
Item Number: 1

Commentor Name: Gupta
Rakesh

Page Number

Line Number:

Description of Edi

A minimal subset of the PHY and MAC layer protocols for both the base station and the subscriber station should be identified and agreed upon for ease of interoperability. It would be quite useful to identify in a single place which are the mandatory and optional parameters, messages and procedures.

Reason for Edit:

To facilitate interoperability.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Although this comment has been agreed upon, it will be left pending until the completion of the comment review.

Item Number: 2

Commentor Name: Gupta
Rakesh

Page Number

Line Number:

Description of Edi

The TLVs for various parameters should be defined in a single place. This will enhance the readability of the document and will make it easier to reference.

Reason for Edit:

To improve readability.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Although this comment has been agreed upon, it will be left pending until the completion of the comment review.

Item Number: 3

Commentor Name: Gupta
Rakesh

Page Number

Line Number:

Description of Edi

Some of the type values used are unique within a message and not across the entire MAC Message set while others are unique across the MAC message set. This may cause problems in the future if some of the parameters which are not unique across the MAC message set are to be used by a new message. All type values should be unique across the MAC message set.

Reason for Edit:

To provide for future evolution of the standard.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Although this comment has been agreed upon, it will be left pending until the completion of the comment review. Last phrase of the comment should re

Item Number: 4

Commentor Name: Hunter
Wayne

Page Number 2

Line Number: 3

Description of Edi

change "Carrier ense" to read "Carrier sense"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 5

Commentor Name: Condie

Page Number: 3

Mary

Line Number: 20

Description of Edit:

Burst needs to be defined both for uplink and downlink. For example in the downlink we use the concept of TDM burst and TDMA burst. This needs to be defined. (For example TDM burst defn would be along the lines of a set of data being transmitted to one or more users using one set of PHY parameters (modulation, FEC etc. are all the same). Also do we need the concept of TDMA burst any longer.

Reason for Edit:

Concept of burst is causing confusion. It needs to be very clear that changing some Phy parameter means that it is a separate burst.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Agreed and definition will be provided

Item Number: 6

Commentor Name: Marin

Page Number: 3

Scott

Line Number: 26

Description of Edit:

Add definition of Channel ID (used on page 35, line 14), which is apparently different than the CID or replace the term Channel ID with CID, whichever is correct.

Reason for Edit:

Confusion: Are the terms "Channel ID" and "CID" different or the same?

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Definition of Channel ID will be added

Item Number: 7

Commentor Name: Stanwood

Page Number: 3

Ken

Line Number: 47

Description of Edit:

Insert "and imply modulation and FEC" at the end of the sentence.

Reason for Edit:

More complete definition

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 8

Commentor Name: Stanwood

Page Number: 3

Ken

Line Number: 49

Description of Edit:

The definitions of Grant Per Connection and Grant Per Terminal are reversed.

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 9

Commentor Name: Condie

Page Number: 3

Mary

Line Number: 49

Description of Edit:

GPT and GPC definitions are reversed. Also in the GPC (formerly GPT) definition "a connections" should be "a specific connection"

Reason for Edit:

Correct discrepancy

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 10

Commentor Name: Marks

Page Number: 3

Roger

Line Number: 58

Description of Edit:

Change "MAC Service Access Point (MSAP)" to "Service Access Point (SAP)" and re-alphabetize this listing.

Reason for Edit:

The term "SAP" is more common than "MSAP" in the document, and there is no need to use both.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 11

Commentor Name: Stanwood

Page Number: 3

Ken

Line Number: 62

Description of Edit:

Superscript the "m" in "2m".

Reason for Edit:

Typo - the "m" is an exponent, not a multiplier.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 12

Commentor Name: Condie

Page Number: 3

Mary

Line Number: 62

Description of Edit:

Definition of mini-slot does not match the definition in 2.1.1.2, 2.5.2.1 and 2.6.7.2 (three different definitions). Is it supposed to be 2m or 2 the power of m.
Is the range of m 0 to 7 or 1 to 8?

Reason for Edit:

To correct inconsistencies.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: The definition should be in a single place. The correct range is 0 to 7.

Item Number: 13

Page Number 4

Line Number: 1

Commentor Name: Stanwood

Ken

Description of Edi

Insert a space between "A" and "group"

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 14

Page Number 4

Line Number: 5

Commentor Name: Stanwood

Ken

Description of Edi

Start second sentence "For instance with QAM modulation, each"

Reason for Edit:

Some future PHYs may not use QAM modulation.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 15

Page Number 4

Line Number: 23

Commentor Name: Marin

Scott

Description of Edi

Assuming the following is correct, insert new definition: Service Flow ID (SFID): An identifier for a service flow.

Reason for Edit:

SFID is not defined in the definitions or acronym list but is used on page 3, line 29.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Definition will be clarified by Glen

Item Number: 16

Page Number 4

Line Number: 32

Commentor Name: Condie

Mary

Description of Edi

SS uplink is not used in document, don't understand definition, should be removed.

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 17

Page Number 5

Line Number: 13

Commentor Name: Stanwood

Ken

Description of Edi

Change definition of "SS" to be "Subscriber Station" and put in proper alphabetical order.

Reason for Edit:

To fix a global replace error.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes:

Item Number: 18

Commentor Name: Stanwood

Page Number 5

Ken

Line Number: 31

Description of Edit

Reason for Edit:

Change definition of EUI to "Extended Unique Identifier"

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 19

Commentor Name: Hunter

Page Number 5

Wayne

Line Number: 43

Description of Edit

Reason for Edit:

change the "Mediaum" to "Medium"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 20

Commentor Name: Marks

Page Number 5

Roger

Line Number: 58

Description of Edit

Reason for Edit:

Delete "MSAP MAC Service Access Point".

Unnecessary since "SAP Service Access Point" is defined in the same list.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 21

Commentor Name: Hunter

Page Number 7

Wayne

Line Number: 7

Description of Edit

Reason for Edit:

change formatting in Figure 1 to allow the word "security" to be read properly

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments formatting does not allow the word to be properly read

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 22

Commentor Name: Hunter

Page Number: 7

Wayne

Line Number: 10

Description of Edi

change formatting in Figure 1 to allow the word "architecture" to be properly read

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments formatting does not allow the work to be properly read

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 23

Commentor Name: Stanwood

Page Number: 7

Ken

Line Number: 26

Description of Edi

add closing parenthesis to Figure title.

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 24

Commentor Name: Condie

Page Number: 8

Mary

Line Number: 16

Description of Edi

Add a space after "to" in "toaddress"

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 25

Commentor Name: Stanwood

Page Number: 8

Ken

Line Number: 16

Description of Edi

Change "toaddress" to "to address"

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 26

Commentor Name: Hunter

Page Number: 8

Wayne

Line Number: 16

Description of Edi

change the work "toaddress" to read "to address"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 27

Page Number: 8

Line Number: 20

Commentor Name: Hunter

Wayne

Description of Edi

change "andlegacy" to read "and legacy"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 28

Page Number: 8

Line Number: 20

Commentor Name: Condie

Mary

Description of Edi

Add space after "and" in "andlegacy"

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 29

Page Number: 8

Line Number: 35

Commentor Name: Hunter

Wayne

Description of Edi

change "singleBWA" to read "single BWA"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 30

Page Number: 9

Line Number: 5

Commentor Name: Hunter

Wayne

Description of Edi

in Figure 2 change "Fibe r" to read "Fiber"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 31

Page Number: 9

Line Number: 5

Commentor Name: Hunter

Wayne

Description of Edi

in Figure 2 change "righgs," to "rings,"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 32

Commentor Name: Hunter

Page Number: 9

Wayne

Line Number: 9

Description of Edit:

in Figure 2 change formatting to enable the word "Constrained" to be properly displayed

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments formatting compresses the last characters in the word

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 33

Commentor Name: Hunter

Page Number: 9

Wayne

Line Number: 9

Description of Edit:

in Figure 2 change the formatting to enable the word "Radio" to be successfully read

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments formatting currently causes the last several letters of the word to be overprinted

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 34

Commentor Name: Hunter

Page Number: 9

Wayne

Line Number: 10

Description of Edit:

change
in Figure 2 change formatting to be able to read the word "systems" which is now obscured by a graphic

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments graphic overshadows the text

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 35

Commentor Name: Hunter

Page Number: 9

Wayne

Line Number: 15

Description of Edit:

in Figure 2 change the formatting to enable the word "Radio" to be successfully read

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments current formatting causes the last several letters to be overprinted

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 36

Commentor Name: Hunter

Page Number 9

Wayne

Line Number: 15

Description of Edi

in Figure 2 change formatting to enable the word "Access" to be successfully read

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments current formatting causes the last several letter to be overprinted

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 37

Commentor Name: Hunter

Page Number 9

Wayne

Line Number: 18

Description of Edi

in Figure 2 change "Appeliations" to "Applications"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 38

Commentor Name: Hunter

Page Number 9

Wayne

Line Number: 30

Description of Edi

change the word "refer" to "refers"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 39

Commentor Name: Stanwood

Page Number 9

Ken

Line Number: 53

Description of Edi

Add Synchronous Digital Hierarchy and Plesiochronous Digital Hierarchy to section 1.2

Reason for Edit:

Reference says they are there, but they're not.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 40

Page Number: 9

Line Number: 54

Commentor Name: Hunter

Wayne

Description of Edit:

add the definitions of SDH and PDH to section 1.2 as noted in the text or delete the reference to section 1.2

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments document consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 41

Page Number: 10

Line Number: 7

Commentor Name: Hunter

Wayne

Description of Edit:

delete the last sentence which reads "ATM standards define a rich set of quality of service (QoS) guarantees for various service categories."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments this sentence is a duplication of the first sentence of the paragraph

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 42

Page Number: 10

Line Number: 20

Commentor Name: Condie

Mary

Description of Edit:

Paragraph should be removed.

Reason for Edit:

E.164 addresses are not ATM addresses, even though they may be used by ATM systems.
Also the ATM convergence sublayer should not be looking at ATM addresses, although it may map from ATM VPI/VCIs to CIDs.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 43

Page Number: 10

Line Number: 50

Commentor Name: Condie

Mary

Description of Edit:

TCP/IP header compression is not mentioned elsewhere in this document. Is it supported?

Reason for Edit:

Ask question?

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Remove TCP/IP header compression sentence

Item Number: 44

Page Number: 11

Line Number: 31

Commentor Name: Hunter

Wayne

Description of Edit:

change "802.26.1.1" to read "802.16.1"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 45

Page Number: 11

Line Number: 35

Commentor Name: Hunter

Wayne

Description of Edit:

move the last sentence of paragraph one, "LOS blockage by foliage also contributes heavily to signal attenuation.", to the end of paragraph two on line 40, after "rainfall."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
place the caveat on signal attenuation close to the statement on radio range

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 46

Page Number: 11

Line Number: 47

Commentor Name: Hunter

Wayne

Description of Edit:

change the word "azmuthal" to "azimuth"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
grammar

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 47

Page Number: 12

Line Number: 47

Commentor Name: Stanwood

Ken

Description of Edit:

Change "SS stations" to "SSs"

Reason for Edit:

"stations" is redundant with the second S in "SS"

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 48

Commentor Name: Hunter

Page Number: 13

Wayne

Line Number: 9

Description of Edit:

move Figure 3 to this location

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
place the figure close to where it is referenced

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 49

Commentor Name: Hunter

Page Number: 13

Wayne

Line Number: 44

Description of Edit:

place a comma after the phrase "(due to rain)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
grammar

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 50

Commentor Name: Hunter

Page Number: 14

Wayne

Line Number: 13

Description of Edit:

change "(30%" to read "30%"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 51

Commentor Name: Stanwood

Page Number: 14

Ken

Line Number: 13

Description of Edit:

remove opening parenthesis in front of "30%"

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 52

Page Number: 14

Line Number: 60

Commentor Name: Condie

Mary

Description of Edit:

Change 300 to 150

Reason for Edit:

300 ms is not what is stated in G.114 for end to end (one way) delay. G.114 recommends a 0-150 ms one way delay is acceptable for most user applications. 150-400 ms is "Acceptable provided that Administrations are aware of the transmission time impact on the transmission quality of user applications"

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 53

Page Number: 15

Line Number: 1

Commentor Name: Condie

Mary

Description of Edit:

"see G.114] appears to be extraneous. Is it supposed to be connected to the previous paragraph?"

Reason for Edit:

Correct typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 54

Page Number: 15

Line Number: 4

Commentor Name: Hunter

Wayne

Description of Edit:

delete the large space on lines 5 through 9

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 55

Page Number: 15

Line Number: 5

Commentor Name: Condie

Mary

Description of Edit:

Remove blank lines

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 56

Commentor Name: Stanwood

Page Number 15

Ken

Line Number: 10

Description of Edi

remove blank lines and have this line start at the end of line 4. Also, change "delay is should" to "delay should"

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 57

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 8

Description of Edi

change "demandand" to read "demand and"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 58

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 10

Description of Edi

change "Variable Bit: Non-Real-Time Rate" to read "Variable Bit Rate: Non-Real-Time"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 59

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 16

Description of Edi

change "Higher variations of delay may be tolerable since applications that fall into this category allow for priority traffic to consume bandwidth they do." to read "Higher variations of delay may be tolerable since applications that fall into this category are designed to accommodate delays in the availability of data."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments clarify the language

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 60

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 28

Description of Edi

change the wording from ", The X Window System, NFS, Microsoft or Novell File Sharing, etc.)" to read ", The X Window System, Microsoft or Novell File Sharing (NFS), etc.)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct placement of the acronym

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 61

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 28

Description of Edi

change the wording from ", The X Window System, NFS, Microsoft or Novell File Sharing, etc.)" to read ", The X Window System, Microsoft or Novell File Sharing (NFS), etc.)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct placement of the acronym

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 62

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 54

Description of Edi

change the wording from "system,ATM" to "system, ATM"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 63

Commentor Name: Hunter

Page Number 16

Wayne

Line Number: 55

Description of Edi

change the wording from "TheATM" to read "The ATM"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 64

Page Number: 17

Line Number: 6

Commentor Name: Hunter

Wayne

Description of Edit:

change the wording from "The aspect of" to "The aspects of"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 65

Page Number: 18

Line Number: 34

Commentor Name: Mollenauer

Jim

Description of Edit:

Change acronym for Convergence Sublayer to CS from CL, here and wherever else used. Also change definition of CS from Convergence Subprocess to Convergence Sublayer

Reason for Edit:

Consistency of usage

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 66

Page Number: 19

Line Number: 5

Commentor Name: Hunter

Wayne

Description of Edit:

change the figure to include a direct link from the "Other Conv." layer directly to the PHY by removing the shading on a portion of the MAC and TC layers below the "Other Conv." column.

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments to be consistent with the text on page 58, line 43

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Fix the drawing in Figure 5 to show a single SAP for all the CLs

Item Number: 67

Page Number: 19

Line Number: 10

Commentor Name: Marks

Roger

Description of Edit:

Modify Figure 5 by showing the "SAP" directly below each convergence layer. In other words, create four copies of the SAP logo (the word "SAP" inside a hexagon; the hexagons should be smaller than the current one) and put a copy below each of the four convergence layer rectangles.

Reason for Edit:

The current figure shows the SAP only as related to two of the convergence layers. In fact, it should be an element of all four.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Fixed differently in previous comment

Item Number: 68

Page Number 20

Line Number: 7

Commentor Name: Hunter

Wayne

Description of Edi

change the wording "it is necessary to.to keep" to read "it is necessary to keep"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 69

Page Number 20

Line Number: 21

Commentor Name: McMullin

Rod

Description of Edi

Add the sentence, "Sequence number 0xFFFFFFFF shall be used for unsolicited responses."

