.5.8.3, Dynamic Service Addition, 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.

Resolution of Group Decision of Group Accept

#### Reason for Decision/Resolution

This is really an editorial comment.

#### Group's Notes

Editor's Notes Editor's Actions e) done

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

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

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.

Resolution of Group Decision of Group Accept

#### Reason for Decision/Resolution

cut and paste error

#### Group's Notes

Editor's Notes Editor's Actions e) done



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

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

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

**Reason**

To correct a misprint.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-241 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 175 Starting Line Number 1 Section 7.1.3

Change "A SA" to "An SA" and similar incidences throughout the document (e.g., page 179, line 14).

**Reason**

Grammatical error.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-242 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 178 Starting Line Number 47 Section 7.3.1.1

Change "i.e. " (with a space) to "i.e., " (with a space) and similar incidences throughout the document (e.g., page 288, line 5).

**Reason**

Punctuation error.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-243      Comment submitted by: Vicente      Quilez      Observer

Change      Type Editorial      Starting Page Number 200      Starting Line Number 53      Section 8.1.1

The point inside the brackets should be deleted. Therefore, instead of "(PLME.)", it should be "(PLME)".

**Reason**

To correct a misprint.

Resolution of Group      Decision of Group      Accept

Delete the period

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-244      Comment submitted by: Vicente      Quilez      Observer

Change      Type Editorial      Starting Page Number 202      Starting Line Number 17      Section 8.1.3.2

"UCD\_PARAM\_VEC" should be changed to "UCD\_PARAM\_VECTOR".

**Reason**

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.

Resolution of Group      Decision of Group      Accept

Change "UCD\_PARAM\_VEC" to "UCD\_PARAM\_VECTOR" throughout the text

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-245 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 205 Starting Line Number 20 Section 8.1.3.9

The word "Primatives" should be changed to "Primitives"

**Reason**

To correct a misprint in the figure caption.

Resolution of Group Decision of Group Accept

Correct the misprint

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-246 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 206 Starting Line Number 61 Section 8.1.3.12.5

The word "Primatives" should be changed to "Primitives".

**Reason**

To correct a misprint in the figure caption.

Resolution of Group Decision of Group Accept

Correct the misprint

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-247 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 213 Starting Line Number 10 Section 8.1.3.24.5

The arrow direction must be changed.

**Reason**

Following PHY\_TXSTART. request definition (see 8.1.3.15), this primitive is generated by MAC.

Resolution of Group Decision of Group Accept-Duplicate

Change the direction of the arrow labeled by "PHY\_TXSTART.request"

**Reason for Decision/Resolution**

**Group's Notes**

see 254

Editor's Notes Editor's Actions f) none needed

Comment # 11-248 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 213 Starting Line Number 12 Section 8.1.3.24.5

Arrow direction must be changed.

**Reason**

Following PHY\_TXSTART. confirmation definition (see 8.1.3.16), this primitive is generated by PHY.

Resolution of Group Decision of Group Accept-Duplicate

Change the direction of the arrow labeled by "PHY\_TXSTART.confirmation"

**Reason for Decision/Resolution**

**Group's Notes**

see 254

Editor's Notes Editor's Actions f) none needed

Comment # 11-249 Comment submitted by: Vicente Quilez Observer

Change Type Technical, Binding Starting Page Number 213 Starting Line Number 15 Section 8.1.3.24.5

The position of PHY\_MACPDU.confirmation in figure 118 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 118, 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.

Resolution of Group Decision of Group Accept-Duplicate

At the fig.118, BS MAC to BS PHY part, swap the arrows labeled "PHY\_TXSTART.indication"(5th from the top) and "PHY\_MACPDU.confirmation"(4th from the top)

**Reason for Decision/Resolution****Group's Notes**

see 254

Editor's Notes Editor's Actions f) none needed

Comment # 11-250 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 213 Starting Line Number 17 Section 8.1.3.24.5

A definition of PHY\_RXSTART.indication primitive should be included somewhere in the section.

**Reason**

The PHY\_RXSTART.indication primitive, represented in figures 118 and 119, has not been previously defined.

Resolution of Group Decision of Group Accept-Modified

insert the definition of "PHY\_RXSTART.indication" from the document "IEEE 802.16.1c-01/07"

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done  
confirm change

Comment # 11-251      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 213      Starting Line Number 30      Section 8.1.3.24.5

The word "Primitives" should be changed to "Primitives".

**Reason**

To correct a misprint in figure caption.

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-252      Comment submitted by: Vicente Quilez      Observer

Change      Type Editorial      Starting Page Number 213      Starting Line Number 37      Section 8.1.3.24.5

Figure 119 should be reviewed.

**Reason**

PHY\_TXSTART.request has no confirmation in figure.

Resolution of Group      Decision of Group Accept-Duplicate

Reason for Decision/Resolution

Group's Notes

see 254

Editor's Notes      Editor's Actions f) none needed

Comment # 11-253 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 213 Starting Line Number 41 Section 8.1.3.24.5

Figure 119 should be reviewed.

**Reason**

PHY\_RXSTART.confirmation has no request.

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

see 254

Editor's Notes Editor's Actions f) none needed

Comment # 11-254 Comment submitted by: Vicente Quilez Observer

Change Type Technical, Binding Starting Page Number 213 Starting Line Number 46 Section 8.1.3.24.5

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.

Resolution of Group Decision of Group Accept

figure 118 and 119 are to be replaced by the figures in document ""IEEE 802.16.1c-01/07"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Check this.

