Comments by Page # / Line#

Page/Line: 5 /61 **Number** 1 **Section** TOC **Name:** Wang Stanley **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

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

Page/Line: 16 /10 **Number** 2 **Section** 1.3 **Name:** Quilez Vicente **Type:** Editorial

Change:
To supress 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: Resolved

Recomendation: Reject

Prop. Resolution:

Reason: Defer first part pending decision on PAR renumbering. Reject second part for consistency (PHYs of other 802 standards are not numbered in the figure.]

Notes: Revisit following PAR number revisions.

Page/Line: 17 /3 **Number** 3 **Section** 1.3 **Name:** Quilez Vicente **Type:** Editorial

Change:
To include in the standards enummeration 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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes: Must find full citation.

Page/Line: 19 /35 **Number** 4 **Section** 3 **Name:** Karvelas Antonis **Type:** Technical

Change:
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 transmis

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

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: change "and" for "or" in recommended wording.

Reason:

Notes:

Page/Line: 19 /35   **Number** 5   **Section** 3   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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 bith upstream and downstream.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 4.

Page/Line: 19 /41   **Number** 6   **Section** 3 Definitions   **Name:** Stanwood   Kenneth   **Type:** Technical

Change:
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: Resolved

Recomendation: Accept-Clarified

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

Reason:

Notes:

Page/Line: 19 /64   **Number** 7   **Section** 3.11   **Name:** Wang   Stanley   **Type:** Editorial

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

Reason:
Grammatical error.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 20 /23   **Number** 8   **Section** 3.18   **Name:** Hum   Coleman   **Type:** Editorial

Change:
move Section 3.18 before 3.15

Reason:
Alphabetical ordering

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: also move 3.19 to meet alphabetical ordering.

Reason:

Notes:

Page/Line: 20 /26   **Number** 9   **Section** 3.19   **Name:** Hum   Coleman   **Type:** Editorial

Change:
move Section 3.19 before 3.15

Reason:
Alphabetical ordering

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 8.

Page/Line: 20 /38   **Number** 10   **Section** 3.22   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Reject

Prop. Resolution:

Reason:

Notes:

Page/Line: 20 /39   **Number** 11   **Section** 3.22   **Name:** Quilez   Vicente   **Type:** Technical, Binding

Change:
To clarify whether the mini-slot concept is also valid for the downstream in the mini-slot defintion 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: Resolved

Recomendation: Accept-Clarified

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

Reason:

Notes:

Page/Line: 20 /44   **Number** 12   **Section** 3.24   **Name:** Johnson   Robert   **Type:** Technical

Change:
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 re

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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 20 /44   **Number** 13   **Section** 3.24   **Name:** Wang   Stanley   **Type:** Technical

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 20 /52   **Number** 14   **Section** 3.26 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Add the following definition:␣ Protocol Data Unit (PDU): A data unit generated   Per ISO /IEC 7498-1:1994, the term "PDU" and "SDU" are clearly defined and
by a particular protocol layer for its next lower layer.   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 followin

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 20 /53   **Number** 15   **Section** 3.26 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Add the following definition after the definition for "Privacy Key Mamagement   Ranging is an important step of the entire process and should have been defined.
Protocol":␣ "Ranging: The process of acquiring the correct timing offset such that
the subscriber stations are aligned to a symbol that marks the begining of a mini-
slot boundary

Recomendation: Reject

Prop. Resolution:

Reason: Ranging is sufficiently defined in the section on ranging.

Notes:

Page/Line: 20 /62   **Number** 16   **Section** 3 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
To align the defined term and the corresponding definition.   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 Po

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 17

Page/Line: 20 /62   **Number** 17   **Section** 3.28 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Change the definition for "Service Access Point" to read:␣ "Service Access Point   SAP is a general term for all protocol layers not just the MAC layer. The original
(SAP): The point in a protocol stack where the services of a lower layer are   definition suggests otherwise.
available to its next higher layer."

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /1   **Number** 18   **Section** 3.29 **Name:** Johnson   Robert   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Add the following definition: "Service Data Unit (SDU): A data unit handed to a   This definition is used in support of IEEE 802.16.1c-01/02, a proposed
particular protocol layer from the layer above it."   specification for Convergence Sublayer supporting variable-length, packet-based
                                                               high-layer protocols. Note that the definition for SDU is per ISO/IEC 7498
                                                               standard.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /1   **Number** 19   **Section** 3.29 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the end of the line to read "that provides a" instead of "that is provided a"   Grammatical error.

Recomendation: Reject

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /1   **Number** 20   **Section** 3.29 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Add the following definition: Service Data Unit (SDU): A data unit handed to a   Per ISO /IEC 7498-1:1994, the term "PDU" and "SDU" are clearly defined and
particular protocol layer from the layer above it.   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 partic

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /36   **Number** 21   **Section** 3.39 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Change the definition for "Uplink" to read: "Uplink (UL): A flow of information   Like "downlink", the word "uplink" refers to a flow not a direction. The word
that exists in the upstream."   "upstream" is used to indicate the direction.

Recomendation: Accept-Modified

Prop. Resolution: Change all occurences of the words "upstream" and "downstream" to "uplink" and "downlink" respectively. Also delete definition numbers 3.12

Reason:

Notes:

Page/Line: 21 /52   **Number** 22   **Section** 4   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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) - SA (Security Associ

Reason:
To complete abbreviations chapter

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /59   **Number** 23   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /62   **Number** 24   **Section** 4   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 21 /62   **Number** 25   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /3　　**Number** 26　　**Section** 4　　**Name:** Wang　　　　Stanley　　**Type:** Editorial

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

Reason:
Out of order

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /21　　**Number** 27　　**Section** 4　　**Name:** Marks　　　　Roger　　**Type:** Editorial

Change:
Delete "H-FDD Half-duplex FDD"

Reason:
Term appears nowhere else in current draft.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /21　　**Number** 28　　**Section** 4　　**Name:** Wang　　　　Stanley　　**Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /28　　**Number** 29　　**Section** 4　　**Name:** Wang　　　　Stanley　　**Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /42   **Number** 30   **Section** 4   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /42   **Number** 31   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /43   **Number** 32   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /45   **Number** 33   **Section** 4   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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", "PHSR Payload Header Suppressi

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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /45   **Number** 34   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /50   **Number** 35   **Section** 4   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /51   **Number** 36   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /54   **Number** 37   **Section** 4   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Add "SA Security Association"

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

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /58   **Number** 38   **Section** 4   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 22 /61   **Number** 39   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 23 /5   **Number** 40   **Section** 4   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 23 /6   **Number** 41   **Section** 4   **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 23 /7   **Number** 42   **Section** 4   **Name:** Wang   Stanley   **Type:** Editorial

Change: Delete "DIUC Downlink Interval Usage Code"

Reason: Already defined on page 22, line 5.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 23 /13   **Number** 43   **Section** 4   **Name:** Wang   Stanley   **Type:** Technical

Change: 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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 24 /1   **Number** 44   **Section** 5.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: 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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Stanley Wang will provide new text for this section.

Reason:

Notes:

Page/Line: 24 /23   **Number** 45   **Section** 5.2   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change: 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 b

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: Resolved

Recomendation: Accept-Modified

Prop. Resolution:

Reason:

Notes: Carl Eklund will provide modified document for insertion.

Page/Line: 25 /31   **Number** 46   **Section** 6 **Name:** Eklund   Carl   **Type:** Technical

Change:
Replace "minimizes contention" with "allocates capacity"

Reason:
The protocol does not minimize contention.

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Replace" minimizes contention" with "controls contention"

Reason:

Notes:

Page/Line: 25 /60   **Number** 47   **Section** 6 **Name:** Wang   Stanley   **Type:** Editorial

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

Reason:
Grammatical error.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: Search for occurrances of SS. If preceeded by "A" or "a" change to "An" or "an" respectively.

Reason: MS Word's grammar checker preferrs "an SS"

Notes:

Page/Line: 27 /39   **Number** 48   **Section** 6.1.1 **Name:** Quilez   Vicente   **Type:** Editorial

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

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

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

Notes:

Page/Line: 27 /43   **Number** 49   **Section** 6.1.1 **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 27 /49 **Number** 50 **Section** 6.1.1 **Name:** Wang   Stanley **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 27 /55 **Number** 51 **Section** 6.1.1 **Name:** Wang   Stanley **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 27 /61 **Number** 52 **Section** 6.1.1 **Name:** Wang   Stanley **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 28 /59 **Number** 53 **Section** 6.1.1.1.2 **Name:** Johnson   Robert **Type:** Technical, Binding

Change:
Replace "traffic parameters" with "service flow parameters"

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution: accept as is.

Reason: 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.

Notes:

| **Page/Line:** | 28 /60 | **Number** | 54 | **Section** | 6.1.1.1.2 | **Name:** | Johnson | Robert | **Type:** Technical, Binding |

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: discuss when Ensemble's packing proposal is discussed.

Reason:

Notes: see comment 55

| **Page/Line:** | 28 /60 | **Number** | 55 | **Section** | 6.1.1.2 | **Name:** | Wang | Stanley | **Type:** Technical, Binding |

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

| **Page/Line:** | 28 /65 | **Number** | 56 | **Section** | 6.1.1.1.2 | **Name:** | Hum | Coleman | **Type:** Technical |

Change:
ARQ parameters (optional)

Reason:
ARQ is optional.

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

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

Notes:

| **Page/Line:** | 29 /16 | **Number** | 57 | **Section** | 6.1.1.1.2 | **Name:** | Johnson | Robert | **Type:** Technical, Binding |

Change:
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

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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 58

Page/Line: 29 /16 **Number** 58 **Section** 6.1.1.2 **Name:** Wang   Stanley **Type:** Technical, Binding

Change:
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 va

Reason:

Resolution: Resolved

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

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 29 /20 **Number** 59 **Section** 6.1.1.1.2 **Name:** Eklund   Carl **Type:** Technical

Change:
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:

Resolution: Resolved

Current text is in contradiction to what has been agreed

Recomendation: Accept

Prop. Resolution: "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: 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.

Notes:

Page/Line: 29 /20 **Number** 60 **Section** 6.1.1.1.2 **Name:** Quilez   Vicente **Type:** Editorial

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

Reason:

Resolution: Resolved

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 clarif

Recomendation: Accept-Duplicate

Prop. Resolution: use change proposed in 59

Reason: 59 has specific wording for the change.

Notes:

Page/Line: 29 /24 **Number** 61 **Section** 6.1.1.1.2 **Name:** Leiba   Yigal **Type:** Editorial

Change:
Add explenation for the ARQ-parameters field in the MAC-CREATE-CONNECTION.request message. The explenation appears for the same field in the MAC-CREATE-CONNECTION.response, and states (page 30, lines 63-65), 'The ARQ parameters are: whether ARQ is used or

Reason:

Resolution: Resolved

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

Recomendation: Accept

Prop. Resolution: Use the wording provided here by Yigal.

Reason: Clears up coments56 and 62

Notes:

Page/Line: 29 /25   **Number** 62   **Section** 6.1.1.1.2   **Name:** Hum   Coleman   **Type:** Technical

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

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

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: Use wording proposed in 61.

Reason: 61 provides specific wording.

Notes:

Page/Line: 29 /25   **Number** 63   **Section** 6.1.1.1.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To include a description of the "ARQ parameters" carried by the primitive. The description to be include is the one appearing on page 30, lines 64-65.

Reason:
All other parameters are described.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: Use wording proposed in 61.

Reason: 61 provides specific wording.

Notes:

Page/Line: 30 /1   **Number** 64   **Section** 6.1.1.2.2   **Name:** Johnson   Robert   **Type:** Technical

Change:
Replace "traffic parameters" with "service flow parameters"

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: Same reason as 53.

Notes:

Page/Line: 30 /8   **Number** 65   **Section** 6.1.1.2.2   **Name:** Hum   Coleman   **Type:** Technical

Change:
ARQ parameters (optional)

Reason:
ARQ is also not returned.

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason: ARQ On/Off verification required at a minimum.

Notes:

Page/Line: 30 /20   **Number** 66   **Section** 6.1.1.2.4   **Name:** Wang   Stanley   **Type:** Editorial

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

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 30 /34   **Number** 67   **Section** 6.1.1.3.1   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change ".INDICATION" to ".indication"

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 31 /20   **Number** 68   **Section** 6.1.1.4.1   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change "fro" to "for"

Reason:
Typo

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 31 /37   **Number** 69   **Section** 6.1.1.4.2   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change ".response" to ".response."