Reason for Edit:

There is an extremely rare possibility that the sequence number used in an unsolicited response is the same as the sequence number that a node is waiting to receive a 'solicited' response to. We can roll the dice (do nothing)
, pick a unique sequence number for unsolicited responses, add a new entry to
the request primitive...

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Correct wording should be provided to avoid confusion. This is a logical interface, and no implementation is being defined.

Item Number: 70

Page Number 20

Line Number: 48

Commentor Name: Stanwood

Ken

Description of Edi

The primitives should have a fragmentation granularity parameter. This should also be a connection parameter.

Reason for Edit:

For some connections, it may be reasonable to restrict MAC layer fragmentation to something other than byte boundaries. For example, a connection the carries ATM cells with header compression may restrict the fragmentation to multiples of 48 bytes.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 71

Page Number 20

Line Number: 51

Commentor Name: Leiba

Yigal

Description of Edi

Add to the MAC-CREATE-CONNECTION.request primitive a field called 'ARQ parameters'. The ARQ parameters include details on whether ARQ is used or
not for the connection, maximum re-transmission limit and acknowledgment window size.

Reason for Edit:

This comment has been resolved as accepted (see IEEE 802.16.1-00/09 item 49 at
page 10), but is missing from the current version of the draft.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 72

Page Number: 20

Line Number: 51

Commentor Name: Leiba

Yigal

Description of Edi

Add to the MAC-CREATE-CONNECTION.request primitive a field called 'fragmentation'. The values for this field can be ON or OFF, and indicate the fragmentation is used in this connection

Reason for Edit:

Compatibility with the definition in page 123, line 54 of the draft, that says
'The authority to fragment a traffic on a connection is defined when the connection is created by a MSAP.'

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Section should be fixed to show that all connections need fragmentation

Item Number: 73

Page Number: 21

Line Number: 34

Commentor Name: Hunter

Wayne

Description of Edi

change the sentence to delete the "..)" characters after the words "connection ID"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 74

Page Number: 21

Line Number: 38

Commentor Name: Hunter

Wayne

Description of Edi

change the word "potion" to "portion"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 75

Page Number: 21

Line Number: 54

Commentor Name: Stanwood

Ken

Description of Edi

The MAC-CREATE-CONNECTION.indication should have a connection ID in the case where the .request was generated by the BS.

Reason for Edit:

Convergence sublayer on the CPE needs to get the connection ID.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: It also has to include other parameters

Item Number: 76

Commentor Name: Stanwood

Page Number: 22

Ken

Line Number: 1

Description of Edit:

The paragraph is inconsistent with the fact that the MAC-DATA.request primitive on page 26 shows an encryption flag. The question arises as to whether the MAC retains such information about the connections or if the CL must tell it for every PDU. Since these primitives are just a logical internal interface, not a required set of messages it doesn't really matter which way we go, as long as the BS and CPE both have the same info through the provisioning or dynamic addition of connections, we just need to be consistent.

Reason for Edit:

Consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: It should be included in the data connection establishment attributes, but not in the data transfer attributes.

Item Number: 77

Commentor Name: Condie

Page Number: 22

Mary

Line Number: 15

Description of Edit:

Remove "from"

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 78

Commentor Name: McMullin

Page Number: 22

Rod

Line Number: 15

Description of Edit:

Change: "When the CL this primitive from ," to, "When the CL receives this primitive,"

Reason for Edit:

text is garbled

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 79

Commentor Name: McMullin

Page Number: 22

Rod

Line Number: 21

Description of Edit:

Change "... CID contained in the INDICATION." To "...CID contained in the DSA header bearing the indication."

Reason for Edit:

There is no CID attribute in the INDICATION primitive and not sure it make sense to put one there...

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 80

Page Number: 22

Line Number: 45

Commentor Name: McMullin

Rod

Description of Edi

Remove; "ARQ parameters"

Reason for Edit:

There is nothing in the request primitive to balance the ARQ response, unless the CRCrequest really means ARQrequest. Probably best to negotiate ARQ through service flow parameters.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Left out by mistake. Editorial comment by Yigal will take care of this.

Item Number: 81

Page Number: 22

Line Number: 49

Commentor Name: McMullin

Rod

Description of Edi

Change; "then this value shall be NULL." To, "then this value shall be ignored."

Reason for Edit:

The representation of NULL could be an issue; table 1 indicates that CID would be typed as an unsigned 16 bit integer, and all values are defined. It is safe to ignore the CID based on the "response code".

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 82

Page Number: 26

Line Number: 30

Commentor Name: Stanwood

Ken

Description of Edi

Need "Convergence Sublayer Pass Through (CPT)" parameter both here and in the .indication primitive on page 27.

Reason for Edit:

See my submittal on the ATM convergence sublayer for why this might be useful.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: unresolved

Notes: It will be solved once the CLs are defined.

Item Number: 83

Page Number: 27

Line Number: 21

Commentor Name: Stanwood

Ken

Description of Edi

The primitive should contain a packet discard eligibility flag like the .request had. There may be upstream points where non-conforming packets may need to be discarded in congestion scenarios.

Reason for Edit:

Need end-to-end packet discard eligibility to support ATM and other traffic types.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 84

Commentor Name: Stanwood

Page Number: 27

Ken

Line Number: 29

Description of Edit:

This primitive should not contain an encryption flag. Also delete paragraph starting at line 42.

Reason for Edit:

Data is already decrypted by this point.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 85

Commentor Name: Klein

Page Number: 27

Jay

Line Number: 59

Description of Edit:

Chapter 2 should start on a new page

Reason for Edit:

New chapters and main sections should start on a new page for clarity.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 86

Commentor Name: Condie

Page Number: 28

Mary

Line Number: 25

Description of Edit:

Change "unsolicited" to "unsolicited"

Reason for Edit:

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 87

Commentor Name: Marin

Page Number: 28

Scott

Line Number: 28

Description of Edit:

Change "cidused" to "used"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 88

Commentor Name: Stanwood

Page Number: 28

Ken

Line Number: 29

Description of Edit:

Change "cidused" to "used"

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 89

Commentor Name: Hunter

Page Number: 28

Wayne

Line Number: 29

Description of Edit:

change the wording from "can be cidused" to "can be used"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 90

Commentor Name: Marks

Page Number: 28

Roger

Line Number: 40

Description of Edit:

Delete everything from Line 40 of Page 28 to the middle of Line 12 of Page 30 (through the words "quantities are").

Reason for Edit:

This section was inappropriately included in the document. It was tentatively edited in on the basis of Comment #58, but since Comment #58 was Unresolved, it should not be included (see documentation in IEEE 802.16.1-00/09: 802.16.1 Comments Resolved at Session #9 <http://iee802.org/16/tg1/docs/802161-00_09.pdf>).

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes:

Item Number: 91

Commentor Name: Condie

Page Number: 28

Mary

Line Number: 46

Description of Edit:

Change "Qconnection iduality" to "QoS connection"

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 92

Commentor Name: Condie

Page Number: 29

Mary

Line Number: 6

Description of Edit:

This paragraph, wrt the number of mandatory connections, contradicts section 2.1.2. Which is correct?

Reason for Edit:

Reduce confusion.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Still needs a Service Flow definition. Text is misplaced.

Item Number: 93

Commentor Name: Condie

Page Number 29

Mary

Line Number: 12

Description of Edi

Throughout the document either change occurrences of Primary CID to Basic CID or change Basic CID to Primary CID

Reason for Edit:

Throughout the document the terms Primary CID and Basic CID are used to refer to the same CID. Only one term should be used. The term chosen for CID (primary or basic) should also be used to refer to the corresponding service flow.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Text is misplaced.

Item Number: 94

Commentor Name: Condie

Page Number 29

Mary

Line Number: 18

Description of Edi

I thought the Basic/Primary CIDs were only used for MAC msgs, not data?

Reason for Edit:

Ask question

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Glen is already rewriting the paragraph.

Item Number: 95

Commentor Name: Condie

Page Number 29

Mary

Line Number: 21

Description of Edi

MAC sublayer domain is used many times in this document and is not defined. A definition needs to be added.

Reason for Edit:

To reduce confusion. Later in the document values are unique within the "Mac sublayer domain". We need to understand the scope.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Definition will be added

Item Number: 96

Commentor Name: Condie

Page Number 29

Mary

Line Number: 22

Description of Edi

Change "14 bits" to "16 bits" and remove "(although the Connection ID is sometimes carried in the low-order bits of a 16-bit field)

Reason for Edit:

CID is defined throughout the document as a 16-bit identifier, not 14-bit.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 97

Commentor Name: Condie

Page Number 29

Mary

Line Number: 38

Description of Edi

Change 5.4.1.3 to 2.6.7.2. Table references should also be corrected.

Reason for Edit:

To correct an invalid cross-reference. However I am not absolutely sure this is the correct new reference.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 98

Commentor Name: Condie

Page Number 29

Mary

Line Number: 39

Description of Edi

Remove "2000-04-14 IEEE 802.16.1mc-00/14r0" from the end of the paragraph.

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 99

Commentor Name: Condie

Page Number 29

Mary

Line Number: 56

Description of Edi

Section header number is incorrect.

Reason for Edit:

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 100

Commentor Name: Gupta

Page Number 29

Rakesh

Line Number: 57

Description of Edi

There are separate bit transmission procedures defined for the upstream and downstream. There is no technical reason that they should not be the same. It is proposed that the text in the first three paragraphs of this section be replaced by the following text:

"Within the MAC layer, when numeric quantities are represented by more than one byte (i.e., 16 bit and 32 bit values), the byte containing the most significant bits is the first transmitted. This is sometimes called byte-big-endian order.

Since all the parameters consist of integral number of bytes, the MAC messages can be considered as a stack of bytes. The first byte transmitted is the one at the top of the stack and the last one at the bottom. Within each byte the bits are transmitted with the most significant bit first."

Reason for Edit:

To have a consistent message transmission procedures in both the upstream and downstream.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See page 59

Item Number: 101

Page Number 30

Line Number: 49

Commentor Name: Marin

Scott

Description of Edi

Change "Each SS shall maintain a 48-bit MAC address for globally unique addressing purposes." to "Each SS shall have a globally-unique 48-Bit MAC address."

Reason for Edit:

improved clarity of the requirement.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 102

Page Number 30

Line Number: 57

Commentor Name: Stanwood

Ken

Description of Edi

Change "IDs" to "ID" and change "are" to "is".

Reason for Edit:

To fix a typo in the restructuring of this sentence from the last round of comments.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 103

Page Number 31

Line Number: 1

Commentor Name: Condie

Mary

Description of Edi

change "likeIP" to "like IP"

Reason for Edit:

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 104

Page Number 31

Line Number: 1

Commentor Name: Stanwood

Ken

Description of Edi

Change "likeIP" to "like IP". On line 2, change "CIDpermits" to "CID permits". On lines 2, 6, 12, and 19, the word "CID" always has an extra space preceding it.

Reason for Edit:

To fix typos

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 105

Commentor Name: Hunter

Page Number: 31

Wayne

Line Number: 1

Description of Edi

change the wording from "traffic likeIP" to read "traffic like IP"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 106

Commentor Name: Condie

Page Number: 31

Mary

Line Number: 2

Description of Edi

change "CIDpermits" to "CID permits"

Reason for Edit:

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 107

Commentor Name: Hunter

Page Number: 31

Wayne

Line Number: 2

Description of Edi

change the wording from "16-bit CIDpermits a" to "16-bit CID permits a"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 108

Commentor Name: Stanwood

Page Number: 31

Ken

Line Number: 3

Description of Edi

Change "the downstream channel" to "each downstream and upstream channel"

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 109

Commentor Name: Condie

Page Number: 31

Mary

Line Number: 21

Description of Edi

change "having" to "have"

Reason for Edit:

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 110

Page Number: 31

Line Number: 26

Commentor Name: McMullin

Rod

Description of Edit:

Reserve a block of CIDs for future use.

Reason for Edit:

No CIDs have been assigned for Multicast Traffic in the downstream. This will make it difficult to support convergence requirements for IP multicast. (The security section makes reference to IP multicast traffic and offers some services; e.g. Section 2.16.2.2.15, page 256.)...perhaps there are other reasons to reserve a few CIDs.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Text should be added explaining how multicast connections are set-up.

Item Number: 111

Page Number: 32

Line Number: 11

Commentor Name: Stanwood

Ken

Description of Edit:

Add DCD Interval to table

Reason for Edit:

PCD was broken into UCD and DCD.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Max. value is 2 sec.

Item Number: 112

Page Number: 32

Line Number: 13

Commentor Name: Condie

Mary

Description of Edit:

Insert new row, "DCD Interval, Time between transmission of DCD messages" with maximum value of 2 seconds.

Reason for Edit:

Interval is currently undefined.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 113

Page Number: 32

Line Number: 17

Commentor Name: Hunter

Wayne

Description of Edit:

remove the extra ")" after the work "future" in the table entry under time reference

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 114

Page Number: 33

Line Number: 40

Commentor Name: Leiba

Yigal

Description of Edi

Timing values are referenced to symbol duration. This is PHY dependant, and may not suit an OFDM PHY for instance.

Reason for Edit:

Make MAC suitable for use with PHY other than QAM

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Remove the "Tick" word from figure 55, on page 118. Remove definition of Timebase tick. Change the minimum value of Mini-slot size to 1 PS. Repla

Item Number: 115

Page Number: 33

Line Number: 41

Commentor Name: Condie

Mary

Description of Edi

Minimum Mini-slot size is defined as 32 modulation symbols. However according to sections 2.1.1.2 and 2.6.7.2 the minimum size should be either 4 (4 symbols * 2 power 0) or 8 (4 symbols * 2 power 1). If the true minimum is 32 symbols then "m" should have a minimum value of 3.

Reason for Edit:

To correct discrepancies.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 116

Page Number: 34

Line Number: 44

Commentor Name: Stanwood

Ken

Description of Edi

We need to be certain that all necessary TLVs are here, and that there aren't any TLVs here that aren't in some message. In general, were inconsistent with where we define TLVs. We define some here, some with the individual messages in the MAC message section, some in the privacy section. I think we need a more consistent methodology for defining and referencing the defined TLVs.

Reason for Edit:

Eliminate confusion

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: TLVs should be defined in a different section.

Item Number: 117

Page Number: 34

Line Number: 49

Commentor Name: Hunter

Wayne

Description of Edi

change the wording from "i.e. the containing the" to read "i.e. containing the"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 118

Commentor Name: Mollenauer

Page Number: 34

Jim

Line Number: 49

Description of Edit:

insert "byte" before "containing"

Reason for Edit:

To correct a typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 119

Commentor Name: Stanwood

Page Number: 34

Ken

Line Number: 61

Description of Edit:

Delete extra space before comma.

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 120

Commentor Name: Condie

Page Number: 35

Mary

Line Number: 3

Description of Edit:

change "SS.It" to "SS. It"

Reason for Edit:

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 121

Commentor Name: Stanwood

Page Number: 35

Ken

Line Number: 3

Description of Edit:

Add a space between first and second sentences.

Reason for Edit:

To fix a typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 122

Page Number: 35

Line Number: 3

Commentor Name: Hunter

Wayne

Description of Edi

change the wording from "receive frequency to be used" to read "receive frequency is to be used"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: rejected

Notes:

Item Number: 123

Page Number: 35

Line Number: 19

Commentor Name: Marin

Scott

Description of Edi

Assuming the subsequent statement is correct, insert new sentence after sentence ending in "... selected during initialization." that reads "Note, the channel ID and the CID are different terms."

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Acronym "ChID" for Channel ID should be added

Item Number: 124

Page Number: 35

Line Number: 19

Commentor Name: Condie

Mary

Description of Edi

Insert "The upstream channel id is unique within the downstream channel only."