Comment # 11-255 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 213 Starting Line Number 48 Section 8.1.3.24.5

An arrow must be inserted under PHY\_START.indication.

**Reason**

To insert a missing arrow in figure 119.

Resolution of Group Decision of Group Accept-Duplicate

superceded by the change #254

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-256 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 213 Starting Line Number 59 Section 8.1.3.24.5

The word "Primitives" should be changed to "Primitives".

**Reason**

To correct a misprint in the figure caption.

Resolution of Group Decision of Group Accept

Correct the misprint

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-257 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 217 Starting Line Number 5 Section 8.2.1.2.4

It should be included a reference of the definition of PHY mode A. This definition is in section 8.2.1.5.1.

**Reason**

PHY mode A is introduced in the text without any previous definition or reference.

Resolution of Group Decision of Group reject

Too many references already. Similar issues are corrected by Carl's document

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-258 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 217 Starting Line Number 19 Section 8.2.1.2.5

The word "multiple" should be deleted.

**Reason**

A PHY slot is not made of a multiple of 4 symbols but of exactly 4 symbols.

Resolution of Group Decision of Group accept-clarified

change to "which is a multiple of 4 modulation symbols each" to "which is defined as 4 modulation symbols"

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed

Superceded by 371 (phase already deleted)

Comment # 11-259 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 217 Starting Line Number 27 Section 8.2.1.2.5

It should be included a reference of the definition of PHY mode B. This definition is in section 8.2.1.5.2.

**Reason**

PHY mode B is introduced in the text without any previous definition or reference.

Resolution of Group Decision of Group reject

Too many references already. Similar issues are corrected by Carl's document

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-260 Comment submitted by: Lars Lindh Member

Change Type Editorial Starting Page Number 217 Starting Line Number 47 Section 8.2.1.2.5

Insert the word "QPSK"so the sentence will read ".. this means QPSK followed by 16-QAM.."

**Reason**

The word QPSK was left out of the sentence

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

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

Change Type Technical, Non-binding Starting Page Number 217 Starting Line Number 52 Section 8.2.1.2.5

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.

Resolution of Group Decision of Group accept-duplicate

Already handled by Carl's new draft

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

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

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

To specify the modes that are compliant with this sentence

**Reason**

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

Resolution of Group Decision of Group accept-clarified

Change sentence to "Each SS receives and decodes the control information of the downstream and looks for MAC headers indicating data for that SS"

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-263      Comment submitted by: Vicente      Quilez      Observer

Change      Type Editorial      Starting Page Number 218      Starting Line Number 36      Section 8.2.1.2.5

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

**Reason**

Missing character

Resolution of Group      Decision of Group accept

Insert missing "dot" as recommended by the comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions e) done

Comment # 11-264      Comment submitted by: Vicente      Quilez      Observer

Change      Type Editorial      Starting Page Number 218      Starting Line Number 52      Section 8.2.1.2.5

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

**Reason**

Wording error

Resolution of Group      Decision of Group accept-clarified

Change all TDM occurances (4 total) on line 52 of fig. 123 to TDMA

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions e) done

Comment # 11-265 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 219 Starting Line Number 29 Section 8.2.1.2.7

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

Resolution of Group Decision of Group accept-clarified

Change line 30 from "stating the PS at which modulation..." to "stating at which PS burst profile change occurs"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

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.

Resolution of Group Decision of Group accept-clarified

Change the sentence on line 32 from "Only the last FEC block of a burst may be shortened" to "Shortening the last FEC block of a burst is optional (see 11.1.2.2)"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-267 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 219 Starting Line Number 36 Section 8.2.1.2.7

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.

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-268 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 219 Starting Line Number 36 Section 8.2.1.2.7

To correct the FEC usage explanation as follows: " $=kn+j$  where  $k$  is the number of integral FEC blocks that fit in the burst and  $j$  is the number of PS remaining"

**Reason**

Wrong definition

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Duplicate of 267

Comment # 11-269 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 219 Starting Line Number 38 Section 8.2.1.2.7

To substitute f by r

**Reason**

To unify nomenclature when talking about the name given to the bits providing correction in Reed Solomon schemes

Resolution of Group Decision of Group accept-clarified

Change "f" to "r" in whole section including figure 124

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-270 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 219 Starting Line Number 43 Section 8.2.1.2.7

Insert a sentence stating that a codeword cannot have less than 6 information bytes

**Reason**

This is also required in 8.2.3.5.5.2

Resolution of Group Decision of Group accept-clarified

Insert such a statement "A codeword cannot have less than 6 information bytes" in line 42 before "This is shown..."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-271 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 219 Starting Line Number 46 Section 8.2.1.2.7

Replace the "symbols" with "PSs".

**Reason**

The x,y are counted in PSs, so the same must be true for the right side of the expression  $y-x=kn+j$ .

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-272 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 219 Starting Line Number 54 Section 8.2.1.2.7

The "symbols" must be replaced with "PSs".

**Reason**

The j is PSs not symbols according to the above text.

Resolution of Group Decision of Group accept-modified

Change the "j symbols" to "j PSs"; Also change on line 55 "entry a" to "entry m" and "entry b" to "entry m+1"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-273 Comment submitted by: Carl Eklund Member

Change Type Editorial Starting Page Number 220 Starting Line Number 12 Section 8.2.1.2.8

change msec to ms

**Reason**

The SI unit for measuring time is a second which is abbreviates s. Apply this wherever it appears.