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 31 /61   **Number** 70   **Section** 6.1.1.5   **Name:** Hum   Coleman   **Type:** Editorial

Change:
Change AC to MAC

Reason:
Dropped Letter

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 31 /61   **Number** 71   **Section** 6.1.1.5   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason:
A character is missing.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason: duplicate with 70

Notes:

Page/Line: 33 /39 **Number** 72 **Section** 6.1.1.8.3 **Name:** Wang Stanley **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
Change ".INDICATION" to ".indication" Consistency issue (per its original definition on page 27, line 44).

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 34 /38 **Number** 73 **Section** 6.1.1.10.2 **Name:** Johnson Robert **Type:** Technical, Binding

Change: **Reason:** **Resolution:** Resolved
Add the following line: "CS pass through," 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.

Recomendation: Accept

Prop. Resolution: defer to discussion of ATM and packet convergence sublayers

Reason:

Notes:

Page/Line: 34 /38 **Number** 74 **Section** 6.1.1.10.2 **Name:** Wang Stanley **Type:** Technical, Binding

Change: **Reason:** **Resolution:** Resolved
Add the following line: "CS pass through," This change is included in support of IEEE 802.16.1c-01/01, a proposed
specification for ATM Convergence Sublayer.

Recomendation: Accept-Duplicate

Prop. Resolution: defer to discussion of ATM and packet convergence sublayers

Reason:

Notes:

Page/Line: 34 /49 **Number** 75 **Section** 6.1.1.10.2 **Name:** Eklund Carl **Type:** Technical

Change: **Reason:** **Resolution:** Resolved
Delete sentence "The length .." There is no need for limiting the size of the MSDU as fragmentation exists.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 34 /52   **Number** 76   **Section** 6.1.1.10.2   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
Add the following paragraph: "The CS pass through specifies the 3-bit information passed by the CS. It is to be placed in the CPT field of the MAC-CPS PDU header."

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution: defer to discussion of ATM and packet convergence sublayers

Reason:

Notes:

Page/Line: 34 /52   **Number** 77   **Section** 6.1.1.10.2   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
Add the following paragraph: "The CS pass through specifies the 3-bit information passed by the CS. It is to be placed in the CPT field of the MAC-CPS PDU header."

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

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: defer to discussion of ATM and packet convergence sublayers

Reason:

Notes:

Page/Line: 35 /1   **Number** 78   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change "sub-layer" to "sublayer" and similar incidences throughout the document (e.g., page 35, line 2).

Reason:
In the document, "sub-layer" is used in some places and "sublayer" is used in others. Make them consistent.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 35 /29   **Number** 79   **Section** 6.1.1.11.2   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 35 /29   **Number** 80   **Section** 6.1.1.11.2 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: defer to discussion of ATM and packet convergence sublayers

Reason:

Notes:

Page/Line: 35 /59   **Number** 81   **Section** /Control Plane **Name:** Stanwood   Kenneth   **Type:** Technical, Binding

Change:
See Section 2 of IEEE 802.16.1c-01/03r0: 1. Insert a new section on page 35, line 59 by moving the text from page 286, line 51 through page 287, line 24: 6.2.1 Connections Modify this moved text: Page 286, line 60 change "registration" to "initial acce

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

Resolution: Resolved

Recomendation: Enter here

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

Reason:

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

Page/Line: 36 /2   **Number** 82   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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

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

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Delete the 2 sentences referenced in the comment

Reason:

Notes:

Page/Line: 36 /3   **Number** 83   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Editorial

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

Reason:
Grammatical error.

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason:

Notes:

Page/Line: 36 /9   **Number** 84   **Section** 6.2.1   **Name:** Eklund   Carl   **Type:** Technical

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 36 /23   **Number** 85   **Section** 6.2.1   **Name:** Eklund   Carl   **Type:** Technical

Change:
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

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: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: Replacing sentence should read "When a connection is designated as requiring CRC every MAC PDU shall include a CRC-32 checksum as defi

Reason:

Notes:

Page/Line: 37 /13   **Number** 86   **Section** 6.2.1   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
Change the uplink MAC header format to include a new 3-bit field. Label the new field "CPT" and place it after the "PDE" field. Reduce the 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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 37 /13   **Number** 87   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Editorial

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

Reason:
Consistency issue (all other reserved fields are shaded).

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: shade

Reason:

Notes:

Page/Line: 37 /13   **Number** 88   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 37 /56   **Number** 89   **Section** 6.2.1   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 37 /56   **Number** 90   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 38 /6   **Number** 91   **Section** 6.2.1   **Name:** Eklund   Carl   **Type:** Editorial

Change:
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". Th

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: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: 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

Reason:

Notes:

Page/Line: 39 /8   **Number** 92   **Section** 6.2.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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 Ma

Reason:

Notes:

Page/Line: 39 /13   **Number** 93   **Section** ssage Formats   **Name:** Stanwood   Kenneth   **Type:** Technical

Change:
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 b

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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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

Reason:

Notes:

Page/Line: 39 /19   **Number** 94   **Section** 6.2.1   **Name:** Johnson   Robert   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Add a new row into table 1 containing "CPT | 3 | For the convergence sublayer to pass information to its peer convergence sublayer. These bits a

Reason:

Notes:

Page/Line: 39 /19   **Number** 95   **Section** 6.2.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 94.

Page/Line: 39 /42   **Number** 96   **Section** 6.2.1 **Name:** Hum   Coleman   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
The unsolicited grant size in bytes per interval required by a connection UGS   Need to define the units for a grant.
with Activity Detection

Recomendation: Accept-Clarified

Prop. Resolution: 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:

Notes:

Page/Line: 40 /18   **Number** 97   **Section** 6.2.1 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Move the entire row for "CI" to page 39, line 15 after the row for "BR"   Out of order

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 40 /22   **Number** 98   **Section** 6.2.1 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Move the entire row for "PDE" to page 40, line 10 after the row for "PBR"   Out of order

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 40 /28   **Number** 99   **Section** 39 **Name:** Hum   Coleman   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
Need ARQ proposal?   Requires more detail on the mechanism such as how retransmits are requested,
timeouts, etc. The MAC headers need to show the optional ARQ bytes.

Recomendation: Reject

Prop. Resolution:

Reason:

Notes:

Page/Line: 40 /28   **Number** 100   **Section** 6.2.1 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
To insert a more descriptive text and provide some explanation diagrams about   The description contained in the text only take into account the behaviour of the
the ARQ mechanism foreseen in the standard.   transmitter side, but it is also necessary to describe the receiver side behaviour
(e.g., behaviour when receiving wrong packets, etc)

Recomendation: Accept-Modified

Prop. Resolution: 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 Mecha

Reason: 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.

Notes:

Page/Line: 40 /30 **Number** 101 **Section** 6.2.1 **Name:** Eklund Carl **Type:** Technical

Change:
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 sectioin is about the only thing

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: delete

Reason:

Notes:

Page/Line: 40 /30 **Number** 102 **Section** 6.2.1 **Name:** Quilez Vicente **Type:** Technical, Binding

Change:
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 T

Resolution: Resolved

Recomendation: Accept-Clarified

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

Reason:

Notes:

Page/Line: 40 /34 **Number** 103 **Section** 6.2.1 **Name:** Leiba Yigal **Type:** Editorial

Change:
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

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

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason:

Notes: comment 100 makes this comment unnecessary.

Page/Line: 40 /47 **Number** 104 **Section** 6.2.1.1.1 **Name:** Eklund Carl **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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."

Reason:

Notes:

Page/Line: 41 /47 **Number** 105 **Section** 6.2.1.1.2 **Name:** Wang   Stanley **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "a SA" to "an SA" and similar incidences throughout the document (e.g., page 41, line 47 again).   Grammatical error.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 41 /47 **Number** 106 **Section** 6.2.1.1.2 **Name:** Wang   Stanley **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "a SA" to "a Security Association (SA)".   SA appears for the first time and should be spelled out.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 43 /15 **Number** 107 **Section** 6.2.1.2 **Name:** Karvelas   Antonis **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Delete of define somewhere in the standard the DCC-REQ and DCC-RSP MAC Management messages.   There is nowhere definition of the DCC-REQ and DCC-RSP MAC Management messages.

Recomendation: Accept-Modified

Prop. Resolution: Insert new subsections within the "6.2.1.2 MAC Management Messages" to be used for the definitions of "Dynamic Channel Change-Request (D

Reason:

Notes:

Page/Line: 43 /23 **Number** 108 **Section** ment Messages **Name:** Stanwood   Kenneth **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
On page 43, line 23 add: 24 DBTC-RSP Downlink Burst Type Change Response. On page 43, line 24, change "24" to "25". On page 89, line 5 add a section for the Downlink Burst Type Change Response (DBTC-RSP) Message. It should have the same exact structu   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, b

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 43 /25 **Number** 109 **Section** ment Messages **Name:** Stanwood   Kenneth **Type:** Technical

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

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 d

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 43 /33 **Number** 110 **Section** 6.2.1.2.1 **Name:** Quilez   Vicente **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

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

Reason:

Notes:

Page/Line: 44 /46 **Number** 111 **Section** 6.2.1.2.1 **Name:** Yanover   Vladimir **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: See comment 371

Page/Line: 44 /57 **Number** 112 **Section** 6.2.1.2.1 **Name:** Quilez   Vicente **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 371

Page/Line: 45 /1   **Number** 113   **Section** 6.2.1.2.1   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason:
Missing word

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: add cross-reference to figure 12.

Reason:

Notes:

Page/Line: 47 /16   **Number** 114   **Section** 6.2.1.2.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To explicitely describe the characteristics of TDM Burst type 1

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

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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 "Downli

Reason:

Notes:

Page/Line: 47 /40   **Number** 115   **Section** 6.2.1.2.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Add the following sentences on page 47, line 44: "The Gap Downlink Burst Type (DIUC=14) indicates a silent interval in downlink transmissio

Reason:

Notes:

Page/Line: 48 /28   **Number** 116   **Section** 6.2.1.2.2   **Name:** Karvelas   Antonis   **Type:** Technical, Non-bindin

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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) i

Reason:

Notes:

Page/Line: 48 /32   **Number** 117   **Section** 6.2.1.2.3   **Name:** Yanover   Vladimir   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 371

Page/Line: 48 /35   **Number** 118   **Section** 6.2.1.2.2   **Name:** Eklund   Carl   **Type:** Technical

Change:
Make irrelevant TLVs optional in the burst descriptos

Reason:
There is little use for a Mode A BS to tell 10^6 times during its lofetime 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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: PHY should take care of it.

Page/Line: 49 /26   **Number** 119   **Section** Figure 15   **Name:** Hum   Coleman   **Type:** Editorial

Change:
Type 5)

Reason:
missing closing bracket

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: comment 371 has taken care of it

Page/Line: 49 /26   **Number** 120   **Section** 6.2.1.2.3   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason:
To avoid inconsistency

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: 371

Page/Line: 49 /53   **Number** 121   **Section** 6.2.1.2.3   **Name:** Eklund   Carl   **Type:** Technical

Change:
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 th

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

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: 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 t

Reason:

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

Page/Line: 49 /54   **Number** 122   **Section** 6.2.1.2.3   **Name:** Yanover   Vladimir   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: comment 371

Page/Line: 55 /14   **Number** 123   **Section** 6.2.1.2.5   **Name:** Eklund   Carl   **Type:** Editorial

Change:
Add UIUC=0 reserved to table 4

Reason:
UIUC=0 is not defined

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 56 /15   **Number** 124   **Section** 6.2.1.2.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To add a "l" to "Til"

Reason:
Missing letter

Resolution: Resolved

Recomendation: Accept

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

Reason:

Notes:

Page/Line: 56 /32 **Number** 125 **Section** 6.2.1.2.5 **Name:** Quilez   Vicente **Type:** Editorial

Change: 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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 56 /38 **Number** 126 **Section** 6.2.1.2.5 **Name:** Eklund   Carl **Type:** Editorial

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

Reason: List is about CIDs in the initial maintenance intervals.

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: turn e) into a stand alone paragraph instead of a bulleted item.