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 125

Page Number: 35

Line Number: 62

Commentor Name: Leiba

Yigal

Description of Edi

Remove the downstream modulation configuration field from the configuration file.

Reason for Edit:

Specifying the downstream modulation alone is not compatible with the concept of IUC. The information contained in this field should be obtained from listening to the DCD messages.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Text will be rewritten

Item Number: 126

Commentor Name: Condie

Page Number: 37

Mary

Line Number: 3

Description of Edi

Privacy is enable/disabled on a per connection basis. If this is a global flag then the paragraph should be reworded as follows, otherwise the section should be deleted.

This configuration setting enables/disables Privacy on the Primary Service flow and all other service flows which have been configured for encryption.

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Concept of Privacy should be splitted into Encryption and Authentication. Encryption-switch should be made on a per terminal basis. The concept shoul

Item Number: 127

Commentor Name: Condie

Page Number: 37

Mary

Line Number: 18

Description of Edi

Change "code 43" to "type 43"

Reason for Edit:

Consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 128

Commentor Name: Hunter

Page Number: 37

Wayne

Line Number: 19

Description of Edi

delete the extra empty line

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 129

Commentor Name: Hunter

Page Number: 37

Wayne

Line Number: 21

Description of Edi

change the wording from "to which vendors products" to read "to which vendor's products"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 130

Commentor Name: Condie

Page Number: 38

Mary

Line Number: 13

Description of Edi

Replace "directory path name" with "directory path name which is a character in a format appropriate to the server. There is no requirement that the character string be null terminated; the length field always identifies the end of string."

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Sentence should read: "...directory path name which is in a format appropriate to the server. There is no requirement that the character string be null ter

Item Number: 131

Commentor Name: Hunter

Page Number: 38

Wayne

Line Number: 25

Description of Edi

include the definition of MIB either in the text stream or in the glossary

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
MIB has not been defined

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 132

Commentor Name: Condie

Page Number: 39

Mary

Line Number: 24

Description of Edi

Change "ip1,ip2,ip3,ip4" to "IP Address"

Reason for Edit:

Field is now 4 or 16 bytes and new definition matches other IP address definitions in document.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 133

Commentor Name: Simard

Page Number: 40

Francois

Line Number: 11

Description of Edi

For each "feature bit" in sub-sections 2.3.3.1.3 to 2.3.3.1.6 inclusively, specify what bit values represent

"Not allowed" and "Allowed" values. For example:

bit #0: QPSK, 0 - Not allowed, 1 - Allowed

Reason for Edit:

For each "feature bit" in sub-sections 2.3.3.1.3 to 2.3.3.1.6 inclusively, it is not clear what bit values represent

"Not allowed" and "Allowed" values.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: We need to make it generic by adding a PHY layer TLV with the supported modulation TLVs and FEC TLVs (needs to be added) by each PHY type.

Item Number: 134

Commentor Name: Leiba

Page Number 40

Yigal

Line Number: 15

Description of Edi

The SS modulator and SS demodulator fields are not enough to describe the capability of a station. Another pair of TLVs should be added to describe ECC capability. Alternatively, the existing TLVs can be expanded to describe modulation and ECC combinations supported. The following encoding could be used,

- Bit #0: QPSK
- Bit #1: 16-QAM
- Bit #2: 64-QAM
- Bit #3: RS
- Bit #4: RS + Parity
- Bit #5: RS + BCC
- Bit #6: BTC

Reason for Edit:

Specifying the modulation alone is not compatible with the concept of IUC.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 135

Commentor Name: Lindh

Page Number 40

Lars

Line Number: 31

Description of Edi

Insert bit #3: TFM
Change bit #4-7, reserved must be set to zero.

Reason for Edit:

Define TFM as an additional modulation type that can be supported by the SS.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 136

Commentor Name: Leiba

Page Number 40

Yigal

Line Number: 36

Description of Edi

FDD (burst downstream) and Half-Duplex FDD are now one mode, and therefore should have one value in the TLV value field.

Reason for Edit:

Correct an inconsistency in the draft

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Change bit #2 to be TDD, and add bit #3 to the reserved list

Item Number: 137

Page Number 41

Line Number: 36

Commentor Name: Hunter

Wayne

Description of Edi

provide acronyms to support future use of the terms DSA, DSC, and DSD

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
completeness

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 138

Page Number 41

Line Number: 45

Commentor Name: Hunter

Wayne

Description of Edi

change the text from "the all of the Dynamic" to read "all of the
Dynamic"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 139

Page Number 41

Line Number: 64

Commentor Name: Mollenauer

Jim

Description of Edi

The fields mentioned in the text (line 59) are not indicated here.

Reason for Edit:

TLV description does not match the text description.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Delete "A summary of" from line 59. Also the second sentence: "The fields.." should be deleted. Add in the parenthesis, after 20, the word "byte".

Item Number: 140

Page Number 42

Line Number: 26

Commentor Name: Hunter

Wayne

Description of Edi

change the text from "order, i.e., the containing" to read "order, i.e.
containing"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 141

Page Number 42

Line Number: 36

Commentor Name: Hunter

Wayne

Description of Edi

change the wording from "complex in that is composed" to read "complex
in that it is composed"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 142

Commentor Name: Hunter

Page Number: 42

Wayne

Line Number: 51

Description of Edi

change the wording from "complex in that is composed" to read "complex in that it is composed"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 143

Commentor Name: Hunter

Page Number: 45

Wayne

Line Number: 35

Description of Edi

change the wording from "Flow Encoding that specifies" to read "Flow Encoding as described and defined in Table 3 that specifies"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments insert reference to the table

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 144

Commentor Name: Condie

Page Number: 46

Mary

Line Number: 6

Description of Edi

Change "Sect" to "Set"

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 145

Commentor Name: Condie

Page Number: 49

Mary

Line Number: 41

Description of Edi

Remove "Bit #2 Reserved Bit #3 Reserved"

Reason for Edit:

Doesn't make sense

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 146

Page Number 52

Line Number: 26

Commentor Name: Stanwood

Ken

Description of Edi

Again, we have an inconsistency in how and where we define TLVs. This section needs to at least reference the privacy section where the TLVs are defined. As it stands it's a worthless section. Preferably, we need a consistent approach to TLVs to make certain we don't overload type values when the context doesn't keep the overloading from creating ambiguity.

Reason for Edit:

clarity and consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 147

Page Number 53

Line Number:

Commentor Name: Eklund

Carl

Description of Edi

I think there is a problem with the initial IP connectivity establishment. The SS only has a temporary CID at the time. This CID is used to transport both management and transport PDUs (the DHCP request can be considered a transport PDU). How can we tell these apart? Do we need to tunnel these messages in MAC management message?

Reason for Edit:

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: A section describing the Management Functions must be created, and the Task Group will relocate messages to this area. A method for doing the manag

Item Number: 148

Page Number 53

Line Number: 21

Commentor Name: Condie

Mary

Description of Edi

Change "below:" to "below and encoded as per RFC-2131"

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 149

Page Number 54

Line Number: 20

Commentor Name: Condie

Mary

Description of Edi

""field in s" and "Value is from one to 254 s" don't make sense. I am not sure of what it is supposed to say so can't offer suggested fix. Should "s" be "bytes"?

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: bytes is correct

Item Number: 150

Commentor Name: Stanwood

Page Number 55

Ken

Line Number: 7

Description of Edi

These items in the configuration file should reference the section in which they're defined.

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Part of the TLV fixing

Item Number: 151

Commentor Name: Stanwood

Page Number 55

Ken

Line Number: 16

Description of Edi

delete lines 16-20. Add convergence Sub-Layer Configuration Settings to the Service Flow Configuration Settings

Reason for Edit:

The convergence sub-layer configuration settings will most likely change on a connection by connection basis and should be part of the service Flow Configuration Settings as necessary for the particular type of connection.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Deletion of line OK. CLs settings will be solved by Ken with the TLVs.

Item Number: 152

Commentor Name: McMullin

Page Number 55

Rod

Line Number: 35

Description of Edi

Remove; "SS ethernet MAC address"

Reason for Edit:

The very first time an SS registers it needs to provide the its ethernet MAC address in the initial ranging request. Thus, the EUI needs to be installed before receiving the configuration file.

This Section would also require a factory installed EUI to be overwritten by a configuration file setting.

Date Received: 29/10/00

Date Resolved:

Comment Type: ?

Resolution Status: unresolved

Notes:

Item Number: 153

Commentor Name: Stanwood

Page Number 55

Ken

Line Number: 35

Description of Edi

Can an SS be told its Ethernet MAC address or is this just here for identification?

Reason for Edit:

redundant info?

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Delete line 35

Item Number: 154

Commentor Name: McMullin

Page Number 55

Rod

Line Number: 36

Description of Edit

Remove, "Maximum Number of SSs"

Reason for Edit:

The, "Maximum Number of SSs", is not relevant to an SS. What would an SS do with this number?

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 155

Commentor Name: Stanwood

Page Number 55

Ken

Line Number: 37

Description of Edit

delete "Maximum Number of SSs"

Reason for Edit:

It's an old TLV we already removed from section 2.3.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 156

Commentor Name: Stanwood

Page Number 55

Ken

Line Number: 39

Description of Edit

These items in the configuration file should reference the section in which delete Payload Header Suppression

Reason for Edit:

This should be activated on a connection by connection basis and therefore should be part of the Service Flow Configuration Settings

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Delete "Payload Header Suppression". Other part of comment is redundant.

Item Number: 157

Commentor Name: Hunter

Page Number 55

Wayne

Line Number: 49

Description of Edit

insert a blank line between line 49 and 50

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 158

Commentor Name: Varma

Page Number 58

Subir

Line Number: 43

Description of Edi

Replace the contents of Section 2.5 of the document 802161-00/01r4 by the contents of Section 4.1 of the document 802161c-00_11

Reason for Edit:

See the contents of Sections 2.1 and 2.2 of the document 802161c-00_11

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Features are already supported through another mechanism more efficiently.

Item Number: 159

Commentor Name: Mollenauer

Page Number 58

Jim

Line Number: 52

Description of Edi

Delete this sentence.

Reason for Edit:

The use of the CRC is explained more fully on page 59, line 27.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 160

Commentor Name: Stanwood

Page Number 58

Ken

Line Number: 52

Description of Edi

delete this line

Reason for Edit:

It is redundant with the more correct description on page 59, line 26.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 161

Commentor Name: Eklund,

Page Number 58

Carl

Line Number: 53

Description of Edi

Remove sentence: A 32 bit CRC

Reason for Edit:

Incorrect statement. Only connection with CRC specified add the CRC.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 162

Commentor Name: Hunter

Page Number 59

Wayne

Line Number: 1

Description of Edi

Does the transmission order of the data refer to the base station, subscriber station, or both?

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments statement needs clarification as to where it applies

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 163

Commentor Name: Stanwood

Page Number: 59

Ken

Line Number: 16

Description of Edi

Convergence Sub-layer header in Figure 12 should include "(if required by CS)"

Reason for Edit:

Not all convergence sublayers will have Convergence Sublayer headers, and when they do, they will be specific to the individual convergence sublayer.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Replace figure 17 with Figure 12 including the text above mentioned, and Figure 18 with Figure 12, with modifications removing CRC and changing C

Item Number: 164

Commentor Name: Stanwood

Page Number: 59

Ken

Line Number: 26

Description of Edi

The CRC should be applied to MAC PDU fragments.

Reason for Edit:

The FSM field already signals the loss of fragments, so an entire MAC PDU CRC is unnecessary. Also, ARQ needs a per fragment CRC to be most efficient.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: This applies to the PDU, and not to the SDU. Definition of PDU has to be clarified in the document, and the correct use of PDU and SDU has to be look

Item Number: 165

Commentor Name: Condie

Page Number: 60

Mary

Line Number: 2

Description of Edi

Add "The field definitions are provided in Table 5".

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 166

Commentor Name: Stanwood

Page Number: 60

Ken

Line Number: 16

Description of Edi

use at least 3 of the reserved bits in the header (also downlink header on page 61) for Convergence sublayer Pass Through (CPT) bits.

Reason for Edit:

Can eliminate convergence sublayer headers when only a small amount of information needs to be passed.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: unresolved

Notes: Deferred after CL discussions.

Item Number: 167

Commentor Name: Stanwood

Page Number 60

Ken

Line Number: 16

Description of Edi

Use one of the reserved bits in the header (also downlink header on page 61) for a packet discard eligibility (PDE) bit.

Reason for Edit:

many protocols support tagging packets that can be thrown away at congestion points. The MAC should support passing this type of information along.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Favour: 6, Against: 4

Item Number: 168

Commentor Name: Condie

Page Number 61

Mary

Line Number: 1

Description of Edi

Change "Mangament" to "Management"

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 169

Commentor Name: Stanwood

Page Number 62

Ken

Line Number: 19

Description of Edi

Add CPT and PDE to the table.

Reason for Edit:

Assuming the comments to include them into the header are accepted.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Deferred CPT and Accepted PDE

Item Number: 170

Commentor Name: Stanwood

Page Number 64

Ken

Line Number: 1

Description of Edi

Insert a space between the sentences

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 171

Commentor Name: Stanwood

Page Number 64

Ken

Line Number: 19

Description of Edit

Replace the phrase "control and checksum fields" with "control field".
Replace the second sentence with the following sentence: "Additionally, the MAC PDU CRC must be enabled for the connections on which ARQ is enabled."
In the next sentence change "control field" to "ARQ control field".

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 172

Commentor Name: Stanwood

Page Number 64

Ken

Line Number: 34

Description of Edit

Before the last sentence, add the sentence: "The internal format of the CS payload is unique to the CS, and the MAC is not required to understand the format of or parse any information from the CS payload."

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 173

Commentor Name: Hunter

Page Number 65

Wayne

Line Number: 1

Description of Edit

Clarification is needed here. Does this requirement mean that the SS must have two software routines running in parallel to monitor logical channel assignments or two independent RF channels to read MAC management messages. See also page 83, line 65, and page 84, line 1.

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments the current description does not make clear the messages are to be dealt with

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Transport Connection and Management Connection have to be included in the definitions part.

Item Number: 174

Commentor Name: Eklund,

Page Number 65

Carl

Line Number: 5

Description of Edit

Correct figure to 18 to include separate DL and UL message formats.

Reason for Edit:

The current figure only reflects the UL situation correctly.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: After replacing figure, modify text to "Generic UL or DL MAC Header"

Item Number: 175

Commentor Name: Leiba

Page Number 65

Yigal

Line Number: 5

Description of Edi

Change 'Generic header' in figure 18 to 'Generic MAC header'

Reason for Edit:

Consistency with figure 17 in the previous page

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 176

Commentor Name: Stanwood

Page Number 65

Ken

Line Number: 50

Description of Edi

The REG-REQ, REG-RSP, REG-ACK, PKM-REQ, and PKM-RSP messages should all be on the secondary management CID. Additionally, provisioning of connections, whether at SS initial access or dynamic, should happen over the secondary management CID, while actual connection state changes could happen over the Basic CID.

Reason for Edit:

The concept of a basic CID and a secondary management CID separate from the user data CIDs is in the system for a reason. It was agreed that there are small, quick response messages (power adjustment, etc) that must be handled quickly but are short enough to not threaten the QoS of other connections (Basic CID). There are also higher level management messages that tend to be larger and more delay tolerant such as configuration file TFTP, SNMP, etc (secondary management CID). After meeting 7.5(?) in Boulder, there was an action to divide up management messages between these two categories, but it never happened.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Referred to Management Task Group

Item Number: 177

Commentor Name: Hunter

Page Number 66

Wayne

Line Number: 23

Description of Edi

change the word "DMC" to "DBTC"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct incorrect message name

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 178

Commentor Name: Eklund,

Page Number 66

Carl

Line Number: 27

Description of Edi

Remove the four from 245-255

Reason for Edit:

Editorial mistake

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 179

Commentor Name: Condie

Page Number 66

Mary

Line Number: 33

Description of Edi

Reason for Edit:

After "periodic interval" insert "(see Table 2)"

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 180

Commentor Name: Hunter

Page Number 67

Wayne

Line Number: 2

Description of Edi

Reason for Edit:

a descriptor label is missing after the number "1"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments missing units

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes:

Item Number: 181

Commentor Name: Condie

Page Number 67

Mary

Line Number: 2

Description of Edi

Reason for Edit:

Change "each 1 long" to "each 1 byte long"

Insert missing word

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 182

Commentor Name: Leiba

Page Number 67

Yigal

Line Number: 5

Description of Edi

Reason for Edit:

The contents of the 'MAC Management Header' in figure 19 is not explained anywhere in the document. Probably slipped somewhere along the way.