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-274 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 220 Starting Line Number 25 Section 8.2.1.3

To insert "sub" in front of "frame"

**Reason**

To provide a more exact statement

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-275 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 221 Starting Line Number 1 Section 8.2.1.3.1

To substitute "Upstream Burst Mode Modulation" by "Upstream burst profile modes"

**Reason**

The section actually deals with burst profiles modes, not only modulation modes

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-276 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 221 Starting Line Number 3 Section 8.2.1.3.1

To substitute "Adaptive modulation.." by "Adaptive burst profiles.."

**Reason**

The section actually deals with burst profiles, not only modulation

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-277 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 221 Starting Line Number 3 Section 8.2.1.3.1

To substitute "users" by "SS"

**Reason**

Actually, the SS are assigned transmission characteristics

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-278 Comment submitted by: Carl Eklund Member

Change Type Technical Starting Page Number 221 Starting Line Number 8 Section 8.2.1.3.1

Replace "QAM-4" with "the parameters specified for Request Intevals (UIUC=1)"

**Reason**

This sentence is in contradiction with the MAC. The parameters for the intervals are defined in the UCD message. If we would want to mandate that Request intervals use QAM-4 this must be done in a separate section.

Resolution of Group Decision of Group accept-modified

Perform recommend change and also add a remark at the end of the replacement: "(Remark: It is recommended that UIUC=1 will provide the most robust burst profile due to the extreem link budget and interference conditions of this case)".

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-279 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 221 Starting Line Number 10 Section 8.2.1.3.1

To substitute "..SS transmits with the modulation specified by.." by "..SS transmits with the burst profile specified by"

**Reason**

The section actually deals with burst profile, not only modulation

Resolution of Group Decision of Group accept

accept as recommended by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-280 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 221 Starting Line Number 57 Section 8.2.1.4

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 confusion.

Resolution of Group Decision of Group accept-modified

Change figure title to "Uplink mapping in the Continuous Downstream FDD case"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-281 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 222 Starting Line Number 28 Section 8.2.1.5.2

In the title of section 8.2.1.5.2 the "Upstream" must be replaced with "Downstream".

**Reason**

Reduce confusion.

Resolution of Group Decision of Group accept-modified

Perform request change. In addition change the title of 8.2.1.4 to "8.2.1.3.2 Upstream interaction with a continuous downstream".

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Can't find the title to be changed to "Upstream interaction with a continuous downstream"; probably deleted by 371.

Comment # 11-282 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 222 Starting Line Number 28 Section 8.2.1.5.2

To change "upstream" by "downstream"

**Reason**

Wording error

Resolution of Group Decision of Group accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

I guess this was fixed by 371.

Comment # 11-283 Comment submitted by: Vladimir Yanover Observer

Change Type Editorial Starting Page Number 223 Starting Line Number 4 Section 8.2.2

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 formal request, if needed. This is a part of MAC-PHY separation process

Resolution of Group Decision of Group accept-clarified

Submission filling the missing 8.2.2 paragraph was uploaded on Thursday afternoon (PHY-SAP Parameters)

Document numbered IEEE 802.16.1c-00/08

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-284 Comment submitted by: Lars Lindh Member

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

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.

Resolution of Group Decision of Group accept-modified

Starting on line 15, delete paragraph part from "When no data...". Start a new paragraph: "There are 2 options when no data is available to transmit. In the first option, a stuff\_byte pattern having a value (0xFF) will be used within the payload to fill any gaps between the 802.16 MAC PDUs. This value is chosen as an unused value for the first byte of the 802.16 MAC PDU, which is designed to NEVER have this value. The second option is to schedule transmission gap events (DIUC=14, DL map entry) where the BS transmitter is effectively shut down. The SS must be capable of supporting either option."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-285      Comment submitted by: Antonis      Karvelas      Neither

Change      Type      Technical, Binding      Starting Page Number 235      Starting Line Number 16      Section 8.2.3.4

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.

Resolution of Group      Decision of Group      reject

284 describes 2 options for dealing with the "gap" issue. The PHY chapter does not deal with the system level reasons why a gap exists.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      f) none needed

Comment # 11-286      Comment submitted by: Lars      Lindh      Member

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

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.

Resolution of Group      Decision of Group      accept

accept as recommended by comment

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

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

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

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.

Resolution of Group      Decision of Group      accept-modified

Change figure 139 with figure 129. Insert on page 236 line 42 after "each burst" the sentence "(after preamble occurrence)"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-288      Comment submitted by: Antonis      Karvelas      Neither

Change      Type      Editorial      Starting Page Number 236      Starting Line Number 48      Section 8.2.3.5.3

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.

Resolution of Group      Decision of Group      accept-modified

In order to correspond to figure 138 the sentence starting on line 48 "The sequence generator..." should be removed. The main reason is that the randomization is applied on the payload prior to FEC encoding hence it is an implementation issue how to "stop" or "pause" the scrambler operation.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes      Editor's Actions      e) done



Comment # 11-289 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 237 Starting Line Number 29 Section 8.2.3.5.4

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

**Reason**

To avoid inconsistency

Resolution of Group Decision of Group reject

The correct minimum value is  $t=0$  which is mentioned on pg. 290 as well.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-290 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 237 Starting Line Number 34 Section 8.2.3.5.4

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)

Resolution of Group Decision of Group accept-modified

Insert at this section "The parity code can be used for error correction preferbaly employing a soft decoder.". Also correct line 34 by replacing "his" with "is"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-291      Comment submitted by: Antonis Karvelas      Neither

Change      Type Editorial      Starting Page Number 237      Starting Line Number 48      Section 8.2.3.5.5

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).