Reason:

Notes:

Page/Line: 56 /45 **Number** 127 **Section** 6.2.1.2.5 **Name:** Karvelas   Antonis **Type:** Technical, Binding

Change: 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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Replace the sentence with: "The identifier of the downlink channel on which the SS received the UCD which described the uplink on which this r

Reason:

Notes:

Page/Line: 56 /46 **Number** 128 **Section** 6.2.1.2.5 **Name:** Quilez   Vicente **Type:** Editorial

Change: 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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 58 /2 **Number** 129 **Section** 6.2.1.2.7 **Name:** Yanover Vladimir **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Replace "Requested DL Modulation Maximum Modulation Type Supported" to "Granted downlink burst type." This requires that the same cha

Reason:

Notes:

Page/Line: 58 /61 **Number** 130 **Section** 6.2.1.2.7 **Name:** Quilez Vicente **Type:** Editorial

Change:
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: Resolved

Recomendation: Reject

Prop. Resolution:

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

Notes:

Page/Line: 58 /62 **Number** 131 **Section** 6.2.1.2.7 **Name:** Quilez Vicente **Type:** Editorial

Change:
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: Resolved

Recomendation: Reject

Prop. Resolution:

Reason: similar reason as comment 130.

Notes:

Page/Line: 58 /64 **Number** 132 **Section** EQ) Message **Name:** Stanwood Kenneth **Type:** Technical, Binding

Change:
See section 3 of IEEE 802.16.1c-01/03r0: 1. On page 58, delete line 64. 2. On page 59, delete line 1. 3. On page 59, line 27 add: - Uplink Service Flow Configuration Settings - Downlink Service Flow Configuration Settings 4. On page 60, delete lines 4

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 sc

Resolution: Resolved

Recomendation: Accept-Modified

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

Reason:

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

Page/Line: 59 /8   **Number** 133   **Section** 6.2.1.2.7   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Delete the Downlink Modulation Configuration Setting and also the 11.4.4   This setting doesn't exist in the Configuration File based on the 9.2.2 section.
section.

Recomendation: Reject

Prop. Resolution:

Reason:

Notes: already addressed by another comment by Ken Stanwood.

Page/Line: 84 /58   **Number** 134   **Section** 6.2.1.2.18   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
To change "Request" by "Response" in the title   To correct the title

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 87 /34   **Number** 135   **Section** EQ) Message   **Name:** Stanwood   Kenneth   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
On page 87, line 34 add the lsit of parameters, referencing the correct   Consistency with rest of document and clarity when building the message.
section: ˌ Multicast CID (see section 11.1.4.1)ˌ Assignment (see section
11.1.4.1)ˌ ˌ On page 88, line 10: reference TLV section for this message which
must be added on page 295, line 21

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 88 /21   **Number** 136   **Section** 6.2.1.2.21   **Name:** Leiba   Yigal   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
In response to the ARQ-ACK message whose format is specified as TBD, the   Response for TBD
following format is proposedˌ ˌ Bit 0   Bit 8   Bit 15ˌ "--+--
+--+--+--+--+--+--"--+--+--+--+--+--+--"ˌ "

Recomendation: Accept-Modified

Prop. Resolution: Replace the contents of this section with "This section is for future study."

Reason:

Notes:

Page/Line: 88 /37   **Number** 137   **Section** 6.2.1.2.22   **Name:** Eklund   Carl   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
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
Interv

Recomendation: Accept-Modified

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

Reason:

Notes:

Page/Line: 88 /61   **Number** 138   **Section** 6.2.1.2.22   **Name:** Eklund   Carl   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
Replace the list of data grant burst types(i.e. until line 4 of next page) with ¸ -   The figure states DIUC which is not clear from the parameters.
DIUCs as defined in <reference to table 3>. Only DIUC values from 0-5 are
allowed.

Recomendation: Accept-Modified

Prop. Resolution: Accept comment except for the last sentence.

Reason:

Notes:

Page/Line: 89 /40   **Number** 139   **Section** 6.2.1.4   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the sentence to read ". . . Service Flow to 00 and 0000, respectively."   Per its definition (see page 89 line59), FC is a two-bit value.
instead of ". . . Service Flow to 0 and 0000, respectively."

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 90 /4   **Number** 140   **Section** 6.2.1.4   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
To insert first, thus reading "new first fragment...".   As it appears in the text, the description of the behaviour of the system after
                                                            fragment loss is ambiguous.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 90 /6 **Number** 141 **Section** 6.2.1.4.1 **Name:** Eklund   Carl   **Type:** Technical

Change:
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 frag-mentation. Likewise, decryption is applied before reassembl

Reason:
We do not intend to fragment MAC PDUs

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: 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"

Reason:

Notes:

Page/Line: 90 /38 **Number** 142 **Section** 6.2.2.1 **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: clarification

Notes:

Page/Line: 90 /44 **Number** 143 **Section** 6.2.2.1. **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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 sectio

Reason:
To increase the understanding of the standard.

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: Add definition of bandwidth stealing to section 3: "Bandwidth Stealing - Bandwidth stealing is when a GPT SS uses a portion of the bandwidth a

Reason: clarification

Notes:

Page/Line: 91 /29 **Number** 144 **Section** 6.2.2.1.1. **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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

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

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: Accept the 3rd of the 3 suggested options.

Reason: typo

Notes:

Page/Line: 91 /30   **Number** 145   **Section** 6.2.2.1.1.   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason: **Resolution:** Resolved
To be coherent with the description of the Generic MAC header (figure 5).

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 91 /35   **Number** 146   **Section** 6.2.2.1.1   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change "mismatch's" to "mismatches"

Reason: **Resolution:** Resolved
Typo

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 91 /36   **Number** 147   **Section** 6.2.2.1.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To change: non-USG by: non-UGS

Reason: **Resolution:** Resolved
The Unsolicited Grant Service is referred as UGS.

Recomendation: Accept-Modified

Prop. Resolution: Also change every other occurance in the text or figures of the term "USG" to "UGS" throughout the document.

Reason: consistency in document

Notes:

Page/Line: 91 /40   **Number** 148   **Section** 6.2.2.1.1.   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason: **Resolution:** Resolved
To be coherent with the description of the Generic MAC header (figure 5).

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 92 /34   **Number** 149   **Section** 6.2.2.1.3.   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason: **Resolution:** Resolved
To be coherent with the description of the Generic MAC header (figure 5).

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 92 /35 **Number** 150 **Section** 6.2.2.1.3 **Name:** Wang   Stanley **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "UGS/AD" to "UGS-AD"   Per its definition on page 23, line 11.

Recomendation: Accept-Modified

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

Reason: consistency in document

Notes:

Page/Line: 92 /36 **Number** 151 **Section** 6.2.2.1.3 **Name:** Quilez   Vicente **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
To change: .. the Bandwidth Management field .. ˌ by: .... the Grant   To be coherent with the description of the Generic MAC header (figure 5).
Management field .. ˌ

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 92 /38 **Number** 152 **Section** 6.2.2.1.3 **Name:** Wang   Stanley **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "UGS/AD" to "UGS-AD"   Per its definition on page 23, line 11.

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 94 /1 **Number** 153 **Section** 6.2.2.2.1 **Name:** Quilez   Vicente **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
In the sentence: ..GPT mode most requests are incremental, but the SS   To ease the understanding of both kind of request mechanims at GPT mode, as
periodically issues aggregate requests.. ˌ to add the proper references to the   well as how this different mechanisms work
messages used to distinguish between both kind of requests (incremental or
aggregate). ˌ

Recomendation: Accept-Duplicate

Prop. Resolution: The text to fix this is in comment 93.

Reason: Fill hole in how to do this function.

Notes: see comment 93

Page/Line: 94 /3 **Number** 154 **Section** 6.2.2.2.1 **Name:** Wang Stanley **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
Add "." to the end of the line. Punctuation error.

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 96 /5 **Number** 155 **Section** 6.2.2.2.1.2. **Name:** Quilez Vicente **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
There are several arrows missing in the flowchart described in figure 48. To clarify the implementation of the GPT mode, since this flowchart is the only explanation on how this mode works.

Recomendation: Accept

Prop. Resolution: Add arrowheads to Figures 47 and 48.

Reason: clarification of figures

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

Page/Line: 96 /12 **Number** 156 **Section** 6.2.2.2.1.2. **Name:** Quilez Vicente **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
To change the text: Request Bandwidth for CIDx, by: Request Bandwidth for The BS only knows the Basic CID associated to the SS, in GPTmode .
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.

Recomendation: Accept-Modified

Prop. Resolution: On page 95, change line 55 to read: "For SSs operating in GPT mode, the bandwidth requests are addressed to the individual connections while t

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

Notes:

Page/Line: 96 /44 **Number** 157 **Section** 6.2.2.2.1.2. **Name:** Quilez Vicente **Type:** Technical, Binding

Change: **Reason:** **Resolution:** Resolved
The box placed at the bottom to the rigth of figure 48 says that when there is To clarify whether it is possible to send portion's of next SDU when there might be
another SDU in queue, the SS "sends the untransmitted portion of 1st SDU with space for it in GPT mode.
request for queue contents in piggyback field.", Therefore, it seems that is not
possible to start

Recomendation: Accept-Modified

Prop. Resolution: Task someone (Ken and Juan-Carlos) to draw a clearer picture.

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

Notes:

Page/Line: 98 /3   **Number** 158   **Section** 6.2.2.2.2.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

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

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution: 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 docum

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

Notes:

Page/Line: 98 /13   **Number** 159   **Section** 6.2.2.2.2.1.   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: 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 docum

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

Notes:

Page/Line: 99 /37   **Number** 160   **Section** 6.2.2.2.2.2   **Name:** Eklund   Carl   **Type:** Editorial

Change:
Remove sentence "This will typically.."

Reason:
The sentence provides no useful information.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: Carl's correct. It provides no useful information.

Notes:

Page/Line: 100 /24   **Number** 161   **Section** 6.2.2.2.2.2.   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: 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 docum

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

Notes:

Page/Line: 100 /24   **Number** 162   **Section** 6.2.2.2.2.2   **Name:** Wang   Stanley   **Type:** Technical, Binding

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

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

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: 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 docum

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

Notes:

Page/Line: 100 /54   **Number** 163   **Section** 6.2.2.2.3.   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To change the acronym USG by the acronym UGS in the paragraph placed between lines 54 and 63.

Reason: The acronym used for Ungranted Service is UGS, not USG.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 101 /12   **Number** 164   **Section** 6.2.2.2.3   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To change the acronym USG by the acronym UGS in all the text boxes included in figure 51.

Reason: The acronym for Ungranted Service is UGS, not USG.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 101 /51   **Number** 165   **Section** 6.2.2.3.1.1   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change the second sentence to read ˛ "After either the BS or SS Time Stamps reach the maximum value of 2^29 - 1, both Time Stamps roll over to zero and continue to count." ˛ instead of ˛ "After either the BS or SS Time Stamps reach the maximum value of 2^29 -

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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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 Sta

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

Notes:

Page/Line: 102 /4   **Number** 166   **Section** 6.2.2.3.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To change the expression: .. carried in the Physical Channel Descriptor. ˛ by: ..carried in the Uplink Channel Descriptor.

Reason: There is no Physical Channel Descriptor MAC message. There are only Uplink or Downlink Channel Descriptor MAC messages. To be coherent with the kind of MAC messages definition.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 102 /10   **Number** 167   **Section** 6.2.2.3.2   **Name:** Eklund   Carl   **Type:** Editorial

Change:
Delete paragraph starting "Practical mini.."

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

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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

Reason: 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.

Notes:

Page/Line: 103 /64   **Number** 168   **Section** 6.2.2.3.3.6   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
To include section description of Data Acknowledge IE

Reason:
Data Acknowledge IE is mentioned but not described

Resolution: Resolved

Recomendation: Accept-Modified

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

Reason: Data Acknowledgement IEs no longer exist.

Notes:

Page/Line: 105 /4   **Number** 169   **Section** 6.2.2.4.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
MAC Ctrl should be applied to the same frame that Phy Ctrl. Therefore, n, n+1, n+2 and n+3 should be changed to n-1, n, n+1, n+2.

Reason:
In figure 55, the information included in the MAC Ctrl portion pertains to the same frame and not to the following one as it is in the figure.