A missing detail that should be explained.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Figures have to be replaced by Tables, starting with the Management Message Type.

Item Number: 183

Commentor Name: Lindh

Page Number 68

Lars

Line Number: 29

Description of Edi

Delete the Preamble Pattern entry from Table 7

Reason for Edit:

IEEE 802.16.1 meeting #9 made a decision to adopt a CAZAC sequence for the uplink preamble pattern

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: A "Preamble Pattern Repetition" parameter should be added instead. Length 1 byte. Description will be provided (MAC_pattern_TLV.txt).

Item Number: 184

Commentor Name: Lindh

Page Number 68

Lars

Line Number: 49

Description of Edi

Insert the SS transition gaps CTG in Table 7

Reason for Edit:

CTG must be defined somewhere and the most logical place is to define it in Table 7 together with the Tx/Tx and Rx/Tx gap.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Units are PS.

Item Number: 185

Commentor Name: Condie

Page Number 69

Mary

Line Number: 1

Description of Edi

Move Table 8 to Section 2.5.4 and insert reference to it in section 2.5.4

Reason for Edit:

Table 8 is not referenced anywhere in the document and it is very confusing where it is.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 186

Commentor Name: Condie

Page Number 69

Mary

Line Number: 9

Description of Edi

Indicate that the UIUC is 4 bits in length in the table.

Reason for Edit:

In this section the UIUC is defined, but is only listed as 4 bits in length for the burst descriptor encoding. Either the length has to be mentioned for all occurrences of UIUC in this document or the length needs to be defined when the field is defined.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 187

Page Number: 69

Line Number: 19

Commentor Name: Condie

Mary

Description of Edit:

Change names of "Data Grant n" to "Data Grant Type n"

Reason for Edit:

This area is quite confusing. It appears as if there can be only 6 data grants for the uplink. In reality, these are types of data grants, not data grants. These fields should be renamed throughout the document. In fact it might be better to change the name to "Data Grant Burst Type" to match the downlink.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Replace all "Data Grant" occurrences by "Data Grant Burst Type". Table 8 and elsewhere.

Item Number: 188

Page Number: 70

Line Number:

Commentor Name: Condie

Mary

Description of Edit:

After interval" insert "(see Table 2)

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: On line 40, after the word "interval", add reference to Table 2

Item Number: 189

Page Number: 70

Line Number: 5

Commentor Name: Condie

Mary

Description of Edit:

Bit numbers need to be added to the figure. In addition, the definition of the bits after the UIUC need to be defined since the UIUC is only 4 bits.

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Add a 4 bit reserved field before the UIUC

Item Number: 190

Page Number: 70

Line Number: 32

Commentor Name: Condie

Mary

Description of Edit:

Change reference to table 13 to be reference to table 8.

Reason for Edit:

Table 8 and 13 are duplicates. Another comment has suggested removal of table 13.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 191

Commentor Name: McMullin

Page Number 70

Rod

Line Number: 42

Description of Edi

Remove the sentence, "A separate DCD message shall be transmitted for each active down-link."

Reason for Edit:

...hoping this is a cut and paste problem. The remainder of the document implicitly associates 1 downstream channel with a single instance of the .16.1 MAC. If the intention is to support a single instance of the MAC with more than one downstream channel this should be clarified. If the intention is to tell SSs of other downstream channels (MAC instances) available in a given sector, the frequency should be included in the message to assist SSs in finding the other channels. (if multiple DCDs are received, to be sure of what the current downstream channel is, the SS needs to look at the Downlink Channel ID in the UCD message and associate it with a given DCD)

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 192

Commentor Name: Condie

Page Number 71

Mary

Line Number: 1

Description of Edi

Move Table 9 to section 2.5.2.1

Reason for Edit:

To reduce confusion

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 193

Commentor Name: Lindh

Page Number 71

Lars

Line Number: 7

Description of Edi

Insert 4=TFM

Reason for Edit:

Define TFM as an additional modulation type in Table 9, Uplink Physical Layer Burst Profile.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 194

Commentor Name: Lindh

Page Number 71

Lars

Line Number: 9

Description of Edi

Delete the entries Differential Encoding, Preamble Length and Preamble Value Offset from Table 9.

Reason for Edit:

According to decisions made on IEEE 802.16.1 #9 they are not needed

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 195

Commentor Name: Stambaugh

Page Number 72

Karl

Line Number: 16

Description of Edi

delete the three parameters "BTC Row code shortening", "BTC Column code shortening", and "BTC Product code shortening bits"

Reason for Edit:

Burst profiles are relatively static definitions, but the shortening of codewords is very dynamic (on a burst-by-burst basis). The degree of shortening needed by each burst changes depending on the actual MAC message length and the allocated burst size. The amount of shortening should be calculated from the Upstream MAP.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 196

Commentor Name: Condie

Page Number 72

Mary

Line Number: 30

Description of Edi

Why does the SS need to know the guard time size? When slots are allocated by the base station, do they include the guard slots and therefore the SS must calculate the slots to be used for data and the slots to be reserved for guard? This needs to be clearly specified in the document.

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Move the parameter to Table 7. Call it STG (this is the same as the CTG that was added in a previous comment). Add a comment: "The SS must take thi

Item Number: 197

Commentor Name: Stanwood

Page Number 73

Ken

Line Number: 1

Description of Edi

After "channel ID", add "and configuration change count". On the next line, change "1 long" to "1 byte long".

Reason for Edit:

Accuracy and fix a typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 198

Page Number 73

Line Number: 42

Commentor Name: McMullin

Rod

Description of Edi

Change "UCD" to "DCD" and remove the following sentence from line 44; "This value is also referenced from the UL-MAP messages."

Reason for Edit:

The text is a cut-and-paste from the UCD description; changes tailor it for the DCD.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 199

Page Number 73

Line Number: 44

Commentor Name: Stanwood

Ken

Description of Edi

Delete the last sentence.

Reason for Edit:

This parameter is not referenced in the UL-MAP, the one from the UCD message is. This is a cut and paste error resulting from when the PCD was broken into the UCD and DCD messages.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 200

Page Number 74

Line Number: 11

Commentor Name: Leiba

Yigal

Description of Edi

Change 'dB' to 'dBm'.

Reason for Edit:

Fix typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 201

Page Number 74

Line Number: 13

Commentor Name: Stanwood

Ken

Description of Edi

Delete the Roll off factor row from the table.

Reason for Edit:

The SS must know the roll off factor a priori to be able to acquire the downlink.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 202

Page Number 74

Line Number: 28

Commentor Name: Stanwood

Ken

Description of Edi

Replace "reserved" with "TDM Burst Type 1".

Reason for Edit:

Per Jeff's comment that was accepted last meeting, but didn't make it into the table.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 203

Page Number 74

Line Number: 40

Commentor Name: Varma

Subir

Description of Edi

Add the row in Table 3 of Section 4.2 of the document 802161c-00_11 to Table 11 of the document 802161-00/01r4

Reason for Edit:

See the contents of Section 2.2 of the document 802161c-00_11

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: No specific ARQ mechanism has been agreed upon.

Item Number: 204

Page Number 75

Line Number: 2

Commentor Name: Stanwood

Ken

Description of Edi

Change "IUC" to "DIUC". Make same change in line 29.

Reason for Edit:

Typo - incomplete implementation of previously accepted comment.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 205

Page Number 75

Line Number: 5

Commentor Name: Condie

Mary

Description of Edi

Bit numbers need to be added to figure 22. In addition, the definition of the bits after the DIUC need to be defined since the DIUC is only 4 bits.

Reason for Edit:

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: 4 bits will be added before the DIUC

Item Number: 206

Page Number: 75

Line Number: 26

Commentor Name: Condie

Mary

Description of Edi

Indicate that the DIUC is 4 bits in length.

Reason for Edit:

The DIUC is used in a number of msgs but the length is only mentioned for the downlink burst descriptor.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 207

Page Number: 75

Line Number: 32

Commentor Name: Stanwood

Ken

Description of Edi

delete lines 32-44.

Reason for Edit:

These were replaced with the last two TLVs in table 12 on page 76.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 208

Page Number: 76

Line Number: 30

Commentor Name: Stambaugh

Karl

Description of Edi

delete the three parameters "BTC Row code shortening", "BTC Column code shortening", and "BTC Product code shortening bits"

Reason for Edit:

Burst profiles are relatively static definitions, but the shortening of codewords is very dynamic (on a burst-by-burst basis). The degree of shortening needed by each burst changes depending on the actual MAC message length and the allocated burst size. The amount of shortening should be calculated from the Downstream MAP.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: It has already been removed from US table

Item Number: 209

Page Number: 76

Line Number: 37

Commentor Name: Condie

Mary

Description of Edi

If the shortened option is chosen, how does the receiver figure out the size of the shortened code word? Instead should the shortened code word length be explicitly provided?

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: more explanation is required. See section 2.6.4.2

Item Number: 210

Commentor Name: Stanwood

Page Number 76

Ken

Line Number: 42

Description of Edi

Replace the 6 occurrences of "IUC" in lines 42-47 with "DIUC".

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 211

Commentor Name: Condie

Page Number 76

Mary

Line Number: 43

Description of Edi

Change "IUC low threshold" to "IUC exit threshold". Change description to
"The C/I+N value that when reached, requires the SS to switch to a more robust IUC, in 1/4 dB units. See Figure 76."

Reason for Edit:

To match the changes made to Figure 76 at the last meeting.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: It should be changed to "IUC mandatory Exit threshold". Name has to change in figure 76 for all the Exit options. Take numbers off from the bar on the

Item Number: 212

Commentor Name: Leiba

Page Number 76

Yigal

Line Number: 47

Description of Edi

Change 'more less' to 'less robust'.

Reason for Edit:

Fix typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 213

Commentor Name: Condie

Page Number 76

Mary

Line Number: 47

Description of Edi

Change "IUC high threshold" to "IUC minimum entry threshold". Change description to
"The minimum C/I+N required to use this IUC when a change to a less robust IUC is desired, in 1/4 dB units. See Figure 76."

Reason for Edit:

To match the changes made to Figure 76 at the last meeting.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 214

Commentor Name: Eklund,

Page Number: 77

Carl

Line Number: 3

Description of Edit:

The description of the DL_MAP message is incomplete.
Remove text on p.77 l.3 'relative to the PHY mode. The field'
Unify PHY sync field (see separate comment)
Move table 11 to its right place. Fix figure 26.
Add parameters

Base station ID
This is a 64 bit number identifying the BS. The BS ID may be programmable.

DL_MAP IEs
Only present for PHY types 0 and 1. The IEs indicate the boundaries of the different burst types.

Also give explanations to the DIUC e.g. Gap a gap in the DL data transmission. The BS may send fill bytes during Gaps.

Remove paragraph on page 79 starting 'The CID...'

Reason for Edit:

Make the section readable. Have a single DL_MAP message format for all PHY modes. Explain parameters.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Remove text = OK. Table 26 is fixed through Editorial comments from Ken. Add proposed definition for BS_ID. Carl will provide text. Do not remove

Item Number: 215

Commentor Name: Stanwood

Page Number: 77

Ken

Line Number: 27

Description of Edit:

Insert a field "# of map elements (= 0 for PHY type 5)" before the map elements.

Reason for Edit:

Potentially easier HW processing of map.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 216

Commentor Name: Stanwood

Page Number: 77

Ken

Line Number: 61

Description of Edit:

Insert "for PHY type = {0,1}" after "Frame Length types"

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: ?

Resolution Status: unresolved

Notes:

Item Number: 217

Page Number 78

Line Number: 14

Commentor Name: Eklund,
Carl

Description of Edi

Unify the PHY synchronization field by removing figure 25. Define a frame length code 32= no framing. Remove reference to PHY type=0,1 from figure 24. Rename the field frame number to Timestamp.

Reason for Edit:

There is no reason to have two different messages.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Frame length code becomes 8 bits in Figure 24 by removing the PHY Type. In Figure 25 remove the PHY Type and increase the Uplink Timestamp size

Item Number: 218

Page Number 78

Line Number: 40

Commentor Name: Varma
Subir

Description of Edi

Add Figure 10 in Section 4.3 of the document 802161c-00_11 to Section 2.5.3 of the document 802161-00/01r4

Reason for Edit:

See the contents of Section 2.2 of the document 802161c-00_11

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 219

Page Number 79

Line Number: 10

Commentor Name: Stanwood
Ken

Description of Edi

Show Map Elements as 20-bit values.

Reason for Edit:

Saves bandwidth. Not really any more difficult to process.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Figure has to be redrawn to show the 20-bit with no padding.

Item Number: 220

Page Number 79

Line Number: 20

Commentor Name: Varma
Subir

Description of Edi

Add the IE in Figure 11 in Section 4.3 of the document 802161c-00_11 to Figure 26 in Section 2.5.3 of the document 802161-00/01r4

Reason for Edit:

See the contents of Section 2.2 and Section 3.0 of the document 802161c-00_11

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: After discussion with the author, because other ARQ mechanisms are more efficient, the comment will be rejected.

Item Number: 221

Page Number 79

Line Number: 21

Commentor Name: Stanwood
Ken

Description of Edi

Insert final map element with "DIUC=15" and "end PS of DL frame"

Reason for Edit:

Dangerous to expect SS to guess where frame ends.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 222

Commentor Name: Stanwood

Page Number 79

Ken

Line Number: 27

Description of Edi

Replace the entire paragraph with "SSs listen to all portions of the downlink that they are capable of listening to. For full-duplex SSs this means all portions (TDM and TDMA) that have a robustness (as defined by the DIUC) greater than or equal to that negotiated with the BS. For half-duplex SSs there is the additional requirement that they shall not attempt to listen to portions of the downlink coincident with their allocated uplink transmission, if any, adjusted by their Tx time advance."

Reason for Edit:

Since CIDs were removed from the DL Map, the original description is out of date.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 223

Commentor Name: Stanwood

Page Number 80

Ken

Line Number: 28

Description of Edi

Insert space between "Request" and "Backoff"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 224

Commentor Name: Condie

Page Number 80

Mary

Line Number: 44

Description of Edi

Change "Offset = map length" to "Offset = the length of the last IE to be actually assigned bandwidth".

Reason for Edit:

Since the offset is supposed to result in an inferred length of zero and the offset is supposed to be an offset, not an absolute value, an Offset = map length is invalid.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: The offset field is referred to the Allocation Time in the MAP, and not to the previous offset. The concept has to be clarified throughout the document.

Item Number: 225

Commentor Name: Hunter

Page Number 81

Wayne

Line Number: 4

Description of Edi

change the text from "Count of theUCD which" to read "Count of the UCD which"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 226

Commentor Name: Stanwood

Page Number: 81

Ken

Line Number: 4

Description of Edi

Reason for Edit:

Insert space between "the" and "UCD"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 227

Commentor Name: Hunter

Page Number: 81

Wayne

Line Number: 18

Description of Edi

Reason for Edit:

change the text from "{0.,1,3}" to read "{0,1,3}"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 228

Commentor Name: Condie

Page Number: 81

Mary

Line Number: 63

Description of Edi

Reason for Edit:

Change "Downlink Interval Usage Code" to "Uplink Interval Usage Code"

I believe the wrong name has been used.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 229

Commentor Name: Eklund,

Page Number: 81

Carl

Line Number: 63

Description of Edi

Reason for Edit:

Change A four bit Downlink ..(DIUC) to A four-bit Uplink ..UIUC. Also
change IUC to UIUC on page 82 line 1.