Resolution of Group      Decision of Group      accept-clarified

Accept as proposed in this comment. Pay attention to the fact that this comment type repeats itself a few times (for different document parts). In general t=0 and R=0 is the right minimum value for the RS code correction capability.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done  
Chose the first of the two suggested options.

Comment # 11-292      Comment submitted by: Lars Lindh      Member

Change      Type Technical      Starting Page Number 237      Starting Line Number 57      Section 8.2.3.5.5

Change "2 to 32" to "0 to 32"

**Reason**

It shall be possible to bypass the Reed Solomon code.

Resolution of Group      Decision of Group      accept

Accept proposed change as is (t=0 is the minimum hence R=2\*t=0 minimum)

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-293 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Non-binding Starting Page Number 238 Starting Line Number 1 Section 8.2.3.5.5

I believe that the standard must clarify the reasons for the codeword size (K+R) to be an even number.

**Reason**

To reduce confusion.

Resolution of Group Decision of Group accept-clarified

Add after line 2: "This is due to the fact that the BCC code requires a pair of bytes to operate on."

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-294 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 239 Starting Line Number 7 Section 8.2.3.5.5.2

To unify processing descriptions contained in Shortened Last Codeword Mode given in page 239 from line 7 to line 20, and that given in page 257 from line 10 to line 20.

**Reason**

To align definitions

Resolution of Group Decision of Group accept-clarified

Change the following: - remove pg 239 ln 7-19, - insert text from p.257 ln 3-20 into pg 239 ln 7,- insert text from pg 239 ln 20-30 into pg 257 ln 20

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-295 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 240 Starting Line Number 1 Section 8.2.3.5.8

To change "Figure 139" by "Figure 140"

**Reason**

Numbering error

Resolution of Group Decision of Group accept

accept as recommended by comment (the document is currently referencing the wrong figure in its discussion)

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-296 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 243 Starting Line Number 41 Section 8.2.3.5.8

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 Sublayer.

Resolution of Group Decision of Group reject

The comment is a mistake. The payload is 253 bytes. The TC layer sees the payload (prior to encoding)

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-297 Comment submitted by: Alok Gupta Neither

Change Type Technical Starting Page Number 244 Starting Line Number 31 Section 8.2.3.5.9

Replace (40,20) with (46,26)

Reason

MAC message length has changed. FEC block size must match. See contribution for details.

Resolution of Group Decision of Group

Implement change as requested (the change is a result of enlarging the MAC/Map message length).

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-298 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 244 Starting Line Number 40 Section 8.2.3.5.10

To delete the duplicated word "Table"

Reason

To avoid duplication

Resolution of Group Decision of Group accept

accept as recommended by comment

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-299      Comment submitted by: Lars Lindh Member

Change      Type Technical      Starting Page Number 247      Starting Line Number 20      Section 8.2.3.5.11

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.

Resolution of Group      Decision of Group      accept-modified

Insert instead of Lars's sentence the following "Independent of the constellation used (according to the modulation type) corner points will be transmitted at the same power level."

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-300      Comment submitted by: Antonis Karvelas      Neither

Change      Type Editorial      Starting Page Number 255      Starting Line Number 48      Section 8.2.4.3.2.1

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).

Resolution of Group      Decision of Group      accept-clarified

Implement change as requested.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes      Editor's Actions      e) done

Chose first option.

Comment # 11-301 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 255 Starting Line Number 58 Section 8.2.4.3.2.1

Change "2 to 32" to "0 to 32"

**Reason**

It shall be possible to bypass the Reed Solomon code.

Resolution of Group Decision of Group accept-duplicate

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-302 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 263 Starting Line Number 30 Section 8.2.4.3.4

Delete 64-QAM as an optional modulation scheme for the uplink

**Reason**

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 makes it difficult to realize cost reduced terminals.

Resolution of Group Decision of Group reject

Reason for rejection: The fact that 64QAM is optional and there are no forced spectrum masks penalizing a QPSK only system does not impact a low cost implementation.

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-303 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 269 Starting Line Number 50 Section 8.2.4.3.7

To complete the second column on table 60

**Reason**

It seems to be incompleated

Resolution of Group Decision of Group accept-modified

Erase from the TC layer row , the sentence "The TC layer"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Erase the whole sentence fragment.

Comment # 11-304 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 271 Starting Line Number 34 Section 8.2.6.1

Change "This reference can then be used .." by "This reference must then be used".

**Reason**

In order minimize error sources symbol clock locking should be mandatory.

Resolution of Group Decision of Group reject

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-305 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 271 Starting Line Number 47 Section 8.2.6.2

Change "RF Sources" to "Radio and modem frequency sources"" ,"Cost effectivness requires the modem frequency source (symbol clock) to be tied to other Radio system sources.

**Reason**

Resolution of Group Decision of Group reject

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed



Comment # 11-306 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 271 Starting Line Number 48 Section 8.2.6.2

Change ".. RF source should reference each other" with "RF sources must reference each other".

**Reason**

It should clearly be stated that frequency locking is mandatory.