Resolution: Resolved

Recomendation: Accept-Modified

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

Reason:

Notes:

Page/Line: 105 /25   **Number** 170   **Section** 6.2.2.4.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
MAC Ctrl should be applied to the same frame that Phy Ctrl. Therefore, n, n+1, n+2 and n+3 should be changed to n-1, n, n+1, n+2.

Reason:
In figure 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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 106 /24   **Number** 171   **Section** 6.2.2.5   **Name:** Wang   Stanley   **Type:** Editorial

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

Reason:
Punctuation error.

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Change "SS makes," to "SS makes. However,"

Reason: fix typo

Notes:

Page/Line: 106 /25   **Number** 172   **Section** 6.2.2.5   **Name:** Wang   Stanley   **Type:** Editorial

Change:

Change "a instructional" to "an instructional"

Reason:
Grammatical error.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 106 /26   **Number** 173   **Section** 6.2.2.5   **Name:** Wang   Stanley   **Type:** Editorial

Change:

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

Reason:
Punctuation error.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 110 /33   **Number** 174   **Section** 6.2.3.3   **Name:** Wang   Stanley   **Type:** Editorial

Change:

Move the "NO" on the right-hand side of the figure to the right-hand side of the decision box (i.e., the box labeled "Initial ranging successful?") where it belongs (around line 47)

Reason:
Editorial change of the figure.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 110 /61   **Number** 175   **Section** 6.2.3.4   **Name:** Karvelas   Antonis   **Type:** Technical, Non-bindin

Change:

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

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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

Reason:

Notes:

Page/Line: 111 /5   **Number** 176   **Section** 6.2.3.5   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Change the end of the line to read "Refer to Figure 60" and fix the cross-   There is no table and only one figure to refer to.
reference, if any.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 111 /5   **Number** 177   **Section** 6.2.3.5   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Change "defined in 10.1" to "defined in Table 66" and fix the corss-reference.   Section 10.1 is the section containing Table 66 which defines the "ranges."

Recomendation: Reject

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

Reason:

Notes:

Page/Line: 111 /7   **Number** 178   **Section** 6.2.3.5   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Edit Figure 60 on page 111 and continued on page 112 to remove some of the   Currently, there are two figures (one on page 111 and another on page 112). Both
unnecessary spaces and to make the figure fit on one page.   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".

Recomendation: Accept

Prop. Resolution: Make the figure fit in one page

Reason:

Notes:

Page/Line: 111 /8   **Number** 179   **Section** 6.2.3.5   **Name:** Karvelas   Antonis   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
You must modify the Figure 60 so as to include the DCD messages from the BS.   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.

Recomendation: Accept

Prop. Resolution: On lines 13, 18 and 34, replace the five (5) occurences of "UCD" with "UCD and DCD." On line 44, add a DCD message going across, before "

Reason:

Notes:

Page/Line: 112 /39 **Number** 180 **Section** 6.2.3.6 **Name:** Wang Stanley **Type:** Editorial

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

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 112 /56 **Number** 181 **Section** 6.2.3.6 **Name:** Karvelas Antonis **Type:** Technical, Binding

Change: 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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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

Reason:

Notes:

Page/Line: 112 /60 **Number** 182 **Section** 6.2.3.6 **Name:** Lindh Lars **Type:** Technical

Change: 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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: It reads better in-between paragraphs on page 112 line 54

Reason:

Notes:

Page/Line: 112 /61 **Number** 183 **Section** 6.2.3.6 **Name:** Karvelas Antonis **Type:** Technical, Non-bindin

Change: 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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

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

Page/Line: 112 /62 **Number** 184 **Section** 6.2.3.6 **Name:** Wang   Stanley   **Type:** Technical, Binding

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

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 113 /11 **Number** 185 **Section** 6.2.3.6 **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 113 /52 **Number** 186 **Section** 6.2.3.6 **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution: Fix according to prior Temporary CID resolution

Reason:

Notes:

Page/Line: 114 /2 **Number** 187 **Section** 6.2.3.6 **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 114 /13 **Number** 188 **Section** 6.2.3.6 **Name:** Wang   Stanley   **Type:** Editorial

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

Reason:
Typo

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 114 /30   **Number** 189   **Section** 6.2.3.6   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

Change:
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 M

Reason:
To describe better the Initial Ranging procedure.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution: If not?

Reason:

Notes: wait for figure from Carl. See comment 183.

Page/Line: 114 /32   **Number** 190   **Section** 6.2.3.6   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

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

Reason:
To reduce confusion.

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: On page 123, line 14, change "Periodic Ranging" to "periodic Ranging". Delete from "at least..." in line 14 until "...opportunities" in line 15. On

Reason:

Notes:

Page/Line: 114 /33   **Number** 191   **Section** 6.2.3.6   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes: see Carl's figure from comment 183.

Page/Line: 114 /44   **Number** 192   **Section** 6.2.3.6   **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 114 /47   **Number** 193   **Section** 6.2.3.6   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes: see Carl's figure for comment 183

Page/Line: 114 /47   **Number** 194   **Section** 6.2.3.6   **Name:** Leiba   Yigal   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 115 /1   **Number** 195   **Section** 6.2.3.7   **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 115 /12   **Number** 196   **Section** 6.2.3.7   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
Remove two (2) lines starting with the line "For multi-channel support, . . ." and move these two lines to page 114, line 4 to read "NOTE -- For multi-channel support, . . ."

Reason:
This paragraph has nothing to do with the section (Section 6.2.3.7, Ranging Parameter Adjustment). It belongs to the end-of-paragraph note for Section 6.2.3.6, Initial Ranging and Automatic Adjustments.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 116 /36   **Number** 197   **Section** 6.2.3.6   **Name:** Karvelas   Antonis   **Type:** Editorial

Change:
In Figure 63 add notes to the two conditionals "Retries exhausted?" in order to clarify the entries of Table 66 which correspond to the conditionals.

Reason:
To clarify the figure 63.

Resolution: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Include the following as Note: "The Retries Exhausted condition refers to the Contention Ranging Retries entry of Table 66." Change all occurre

Reason:

Notes:

Page/Line: 116 /39   **Number** 198   **Section** 6.2.3.7   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Edit Figure 63 to include an arrow for the second input (the one on the right-hand side) for the box labeled "Remove SS from poll list"

Reason:
Editorial error.

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: for the one with two inputs.

Reason:

Notes:

Page/Line: 116 /57   **Number** 199   **Section** 6.2.3.7   **Name:** Leiba   Yigal   **Type:** Editorial

Change:
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 p

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 117 /6   **Number** 200   **Section** 6.2.3.8.1   **Name:** Karvelas   Antonis   **Type:** Technical, Non-bindin

Change:
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: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 81

Page/Line: 117 /8   **Number** 201   **Section** 6.2.3.8.1 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
See Table 64 should be changed to "See figure 64".   To correct a misprint.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 117 /8   **Number** 202   **Section** 6.2.3.8.1 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the end of the line to read "See Figure 64." instead of "See Table 64." and   It is a figure not a table.
fix the cross-reference (if any).

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 117 /43   **Number** 203   **Section** 6.2.3.8.2 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the end of the line to read "Refer to Figure 65." instead of "See Table   It is a figure not a table.
65." and fix the cross-reference (if any).

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 117 /44   **Number** 204   **Section** 6.2.3.8.1 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
See Table 65 should be changed to "See figure 65".   To correct a misprint.

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 117 /45   **Number** 205   **Section** 6.2.3.8.2 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the end of the line to read ". . . from the server's Universal Coordinated   Acronyms with definition.
Time (UCT) shall be combined . . ." instead of ". . . from the server (UTC) shall
be combined . . ."

Recomendation: Accept-Modified

Prop. Resolution: Ignore change above, but add UTC, Coordinated Universal Time to accronym list. On page 278, line 71, delete "Universal Coordinated time" a

Reason:

Notes:

Page/Line: 118 /8   **Number** 206   **Section** 6.2.3.9   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 118 /8   **Number** 207   **Section** 6.2.3.9   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change the line to read "as shown in Figure 66" instead of "as shown in 66" and fix the cross-reference (if any).

Reason:
66 implies "Section 66" not "Figure 66."

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 119 /25   **Number** 208   **Section** 6.2.3.9.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
Change the label for the second box (the box in the middle) to read "TFTP Wait Timeout" instead "Timeout"

Reason:
A specific timeout is defined in Table 66 on page 284 for this purpose and should be used here.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 120 /41   **Number** 209   **Section** 6.2.3.9.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
Change the text at the end of line to read "Authentication Failure (i.e., Response=1 in the REG-RSP Messge)." instead of "Authorization Failure."

Reason:
BS MIC is for authentication, which is part of the authorization process not the entire authorization process. Per Figure 68 on page 121. Adding "Response=1" improves the readability of the document. "Response=1" is per section 6.2.1.2.8, REG-RSP Message,

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 120 /54 **Number** 210 **Section** 6.2.3.9.1 **Name:** Wang Stanley **Type:** Technical, Binding

Change: Change the end of the line to read "Service Flow Parameters." instead of "Service Flow Response(s)."

Reason: Per REG-RSP definition in 6.2.1.2.8 on page 60.

Resolution: Resolved

Recomendation: Reject

Prop. Resolution: Perhaps "Confirmation Codes" 11.4.17

Reason:

Notes: superceded by some other comment

Page/Line: 120 /54 **Number** 211 **Section** 6.2.3.9.1 **Name:** Wang Stanley **Type:** Technical, Binding

Change: Change the line to read "Class of Service Failure (i.e., Response=2 in the REG-RSP Message)" instead of "Class of Service Failure"

Reason: Adding "Response=2" improves the readability of the document. "Response=2" is per section 6.2.1.2.8, REG-RSP Message, on page 60.

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason:

Notes: superceded by some other comment

Page/Line: 120 /55 **Number** 212 **Section** 6.2.3.9.1 **Name:** Wang Stanley **Type:** Technical, Binding

Change: Change the line to read "any SS Capabilities (refer to 11.4.5) requested." instead of "any SS Capabilities requested." and fix the cross-reference (if any).

Reason: Adding a forward reference improves the readability of the document.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 120 /55 **Number** 213 **Section** 6.2.3.9.1 **Name:** Wang Stanley **Type:** Technical, Binding

Change: Change the end of the line to read "to provide any SS" instead of "to provide the SS"

Reason: There are many requested SS Capabilities. "SS Capabilities" shall be turned "off" if any one of those capabilities cannot be met.

Resolution: Resolved

Recomendation: Reject

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

Reason:

Notes:

Page/Line: 120 /56   **Number** 214   **Section** 6.2.3.9.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Change the end of the line to read "(refer to 6.2.1.2.8)." instead of "(refer to   There is no such section. The correct section should be section 6.2.1.2.8, which
6.2.8.1)." and fix the cross-reference (if any).   defines the format of the REG-RSP Message.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 120 /63   **Number** 215   **Section** 6.2.3.9.1   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
Change the line to read "If timer T9 (defined in Table 66) expires" instead of "If   Adding a forward reference improves the readability of the document. Table 66 on
timer T9 expires" and fix the cross-reference (if any).   page 284 defines all the timers.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 122 /7   **Number** 216   **Section** 6.2.3.9.1   **Name:** Wang   Stanley   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
In Figure 69, two constants are needed, a timer for REG-ACK timeout and a   Figure 69 refers to "T7" timer, which was defined (according to Table 66 on page
counter for REG-ACK retries. Both constants must be defined in Table 66 on   284) as "Wait for DSA/DSC/DSD Response timeout." In other words, "T7" is not
page 284. Once the two constants were defined, Figure 69 must be updated   for "REG-ACK timeout". In addition, a "Retries counter" is needed for REG-ACK
accordingly.   retries.

Recomendation: Accept-Modified

Prop. Resolution: 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

Reason:

Notes:

Page/Line: 122 /31   **Number** 217   **Section** 6.2.3.9.2   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the beginning of the line to read "described in 7.2.1." instead of   Should refer to a specific sub-section that actually describes the process. 7.2.1 on
"described in 7."   page 175 describes SS initialization.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 122 /31 **Number** 218 **Section** 6.2.3.9.2 **Name:** Wang Stanley **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
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)" Typo per definition defined in section 11.4.5.1.