Furthermore:

Change the sentence 'The offset shall be....' to "The offset shall be the
time offset expressed as a number of minislots measured from the time
instant indicated in the previous IE. The time instants indicated by the
offsets are the transmission times of the first symbol of the burst
including preamble."

Earlier wording was ambiguous.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 230

Commentor Name: Varma

Page Number: 82

Subir

Line Number: 10

Description of Edi

Replace Figure 28 in Section 2.5.4 of the document 802161-00/01r4 by Figure 12 in Section 4.4 of the document 802161c-00_11 .

Reason for Edit:

See the contents of Section 2.2 and Section 3.0 of the document 802161c-00_11

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 231

Commentor Name: Eklund,

Page Number: 82

Carl

Line Number: 24

Description of Edi

Remove paragraph starting "Three Pairs"

Reason for Edit:

There is no requirement to pair the data grants IEs. Also short and long data bursts are no longer accurate descriptions.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 232

Commentor Name: Stanwood

Page Number: 82

Ken

Line Number: 24

Description of Edi

Delete the entire paragraph

Reason for Edit:

This concept was already removed in response to previous comments, but this instance escaped the editors.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 233

Commentor Name: Condie

Page Number: 82

Mary

Line Number: 24

Description of Edi

Remove mention of Data Grants being pairs.

Reason for Edit:

Does not match Table 13 and we can't see any requirement for pairs.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 234

Commentor Name: Leiba

Page Number: 82

Yigal

Line Number: 26

Description of Edit:

Remove the sentences 'Within each pair, the short and long grant usage is distinguished by the maximum burst size. This allows short PDU transmissions for services that are tolerant of packet loss to use less FEC coding (relative to longer grants).'

Reason for Edit:

These lines seem to refer to the concept of short and long data grants, which has been replaced with the concept of interval usage codes.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 235

Commentor Name: Varma

Page Number: 83

Subir

Line Number: 1

Description of Edit:

Add the row in Table 4 of Section 4.5 of the document 802161c-00_11 to Table 13 in Section 2.5.5 of the document 802161-00/01r4

Reason for Edit:

See the contents of Section 2.2 of the document 802161c-00_11

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 236

Commentor Name: Condie

Page Number: 83

Mary

Line Number: 1

Description of Edit:

Remove table 13

Reason for Edit:

This table is a duplicate of table 8.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 237

Commentor Name: Leiba

Page Number: 83

Yigal

Line Number: 1

Description of Edit:

Table 8 and table 13 both refer to the uplink map information elements, and seem to be the same. One of them should be replaced by information on downlink map information elements.

Reason for Edit:

Duplication and missing information.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 238

Page Number: 83

Line Number: 44

Commentor Name: Hunter

Wayne

Description of Edi

in the 2nd column of the table change the entry from "11-14" to "12-14"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments consistency with the line above showing 11 is empty

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 239

Page Number: 83

Line Number: 65

Commentor Name: Hunter

Wayne

Description of Edi

when a channel is changed is it a "logical" change or a physical channel change to another frequency?

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments current wording is unclear

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 240

Page Number: 84

Line Number: 1

Commentor Name: Stanwood

Ken

Description of Edi

Change "Registration CID" to "Basic CID" and remove "(previously assigned in REG-RSP)"

Reason for Edit:

By this time an SS has a Basic CID, which shouldn't change unless it also changes downlink. Additionally, there is no Registration CID.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Change to "Basic CID" and instead of removing the phrase, change "REG-RSP" to "RNG-RSP".

Item Number: 241

Page Number: 84

Line Number: 26

Commentor Name: Eklund,

Carl

Description of Edi

Add to description of Requested burst type and ranging anomalies: Must not be included in the initial ranging request transmitted by the SS when attempting to join the network.
Add to sentence in SS MAC address: A required parameter when the CID in the message header is the initialization CID.

Reason for Edit:

Initial ranging bursts should be of well known length and as short as possible.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Text will be fixed to show a fixed-length packet for RNG-REQ, which will include requested burst type. Ranging anomalies should have an option for "N

Item Number: 242

Page Number: 84

Line Number: 30

Commentor Name: Hunter

Wayne

Description of Edi

change the text from "definitions coneyed by the DCD message, the CPE"
to read "definitions conveyed by the DCD message, the SS"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo and replace CPE with SS

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 243

Page Number: 84

Line Number: 50

Commentor Name: Hunter

Wayne

Description of Edi

insert a value for the units on the length of fields after the number 1

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct omission

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Remove the sentence starting with "The type and length...".

Item Number: 244

Page Number: 84

Line Number: 52

Commentor Name: Condie

Mary

Description of Edi

Each message description should state what CIDs are valid in the header.

Reason for Edit:

Which CID should be used when is currently unclear and needs to be
specified.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Referred to Management Task Group.

Item Number: 245

Page Number: 85

Line Number: 17

Commentor Name: Lindh

Lars

Description of Edi

Insert Bit #3 SS already at maximum modulation index
Insert Bit #4 SS already at minimum modulation index

Reason for Edit:

Include anomalies for the adjustment of the modulation index

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 246

Commentor Name: Lindh

Page Number: 86

Lars

Line Number: 18

Description of Edi

Modulation Index Adjust information
Specifies the change in modulation index that the SS is to make in order that the index shall be 0.5

Reason for Edit:

BS shall be able to adjust the modulation index for a SS

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 247

Commentor Name: Stanwood

Page Number: 86

Ken

Line Number: 45

Description of Edi

The concept of "Temporary CID" should be dropped as it is not as useful here as it was in DOCSIS. The RNG-RSP message should return the Basic CID and the secondary management CID. Low level MAC control (power control, additional ranging) should happen over the basic CID. Large, more delay tolerant actions such as TFTP of the configuration file, authentication, and privacy messages should happen on the secondary management connection.

Reason for Edit:

It's just as easy to age out 2 CIDs as it is to age out 1, so the TID isn't necessary. The concept of a basic CID and a secondary management CID separate from the user data CIDs is in the system for a reason. It was agreed that there are small, quick response messages (power adjustment, etc) that must be handled quickly but are short enough to not threaten the QoS of other connections (Basic CID). There are also higher level management messages that tend to be larger and more delay tolerant such as configuration file TFTP, SNMP, etc (secondary management CID). After meeting 7.5(?) in Boulder, there was an action to divide up management messages between these two categories, but it never happened.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Specific text will be provided by Ken.

Item Number: 248

Commentor Name: Condie

Page Number: 86

Mary

Line Number: 45

Description of Edi

What does this description of the CID mean since this is the ranging response msg? Should the description state that "This is the temporary CID that is defined by the base station. This parameter is only used during initial ranging". If so then the parameter should be renamed to Temporary CID.

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: rejected

Notes:

Item Number: 249

Commentor Name: Hunter

Page Number: 86

Wayne

Line Number: 48

Description of Edi

delete the extra "space" at the beginning of the line

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 250

Commentor Name: Condie

Page Number: 87

Mary

Line Number: 4

Description of Edit:

Add "byte" after "1"

Reason for Edit:

Add missing word.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 251

Commentor Name: Hunter

Page Number: 87

Wayne

Line Number: 5

Description of Edit:

add a units value to the length of fields value after "1"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments provide omitted units value

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: add word "byte" after "1"

Item Number: 252

Commentor Name: Lindh

Page Number: 87

Lars

Line Number: 23

Description of Edit:

Insert Modulation Index Adjust Type, Length and Value (signed 8-bit, 0.0025 units)

Reason for Edit:

Modulation Index adjustment shall be included in Table 15, the Ranging Response Message Encodings table

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 253

Commentor Name: Hunter

Page Number: 87

Wayne

Line Number: 24

Description of Edit:

the "details of transmit equalization" are not listed below as referenced by the table entry on Transmit Equalization Adjust, is this because Transmit Equalization has been removed from the document or the details have not yet been provided?

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments clarification of transmit equalization status and details

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Remove all text from page 88 and remove Transmit Equalization Adjust from table 15.

Item Number: 254

Commentor Name: Stanwood

Page Number: 87

Ken

Line Number: 25

Description of Edit:

I thought we agreed to eliminate this last meeting. Aslo applies to all of page 88.

Reason for Edit:

unimplemented comment

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 255

Commentor Name: Condie

Page Number: 87

Mary

Line Number: 36

Description of Edit:

Thresholds are now in DCD and should be removed from RNG-RSP

Reason for Edit:

consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Threshold Delta should also be removed

Item Number: 256

Commentor Name: Lindh

Page Number: 87

Lars

Line Number: 42

Description of Edit:

Insert 4=TFM

Reason for Edit:

Define TFM as a Maximum Modulation Type in Table 15

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 257

Commentor Name: Condie

Page Number: 87

Mary

Line Number: 44

Description of Edit:

Add CID to table 15 as it is currently missing.

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Add TLVs for Basic and Secondary CID (with length 2, Type TBD and Value TBD), indicating that they appear only when the Initial Ranging CID is u

Item Number: 258

Commentor Name: Leiba

Page Number 88

Yigal

Line Number: 1

Description of Edi

Remove lines 1 to 65.

Reason for Edit:

This comment has been resolved as accepted (see IEEE 802.16.1-00/09 item 92 at page 11), but is missing from the current version of the draft.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 259

Commentor Name: Eklund,

Page Number 88

Carl

Line Number: 24

Description of Edi

Utterly remove all text on page 88 including figures.

Reason for Edit:

Transmit equalizer previously killed.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 260

Commentor Name: Stanwood

Page Number 89

Ken

Line Number: 3

Description of Edi

Delete "allowing the CID shall be encoded in a type/length/value form"

Reason for Edit:

The CID is in the MAC header.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 261

Commentor Name: Condie

Page Number 89

Mary

Line Number: 4

Description of Edi

Remove "allowing the CID shall be encoded in a type/length/value form". Text under the figure "CID (From the MAC Management Header) Temporary CID for this SS" should be replaced with "The CID in the MAC Management Header is the Temporary CID for this SS." The next sentence should be part of the same paragraph.

Reason for Edit:

Current sentences don't make sense.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 262

Commentor Name: Stanwood

Page Number 89

Ken

Line Number: 42

Description of Edi

Reason for Edit:

References to where these paramaters are defined should be included.

clarity of definition

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 263

Commentor Name: Hunter

Page Number 89

Wayne

Line Number: 62

Description of Edi

Reason for Edit:

why is there a bold sentence regarding the order in which configuration settings are reflected back to the BS, is there a requirement to process them at the SS in an order different than that in which they are processed in the BS which would indicate that special care is needed in meeting this requirement? And why would a requirement of this type exist?

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments determination of exact requirements on processing of the configuration data

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Change the type from bold to normal. Replace the whole sentence by: "In order for the MIC to be successful, the SS shall forward all the vendor specific

Item Number: 264

Commentor Name: Hunter

Page Number 90

Wayne

Line Number: 13

Description of Edi

Reason for Edit:

change the wording from "supported by the SS(BTC1 based on" to read "supported by the SS (BTC) based on"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 265

Commentor Name: Lindh

Page Number 90

Lars

Line Number: 14

Description of Edi

Reason for Edit:

Insert TFM

Define TFM as a Registration parameter

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 266

Commentor Name: Condie

Page Number: 90

Mary

Line Number: 21

Description of Edi

Reason for Edit:

How does the SS IP address differ from the TFTP Server Provisioned SS Address?

Clarity.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Text has to be revised.

Item Number: 267

Commentor Name: Condie

Page Number: 91

Mary

Line Number: 6

Description of Edi

Reason for Edit:

Add bit numbers to figure 34

Clarity for field lengths.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 268

Commentor Name: Stanwood

Page Number: 92

Ken

Line Number: 6

Description of Edi

Reason for Edit:

The REG-RSP message must contain CIDs for the service flows.

There are no DSA messages sent for these flows to associate CIDs.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 269

Commentor Name: Condie

Page Number: 92

Mary

Line Number: 7

Description of Edi

Reason for Edit:

Add reference to section 2.3.5.4 for service flow error encodings.

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 270

Commentor Name: Stanwood

Page Number 92

Ken

Line Number: 22

Description of Edi

Move lines 22-34 to the RNG-RSP message.

Reason for Edit:

The concept of a basic CID and a secondary management CID separate from the user data CIDs is in the system for a reason. It was agreed that there are small, quick response messages (power adjustment, etc) that must be handled quickly but are short enough to not threaten the QoS of other connections (Basic CID). There are also higher level management messages that tend to be larger and more delay tolerant such as configuration file TFTP, SNMP, etc (secondary management CID). After meeting 7.5(?) in Boulder, there was an action to divide up management messages between these two categories, but it never happened.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Should be lines 22-29.

Item Number: 271

Commentor Name: Hunter

Page Number 92

Wayne

Line Number: 39

Description of Edi

change the text from "As defined in 2.3" to read "As defined in section 2.3"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 272

Commentor Name: Stanwood

Page Number 92

Ken

Line Number: 55

Description of Edi

Insert space between "SS" and "capability"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 273

Commentor Name: Condie

Page Number 92

Mary

Line Number: 64

Description of Edi

Delete ", including MAC version". Insert "The MAC version is encoded as in Figure xx."
Add figure number to MAC version encoding. Indicate bit numbers on figure.
Open Issue - how are MAC versions numbered?

Reason for Edit:

MAC Version is not in the Registration request as is mentioned in the sentence. MAC version encoding is unclear.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: Table needs header (as in Table 15), Version Code. The current is Version 1.

Item Number: 274

Commentor Name: Condie

Page Number 93

Mary

Line Number: 19

Description of Edi

Reason for Edit:

Add bit numbers to this figure and all figures that require it.

Clarity - need to know field sizes

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 275

Commentor Name: Hunter

Page Number 94

Wayne

Line Number: 56

Description of Edi

Reason for Edit:

change the text from "field is one octet." to read "field is one octet."

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 276

Commentor Name: Eklund,

Page Number 95

Carl

Line Number: 36

Description of Edi

Reason for Edit:

replace s by bytes

wonders of word processing

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 277

Commentor Name: Stanwood

Page Number 95

Ken

Line Number: 40

Description of Edi

Reason for Edit:

eliminate TBD

TBDs are evil

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 278

Commentor Name: Stanwood

Page Number 95

Ken

Line Number: 42

Description of Edi

Reason for Edit:

We need to fix the way we define and reference TLVs.

Most of the TLVs for the variants of this message are in section 2.16. There is one TLV in 2.3 that appears appropriate, but defines nothing and points to section 2.16.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 279

Commentor Name: Stanwood

Page Number 97

Ken

Line Number: 21

Description of Edi

Reason for Edit:

We need to fix the way we define and reference TLVs.

The set defined starting on page 43 appears insufficient.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 280

Commentor Name: Stanwood

Page Number 104

Ken

Line Number: 52

Description of Edi

Reason for Edit:

Change "QohS" to "QoS"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 281

Commentor Name: Stanwood

Page Number 105

Ken

Line Number: 19

Description of Edi

Reason for Edit:

Eliminate the 2 bytes of pad.

Also eliminate the 1 byte of pad in the DSD-RSP of figure 45, page 106.

There is no requirement for message fields to be 32-bit word aligned just to make the pictures easier to draw.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 282

Commentor Name: Eklund,

Page Number 107

Carl

Line Number: 26

Description of Edi

Reason for Edit:

Delete text to line 48. Correct field in table on page 108 to read 3-255 .