Resolution of Group Decision of Group accept-modified

Modification: Change "RF Sources should reference each other" to "carrier frequencies must reference each other"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-307 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 272 Starting Line Number 9 Section 8.2.7

To specify referenced Subsection

**Reason**

To avoid indetermination in references

Resolution of Group Decision of Group accept-modified

put a period after the word "equipment" and delete the rest of the sentence.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-308 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 272 Starting Line Number 17 Section 8.2.7

Delete appearance of "Max Rx phase noise"

**Reason**

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.

Resolution of Group Decision of Group accept

Implement as requested by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-309 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 27 Section 8.2.7

Insert: Tx symbol clock accuracy : 20 ppm

**Reason**

The symbol clock accuracy must be a requirement

Resolution of Group Decision of Group reject

Reason for rejection - It seems that +/-5ppm is reasonable when locked to an external source

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-310 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 27 Section 8.2.7

Change: 10-66 GHz +- 10 ppm, terminal frequency locking required

**Reason**

+/- 10 ppm is sufficient when we require terminal frequency locking

Resolution of Group Decision of Group reject

Reason for rejection - It seems that +/-5ppm is reasonable when locked to an external source

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-311 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 272 Starting Line Number 33 Section 8.2.7

Delete appearance of "Composite Group Delay" and "Composite Amplitude Ripple"

**Reason**

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.

Resolution of Group Decision of Group accept

Implement as requested by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-312 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 272 Starting Line Number 38 Section 8.2.7

Delete table section discussing "Base station Receiver" parameters

**Reason**

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

Resolution of Group Decision of Group accept

Implement as requested by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-313 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 40 Section 8.2.7

Change: Dynamic Range: 32 dB

**Reason**

32 dB is sufficient when the terminals are subject to power control

Resolution of Group Decision of Group reject

Reason for rejection - base station rx parameters are not included in the standard

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-314 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 42 Section 8.2.7

Change: BER performance threshold before FEC:

for 10-3

QPSK  $-94 + 10 \cdot \log(R)$

16 QAM  $-87 + 10 \cdot \log(R)$

64-QAM  $-81 + 10 \cdot \log(R)$

Reason

These values are realistic and do not lead to unnecessary high transmission power in the SS

Resolution of Group Decision of Group reject

Reason for rejection - at the base station this was intended to measure transmission quality.

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-315 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 57 Section 8.2.7

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

Resolution of Group Decision of Group reject

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-316 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 62 Section 8.2.7

Insert: Co-channel interference threshold degradation at BER=10<sup>-6</sup>: S/I = 23 dB (QPSK) and 30 (16-QAM) and 36 (64-QAM) for 1 dB degradation. TBR S/I = 19 dB (QPSK) and 26.5 (16-QAM) and 32.5 (64-QAM) for 3 dB degradation. TBR Where S/I represents Signal to Interference ratio

**Reason**

Co-channel interference threshold degradation should be included for the uplink as well

Resolution of Group Decision of Group reject

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-317 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 272 Starting Line Number 64 Section 8.2.7

Delete: Tx Dynamic Range

**Reason**

Min and Max power specification is preferred

Resolution of Group Decision of Group reject

Reject due to insufficient data

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-318 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 273 Starting Line Number 1 Section 8.2.7

Change: Min transmitted rms power at at Max level setting :

26 GHz band 17 dBm  
32 GHz band 16 dBm  
42 GHz band 15 dBm

with QPSK modulation (0.35 roll-off factor)

**Reason**

Tx power shall be specified as the transmitted rms power

Resolution of Group Decision of Group reject

Not sufficient data. Current comment is baud rate specific and mentions only 3 discrete bands

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-319 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 273 Starting Line Number 4 Section 8.2.7

Insert: Max transmitted rms power at Min level setting: -30 dBm

**Reason**

Maximum and Minimum values specification preferred

Resolution of Group Decision of Group reject

Numbers missing - cannot accept with missing information,

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-320 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 273 Starting Line Number 4 Section 8.2.7

Change: Tx power level adjustment steps and accuracy : The subscriber station shall adjust its Tx power level, based on feedback from the basestation via MAC messaging, in steps of 1.0 dB +- 0.5 dB in a monotonic fashion

**Reason**

1.0 dB step size is preferred

Resolution of Group Decision of Group accept-modified

On the right col, line 5, remove tolerance and TBD reference. This means that text should read "in steps of 0.5 dB in a monotonic fashion". Reason for change - 1 dB too coarse for operating with adaptive burst profiles, 0.5 dB is OK.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-321 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 273 Starting Line Number 16 Section 8.2.7

Insert: Tx Symbol Clock Accuracy: Must be locked to BS symbol clock

**Reason**

Symbol clock accuracy is an important parameter

Resolution of Group Decision of Group reject

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions f) none needed



Comment # 11-322 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 273 Starting Line Number 19 Section 8.2.7

Change : Tx RF frequency/accuracy: SS frequency locking required

**Reason**

Frequency locking is required for SS to achieve high accuracy

Resolution of Group Decision of Group accept

Change "10-60 GHz..." to "SS frequency locking required"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-323 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 273 Starting Line Number 21 Section 8.2.7

Delete "Tx Freq Range"

**Reason**

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

Resolution of Group Decision of Group accept

Implement change as requested by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-324 Comment submitted by: Juha Pihlaja Neither

Change Type Technical Starting Page Number 273 Starting Line Number 21 Section 8.2.7

Delete: Tx frequency range

**Reason**

Not relevant for specification

Resolution of Group Decision of Group accept

Implement change as requested by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-325 Comment submitted by: Jay Klein Member

Change Type Technical Starting Page Number 273 Starting Line Number 23 Section 8.2.7

Replace TBD with "Per relevant local regulation requirements"

**Reason**

Used for the base station as well. Better than TBD.