Recomendation: Accept-Modified

Prop. Resolution: Ignore the above change. On page 313, line 1, change "Privacy Support" to "Privacy Configuration Setting." On 313, line 3, change "BPI" to "P

Reason:

Notes:

Page/Line: 122 /60 **Number** 219 **Section** 6.2.3.9.3 **Name:** Wang Stanley **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
Delete the reference to section 6.2.1.2.8. Specifically, delete " see (6.2.1.2.8)" at the end of the line. 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.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 123 /14 **Number** 220 **Section** 6.2.4 **Name:** Quilez Vicente **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
To insert a reference in order to clarify the meaning of T4. T4 is introduced in the text without a reference. It should be appended "(see Table 66)" at the end of the sentence

Recomendation: Accept-Clarified

Prop. Resolution: Append "(see Table 66)" at the end of the sentence.

Reason: clarity

Notes:

Page/Line: 125 /32 **Number** 221 **Section** 6.2.4.1 **Name:** Yanover Vladimir **Type:** Editorial

Change: **Reason:** **Resolution:** Resolved
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/H

Recomendation: Accept-Modified

Prop. Resolution: Change name of Figure 73 to "Burst Type Threshold Usage."

Reason: PHY specific wording outside PHY section.

Notes:

Page/Line: 126 /52   **Number** 222   **Section** 6.2.5.1   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Add "." to the end of the line.   Punctuation error.

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 127 /8   **Number** 223   **Section** 6.2.5.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
After the semicolon, it is proposed to delete "upstream". Then, it should be written   CIDs are associated to both upstream and downstream.
"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)".

Recomendation: Accept

Prop. Resolution:

Reason: consistency in document

Notes:

Page/Line: 127 /23   **Number** 224   **Section** 6.2.5.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Points a) and f) should be merged. Point f) should be deleted and point a) should   The SFID seems to be duplicated in the attribute list of Service Flows.
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

Recomendation: Accept-Modified

Prop. Resolution: Use the text provided, but delete the "," after "SFID" pre 225.

Reason: clarity

Notes:

Page/Line: 127 /38   **Number** 225   **Section** 6.2.5.2   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Delete the "," after "SFID."   Punctuation error.

Recomendation: Accept-Duplicate

Prop. Resolution: see 224

Reason: typo

Notes:

Page/Line: 127 /44   **Number** 226   **Section** 6.2.5.2 **Name:** Hum   Coleman   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
The relationship between the Qos Parameter Sets is as shown in Figure 74   Figure 76 should be Figure 74.

Recomendation: Accept-Duplicate

Prop. Resolution: duplicate with 227 which is worded better.

Reason: typo

Notes:

Page/Line: 127 /44   **Number** 227   **Section** 6.2.5.2 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the line to read "in Figure 74 and Figure 75" instead of "in Figure 76 and   The original text refers to the wrong figure.
Figure 75" and fix the cross-reference (if any)

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 127 /45   **Number** 228   **Section** 6.2.5.2 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Figure 76 should be changed to "Figure 74".   To correct a misprint.

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 127 /57   **Number** 229   **Section** .2.5.2 footnote **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Insert a new line break before the word "if" at the end of the end and make the   Editorial changes.
new line aligned with the rest of the lines on the same page.

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 127 /58   **Number** 230   **Section** .2.5.2 footnote **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "e.g. " (with a space) to "e.g., " (with a space) and similar incidences   Punctuation error.
throughout the document (e.g., page 127, line 60).

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 130 /55   **Number** 231   **Section** 6.2.5.4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Reject

Prop. Resolution: discuss.

Reason: I think we want the superset of QoS parameters and traffic parameters.

Notes:

Page/Line: 130 /62   **Number** 232   **Section** 6.2.5.4   **Name:** Wang   Stanley   **Type:** Editorial

Change:
Change the line to read "stages: REG-RSP, DSA-REQ, . . ." instead of "stages: Registration Response, DSA-REQ, . . ."

Reason:
Consistency issue.

Resolution: Resolved

Recomendation: Reject

Prop. Resolution: An earlier comment to remove "Registration Response" would make this OBE.

Reason: consistency in document

Notes: superceded somewhere

Page/Line: 133 /29   **Number** 233   **Section** 6.2.5.6.3   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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.

Reason:

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: consistency of terms

Notes:

Page/Line: 134 /52   **Number** 234   **Section** 6.2.5.7.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: drop references

Reason:

Notes:

Page/Line: 135 /60 **Number** 235 **Section** 6.2.5.7.2 **Name:** Wang   Stanley   **Type:** Editorial

Change:
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

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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: Also add heading "6.2.5.7.2 Dynamic Operation"

Reason: Correct heading levels.

Notes:

Page/Line: 136 /35 **Number** 236 **Section** 6.2.5.7.2.1 **Name:** Wang   Stanley   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: typo

Notes:

Page/Line: 137 /30 **Number** 237 **Section** 6.2.5.8.1 **Name:** Quilez   Vicente   **Type:** Editorial

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

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

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: This change refers to the DSD at the state on the righthand side

Reason: typo

Notes:

Page/Line: 146 /35 **Number** 238 **Section** 6.2.5.8.3 **Name:** Wang   Stanley   **Type:** Technical, Binding

Change:
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, lin

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: This is really an editorial comment.

Notes:

Page/Line: 148 /46 **Number** 239 **Section** 6.2.5.8.3.1 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Delete the two lines of text on page 148, line 46 and line 48.   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.

Recomendation: Accept

Prop. Resolution:

Reason: cut and paste error

Notes:

Page/Line: 173 /27 **Number** 240 **Section** 7.1.1 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
The last word of the sentence should be "Format" instead of "Formant".   To correct a misprint.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 175 /1 **Number** 241 **Section** 7.1.3 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "A SA" to "An SA" and similar incidences throughout the document   Grammatical error.
(e.g., page 179, line 14).

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 178 /47 **Number** 242 **Section** 7.3.1.1 **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "i.e. " (with a space) to "i.e., " (with a space) and similar incidences   Punctuation error.
throughout the document (e.g., page 288, line 5).

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 200 /53 **Number** 243 **Section** 8.1.1 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
The point inside the brackets should be deleted. Therefore, instead of "(PLME.)",   To correct a misprint.
it should be "(PLME)".

Recomendation: Accept

Prop. Resolution: Delete the period

Reason:

Notes:

Page/Line: 202 /17   **Number** 244   **Section** 8.1.3.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution: Change "UCD_PARAM_VEC" to "UCD_PARAM_VECTOR" throughout the text

Reason:

Notes:

Page/Line: 205 /20   **Number** 245   **Section** 8.1.3.9   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
The word "Primatives" should be changed to "Primitives"

Reason:
To correct a misprint in the figure caption.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution: Correct the misprint

Reason:

Notes:

Page/Line: 206 /61   **Number** 246   **Section** 8.1.3.12.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
The word "Primatives" should be changed to "Primitives".

Reason:
To correct a misprint in the figure caption.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution: Correct the misprint

Reason:

Notes:

Page/Line: 213 /10   **Number** 247   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
The arrow direction must be changed.

Reason:
Following PHY_TXSTART. request definition (see 8.1.3.15), this primitive is generated by MAC.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: Change the direction of the arrow labeled by "PHY_TXSTART.request"

Reason:

Notes: see 254

Page/Line: 213 /12   **Number** 248   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
Arrow direction must be changed.

Reason:
Following PHY_TXSTART. confirmation definition (see 8.1.3.16), this primitive is generated by PHY.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: Change the direction of the arrow labeled by "PHY_TXSTART.confirmation"

Reason:

Notes: see 254

Page/Line: 213 /15   **Number** 249   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Technical, Binding

Change:
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.indic

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution: At the fig.118, BS MAC to BS PHY part, swap the arrows labeled "PHY_TXSTART.indication"(5th from the top) and "PHY_MACPDU.confir

Reason:

Notes: see 254

Page/Line: 213 /17   **Number** 250   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: insert the definition of "PHY_RXSTART.indication" from the document "IEEE 802.16.1c-01/07"

Reason:

Notes:

Page/Line: 213 /30   **Number** 251   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
The word "Primatives" should be changed to "Primitives".

Reason:
To correct a misprint in figure caption.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 213 /37   **Number** 252   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
Figure 119 should be reviewed.

Reason:
PHY_TXSTART.request has no confirmation in figure.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see 254

Page/Line: 213 /41   **Number** 253   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Figure 119 should be reviewed.   PHY_RXSTART.confirmation has no request.

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see 254

Page/Line: 213 /46   **Number** 254   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
The position of PHY_MACPDU.confirmation in figure 119 must be checked.   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.indic

Recomendation: Accept

Prop. Resolution: figure 118 and 119 are to be replaced by the figures in document ""IEEE 802.16.1c-01/07"

Reason:

Notes:

Page/Line: 213 /48   **Number** 255   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
An arrow must be inserted under PHY_START.indication.   To insert a missing arrow in figure 119.

Recomendation: Accept-Duplicate

Prop. Resolution: superceded by the change #254

Reason:

Notes:

Page/Line: 213 /59   **Number** 256   **Section** 8.1.3.24.5   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
The word "Primatives" should be changed to "Primitives".   To correct a misprint in the figure caption.

Recomendation: Accept

Prop. Resolution: Correct the misprint

Reason:

Notes:

Page/Line: 278 /62   **Number** 332   **Section** 9.2.1   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the line to read "Type is a single-byte identifier . . ." instead of "Type is a   Typo
single- identifier . . ."

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 278 /63   **Number** 333   **Section** 9.2.1   **Name:** Wang   Stanley   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change the line to read "Length is a single-byte containing . . ." instaed of   Typo
"Length is a single containing . . ."

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 279 /51   **Number** 334   **Section** 9.2.2   **Name:** Karvelas   Antonis   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
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 Ob

Recomendation: Accept-Clarified

Prop. Resolution: Rename "Network Access Configuration Setting" to Network Access Configuration Object" on page 279, line 51 and on page 282, line 35.

Reason:

Notes:

Page/Line: 281 /14   **Number** 335   **Section** 9.2.3   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Take out last row in figure 156   The step described by the figure 156 reaches up to the SS MIC inclussion. The
                                                                    step describing how and when the BS MIC is included in the configuration file is
                                                                    described by figure 157.

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 336

Page/Line: 281 /14 **Number** 336 **Section** 9.2.3 **Name:** Wang   Stanley **Type:** Editorial

Change:
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 ste

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

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 282 /64 **Number** 337 **Section** 9.3.1 **Name:** Quilez   Vicente **Type:** Editorial

Change:
Change/Delete reference D.3.1.1

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

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: change "D.3.1.1" to "9.3.1.1"

Reason:

Notes:

Page/Line: 284 /27 **Number** 338 **Section** 10.1 **Name:** Karvelas   Antonis **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution: Replace specified text with "Time between Initial Maintenance regions assigned by the BS"

Reason: Antonis Karvelas comment seems to be correct. The only thing that required changing was to remove the word "of" in his suggested ording.

Notes:

Page/Line: 285 /21 **Number** 339 **Section** 10.1 **Name:** Karvelas   Antonis **Type:** Technical, Binding

Change:
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

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: "Ranging Response reception timeout following the transmission of a Ranging Request." Also remove the Minimum Value 50 msec from Table

Reason: Remove any ambiguity

Notes:

Page/Line: 286 /49 **Number** 340 **Section** and identifiers **Name:** Stanwood   Kenneth   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Use title-caps for header. I.E., "Well Known Addresses and Identifiers"   Consistency with rest of document

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 287 /39 **Number** 341 **Section** and identifiers **Name:** Stanwood   Kenneth   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
On page 287, line 39 delete "Temporary Registration and"   The Temporary CID was eliminated at a previous session, so this term doesn't
                                                                     exist anymore.

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 288 /6 **Number** 342 **Section** 11 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change last words in the paragraph "the most-significant bits is the first   Transmission of bits "on the wire" does not make sense in the paragraph where the
transmitted on the wire" by "the most signigicant bits are the first transmitted on   coment is included
the air interface"

Recomendation: Accept-Modified

Prop. Resolution: Delete the sentence beginning on line 5, "All .." and the similar sentence on page 296, line 58.