The information is contained in 2.5.20.1

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 283

Commentor Name: Stanwood

Page Number 107

Ken

Line Number: 52

Description of Edi

Reason for Edit:

Change "1" to "1 byte"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 284

Commentor Name: Hunter

Page Number: 107

Wayne

Line Number: 52

Description of Edi

provide unit of measure for the type and length fields of the MCA-REQ TVL encodings, is it byte?

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments unit designation is missing

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes: byte

Item Number: 285

Commentor Name: Leiba

Page Number: 109

Yigal

Line Number: 8

Description of Edi

Add a description of the ARQ ACK message containing the following fields, MAC Management Header
One TLV encoded information element where
Type = ARQ-ACK message
Length = N, is two times the number of ACK sequence number carried by the TLV
Value = A list of N sequence number that where successfully received

Reason for Edit:

Define a TBD item

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 286

Commentor Name: Stanwood

Page Number: 109

Ken

Line Number: 36

Description of Edi

Replace "Modulation" with "DIUC".

Delete lines 46-57.

Reason for Edit:

Per previous comments, we change DL burst types, not just modulation.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 287

Commentor Name: Hunter

Page Number: 109

Wayne

Line Number: 40

Description of Edi

replace "(DMC-REQ)" with "(DBTC-REQ)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments mislabeling of figure 48

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Description of Edi

Insert the following section (with updated subsection numbers) before section 2.6.

1 Logical Channels

A logical channel is defined as a logical communication pathway between two or more parties. The logical channels represent the interface between the protocol and the radio subsystem. There are three categories of logical channels: the traffic channels (TCHs) carrying speech or data information, the control channels (CCHs) carrying signaling messages and the synchronization channel for physical layer synchronization. The differentiation between the channel types and user destinations is determined through MAC header connection IDs (CIDs).

The following two TCHs are defined for IEEE 802.16.1 systems:

1. UTCH - Unicast Traffic Channel;
2. MTCH - Multicast Traffic Channel.

There is one SCH defined for IEEE 802.16.1 systems.

The following four CCHs are defined for IEEE 802.16.1 systems:

1. BCCH - Broadcast Control Channel;
2. UCCH - Unicast Control Channel;
3. RCCH - Ranging Request Channel;
4. BRCCH - Bandwidth Request Contention Channel.

1.1 Traffic CHannels (TCHs)**1.1.1 Unicast Traffic CHannel (UTCH)**

The UTCHs are used to carry user information between a SS and the BS in either the upstream or downstream directions. The length of each UTCH in a downstream transmission and an upstream transmission is dynamically assigned by the BS. When the PHY is operating in Mode B, a map of the assignments is included in the BCCH.

1.1.2 Multicast Traffic CHannel (MTCH)

The MTCHs are used to carry user information between the BS and multiple SSS in the downstream direction. The length of each MTCH in a downstream transmission is dynamically assigned by the BS. When the PHY is operating in Mode B, a map of the assignments is included in the BCCH at the beginning of the downstream frame. It should be noted that a broadcast traffic channel is a special case of the MTCH that is addressed to an entire MAC domain.

1.2 Synchronization Channel (SCH)

The purpose of the SCH is synchronization, and it exists only in the downlink. It is unique to the PHY mode. For example, for PHY mode B, it consists of a preamble unique to the start of the downlink frame and appears at the beginning of every downlink frame. The SCH carries no data information.

1.3 Control CHannel (CCH)

The CCH shall carry signaling messages.

1.3.1 Broadcast Control CHannel (BCCH)

The BCCH is broadcast in the first slots of each downstream frame when the PHY is operating in Mode B. The BCCH is broadcast periodically in Mode A of the PHY. The purpose of this CCH is to carry broadcast MAC messages that containing information such as physical characteristics of the current downstream frame. The following MAC messages are transmitted over the BCCH:

1. Downlink Channel Descriptor (DCD) Message;
2. Uplink Channel Descriptor (UCD) Message;

Reason for Edit:

This section was an action item to Phil and I and supposed to get incorporated last time, but didn't.

3. Downlink MAP (DL-MAP) Message;
4. Uplink MAP (UL-MAP) Message;
5. Multicast Polling Assignment Request (MCA-REQ) Message.

1.3.2 Unicast Control CHannel (UCCH)

As mentioned above, a UCCH is a CCH that has a single destination. These logical channels are used for the transport of all MAC messages on the uplink and certain MAC messages on the downlink. The location of the UCCHs on the uplink and downlink can be arbitrary. The following lists the MAC messages that may be transported on a UCCH:

1. Ranging Request (RNG-REQ) Message;
2. Ranging Response (RNG-RSP) Message;
3. Registration Request (REG-REQ) Message;
4. Registration Response (REG-RSP) Message;
5. Registration Acknowledgement (REG-ACK) Message;
6. Privacy Key Management - Request (PKM-REQ) Message;
7. Privacy Key Management - Response (PKM-RSP) Message;
8. Dynamic Service Addition - Request (DSA-REQ) Message;
9. Dynamic Service Addition - Response (DSA-RSP) Message;
10. Dynamic Service Addition - Acknowledgement (DSA-ACK) Message;
11. Dynamic Service Change - Request (DSC-REQ) Message;
12. Dynamic Service Change - Response (DSC-RSP) Message;
13. Dynamic Service Change - Acknowledgement (DSC-ACK) Message;
14. Dynamic Service Deletion - Request (DSD-REQ) Message;
15. Dynamic Service Deletion - Response (DSD-RSP) Message;
16. Multicast Polling Assignment Request (MCA-REQ) Message;
17. Bandwidth Request (BW-REQ) Message (special version of MAC PDU);
18. Downlink Burst Type Change Request (DBTC-REQ) Message;

1.3.3 Ranging Request Contention CHannel (RCCH)

Periodically, a portion of the upstream channel is allocated for registration request messages on a contention basis. The RCCH allows unregistered users a portion of the upstream frame to attempt transmission of registration requests without interfering with ongoing traffic. The following MAC messages are transmitted over the RCCH:

1. Ranging Request (RNG-REQ)

1.3.4 Bandwidth Request Contention CHannel (BRCCCH)

Periodically, a portion of the upstream burst may be allocated for bandwidth or connection requests. The BRCCCH allows registered users a portion of the upstream to attempt transmission of bandwidth requests without interfering with ongoing traffic. The following MAC messages are transmitted over the BRCCCH:

1. Bandwidth Request (BW-REQ) Message (special version of MAC PDU)

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Need not clear at the moment. Referred to Management Task Group.

Item Number: 289

Commentor Name: Condie

Page Number 110

Mary

Line Number: 41

Description of Edi

Replace the first paragraph with the following.

A burst FDD system refers to a system in which the upstream and downstream channels are located on separate frequencies but the downstream data is transmitted in bursts. This facilitates the use of different modulation types and allows the system to simultaneously support full duplex subscriber stations (ones which can transmit and receive simultaneously) and optionally half duplex subscriber stations (ones which cannot transmit and receive simultaneously). If half duplex subscriber stations are supported, this mode of operation imposes a restriction on the bandwidth controller not to allocate upstream bandwidth for a half duplex subscriber station at the same time that the subscriber station is expected to receive data on the downstream channel. Frequency separation is as defined in section 2.6.1.1.

Reason for Edit:

Current description is oriented towards half-duplex stations except for final note.
This is confusing. Also FSDD used to be separate from Burst FDD which separated half duplex and full duplex terminals. Half duplex should be optional.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 290

Commentor Name: Condie

Page Number 111

Mary

Line Number: 1

Description of Edi

Replace the 1st sentence with the following.

A full duplex subscriber station must always attempt to listen to the downstream channel. A half duplex subscriber stations must always attempt to listen to the downstream channel when it is not transmitting in the upstream channel.

Reason for Edit:

Sentence is oriented towards half-duplex only.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 291

Commentor Name: Stanwood

Page Number 112

Ken

Line Number: 23

Description of Edi

Eliminate section 2.6.2 by moving its contents to the start of section 2.6.4 on line 54.

Delete the sentence starting towards the end of line 59.

Combine the first sentence of the paragraph starting on line 62 with the one starting on line 56.

Delete the sentence starting on line 64 through the end of the paragraph (on the next page).

Reason for Edit:

Combine redundant sections, eliminate info that should be in section 2.6.3, and remove redundant info from the combined section.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 292

Commentor Name: Stanwood

Page Number: 112

Ken

Line Number: 39

Description of Edit:

Change 2.6.3 heading to "PHY Continuous FDD Mode Support".
Eliminate subheading 2.6.3.1.

Reason for Edit:

cleaner document.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 293

Commentor Name: Stanwood

Page Number: 112

Ken

Line Number: 52

Description of Edit:

Insert the sentence "A fixed modulation is used with PHY mode A." at the end of the paragraph.

Reason for Edit:

Move PHY mode A information from 2.6.4, where it doesn't belong, to 2.6.3, where it does belong.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 294

Commentor Name: Eklund,

Page Number: 113

Carl

Line Number: 2

Description of Edit:

PS should be defined elsewhere, also section is very PHY specific (including figures).
Figure 52 is wrong.
Delete from p.114 1.61- p115.15

Reason for Edit:

Removal of PHY dependency. The talk about MAC control should have been removed based on decision in last meeting.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: PS defined in the Definition section. Deleting = OK. Figure 52 will be provided by Ken

Item Number: 295

Commentor Name: Stanwood

Page Number: 113

Ken

Line Number: 4

Description of Edit:

Change "multiplexing (TDM)" to "duplexing (TDD)".

On line 6 change "structurse" to "structure".

Add "and UCD" to end of paragraph at line 12.

Reason for Edit:

typos and completeness

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 296

Commentor Name: Condie

Page Number: 113

Mary

Line Number: 6

Description of Edit:

Change "structurese" to "structures".

Reason for Edit:

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 297

Commentor Name: Stanwood

Page Number: 113

Ken

Line Number: 18

Description of Edit:

Change "modulation order QPSK" to "robustness order. For modulations this means"

Add the following sentence at the end of the modified sentence. "If more than 1 FEC is defined (via DCD messages) for a given modulation, the more robust FEC/modulation combination appears first."

Replace Figure 51 with the file TDD_DLSubframe.vsd which will be separately mailed to the editors.

Reason for Edit:

reflect adaptive bursts, not just modulation

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 298

Commentor Name: Hunter

Page Number: 113

Wayne

Line Number: 19

Description of Edit:

change "Transmission Gap" with "Transition Gap"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 299

Commentor Name: Stanwood

Page Number: 114

Ken

Line Number: 1

Description of Edit:

Replace Figure 52 with the file BurstFDD_DLSubframe.vsd which will be separately mailed to the editors.

Line 33, insert the sentence "As in the TDD case, the TDM portion of the downlink is ordered by decreasing robustness."

Reason for Edit:

Reflect adaptive bursts, not just modulation.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 300

Page Number: 114

Line Number: 37

Commentor Name: Stanwood

Ken

Description of Edit:

Change "SSs" to "burst types".

At the end of this sentence, add the sentence "the TDMA portion does not need to be ordered by robustness."

Delete the next sentence, which starts "This data is"

Reason for Edit:

Make consistent with previous decision to eliminate CIDs from DL Map, and clarify ordering of TDMA section.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 301

Page Number: 115

Line Number: 23

Commentor Name: Stanwood

Ken

Description of Edit:

Change "modulation order QAM-4, followed by QAM-16, followed by QAM-64."

with "in robustness order in the TDM portion."

Swap the order of the last two sentences of the paragraph, changing word "case" to "portion" and changing "SS specific" to "separately delineated".

Reason for Edit:

Consistency with previously implemented decisions regarding combining the two original burst FDD variants and eliminating the CID from the DL Map entries.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 302

Page Number: 115

Line Number: 25

Commentor Name: McMullin

Rod

Description of Edit:

Remove "and symbol": The PHY Control portion of the Frame Control Header contains a map stating the PS and symbol at which modulation will change.

Reason for Edit:

The DL-MAP specifies the PS at the start of each burst. It is implied, but not specified that the first symbol of the PS is where the modulation changes.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 303

Page Number: 115

Line Number: 52

Commentor Name: Stanwood

Ken

Description of Edit:

Eliminate extraneous table header.

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 304

Commentor Name: Stanwood

Page Number 115

Ken

Line Number: 64

Description of Edi

Reason for Edit:

Change "individualSSs" to " individual SSs "

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: ?

Resolution Status: unresolved

Notes:

Item Number: 305

Commentor Name: Hunter

Page Number 115

Wayne

Line Number: 64

Description of Edi

Reason for Edit:

change the wording "individualSSs" to "individual SSs"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 306

Commentor Name: Lindh

Page Number 116

Lars

Line Number: 42

Description of Edi

Reason for Edit:

Insert or TFM-modulation

TFM shall also be possible to use in registration and contention slots

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 307

Commentor Name: Hunter

Page Number 116

Wayne

Line Number: 48

Description of Edi

Reason for Edit:

change the wording of "in theUCD message" to read "in the UCD message"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 308

Commentor Name: Stanwood

Page Number 116

Ken

Line Number: 48

Description of Edi

Change "theUCD" to "the UCD".

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 309

Commentor Name: Stanwood

Page Number 116

Ken

Line Number: 55

Description of Edi

Change "defined" to "defines"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 310

Commentor Name: Hunter

Page Number 117

Wayne

Line Number: 34

Description of Edi

change the word "prevoius" to "previous"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 311

Commentor Name: Hunter

Page Number 117

Wayne

Line Number: 36

Description of Edi

chnge the word "lenfth" to "length"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 312

Commentor Name: Eklund,

Page Number 117

Carl

Line Number: 38

Description of Edi

Remove paragraph starting Each...

Also change Physical to Uplink on line 54

Reason for Edit:

Incorrect fluff. Redundant.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 313

Commentor Name: Condie

Page Number 117

Mary

Line Number: 43

Description of Edi

At the end of the sentence insert "with a offset equal to the length of the previous IE."

Reason for Edit:

The offset definition is very important to understand the length and therefore must be clearly defined.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 314

Commentor Name: Stanwood

Page Number 117

Ken

Line Number: 52

Description of Edi

Delete the entire paragraph.

Reason for Edit:

The paragraph is an incorrect description conflicting with the correct description given in the following subsections.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 315

Commentor Name: Hunter

Page Number 117

Wayne

Line Number: 55

Description of Edi

change the word "synchronous" to "synchronous"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 316

Commentor Name: Eklund,

Page Number 119

Carl

Line Number:

Description of Edi

Explanation of empty IE is missing.

Empty IE

The Empty IE specifies pauses in uplink transmissions. An SS must not transmit during an empty IE.

Reason for Edit:

Consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Text will be provided

Item Number: 317

Commentor Name: Stanwood

Page Number 121

Ken

Line Number: 57

Description of Edi

Insert space between period and open paranthesis.

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 318

Commentor Name: Stanwood

Page Number 122

Ken

Line Number: 3

Description of Edi

Change "US-MAP" to "UL-MAP" in figure 60

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 319

Commentor Name: Leiba

Page Number 122

Yigal

Line Number: 26

Description of Edi

The sentence 'The BS may allow collisions on either requests or maintenance PDUs.' does not specify clearly enough which PDUs may be transmitted in contention slots. Replace with 'The BS may allow collisions on the following PDUs: RNG-REQ, REG-REQ, PKM-REQ, DSA-REQ, DSC-REQ, DSD-REQ, DCC-REQ, MCA-REQ, DMC-REQ, Bandwidth request header.'

Reason for Edit:

Make the draft more clear.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: correct text will be provided

Item Number: 320

Commentor Name: Stanwood

Page Number: 122

Ken

Line Number: 41

Description of Edit:

Reason for Edit:

Fix weird font in "UL-MAP"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 321

Commentor Name: Eklund,

Page Number: 123

Carl

Line Number: 25

Description of Edit:

Reason for Edit:

Remove the word typically.
Also reword paragraph to suit better in a standards document.