Resolution of Group Decision of Group accept-modified

Add "OOB" to the dictionary (Out of Band/Block)"

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-326 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 273 Starting Line Number 25 Section 8.2.7

Remove the following items: "Spectral mask (in band)" and "Filter distortion" (including Group delay and amplitude ripple reference)

**Reason**

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

Resolution of Group Decision of Group accept

Implement change as requested by comment

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-327 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 273 Starting Line Number 32 Section 8.2.7

(1) Create a Subscriber Station Receiver section in the table

(2) Add a "BER performance threshold" item identical to the one on page 272 line 48

**Reason**

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

Resolution of Group Decision of Group accept

Implement change as requested by comment

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-328 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 273 Starting Line Number 32 Section 8.2.7

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

**Reason**

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

Resolution of Group Decision of Group accept

Cut and paste contents of pg 272 ln 59 replacing the TBD on pg 273 ln 32

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Copied the entire cell.

Comment # 11-329 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 274 Starting Line Number 9 Section 8.2.7

Change references in the table 64, column named "specification section"

**Reason**

In table 64, "specification Section" column, references does not match any subclause section in the document.

Resolution of Group Decision of Group accept-modified

Remove completely this line from the table.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-330 Comment submitted by: Jay Klein Member

Change Type Editorial Starting Page Number 275 Starting Line Number 40 Section 8.2.7.2.1

Editor is required to Insert accepted changes of Session #10, Comment 579 by J.Klein

**Reason**

Editor forgot to insert change.

Resolution of Group Decision of Group accept-clarified

Implement change as requested by comment. Use document 802161pc-00\_21.pdf (Falconer et al.) and comment 579 from previous session data base.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-331 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 275 Starting Line Number 48 Section 8.2.7.2.1

Include Type 0 in table 65

**Reason**

Type 0 is referenced in the following paragraph (pg 275, line 57) but it is not included in table 65

Resolution of Group Decision of Group accept-duplicate

See previous comment (330)

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-332      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 278      Starting Line Number 62      Section 9.2.1

Change the line to read "Type is a single-byte identifier . . ." instead of "Type is a single- identifier . . ."

Reason

Typo

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-333      Comment submitted by: Stanley Wang      Neither

Change      Type Editorial      Starting Page Number 278      Starting Line Number 63      Section 9.2.1

Change the line to read "Length is a single-byte containing . . ." instaed of "Length is a single containing . . ."

Reason

Typo

Resolution of Group      Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions e) done

Comment # 11-334 Comment submitted by: Antonis Karvelas Neither

Change Type Editorial Starting Page Number 279 Starting Line Number 51 Section 9.2.2

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**

Resolution of Group Decision of Group Accept-Clarified

Rename "Network Access Configuration Setting" to Network Access Configuration Object" on page 279, line 51 and on page 282, line 35.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-335 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 281 Starting Line Number 14 Section 9.2.3

Take out last row in figure 156

**Reason**

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

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution****Group's Notes**

see comment 336

Editor's Notes Editor's Actions f) none needed

Comment # 11-336 Comment submitted by: Stanley Wang Neither

Change Type Editorial Starting Page Number 281 Starting Line Number 14 Section 9.2.3

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).

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

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

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

Change/Delete reference D.3.1.1

**Reason**

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

Resolution of Group Decision of Group Accept-Clarified

change "D.3.1.1" to "9.3.1.1"

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done



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

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

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.

Resolution of Group      Decision of Group      Accept

Replace specified text with "Time between Initial Maintenance regions assigned by the BS"

**Reason for Decision/Resolution**

Antonis Karvelas comment seems to be correct. The only thing that required changing was to remove the word "of" in his suggested ording.

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

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

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

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.

Resolution of Group      Decision of Group      Accept-Clarified

"Ranging Response reception timeout following the transmission of a Ranging Request." Also remove the Minimum Value 50 msec from Table 66 entry.

**Reason for Decision/Resolution**

Remove any ambiguity

**Group's Notes**

Editor's Notes      Editor's Actions      e) done

Comment # 11-340 Comment submitted by: Kenneth Stanwood Member  
 Change Type Editorial Starting Page Number 286 Starting Line Number 49 Section 10.2 Well known

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

## Reason

Consistency with rest of document

Resolution of Group Decision of Group Accept

## Reason for Decision/Resolution

## Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-341 Comment submitted by: Kenneth Stanwood Member  
 Change Type Editorial Starting Page Number 287 Starting Line Number 39 Section 10.2 Well known

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.

Resolution of Group Decision of Group Accept

## Reason for Decision/Resolution

## Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-342 Comment submitted by: Vicente Quilez Observer  
 Change Type Editorial Starting Page Number 288 Starting Line Number 6 Section 11

Change last words in the paragraph "the most-significant bits is the first transmitted on the wire" by "the most significant bits are the first transmitted on the air interface"

## Reason

Transmission of bits "on the wire" does not make sense in the paragraph where the coment is included

Resolution of Group Decision of Group Accept-Modified

Delete the sentence beginning on line 5, "All .." and the similar sentence on page 296, line 58.

## Reason for Decision/Resolution

## Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-343 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 289 Starting Line Number 17 Section 11.1.1.1

Change "Preamble pattern" to "Preamble repetition" which defines how many times the basic 16 symbol preamble should be repeated.