Reason:

Notes:

Page/Line: 289 /17 **Number** 343 **Section** 11.1.1.1 **Name:** Lindh   Lars   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
Change "Preamble pattern" to "Preamble repetition"which defines how many   Preamble pattern is fixed and cannot be defined. The repetition count must
times the basic 16 symbol preamble should be repeated.   however be given as a parameter

Recomendation: Accept-Modified

Prop. Resolution: Also, change the length value to 'l' and change the description value to "The number of times the preamble pattern is repeated."

Reason:

Notes:

Page/Line: 289 /42 **Number** 344 **Section** 11.1.1.1 **Name:** Lindh   Lars   **Type:** Technical

Change: **Reason:**   **Resolution:** Resolved
Delete Spectrum inversion   There was never a decision to adopt this parameter

Recomendation: Accept

Prop. Resolution: also delete it from page 44, line 54.

Reason:

Notes:

Page/Line: 290 /42   **Number** 345   **Section** 11.1.1.2 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
To explain the use of the Convergence Layer bit (enable/disable)   There is no explanation about the use of it in the text.

Recomendation: Accept-Modified

Prop. Resolution: remove row in the table corresponding to line 42.

Reason:

Notes:

Page/Line: 292 /34   **Number** 346   **Section** 11.1.2.2 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "in pi dB units" by "in 1/4 dB units" in last column, second row starting   Fixing of an editorial mistake
by the end

Recomendation: Accept-Clarified

Prop. Resolution: This change should be propagated throughout the document.

Reason:

Notes:

Page/Line: 294 /10   **Number** 347   **Section** 11.1.4 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "in pi dB units" by "in 1/4 dB units" in last column, first row .   Fixing of an editorial mistake

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 294 /15   **Number** 348   **Section** 11.1.4 **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "in pi dB units" by "in 1/4 dB units" in last column, second row   Fixing of an editorial mistake

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 294 /36   **Number** 349   **Section** 11.1.4   **Name:** Karvelas   Antonis   **Type:** Technical

Change:
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 (d

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 294 /39   **Number** 350   **Section** 11.1.4   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

Change:
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

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason:

Notes: must define abort

Page/Line: 312 /39   **Number** 351   **Section** 11.4.5   **Name:** Karvelas   Antonis   **Type:** Technical

Change:
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: Resolved

Recomendation: Reject

Prop. Resolution:

Reason:

Notes:

Page/Line: 313 /40   **Number** 352   **Section** al Layer Type   **Name:** Stanwood   Kenneth   **Type:** Technical, Non-bindin

Change:
Delete this TLV.

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

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: Get rid of this section

Reason:

Notes:

Page/Line: 314 /31   **Number** 353   **Section** odulator Types   **Name:** Stanwood   Kenneth   **Type:** Editorial

Change:
Change type from 5.12.2 to 5.12.3.

Reason:
5.12.2 is the type of the previous TLV.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 315 /38   **Number** 354   **Section** lexing Support   **Name:** Stanwood   Kenneth   **Type:** Technical, Non-bindin

Change:
Delete this TLV

Reason:
It serves no purpose. For the SS and BS to communicate well enough to transfer this parameter, they must already agree on duplexing method.

Resolution: Resolved

Recomendation: Accept-Clarified

Prop. Resolution: delete this section

Reason:

Notes:

Page/Line: 316 /1   **Number** 355   **Section** cation Support   **Name:** Stanwood   Kenneth   **Type:** Editorial

Change:
Change section number to 11.4.5.5. (make it one level less deep)

Reason:
This TLV is same level as 11.4.5.4 Duplexing Support.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 317 /1   **Number** 356   **Section** 11.4.7.2   **Name:** Karvelas   Antonis   **Type:** Technical, Binding

Change:
Remove the 11.4.7.2 Service(s) Not Available Response section.

Reason:
This configuration setting doesn't exist in the REG-RSP message in the section 6.2.1.2.8 .

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 318 /15   **Number** 357   **Section** 11.4.9.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
Delete the dot before subclause title

Reason:
Fixing of a typing mistake

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 318 /32   **Number** 358   **Section** 11.4.9.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change "Authorize Wail state" by Reauthorize Wait state" at the end of the paragraph   To be coherent with table 82 and subclause 11.4.9.1

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 318 /51   **Number** 359   **Section** 11.4.9.3   **Name:** Quilez   Vicente   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Change/harmonize Valid Range value in table   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)

Recomendation: Reject

Prop. Resolution:

Reason:

Notes:

Page/Line: 325 /29   **Number** 360   **Section** eter Set Type   **Name:** Stanwood   Kenneth   **Type:** Editorial

Change: **Reason:**   **Resolution:** Resolved
Decrease the heading level to 11.4.12.5.   These TLVs are not part of "Service Flow Error Encodings"

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 325 /29   **Number** 361   **Section** 11.4.12.5.4   **Name:** Wang   Stanley   **Type:** Technical, Binding

Change: **Reason:**   **Resolution:** Resolved
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   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

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes:

Page/Line: 327 /12   **Number** 362   **Section** 11.4.12.7   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
Equation numbering should be "(1)" instead of "(2)"

Reason:

Resolution: Resolved
References to the equation (for instance, in subclause 11.4.12.7.1) mention "(1)"

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 328 /46   **Number** 363   **Section** 11.4.12.9   **Name:** Quilez   Vicente   **Type:** Editorial

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

Reason:
Fixing of an editorial mistake

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 334 /59   **Number** 364   **Section** 11.4.12.22   **Name:** Quilez   Vicente   **Type:** Technical, Binding

Change:
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: Resolved

Recomendation: Accept

Prop. Resolution:

Reason:

Notes:

Page/Line: 335 /17   **Number** 365   **Section** 11.4.12   **Name:** Leiba   Yigal   **Type:** Technical, Binding

Change:
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

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: Resolved

Recomendation: Accept-Modified

Prop. Resolution: 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

Reason:

Notes:

Page/Line: 335 /17   **Number** 366   **Section** low Encodings   **Name:** Stanwood   Kenneth   **Type:** Technical, Binding

Change:
Add a TLV for whether or not the MAC layer CRC is added to each PDU.

Reason:
There is currently no way to specify whether the CRC is turned on for a connection.

Resolution: Resolved

Recomendation: Accept-Duplicate

Prop. Resolution:

Reason:

Notes: see comment 365

Page/Line: 337 /48   **Number** 367   **Section** Annex A   **Name:** Eklund   Carl   **Type:** Editorial

Change:
Delete entire annex

Reason:
It does not belong in the document. Also the text is outdated and confusing.

Resolution: Resolved

Recomendation: Accept

Prop. Resolution:

Reason: Serves no purpose in standard.Already out of date, and will be difficult to maintain synchronocity with main text.

Notes:

Page/Line: 337 /61   **Number** 368   **Section** A.1   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
Change the line starting "The IEEE802.16.1 standard" by "The IEEE802.16 standard"

Reason:
The paragraph description is general and apply to both IEEE802.16.1 and IEEE802.16.3

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason: Defer until decision on renumbering PAR.

Notes: superceded by previous comment resolution

Page/Line: 339 /8   **Number** 369   **Section** A.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
In figure 159, second row last column, change "802.16 P-MP Radio" by "802.16.1 P-MP Radio".

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

Resolution: Resolved

Recomendation: Reject

Prop. Resolution:

Reason: Defer until decision on renumbering PAR.

Notes: superceded by 367

Page/Line: 339 /13   **Number** 370   **Section** A.2   **Name:** Quilez   Vicente   **Type:** Editorial

Change:
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: Resolved

Recomendation: Reject

Prop. Resolution:

Reason: Defer until decision on renumbering PAR.

Notes: superceded by 367

Page/Line: 1 /1   **Number** 371   **Section**   Overall **Name:** Eklund   Carl   **Type:** Editorial

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

Reason: **Resolution:** Resolved
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.

Recomendation: Accept-Modified

Prop. Resolution: Accept with clarifications from the PHY groupnd making sure that someone, Carl, identifies the moved sections. In the new document, erase sect

Reason:

Notes: Action: This must be done prior to any other comment resolutions are integrated in the document.

IEEE 802.16.1 Comment Report: 2001/01/26

Comment #   11-258   **Comment submitted by:**   Vicente | Quilez | Observer

Type   Editorial   **Starting Page Number** 217 **Starting Line Number** 19   **Section** 8.2.1.2.5

Balloter's Suggested Change:

The word "multiple" should be deleted.

Balloter's Reason:

A PHY slot is not made of a multiple of 4 symbols but of exactly 4 symbols.

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

change to "which is defined as 4 symbols"

Comment #   11-260   **Comment submitted by:**   Lars | Lindh | Member

Type   Editorial   **Starting Page Number** 217 **Starting Line Number** 47   **Section** 8.2.1.2.5

Balloter's Suggested Change:

Insert the word "QPSK"so the sentence will read ".. this means QPSK followed by 16-QAM.."

Balloter's Reason:

The word QPSK was left out of the sentence

Recommendation: Accepted   **Recommendation by: Committee at Session #11**

Resolution:

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

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

Balloter's Suggested Change:

To specify the modes that are compliant with this sentence

Balloter's Reason:

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

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Change sentence to "Each SS receives and decodes the control information of the downstream and looks for MAC headers indicating data for that SS

Comment # 11-263   **Comment submitted by:** Vicente   Quilez   Observer

Type Editorial   **Starting Page Number** 218   **Starting Line Number** 36   **Section** 8.2.1.2.5

Balloter's Suggested Change:

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

Balloter's Reason:

Missing character

Recommendation: Accepted   **Recommendation by: Committee at Session #11**

Resolution:

| Comment # | 11-264 | Comment submitted by: | Vicente | Quilez | | Observer |

| Type | Editorial | Starting Page Number | 218 | Starting Line Number | 52 | Section | 8.2.1.2.5 |

Balloter's Suggested Change:

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

Balloter's Reason:

Wording error

Recommendation: Accepted-modified   Recommendation by: Committee at Session #11

Resolution:

Change only line 33 to "This allows an individual SS to decode a specific portion of the downstream, which can address more than one SS, without the need to decode thw whole DS burst."

| Comment # | 11-265 | Comment submitted by: | Vicente | Quilez | | Observer |

| Type | Editorial | Starting Page Number | 219 | Starting Line Number | 29 | Section | 8.2.1.2.7 |

Balloter's Suggested Change:

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

Balloter's Reason:

To provide a more exact statement

Recommendation: Accepted-modified   Recommendation by: Committee at Session #11

Resolution:

Change line 30 from "stating the PS at which modulation..." to "stating at which PS burst profile change occurs"

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

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

Balloter's Suggested Change:

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 ."

Balloter's 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.

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Ref. To TLV 11.1.2.2

Comment #	11-267	Comment submitted by:	Antonis	Karvelas	Neither

Type	Editorial	Starting Page Number	219	Starting Line Number	36	Section	8.2.1.2.7

Balloter's Suggested Change:

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."

Balloter's Reason:

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

Recommendation: Accepted   **Recommendation by: Committee at Session #11**

Resolution:

Comment # 11-268 **Comment submitted by:** Vicente Quilez Observer

Type Editorial **Starting Page Number** 219 **Starting Line Number** 36 **Section** 8.2.1.2.7

Balloter's Suggested Change:

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"

Balloter's Reason:

Wrong definition

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment # 11-270 **Comment submitted by:** Lars Lindh Member

Type Technical **Starting Page Number** 219 **Starting Line Number** 43 **Section** 8.2.1.2.7

Balloter's Suggested Change:

Insert a sentence stating that a codeword cannot have less than 6 information bytes

Balloter's Reason:

This is also required in 8.2.3.5.5.2

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Insert such a statement "A codeword cannot have less than 6 information bytes" in line 42 before "This is shown…"

Comment #   11-271   **Comment submitted by:**   Antonis   Karvelas   Neither

Type   Editorial   **Starting Page Number**   219   **Starting Line Number**   46   **Section**   8.2.1.2.7

Balloter's Suggested Change:

Replace the "symbols" with "PSs".

Balloter's 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.

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-272   **Comment submitted by:**   Antonis   Karvelas   Neither

Type   Editorial   **Starting Page Number**   219   **Starting Line Number**   54   **Section**   8.2.1.2.7

Balloter's Suggested Change:

The "symbols" must be replaced with "PSs".