We need clear definition of the number of transmit opportunities in an interval.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 322

Commentor Name: Condie

Page Number: 123

Mary

Line Number: 32

Description of Edit:

Reason for Edit:

Change "theCD" to "theUCD"

Correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 323

Commentor Name: Marks

Page Number: 123

Roger

Line Number: 54

Description of Edit:

Reason for Edit:

Change "MSAP" to "SAP".

"SAP" is more commonly used in document and is already defined.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 324

Commentor Name: Stanwood

Page Number 123

Ken

Line Number: 54

Description of Edi

Change "a traffic" to "traffic".
Change "conecion" to "connection"

Reason for Edit:

typos

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 325

Commentor Name: Stanwood

Page Number 125

Ken

Line Number: 1

Description of Edi

Delete the sentence that starts "Piggy-back" and add a sentence at the end of the second paragraph that states "The poll-me bit may be used to request to be polled for a different, non-USG, connection."

Reason for Edit:

Remove non USG concepts from USG section and make certain all USG concepts are covered.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 326

Commentor Name: Condie

Page Number 125

Mary

Line Number: 1

Description of Edi

Change "Piggy-back requests" sentence to the following.
"In the GPT mode, additional bandwidth for a different connection may be requested using the Bandwidth Request Header."

Reason for Edit:

Clarity - piggy backs don't use bandwidth request.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 327

Commentor Name: Stanwood

Page Number 125

Ken

Line Number: 23

Description of Edi

Change "Bandwidth" to "Grant"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 328

Commentor Name: Stanwood

Page Number: 125

Ken

Line Number: 61

Description of Edi

Reason for Edit:

delete the word "a" at the end of the line.

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 329

Commentor Name: Condie

Page Number: 125

Mary

Line Number: 61

Description of Edi

Reason for Edit:

Change "request a" to "request"

correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 330

Commentor Name: Stanwood

Page Number: 127

Ken

Line Number: 23

Description of Edi

Reason for Edit:

Insert space between sentences.

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 331

Commentor Name: Stanwood

Page Number: 127

Ken

Line Number: 52

Description of Edi

Reason for Edit:

Insert "at" before "Registration"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 332

Commentor Name: Hunter

Page Number: 127

Wayne

Line Number: 63

Description of Edi

Reason for Edit:

add a "period" after the last sentence on the page after the words "in Figure 61"

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 333

Commentor Name: Condie

Page Number: 128

Mary

Line Number: 39

Description of Edit:

The word "untransmitted" in the bottom right box of the figure is not properly visible.

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 334

Commentor Name: Stanwood

Page Number: 128

Ken

Line Number: 55

Description of Edit:

Change "certain connection" to "the SS".
On the next line, change "shorter or null opportunity to transmit" to "shorter transmit opportunity than expected"
On line 57, change "any case" to "all cases".

Reason for Edit:

clarity, correctness

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 335

Commentor Name: Hunter

Page Number: 128

Wayne

Line Number: 60

Description of Edit:

add a "period" at the end of the last sentence on the page, after the words "in Figure 62"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 336

Commentor Name: Condie

Page Number: 129

Mary

Line Number: 42

Description of Edit:

In bottom right box in Figure 62, change "SDU" to "1st SDU"

Reason for Edit:

For clarity since two SDUs have been mentioned.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 337

Commentor Name: Lindh

Page Number: 130

Lars

Line Number: 13

Description of Edit:

Insert or TFM

Reason for Edit:

TFM can also be used when responding to polling

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Comment 555 rejected

Item Number: 338

Commentor Name: Stanwood

Page Number: 131

Ken

Line Number: 1

Description of Edit:

Replace Figure 63 with UnicastPolling.vsd which is separately mailed to editors.

Reason for Edit:

Figure contains CPE instead of SS. Figure only shows adaptive modulation, not bursts.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 339

Commentor Name: Stanwood

Page Number: 132

Ken

Line Number: 4

Description of Edit:

"CID" on lines 4, 8 (twice), and 39 appears to always have an extra preceding space.

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 340

Commentor Name: Stanwood

Page Number: 133

Ken

Line Number: 1

Description of Edit:

Replace Figure 63 with Multicast_Polling.vsd which is separately mailed to editors.

Reason for Edit:

Figure contains CPE instead of SS. Figure only shows adaptive modulation, not bursts.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 341

Commentor Name: Condie

Page Number: 134

Mary

Line Number: 4

Description of Edit:

Reason for Edit:

Change "need polled" to "need to be polled"

Correct typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 342

Commentor Name: Stanwood

Page Number: 135

Ken

Line Number: 2

Description of Edit:

Reason for Edit:

Change "CD" to "UCD"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 343

Commentor Name: Stanwood

Page Number: 136

Ken

Line Number: 34

Description of Edit:

Reason for Edit:

Should add a "basic capability negotiation" step between ranging and IP connectivity.

We have SO MANY flexible PHY features in this system as well as explicitly optional features that it is unlikely that all SSs will implement all options. The BS needs to know an individual SSs capabilities (Q64, ARQ, turbo codes, etc.)

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Deferred to Management Task Group

Item Number: 344

Commentor Name: McMullin

Page Number: 136

Rod

Line Number: 58

Description of Edit:

Reason for Edit:

Remove Section 2.11.1.

Duplicate text in Section 2.11.2.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 345

Commentor Name: Hunter

Page Number: 137

Wayne

Line Number: 8

Description of Edi

A reference is made to the TBD PHY specification paragraph on acquisition that does not exist yet. Recommend that a section is created in the PHY section that provides simple requirements on frequency and/or phase uncertainty as the definition of signal acquisition, given that the receiver estimates of these quantities are within some suggested bounds.

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
There is a need for a simple, non-implementation specific, definition on signal acquisition.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Text will be provided by Glen

Item Number: 346

Commentor Name: Stanwood

Page Number: 137

Ken

Line Number: 8

Description of Edi

resolve TBD

Reason for Edit:

TBD

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 347

Commentor Name: Stanwood

Page Number: 137

Ken

Line Number: 12

Description of Edi

Should either make this generic to all PHYs or add sections for how it's done with each PHY.

Reason for Edit:

Current text is only correct for PHY mode A.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 348

Commentor Name: Leiba

Page Number: 137

Yigal

Line Number: 18

Description of Edi

Remove lines (d) and (e) from the SS synchronization list. Insert new items
d) Synchronization of TC sub-layer (if it exists)
e) Recognition of the DL-MAP message

Reason for Edit:

MPEG packetization no longer exists, and PCD MAC messages are not defined in this draft. The two suggested items are their replacement.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Deferred to TG3 discussion

Item Number: 349

Page Number: 137

Line Number: 18

Commentor Name: McMullin

Rod

Description of Edi

Remove, "d) synchronization of the MPEG packetization"

Reason for Edit:

Item d) was removed during the comment resolution process at Session 9.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 350

Page Number: 137

Line Number: 23

Commentor Name: Hunter

Wayne

Description of Edi

This would refer to the section suggesting specifications on the estimated frequency and phase of the incoming signal referenced in the comment just prior to this one.

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
There is a need to define acquisition success which would then enable data decoding to proceed

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 351

Page Number: 137

Line Number: 25

Commentor Name: McMullin

Rod

Description of Edi

Remove, "On detecting the well-known BWA PID, along with a payload unit start indicator per [H.222], it delivers the MAC frame to the MAC sublayer."

Reason for Edit:

PID and H.222 are not de-referenced anywhere in the document.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Text will be provided

Item Number: 352

Page Number: 137

Line Number: 25

Commentor Name: Mollenauer

Jim

Description of Edi

Delete sentence starting with "On detecting..."

Reason for Edit:

There is no BWA PID; this is a DOCSIS holdover. Also, we don't use H.222.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 353

Page Number: 137

Line Number: 25

Commentor Name: Condie

Mary

Description of Edi

BWA PID does not appear anywhere else in this document nor does H.222.
What does
this sentence mean?

Reason for Edit:

Reduce confusion

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 354

Page Number: 137

Line Number: 31

Commentor Name: Condie

Mary

Description of Edi

Replace this section with the following.

The MAC sublayer shall search for the DL-MAP and DCD MAC messages. The CPE achieves MAC synchronization for a channel once it has received at least one DL-MAP message and one DCD message.

Add a new section after 2.11.4 called "Loss of Synchronization" with the following contents.

The CPE MAC remains in sychronization as long as it continues to successfully receive the DL-MAP, UL-MAP, DCD, and UCD messages. If at least one of these messages is not received within the time intervals specified in Table 2, the CPE shall not use the upstream and shall try to re-establish synchronization.

Reason for Edit:

This section is confusing. The first change is because the section is supposed to be for obtaining downlink parameters.

The proposed change may not be completely correct. Section 2.2 only specifies Lost Sync wrt the DL-MAP msg (e.g. it doesn't take into account other messages such as the UCD. The Time between UCDs is set to 2 seconds however is only 1 allowed to be lost? Need clarification!

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Correct text will be provided, taking the next comment into account

Item Number: 355

Commentor Name: McMullin

Page Number 137

Rod

Line Number: 35

Description of Edi

Changes:
1. Add row to Table 2 (page 32)
| SS | Lost Sync Interval | max time expired since the last received UCD
OR DCD message | | 5 * the greater of the max UCD Interval or max DCD
interval |
2. Add row to Table 2:
| BS | DCD Interval | time between transmission of DCD messages | |
| 2 sec |
3. Change 'or' to 'and': "If the Lost SYNC Interval (refer to
Section 2.2) has elapsed without a valid UCD and DCD message, a
CPE shall not use the upstream and shall try to re-establish
synchronization again."

Reason for Edit:

Section 2.2 does not define a "Lost Sync Interval" or a DCD interval.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 356

Commentor Name: Stanwood

Page Number 137

Ken

Line Number: 40

Description of Edi

Change "Physical" to "Uplink"

Reason for Edit:

reflect correct message names.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 357

Commentor Name: Condie

Page Number 137

Mary

Line Number: 41

Description of Edi

Change "Physical" to "Uplink"

Reason for Edit:

Match names.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 358

Commentor Name: Hunter

Page Number 137

Wayne

Line Number: 62

Description of Edi

change the wording "fromUCD" to read "from UCD"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 359

Commentor Name: Hunter

Page Number: 137

Wayne

Line Number: 62

Description of Edi

change the wording "fromUCD" to read "from UCD"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 360

Commentor Name: Stanwood

Page Number: 137

Ken

Line Number: 62

Description of Edi

change "fromUCD" to "from UCD"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 361

Commentor Name: Stanwood

Page Number: 137

Ken

Line Number: 62

Description of Edi

Change both occurrences of "channel ID" with "upstream channel ID"

Reason for Edit:

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 362

Commentor Name: Condie

Page Number: 137

Mary

Line Number: 65

Description of Edi

Insert. "If initial ranging is successful then the SS attempts to
establish IP
connectivity."

Reason for Edit:

For clarity. Also Station Mtce in SDL is changed to Establish IP
connectivity.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 363

Commentor Name: Condie

Page Number 139

Mary

Line Number: 12

Description of Edi

Change Figure 67 as follows. Visio version has been emailed to the editor.
All instances of the word channel should be replaced with "uplink channel" for clarity.
Change scanning (line 12) to "Scanning for downlink channel"
Line 17 Change to "Wait for UCD for selected channel"
Add box on line 21 with decision box containing "Uplink channel suitable?"
Add no line to box going to the right to meet the other no line
Line 37, change to "Wait for UL-MAP which contains initial ranging interval for selected uplink channel"
Line 41, change to UL-MAP for selected uplink channel
Line 58, change to "Establish IP Connectivity".

Reason for Edit:

Correct discrepancies in SDL and make less confusing.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Figure will be provided by Mary

Item Number: 364

Commentor Name: Condie

Page Number 139

Mary

Line Number: 29

Description of Edi

What does the "Bandwidth for CIDx" decision box in the centre of the figure mean in the context of grant per terminal? It appears as if this decision box is redundant

Reason for Edit:

To remove confusion.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Comment is for Figure 62, page 129. Add a footnote explaining that the scheduler has to decide which connections will get the bandwidth assigned.

Item Number: 365

Commentor Name: McMullin

Page Number 140

Rod

Line Number: 3

Description of Edi

1. In Section 2.2 (page 32, line 7) change 'Sync Interval' to 'DL-MAP Interval'
and change 'SYNC messages' to 'DL-MAP messages'.
2. In Section 2.2 (page 32, line 24) change 'Sync message' to 'DL-MAP message'.

Reason for Edit:

Section 2.11.5 states a requirement for periodic transmission of DL-MAPs but Section 2.2 does not provide a DL-MAP Interval;... however, it looks like the 'Sync Message' referenced in Section 2 satisfies the intent. The 'Sync Interval' and 'Sync Message' specified in Section 2.2 are not referenced elsewhere in the document.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 366

Commentor Name: Condie

Page Number 140

Mary

Line Number: 8

Description of Edi

Reason for Edit:

All message flows should be labelled as Figures, not Tables.

Consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 367

Commentor Name: Stanwood

Page Number 141

Ken

Line Number: 26

Description of Edi

Reason for Edit:

Change "s" to "SS's"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 368

Commentor Name: Stanwood

Page Number 141

Ken

Line Number: 33

Description of Edi

Reason for Edit:

Change "Physical" to "Uplink"

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 369

Commentor Name: Condie

Page Number 141

Mary

Line Number: 33

Description of Edi

Reason for Edit:

Change "Physical" to "Uplink"

name changed

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 370

Commentor Name: Stanwood

Page Number 142

Ken

Line Number: 11

Description of Edi

Reason for Edit:

Change "successfully ranged," to "successfully ranged (Ranging request is within tolerance of the BS),"

Somehow the idea ended up out of context on the next page.

Remove first sentence on page 143.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 371

Page Number: 142

Line Number: 23

Commentor Name: McMullin

Rod

Description of Edi

Remove the word, "multicast".

Reason for Edit:

...not sure it makes sense to multicast an Initial Maintenance opportunity as the SS would need prior knowledge to associate itself with the CID. The only multicast service currently defined offers contention slots to SSs for bandwidth requests. (also applies to line 48)

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Remove "multicast" from lines 23 and 48. On line 30 change "Temporary" to "Basic and Secondary", and on 33 and 38 change "Temporary" to "Basic".

Item Number: 372

Page Number: 143

Line Number: 1

Commentor Name: Condie

Mary

Description of Edi

This is a stray sentence. What does it mean?

Reason for Edit:

Reduce confusion.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Lost footnote of Figure 68 on page 145.

Item Number: 373

Page Number: 144

Line Number: 1

Commentor Name: Stanwood

Ken

Description of Edi

Combine the figures on page 144 and 145 and correct them.

Reason for Edit:

They have situations where power is adjusted more often than it should be and where fewer retries happen than should. They also have redundant sections.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Delete the "Adjust Local Power" box on line 38. Mary will provide the corrected figures.

Item Number: 374

Page Number: 144

Line Number: 1

Commentor Name: Leiba

Yigal

Description of Edi

Combine the figure in this page and in the next page to one figure.

Reason for Edit:

It is not clear how the two existing figures connect to each other

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 375

Commentor Name: McMullin

Page Number: 145

Rod

Line Number: 3

Description of Edi

Change "Broadcast" to "Unicast".

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 376

Commentor Name: Stanwood

Page Number: 146

Ken

Line Number: 1

Description of Edi

This drawing needs redrawn in a maintainable format rather than patched in Framemaker. This applies to all patched drawings.