**Reason**

Preamble pattern is fixed and cannot be defined. The repetition count must however be given as a parameter

Resolution of Group Decision of Group Accept-Modified

Also, change the length value to '1' and change the description value to "The number of times the preamble pattern is repeated."

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Deleted existing Value text. Is this correct?

Comment # 11-344 Comment submitted by: Lars Lindh Member

Change Type Technical Starting Page Number 289 Starting Line Number 42 Section 11.1.1.1

Delete Spectrum inversion

**Reason**

There was never a decision to adopt this parameter

Resolution of Group Decision of Group Accept

also delete it from page 44, line 54.

**Reason for Decision/Resolution****Group's Notes**

Editor's Notes Editor's Actions e) done

Deleted from Downlink Mode B: Required UCD parameters as well as uplink

Comment # 11-345 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 290 Starting Line Number 42 Section 11.1.1.2

To explain the use of the Convergence Layer bit (enable/disable)

**Reason**

There is no explanation about the use of it in the text.

Resolution of Group Decision of Group Accept-Modified

remove row in the table corresponding to line 42.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-346 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 292 Starting Line Number 24 Section 11.1.2.2

Change "in pi dB units" by "in 1/4 dB units" in last column, second row starting by the end

**Reason**

Fixing of an editorial mistake

Resolution of Group Decision of Group Accept-Clarified

This change should be propagated throughout the document.

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-347 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 294 Starting Line Number 10 Section 11.1.4

Change "in pi dB units" by "in 1/4 dB units" in last column, first row .

**Reason**

Fixing of an editorial mistake

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-348 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 294 Starting Line Number 15 Section 11.1.4

Change "in pi dB units" by "in 1/4 dB units" in last column, second row

**Reason**

Fixing of an editorial mistake

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-349 Comment submitted by: Antonis Karvelas Neither

Change Type Technical Starting Page Number 294 Starting Line Number 36 Section 11.1.4

Replace the sentence "If this TLV is used, the Ranging Status value must be set to 1" with the following "If this TLV is used, the Ranging Status value must be set to 2".

**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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

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.

Resolution of Group Decision of Group Reject

Reason for Decision/Resolution

Group's Notes

must define abort

Editor's Notes Editor's Actions f) none needed

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

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

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.

Resolution of Group Decision of Group Reject

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-352 Comment submitted by: Kenneth Stanwood Member

Change Type Technical, Non-binding Starting Page Number 313 Starting Line Number 40 Section 11.4.5.3.1 Physical

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.

Resolution of Group Decision of Group Accept-Clarified

Get rid of this section

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-353 Comment submitted by: Kenneth Stanwood Member

Change Type Editorial Starting Page Number 314 Starting Line Number 31 Section 11.4.5.3.3 10-66 GHz

Change type from 5.12.2 to 5.12.3.

**Reason**

5.12.2 is the type of the previous TLV.

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-354 Comment submitted by: Kenneth Stanwood Member

Change Type Technical, Non-binding Starting Page Number 315 Starting Line Number 38 Section 11.4.5.4 Duplexing

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.

Resolution of Group Decision of Group Accept-Clarified

[delete this section](#)

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-355 Comment submitted by: Kenneth Stanwood Member

Change Type Editorial Starting Page Number 316 Starting Line Number 1 Section 11.4.5.4.1 Bandwidth

[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.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-356 Comment submitted by: Antonis Karvelas Neither

Change Type Technical, Binding Starting Page Number 317 Starting Line Number 1 Section 11.4.7.2

[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 .

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done



Comment # 11-357 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 318 Starting Line Number 15 Section 11.4.9.1

Delete the dot before subclause title

Reason

Fixing of a typing mistake

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-358 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 318 Starting Line Number 32 Section 11.4.9.2

Change "Authorize Wait state" by Reauthorize Wait state" at the end of the paragraph

Reason

To be coherent with table 82 and subclause 11.4.9.1

Resolution of Group Decision of Group Accept

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-359 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 318 Starting Line Number 51 Section 11.4.9.3

Change/harmonize Valid Range value in table

Reason

Make coherent the valid range for the Authorization Grace time because it does not match the one in the table 82, page 320 (by 35 days)

Resolution of Group Decision of Group Reject

Reason for Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions f) none needed

Comment # 11-360 Comment submitted by: Kenneth Stanwood Member  
 Change Type Editorial Starting Page Number 325 Starting Line Number 29 Section 11.4.12.5.4 Quality of

Decrease the heading level to 11.4.12.5.

**Reason**

These TLVs are not part of "Service Flow Error Encodings"

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-361 Comment submitted by: Stanley Wang Neither  
 Change Type Technical, Binding Starting Page Number 325 Starting Line Number 29 Section 11.4.12.5.4

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.

Resolution of Group Decision of Group Accept-Duplicate

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

Comment # 11-362 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 327 Starting Line Number 12 Section 11.4.12.7

Equation numbering should be "(1)" instead of "(2)"

**Reason**

References to the equation (for instance, in subclause 11.4.12.7.1) mention "(1)"

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-363 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 328 Starting Line Number 46 Section 11.4.12.9

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

**Reason**

Fixing of an editorial mistake

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

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

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

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

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

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

#### Reason

Complete missing information on the ARQ algorithm parameters specified in the MAC-CREATE-CONNECTION messages (section 6.1.1), and define the TLVs needed to communicate the information required in these messages across the air interface.