Balloter's Reason:

The j is PSs not symbols according to the above text.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

 Also change on line 55 "entry a" to "entry m" and "entry b" to "entry m+1"

Comment #   11-273   **Comment submitted by:**   Carl   Eklund | Member

Type   Editorial   **Starting Page Number** 220   **Starting Line Number** 12   **Section** 8.2.1.2.8

Balloter's Suggested Change:

change msec to ms

Balloter's Reason:

The SI unit for measuring time is a second which is abbreviates s. Apply this whereever it appears.

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-274   **Comment submitted by:**   Vicente   Quilez | Observer

Type   Editorial   **Starting Page Number** 220   **Starting Line Number** 25   **Section** 8.2.1.3

Balloter's Suggested Change:

To insert "sub" in front of "frame"

Balloter's Reason:

To provide a more exact statement

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-275   **Comment submitted by:**   Vicente   Quilez | Observer

Type   Editorial   **Starting Page Number** 221   **Starting Line Number** 1   **Section** 8.2.1.3.1

Balloter's Suggested Change:

To substitute "Upstream Burst Mode Modulation" by "Upstream burst profile modes"

Balloter's Reason:

The section actually deals with burst profiles modes, not only moduilation modes

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment # 11-276   **Comment submitted by:** Vicente | Quilez | Observer

Type Editorial   **Starting Page Number** 221   **Starting Line Number** 3   **Section** 8.2.1.3.1

Balloter's Suggested Change:

To substitute "Adaptive modulation.." by "Adaptive burst profiles.."

Balloter's Reason:

The section actually deals with burst profiles, not only modulation

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Change "modulation/s" to "burst profile/s" in the whole sentence

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Comment # 11-277   **Comment submitted by:** Vicente | Quilez | Observer

Type Editorial   **Starting Page Number** 221   **Starting Line Number** 3   **Section** 8.2.1.3.1

Balloter's Suggested Change:

To substitute "users" by "SS"

Balloter's Reason:

Actually, the SS are assigned transmission characteristics

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Need to clarify yet agree with the nature of the change

Comment #	11-278	**Comment submitted by:**	Carl	Eklund	Member

Type	Technical	**Starting Page Number**	221	**Starting Line Number**	8	**Section**	8.2.1.3.1

Balloter's Suggested Change:

Replace "QAM-4" with "the parameters specified for Request Intevals (UIUC=1)"

Balloter's 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.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Add also a remark: "(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)".

Comment #	11-279	**Comment submitted by:**	Vicente	Quilez	Observer

Type	Editorial	**Starting Page Number**	221	**Starting Line Number**	10	**Section**	8.2.1.3.1

Balloter's Suggested Change:

To substitute "..SS transmits with the modulation specified by.." by "..SS transmits with the burst profile specified by"

Balloter's Reason:

The section actually deals with burst profile, not only modulation

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #　11-280　　**Comment submitted by:**　Vicente　｜　Quilez　　　　　　　｜　Observer

　　Type　Editorial　　　　　**Starting Page Number**　221　**Starting Line Number**　57　**Section**　8.2.1.4

Balloter's Suggested Change:

To change figure title to "Uplink mapping in the Continuous Downstream FDD"

Balloter's Reason:

The word Downstream in the title (as appearing now) is confusing due to the mapping is really for upstream. The suggested change avoid such confussion.

Recommendation:　**Accepted-modified**　　**Recommendation by: Committee at Session #11**

Resolution:

add the word "case" after "FDD"

Comment #　11-281　　**Comment submitted by:**　Antonis　｜　Karvelas　　　　　　　｜　Neither

　　Type　Editorial　　　　　**Starting Page Number**　222　**Starting Line Number**　28　**Section**　8.2.1.5.2

Balloter's Suggested Change:

In the title of section 8.2.1.5.2 the "Upstream" must be replaced with "Downstream".

Balloter's Reason:

Reduce confusion.

Recommendation:　**Accepted-modified**　　**Recommendation by: Committee at Session #11**

Resolution:

In addition to the comment - This remark reveals a problem in 8.2.1.4 and 8.2.1.5. It is not only necessary to accept the comment but also to change the title of 8.2.1.4 to "8.2.1.3.2 Upstream interaction with a continuous downstream". Furthermore - 8.2.1.5 should be inserted before 8.2.1.3

Comment #   11-282   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number** 222   **Starting Line Number** 28   **Section**   8.2.1.5.2

Balloter's Suggested Change:

To change "upstream" by "downstream"

Balloter's Reason:

Wording error

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

See other comment (174)

Comment #   11-283   **Comment submitted by:**   Vladimir   Yanover   Observer

Type   Editorial   **Starting Page Number** 223   **Starting Line Number** 4   **Section**   8.2.2

Balloter's Suggested Change:

8.2.2 PHY SAP Parameter Definitions paragraph needs to be completed including specification of all the parameters' vectors and primitives mentioned in 8.1

Balloter's Reason:

A a formal request, if needed. This is a part of MAC-PHY separation process

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Added material is in IEEE 802.16.1c-00/08

Comment #   11-284   **Comment submitted by:**   Lars   Lindh   Member

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

Balloter's Suggested Change:

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

Balloter's 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.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

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 effectivly shut
down. The SS must be capable of supporting either option.

Comment #   11-285   **Comment submitted by:**   Antonis   Karvelas   Neither

Type   Technical, Binding   **Starting Page Number**   235   **Starting Line Number**   16   **Section**   8.2.3.4

Balloter's Suggested Change:

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

Balloter's 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.

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

See 284 for elaboration

Comment #   11-286   **Comment submitted by:**   Lars   Lindh   Member

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

Balloter's Suggested Change:

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

Balloter's Reason:

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

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-288   **Comment submitted by:**   Antonis   Karvelas   Neither

Type   Editorial   **Starting Page Number**   236   **Starting Line Number**   48   **Section**   8.2.3.5.3

Balloter's Suggested Change:

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."

Balloter's 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.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

In order to correspond to figure 138 the sentence starting on line 48 "The sequence generator…" should be removed.

Comment #   11-289   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number**   237   **Starting Line Number**   29   **Section**   8.2.3.5.4

Balloter's Suggested Change:

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

Balloter's Reason:

To avoid inconsistency

Recommendation: Rejected   **Recommendation by: Committee at Session #11**

Resolution:

The correct minimum value is t=0

Comment #   11-290   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number**   237   **Starting Line Number**   34   **Section**   8.2.3.5.4

Balloter's Suggested Change:

To indicate if the parity check code is used for error correction, error detection or both. If the use is as an error correction code, please insert an indication of the mechanism that may be used for getting that (e.g., soft decodable, etc.)

Balloter's Reason:

To suggest an implementation solution, as in the case of Reed Solomon plus Block convolutional code (soft decodable)

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

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"

Comment # 11-291   **Comment submitted by:** Antonis | Karvelas | Neither

Type Editorial   **Starting Page Number** 237   **Starting Line Number** 48   **Section** 8.2.3.5.5

Balloter's Suggested Change:

Change the text "..able to correct from 1 to 16 byte errors." with the "..able to correct from 0 to 16 byte errors." or change the corresponding entry of Table 49 where the Error correction capability is defined as R=0-32 (T=0-16).

Balloter's Reason:

To remove the inconsistency with Table 49 where the Error correction capability is defined as R=0-32 (T=0-16).

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment # 11-292   **Comment submitted by:** Lars | Lindh | Member

Type Technical   **Starting Page Number** 237   **Starting Line Number** 57   **Section** 8.2.3.5.5

Balloter's Suggested Change:

Change "2 to 32" to "0 to 32"

Balloter's Reason:

It shall be possible to bypass the Reed Solomon code.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

t=0 is the minimum hence R=2*t=0 minimum

Comment #   11-293   **Comment submitted by:**   Antonis   Karvelas   Neither

Type   Technical, Non-binding   **Starting Page Number**   238   **Starting Line Number**   1   **Section**   8.2.3.5.5

Balloter's Suggested Change:

I believe that the standard must clarify the reasons for the codeword size (K+R) to be an even number.

Balloter's Reason:

To reduce confusion.

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Add after line 2: "This is due to the fact that the BCC code requires a pair of bytes to operate on."

Comment #   11-294   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number**   239   **Starting Line Number**   7   **Section**   8.2.3.5.5.2

Balloter's Suggested Change:

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.

Balloter's Reason:

To align definitions

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

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

Comment #   11-296   **Comment submitted by:**   Lars   Lindh   Member

Type   Technical   **Starting Page Number**   243   **Starting Line Number**   41   **Section**   8.2.3.5.8

Balloter's Suggested Change:

Change the code (53,46) x (51,44)

Balloter's 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.

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

The comment is a mistake.The payload is 253 bytes. The TC layer sees the payload (prior to encoding)

Comment #   11-297   **Comment submitted by:**   Alok   Gupta   Neither

Type   Technical   **Starting Page Number**   244   **Starting Line Number**   31   **Section**   8.2.3.5.9

Balloter's Suggested Change:

Replace (40,20) with (46,26)

Balloter's Reason:

MAC message length has changed. FEC block size must match. See contribution for details.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Need to track MAC changes occuring since session #10.

Comment #   11-298   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number**   244   **Starting Line Number**   40   **Section**   8.2.3.5.10

Balloter's Suggested Change:

To delete the duplicated word "Table"

Balloter's Reason:

To avoid duplication

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-299   **Comment submitted by:**   Lars   Lindh   Member

Type   Technical   **Starting Page Number**   247   **Starting Line Number**   20   **Section**   8.2.3.5.11

Balloter's Suggested Change:

Insert "The power levels of the different modulation schemes in a DL burst shall be such that the outer constellation points for the different modulation scheme coincide."

Balloter's 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.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

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."

Comment #	11-300	**Comment submitted by:**	Antonis	Karvelas	Neither

Type Editorial   **Starting Page Number** 255   **Starting Line Number** 48   **Section** 8.2.4.3.2.1

Balloter's Suggested Change:

Change the text "..able to correct from 1 to 16 byte errors." with the "..able to correct from 0 to 16 byte errors." or change the corresponding entry of Table 60 where the Error correction capability is defined as R=0-32 (T=0-16).

Balloter's Reason:

To remove the inconsistency with Table 60 where the Error correction capability is defined as R=0-32 (T=0-16).

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

This was a remark accepted in the past and somehow was not implemented. T=0 is the correct lower limit.

Comment #	11-301	**Comment submitted by:**	Lars	Lindh	Member

Type Technical   **Starting Page Number** 255   **Starting Line Number** 58   **Section** 8.2.4.3.2.1

Balloter's Suggested Change:

Change "2 to 32" to "0 to 32"

Balloter's Reason:

It shall be possible to bypass the Reed Solomon code.

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Too many times we encountered this issue

Comment #   11-302   **Comment submitted by:**   Lars   Lindh   Member

Type   Technical   **Starting Page Number**   263   **Starting Line Number**   30   **Section**   8.2.4.3.4

Balloter's Suggested Change:

Delete 64-QAM as an optional modulation scheme for the uplink

Balloter's 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.

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

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.

Comment #   11-303   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number**   269   **Starting Line Number**   50   **Section**   8.2.4.3.7

Balloter's Suggested Change:

To complete the second column on table 60

Balloter's Reason:

It seems to be incompleted

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Erase from the TC layer row , the sentence "The TC layer"

| Comment # | 11-304 | Comment submitted by: | Lars | Lindh | Member |

| Type | Technical | Starting Page Number | 271 | Starting Line Number | 34 | Section | 8.2.6.1 |

Balloter's Suggested Change:

Change "This reference can then be used .." by "This reference must then be used".

Balloter's Reason:

In order minimize error sources symbol clock locking should be mandatory.

Recommendation: Rejected　　　Recommendation by: Committee at Session #11

Resolution:

no consensus for mandating a specific form of synchronization

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| Comment # | 11-305 | Comment submitted by: | Jay | Klein | Member |

| Type | Editorial | Starting Page Number | 271 | Starting Line Number | 47 | Section | 8.2.6.2 |

Balloter's Suggested Change:

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.

Balloter's Reason:

Recommendation: Rejected　　　Recommendation by: Committee at Session #11

Resolution:

Comment # 11-306   **Comment submitted by:** Lars   Lindh   Member

Type Technical   **Starting Page Number** 271   **Starting Line Number** 48   **Section** 8.2.6.2

Balloter's Suggested Change:

Change ".. RF source should reference each other" with "RF sources must reference each other".