Resolution of Group Decision of Group Accept-Modified

Create two new sections: "11.4.12.24 CRC Indicator" and "11.4.12.25 ARQ Indicator." For section 11.4.12.24, include the following text: "The value of this parameter indicates whether a CRC is included in each MAC PDU on the Service Flow." Create a table as for the other TLVs with the following values: Type -> "[24/25].24", Length -> "1", Value -> "0: no CRC <cr> 1: CRC", Scope -> "Configuration File, DSx-REQ, DSx-RSP, DSx-ACK". For section 11.4.12.25, include the following text: "The value of this parameter indicates whether ARQ is used for the Service Flow." Create a table as for the other TLVs with the following values: Type -> "[24/25].25", Length -> "1", Value -> "0: no ARQ <cr> 1: ARQ", Scope -> "Configuration File, DSx-REQ, DSx-RSP, DSx-ACK".

#### Reason for Decision/Resolution

#### Group's Notes

Editor's Notes Editor's Actions e) done

Comment # 11-366 Comment submitted by: Kenneth Stanwood Member

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

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.

Resolution of Group Decision of Group Accept-Duplicate

#### Reason for Decision/Resolution

#### Group's Notes

see comment 365

Editor's Notes Editor's Actions f) none needed

Comment # 11-367 Comment submitted by: Carl Eklund Member

Change Type Editorial Starting Page Number 337 Starting Line Number 48 Section Annex A

Delete entire annex

**Reason**

It does not belong in the document. Also the text is outdated and confusing.

Resolution of Group Decision of Group Accept

**Reason for Decision/Resolution**

Serves no purpose in standard. Already out of date, and will be difficult to maintain synchronicity with main text.

**Group's Notes**

Editor's Notes Editor's Actions e) done

Also deleted "Address the 802 system management guidelines (see A.9)." from Section 1.2.

Comment # 11-368 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 337 Starting Line Number 61 Section A.1

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

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

Defer until decision on renumbering PAR.

**Group's Notes**

superceded by previous comment resolution

Editor's Notes Editor's Actions e) done

Change made globally, since PAR changed was approved by Working Group

Comment # 11-369 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 339 Starting Line Number 8 Section A.2

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"

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

Defer until decision on renumbering PAR.

**Group's Notes**

superceded by 367

Editor's Notes Editor's Actions f) none needed

Comment # 11-370 Comment submitted by: Vicente Quilez Observer

Change Type Editorial Starting Page Number 339 Starting Line Number 13 Section A.2

In figure 159, third row last column, change "802.16 P-MP Radio" by "802.16.3 P-MP Radio".

**Reason**

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

Resolution of Group Decision of Group Reject

**Reason for Decision/Resolution**

Defer until decision on renumbering PAR.

**Group's Notes**

superceded by 367

Editor's Notes Editor's Actions f) none needed

Comment # 11-371 Comment submitted by: Carl Eklund Member

Change Type Editorial Starting Page Number 1 Starting Line Number 1 Section Overall

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.

Resolution of Group Decision of Group Accept-Modified

Accept with clarifications from the PHY groupnd making sure that someone, Carl, identifies the moved sections. In the new document, erase section 8.2.4.3.2.1 and remove table 33. The section 8.2.4.5.4 in the new numbering should be moved to 8.2.5.1.2.

**Reason for Decision/Resolution**

**Group's Notes**

Action: This must be done prior to any other comment resolutions are integrated in the document.

Editor's Notes Editor's Actions e) done

Comment # 11-372 Comment submitted by: Jay Klein Member

Change Type Technical Starting Page Number 273 Starting Line Number 17 Section 8.2.7

Change +/- 1/2 with +/- 1/4 accuracy to +/-1/4 with +/- 1/8 accuracy.

**Reason**

This is change relaxes base station receiver design and imposes almost no penalty on the subscriber transmitter.

Resolution of Group Decision of Group accepted

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-373 Comment submitted by: Jay Klein Member

Change Type Technical Starting Page Number 272 Starting Line Number 17 Section 8.2.7

Insert at transmitter sections (both base station and subscriber): Max. Ramp up/Ramp down time = 24 symbols (6 Physical slots)

Insert at table end: Max. Transition time from Tx to Rx (and vice versa): 2 microseconds

**Reason**

Missing information in current document. Required for TDMA burst transmission (first part) and burst FDD/TDD (second part).

Resolution of Group Decision of Group accepted

Implement as requested by comment

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Comment # 11-374 Comment submitted by: Editorial Group

Change Type Editorial Starting Page Number Starting Line Number Section

**Reason**

Resolution of Group Decision of Group

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions f) none needed

no comment of this number

Comment # 11-375 Comment submitted by: Editorial Group

Change Type Editorial Starting Page Number Starting Line Number Section

**Reason**

Resolution of Group Decision of Group

Remove all items from 8.2.7 which have no data (TBD) and relevant sections which reference these items

**Reason for Decision/Resolution**

**Group's Notes**

Editor's Notes Editor's Actions e) done

Editor does not know which are the "relevant sections which reference these items".



Comment # 11-376      Comment submitted by: Editorial Group

Change	Type	Starting Page Number	Starting Line Number	Section
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Reason

Resolution of Group      Decision of Group

Remove TBR notation from items in 8.2.7 (keep the items)

Reason for Decision/Resolution

Group's Notes

Editor's Notes      Editor's Actions      e) done