Balloter's Reason:

It should clearly be stated that frequency locking is mandatory.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Modification: Change "RF Sources should reference each other" to "carrier frequencies must reference each other"

Comment # 11-307   **Comment submitted by:** Vicente   Quilez   Observer

Type Editorial   **Starting Page Number** 272   **Starting Line Number** 9   **Section** 8.2.7

Balloter's Suggested Change:

To specify referenced Subsection

Balloter's Reason:

To avoid indetermination in references

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

put a period after the word "equipment" and delete the rest of the sentence.

Comment #   11-308   **Comment submitted by:**   Jay   Klein   Member

Type   Editorial   **Starting Page Number**   272   **Starting Line Number**   17   **Section**   8.2.7

Balloter's Suggested Change:

Delete appearance of "Max Rx phase noise"

Balloter's 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.

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-309   **Comment submitted by:**   Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number**   272   **Starting Line Number**   27   **Section**   8.2.7

Balloter's Suggested Change:

Insert: Tx symbol clock accuracy : 20 ppm

Balloter's Reason:

The symbol clock accuracy must be a requirement

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-310   **Comment submitted by:** Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number** 272   **Starting Line Number** 27   **Section** 8.2.7

Balloter's Suggested Change:

Change: 10-66 GHz +- 10 ppm, terminal frequency locking required

Balloter's Reason:

+- 10 ppm is sufficient when we require terminal frequency locking

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

It seems that +/-5ppm is reasonable when locked to an external source

---

Comment #   11-311   **Comment submitted by:** Jay   Klein   Member

Type   Editorial   **Starting Page Number** 272   **Starting Line Number** 33   **Section** 8.2.7

Balloter's Suggested Change:

Delete appearance of "Composite Group Delay" and "Composite Amplitude Ripple"

Balloter's 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.

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-312   **Comment submitted by:**   Jay   Klein   Member

Type   Editorial   **Starting Page Number**   272   **Starting Line Number**   38   **Section**   8.2.7

Balloter's Suggested Change:

Delete table section discussing "Base station Receiver" parameters

Balloter's 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

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-313   **Comment submitted by:**   Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number**   272   **Starting Line Number**   40   **Section**   8.2.7

Balloter's Suggested Change:

Change: Dynamic Range: 32 dB

Balloter's Reason:

32 dB is sufficient when the terminals are subject to power control

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

base station rx parameters are not included in the standard

Comment # 11-314   **Comment submitted by:** Juha   Pihlaja   Neither

Type Technical   **Starting Page Number** 272   **Starting Line Number** 42   **Section** 8.2.7

Balloter's Suggested Change:

Change: BER performance threshold before FEC:

for 10-3
QPSK -94 + 10*log(R)
16 QAM -87 + 10*log(R)
64-QAM -81 + 10*log(R)
for 10-6
QPSK -90 + 10*log(R)
16 QAM -83 + 10*log(R)
64-QAM -77 + 10*log(R)
where R is the RF channel bandwidth in MHz

Balloter's Reason:

These values are realistic and do not lead to unnecessary high transmission power in the SS

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

A the base station this was intended to measure transmission quality.

Comment # 11-315   **Comment submitted by:** Juha   Pihlaja   Neither

Type Technical   **Starting Page Number** 272   **Starting Line Number** 57   **Section** 8.2.7

Balloter's Suggested Change:

Change: Adjacent channel interferer threshold degradation at BER=10-6 : S/I = -2 dB for 1 dB degradation (assuming similar modulations on adjacent channels) where S/I represents Signal to Interferer ratio

Balloter's Reason:

Makes use of adjacent channel possible

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #	11-316	Comment submitted by:	Juha	Pihlaja		Neither

Type	Technical	Starting Page Number	272	Starting Line Number	62	Section	8.2.7

Balloter's Suggested Change:

Insert: Co-channel interference threshold degradation at BER=10-6: 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 Inteference ratio

Balloter's Reason:

Co-channel interference threshold degradation should be included for the uplink as well

Recommendation: Rejected   Recommendation by: Committee at Session #11

Resolution:

Comment #	11-317	Comment submitted by:	Juha	Pihlaja		Neither

Type	Technical	Starting Page Number	272	Starting Line Number	64	Section	8.2.7

Balloter's Suggested Change:

Delete: Tx Dynamic Range

Balloter's Reason:

Min and Max power specification is prefered

Recommendation: Rejected   Recommendation by: Committee at Session #11

Resolution:

Reject due to insufficient data

Comment # 11-318	**Comment submitted by:** Juha Pihlaja Neither
Type Technical	**Starting Page Number** 273 **Starting Line Number** 1 **Section** 8.2.7

Balloter's Suggested Change:

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)

Balloter's Reason:

Tx power shall be specified as the transmitted rms power

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

Not sufficient data. Current comment is baud rate specific and mentions only 3 discrete bands

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Comment # 11-319	**Comment submitted by:** Juha Pihlaja Neither
Type Technical	**Starting Page Number** 273 **Starting Line Number** 4 **Section** 8.2.7

Balloter's Suggested Change:

Insert: Max transmitted rms power at Min level setting: -30 dBm

Balloter's Reason:

Maximum and Minimum values specification preferred

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

Numbers missing - cannot accept with missing information,

Comment #   11-320   **Comment submitted by:**   Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number**   273   **Starting Line Number**   4   **Section**   8.2.7

Balloter's Suggested Change:

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

Balloter's Reason:

1.0 dB step size is prefered

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Coarse step size coupled with adaptive burst profiles could lead to unexpected results therefore the only change is "in steps of 0.5 dB in a monotonic fashion" - no tolerance mentioned

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Comment #   11-321   **Comment submitted by:**   Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number**   273   **Starting Line Number**   16   **Section**   8.2.7

Balloter's Suggested Change:

Insert: Tx Symbol Clock Accuracy: Must be locked to BS symbol clock

Balloter's Reason:

Symbol clock accuracy is an important parameter

Recommendation: **Rejected**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-322   **Comment submitted by:**   Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number**   273   **Starting Line Number**   19   **Section**   8.2.7

Balloter's Suggested Change:

Change : Tx RF frequency/accuracy: SS frequency locking required

Balloter's Reason:

Frequency locking is required for SS to achieve high accuracy

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-323   **Comment submitted by:**   Jay   Klein   Member

Type   Editorial   **Starting Page Number**   273   **Starting Line Number**   21   **Section**   8.2.7

Balloter's Suggested Change:

Delete "Tx Freq Range"

Balloter's 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

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-324   **Comment submitted by:**   Juha   Pihlaja   Neither

Type   Technical   **Starting Page Number**   273   **Starting Line Number**   21   **Section**   8.2.7

Balloter's Suggested Change:

Delete: Tx frequency range

Balloter's Reason:

Not relevant for specification

Recommendation: Accepted   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-325   **Comment submitted by:**   Jay   Klein   Member

Type   Technical   **Starting Page Number**   273   **Starting Line Number**   23   **Section**   8.2.7

Balloter's Suggested Change:

Replace TBD with "Per relevant local regulation requirements"

Balloter's Reason:

Used for the base station as well. Better than TBD.

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Add "OOB" to the dictionary (Out of Band/Block)"

Comment #   11-326   **Comment submitted by:**   Jay   Klein   Member

Type   Editorial   **Starting Page Number**   273   **Starting Line Number**   25   **Section**   8.2.7

Balloter's Suggested Change:

Remove the following items: "Spectral mask (in band)" and "Filter distortion" (including Group delay and amplitude ripple reference)

Balloter's 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

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-327   **Comment submitted by:**   Jay   Klein   Member

Type   Editorial   **Starting Page Number**   273   **Starting Line Number**   32   **Section**   8.2.7

Balloter's Suggested Change:

(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

Balloter's 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

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-328   **Comment submitted by:**   Jay | Klein | Member

Type   Editorial   **Starting Page Number**   273   **Starting Line Number**   32   **Section**   8.2.7

Balloter's Suggested Change:

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

Balloter's 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

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Comment #   11-329   **Comment submitted by:**   Vicente | Quilez | Observer

Type   Editorial   **Starting Page Number**   274   **Starting Line Number**   9   **Section**   8.2.7

Balloter's Suggested Change:

Change references in the table 64, column named "specification section"

Balloter's Reason:

In table 64, "specification Section" column, references does not match any subclause section in the document.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Remove completely this line from the table.

Comment #   11-330   **Comment submitted by:**   Jay   Klein   Member

Type   Editorial   **Starting Page Number**   275   **Starting Line Number**   40   **Section**   8.2.7.2.1

Balloter's Suggested Change:

Editor is required to Insert accepted changes of Session #10, Comment 579 by J.Klein

Balloter's Reason:

Editor forgot to insert change.

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

Channel types based on Falconer et al. report - see session #10 comment 579 for more details

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Comment #   11-331   **Comment submitted by:**   Vicente   Quilez   Observer

Type   Editorial   **Starting Page Number**   275   **Starting Line Number**   48   **Section**   8.2.7.2.1

Balloter's Suggested Change:

Include Type 0 in table 65

Balloter's Reason:

Type 0 is referenced in the following paragraph (pg 275, line 57) but it is not included in table 65

Recommendation: **Accepted-modified**   **Recommendation by: Committee at Session #11**

Resolution:

See J.Klein's 579 comment from Session #10.

Comment # 11-372   **Comment submitted by:** Jay   Klein   Member

Type Technical   **Starting Page Number** 273   **Starting Line Number** 17   **Section** 8.2.7

Balloter's Suggested Change:

Change +/- 1/2 with +/- 1/4 accuracy to +/-1/4 with +/- 1/8 accuracy.

Balloter's Reason:

This is change relaxes base station receiver design and imposes almost no penalty on the subscriber transmitter.

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

This comment requests to increase the resolution of burst time accuracy to +/- _ symbol. Modification to original comment regarding the language used for "resolution" and "accuracy".

Comment # 11-373   **Comment submitted by:** Jay   Klein   Member

Type Technical   **Starting Page Number** 272   **Starting Line Number** 17   **Section** 8.2.7

Balloter's Suggested Change:

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

Balloter's Reason:

Missing information in current document. Required for TDMA burst transmission (first part) and burst FDD/TDD (second part).

Recommendation: Accepted-modified   **Recommendation by: Committee at Session #11**

Resolution:

Modification regarding ramp up/down time – "A system wide parameter expressed in PS units (Modulation and Operating frequency dependent)"

Comment #   11-375   **Comment submitted by:**   Editorial Group

  Type   Editorial   **Starting Page Number**   **Starting Line Number**   **Section**

Balloter's Suggested Change:

Balloter's Reason:

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Remove all items from 8.2.7 which have no data (TBD) and relevant sections which reference these items

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Comment #   11-376   **Comment submitted by:**   Editorial Group

  Type   Editorial   **Starting Page Number**   **Starting Line Number**   **Section**

Balloter's Suggested Change:

Balloter's Reason:

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Remove TBR notation from items in 8.2.7 (keep the items)

Comment #   11-377   **Comment submitted by:**   Editorial Group

  Type   Editorial   **Starting Page Number**   **Starting Line Number**   **Section**

Balloter's Suggested Change:

Balloter's Reason:

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

Remove Table 64 in 8.2.7.

Comment #   11-378   **Comment submitted by:**   Editorial Group

   Type   **Starting Page Number**   **Starting Line Number**   **Section**

Balloter's Suggested Change:

Balloter's Reason:

Recommendation: **Accepted**   **Recommendation by: Committee at Session #11**

Resolution:

For consistency following acceptance of Comment 11-371, the following language is corrected.

8.2.2.2.1 Mode A and Mode B: Upstream Burst Mode Modulation

Adaptive modulation is used in the upstream in which different users are assigned different modulation
types by the base station.

In the adaptive case, the bandwidth allocated for registration and request contention slots always uses QAM-4 modulation (as part of burst
profile UIUC=1). The remaining transmission slots are grouped by SS.
During its scheduled transmission event, an SS uses the burst profile specified by the base station, as deter-mined
by the effects of distance and environmental factors on transmission to and from that SS. SS Transition
Gaps (STG) separate the transmissions of the various SSs during the uplink subframe. The STGs
contain a gap to allow for ramping down of the previous burst, followed by a preamble allowing the BS to
synchronize to the new SS. The preamble and gap lengths are broadcast periodically in the UCD message.
Shortening of FEC blocks in the uplink is identical to the handling in the downlink as described in 8.2.2.1.7.