Reason for Edit:

It looks bad where patched. Note 1 and 2 appear out of context and unlabeled on the next page.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 377

Commentor Name: Condie

Page Number: 146

Mary

Line Number: 40

Description of Edi

Note 1 is missing. Is it supposed to be the "Means ranging is within the tolerable limits of the BS" which is on the next page?

Reason for Edit:

Clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-duplicate

Notes:

Item Number: 378

Commentor Name: McMullin

Page Number: 147

Rod

Line Number: 1

Description of Edi

Lines 1 through 8 are Notes 1 and 2 for the previous diagram. Identify as such.

Reason for Edit:

Clarify text.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 379

Commentor Name: Condie

Page Number: 147

Mary

Line Number: 2

Description of Edi

Reason for Edit:

To what does this paragraph refer?

clarity

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-duplicate

Notes:

Item Number: 380

Commentor Name: Stanwood

Page Number: 147

Ken

Line Number: 12

Description of Edi

Reason for Edit:

replace "an" with "a".

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 381

Commentor Name: Stanwood

Page Number: 147

Ken

Line Number: 36

Description of Edi

Reason for Edit:

This should happen on the secondary management CID. So should all the actions through section 2.11.9.2.

This is the type of management task that CID is intended for.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Referred to Management Task Group.

Item Number: 382

Commentor Name: McMullin

Page Number: 147

Rod

Line Number: 36

Description of Edit:

Add new paragraph. "Alternatively, the IP Address and Subnet Mask may be locally configured at the SS."

Reason for Edit:

...sounds like DHCP is the only way to get an IP address, if this is not so, ignore this comment. In time, routers will incorporate the 802.16 MAC/PHY as just another port. DHCP is a host configuration protocol; it is not recommended for configuring routers. For such devices it is desirable to manually configure the address and mask. In order to use a permanent, 'designed' IP address, the DHCP server will need to be manually configured with the MAC addr and IP addr of the SS...may as well provide the option to skip the DHCP step and manually configure the device. DHCP does allow for devices to have their IP addresses externally configured but to still use DHCP to obtain additional parameters, via DHCPINFORM. However, it will remain undesirable for a router to rely on a remote device to boot.

The use of DHCP_DISCOVER presents an implementation constraint: IP broadcasts are constrained to a single network, therefore, the BS must accept and process DHCP_DISCOVER packets as a server or relay agent. Examining the IP convergence layer at the BS may shed some additional light here.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Referred to Management Task Group. It needs to be clarified that this DHCP process applies only to the SS IP address, and that it is not mandatory.

Item Number: 383

Commentor Name: Stanwood

Page Number: 148

Ken

Line Number: 8

Description of Edit:

Add RFC-868 to section 1.1.

Reason for Edit:

That's where normative references are listed.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 384

Commentor Name: Stanwood

Page Number: 148

Ken

Line Number: 45

Description of Edit:

Change referenced section from 2.4 to 2.4.2.

Reason for Edit:

More explicit reference to TLVs.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 385

Commentor Name: Stanwood

Page Number: 153

Ken

Line Number: 43

Description of Edit:

The Basic CID and secondary management CID need to be returned in the Ranging Response rather than a Temporary CID. Additionally, we actually have no current mechanism for getting the SS CIDs for the connections established in the registration request/response.

Reason for Edit:

The whole concept of TID and not needing CIDs for provisioned connections is a hold over from DOCSIS where it was OK for all management and all best effort user data to share 1 Ethernet flow devoid of any real QoS. The Basic CID and secondary management CID are intended to allow the entry into the system of additional SSs without threatening the QoS of previously established connections.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Text will be provided

Item Number: 386

Commentor Name: Condie

Page Number: 153

Mary

Line Number: 45

Description of Edit:

The use of CIDs after initialization is not completely clear in the document. This section is fairly clear on the use of CIDs during initialization, but I can't find anywhere in the document where it clearly defines how the basic CID and secondary CIDs are assigned, although they are provided to the SS in the REG-RSP msg (page 92)

Do the basic and secondary service flows need to be defined in the config file? page 151, line 1 implies that the config file need not contain any service flows. Page 166 line 26 implies that at least one service flow needs to be included in the config file. Or do the basic and secondary service flows use default values?

I have searched for the word "secondary" in the document and find no occurrences that explain how the secondary CID is used except for the high level statement on page 30 line 58. (Note another comment specifies that the CID used in the MAC header needs to be specified for each msg type).

Reason for Edit:

To reduce confusion

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Referred to Management Task Group

Item Number: 387

Commentor Name: Stanwood

Page Number: 154

Ken

Line Number: 16

Description of Edit:

Insert space between sentences.

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 388

Commentor Name: Stanwood

Page Number: 155

Ken

Line Number: 1

Description of Edit:

re-draw the Figure

Reason for Edit:

ugly, patched figure.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 389

Commentor Name: Hunter

Page Number: 155

Wayne

Line Number: 5

Description of Edit:

change the formatting or wording in the box at the top to reveal the complete spelling of the word "to"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct formatting error

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 390

Commentor Name: Hunter

Page Number: 155

Wayne

Line Number: 30

Description of Edit:

change the wording in the box in the figure on the right side from "RemoveSS" to "Remove SS"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 391

Commentor Name: Hunter

Page Number: 155

Wayne

Line Number: 52

Description of Edit:

Note 2 appears to have wording that overwrites some of the labels that might be a portion of the figure

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments reformat text and check readability, current text is not completely readable

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted

Notes:

Item Number: 392

Commentor Name: Condie

Page Number 156

Mary

Line Number: 58

Description of Edi

The thresholds are now in the DCD message so all references to thresholds in the RNG-RSP should be replaced with DCD.

Reason for Edit:

Consistency

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Text will be corrected and the next two sentences using the threshold delta should be deleted, leaving the reference to Figure 76.

Item Number: 393

Commentor Name: Wibowo

Page Number 158

Eko

Line Number: 14

Description of Edi

Should read "Utilization of MAC scheduling and QoS traffic parameters for upstream Service Flows".

Reason for Edit:

Consistency with the following sentence.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 394

Commentor Name: Wibowo

Page Number 158

Eko

Line Number: 35

Description of Edi

Should read "upstream active Service Flows also have a 16-bit Connection Identifier (CID)".

Reason for Edit:

Table 29 indicates that CID is not used for downstream service flows.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Table 29: The first "N/A" should be changed to "CID", and the second one to "Not Yet".

Item Number: 395

Commentor Name: Stanwood

Page Number 158

Ken

Line Number: 37

Description of Edi

delete entire paragraph.

Reason for Edit:

Out of date DOCSIS concept.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 396

Page Number: 159

Line Number: 2

Commentor Name: Wibowo

Eko

Description of Edi

Should read "mapping to a SFID only exists when the connection has active service flow(s)".

Reason for Edit:

In page 158, line 35, it reads "active Service Flows also have a 16-bit Connection Identifier (CID)".

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Concept has to be clarified.

Item Number: 397

Page Number: 159

Line Number: 26

Commentor Name: Stanwood

Ken

Description of Edi

Change 14 to 77

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 398

Page Number: 159

Line Number: 53

Commentor Name: Stanwood

Ken

Description of Edi

We need to be able to change the provisioning of a CPE after the CPE is operational. We should add a standardized connection mib.

Reason for Edit:

The customers behind CPEs may add services, delete services, and modify services at the contract level. While services may be added in the truly dynamic case (probably more applicable to TG3 than TG1), these contractual changes reflect a change in provisioning that would result in the updating of a CPEs configuration file and its Provisioned QoS Parameter Sets.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Referred to the Management Task Group

Item Number: 399

Page Number: 161

Line Number: 40

Commentor Name: Stanwood

Ken

Description of Edi

Insert "or from a connection mib" after "configuration file"

Reason for Edit:

The customers behind CPEs may add services, delete services, and modify services at the contract level. While services may be added in the truly dynamic case (probably more applicable to TG3 than TG1), these contractual changes reflect a change in provisioning that would result in the updating of a CPEs configuration file and its Provisioned QoS Parameter Sets.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Referred to the Management Task Group

Item Number: 400

Commentor Name: Wibowo

Page Number: 161

Eko

Line Number: 57

Description of Edit:

Should read "Active Service Flows are mapped to a 16-bit Connection Identifier (CID)".

Reason for Edit:

In page 158, line 35, it reads "active Service Flows also have a 16-bit Connection Identifier (CID)".

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 401

Commentor Name: Marks

Page Number: 161

Roger

Line Number: 60

Description of Edit:

Change "MSAP" to "SAP" in both line 60 and line 61.

Reason for Edit:

"SAP" is more commonly used in document and is already defined.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 402

Commentor Name: Marks

Page Number: 161

Roger

Line Number: 60

Description of Edit:

Change "an" to "a".

Reason for Edit:

Grammar.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 403

Commentor Name: Wibowo

Page Number: 161

Eko

Line Number: 60

Description of Edit:

Should read "Outgoing user data is submitted to the MSAP by a convergence sub-layer process".

Reason for Edit:

Language.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 404

Commentor Name: Wibowo

Page Number 161

Eko

Line Number: 61

Description of Edi

Should read "The information delivered to the MSAP includes the Connection Identifier identifying".

Reason for Edit:

Typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 405

Commentor Name: Wibowo

Page Number 161

Eko

Line Number: 62

Description of Edi

Should read "The Service Flow for the connection is mapped to the Connection Identifier (CID)".

Reason for Edit:

Language.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 406

Commentor Name: Wibowo

Page Number 162

Eko

Line Number: 20

Description of Edi

Identify the meaning of "N" and "0,1".

Reason for Edit:

Symbols not defined.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Figure has to be fixed. Double appearance of SFID and number of possible links missing.

Item Number: 407

Commentor Name: Condie

Page Number 164

Mary

Line Number: 32

Description of Edi

after "QoS Parameter Sets" insert "to the BS in the DSC-REQ message"

Same change to the 1st sentence of the next paragraph.

Reason for Edit:

Clarity.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 408

Commentor Name: Hunter

Page Number: 178

Wayne

Line Number: 30

Description of Edi

change the wording of the figure label from "Dynamic Deletion (DSD)" to DSD

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments consistency with previous figure's labels

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 409

Commentor Name: Stanwood

Page Number: 200

Ken

Line Number: 39

Description of Edi

Change "Basic Service" to "Basic or Secondary Management Service".

Reason for Edit:

A CPE must have both to be managed.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 410

Commentor Name: Stanwood

Page Number: 205

Ken

Line Number: 58

Description of Edi

Change "connectionss" to "connections"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 411

Commentor Name: Stanwood

Page Number: 206

Ken

Line Number: 26

Description of Edi

Change "date" to "data"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 412

Commentor Name: Hameed

Page Number: 206

Farooq

Line Number: 26

Description of Edi

Instead of "single packet date" should be "single packet data".

Reason for Edit:

Typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 413

Commentor Name: Marin

Page Number: 206

Scott

Line Number: 43

Description of Edi

At the beginning of the sentence, change "SS use" to "A SS uses"

Reason for Edit:

Grammar improvement

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 414

Commentor Name: Stanwood

Page Number: 207

Ken

Line Number: 10

Description of Edi

Change "SS" to "the SS".

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 415

Commentor Name: Marin

Page Number: 207

Scott

Line Number: 11

Description of Edi

Change "Since the BS authenticates SS" to "Since the BS authenticates a SS"

Reason for Edit:

grammar improvement.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 416

Page Number: 207

Line Number: 29

Commentor Name: Marin

Scott

Description of Edit:

Reason for Edit:

The use of the term SA is confusing (grammatically) in several places on page 207. On page 207, line 29, SA is defined as a set of information, which is OK, but later on page 207, line 37 SA is personified (e.g. Security Association's) which implies that a SA is a thing that owns something. On page 207, line 45, the term SAID is used but not defined on page 207 or in the definitions section either. On page 207, line 62, SA is used possessively again (e.g. SA's).

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Definition of SA will be provided

Item Number: 417

Page Number: 207

Line Number: 53

Commentor Name: Stanwood

Ken

Description of Edit:

Change "Basic" to "secondary management"

Reason for Edit:

The traffic on the Basic CID is never encrypted since it is likely to be redundant and CBC doesn't handle that with great security. If, however, the Basic CID is just being used as a shortened SS ID for identifying Primary SAs then the text could stand as long as this is explained more clearly.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 418

Page Number: 207

Line Number: 65

Commentor Name: Marin

Scott

Description of Edit:

Reason for Edit:

On page 207, Line 65, it says that an SS must request new keying material from the BS before the set of keying material expires. What if the SS is off-the-air and the keying material expires? Add a sentence that explains how an SS resynchronizes after keying material expires.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Add sentence: "Every time the SS re-registers, it will re-acquire keying material."

Item Number: 419

Page Number: 208

Line Number: 26

Commentor Name: Stanwood

Ken

Description of Edit:

Resolve reference

Reason for Edit:

TBD

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 420

Page Number: 208

Line Number: 39

Commentor Name: Hameed

Farooq

Description of Edi

Remove 'the SS's RSA public key'.

Reason for Edit:

Clarity. Text implies that the key is duplicated in the message, since it is already part of the X.509 certificate. This is inconsistent with the description of the "Authorization Request" message, section 2.16.2.1.1 on page 230, line 60.

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Concept will be clarified

Item Number: 421

Page Number: 209

Line Number: 62

Commentor Name: Stanwood

Ken

Description of Edi

Delete the phrase ", along with the SAID,"

Reason for Edit:

The SAID is not in the MAC header, and must be derived from the CID.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 422

Page Number: 210

Line Number: 3

Commentor Name: Stanwood

Ken

Description of Edi

Change the EKS field in the MAC header to be only 2 bits.

Reason for Edit:

Since only 2 active values are ever kept, a field with 4 possible values is sufficient for detecting sequencing errors.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Change the EKS length leaving the other 2 bits reserved. Page and line number changes will be provided by Ken.

Item Number: 423

Page Number: 211

Line Number: 26

Commentor Name: Hameed

Farooq

Description of Edit:

Change "While the Authorization Reply may identify...." to "must identify" or "shall identify".

Reason for Edit:

Clarity. Current text implies that the BS may not identify static SA's whose SAID matched the requesting SS's basic CID. Most likely, the intent here was to say that the message will identify all static SA' whose SAID matches the requesting SS's basic CID and this number may be 0.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 424

Page Number: 213

Line Number: 40

Commentor Name: Stanwood

Ken

Description of Edit:

Change "and 40-bit DES are" to "is"

Reason for Edit:

everywhere else in the document, only 56-bit DES is allowed.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 425

Page Number: 216

Line Number: 1

Commentor Name: Marin

Scott

Description of Edit:

Reason for Edit:

The phrase "about to time out" seems incorrect. The wording implies that a future state is being anticipated, which is an interesting way to design a finite state machine. If the wording is correct then how many seconds are involved in the "about to time out" state?

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Add a reference to Table 64 after the phrase "about to time out".

Item Number: 426

Page Number: 217

Line Number: 53

Commentor Name: Hameed

Farooq

Description of Edi

Define some means for the SS to identify permanent errors

Reason for Edit:

The SS must be able to identify which errors are of a permanent nature. Currently the spec. is unclear on how the list of permanent errors configured on the BS is transferred to the SS. Some possible ways are

- 1) Include an explicit field in the Authorization Reject Message.
- 2) Provide the list in tftp config file.

Of the above the option (1) is the most robust. It correctly deals with the situation where the "permanent error list" on the BS changes dynamically, which option (2) does not deal with.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Information is provided by the error code. TLV restructuring should clarify this issue.

Item Number: 427

Page Number: 218

Line Number: 1

Commentor Name: Hameed

Farooq

Description of Edi

Change definition of silent state. Unauthorized SS's should not be allowed to transmit, even to respond to management requests.

Reason for Edit:

Having an authorized SS sending traps or sending other management traffic is undesirable. This means that the MAC is obligated to honor bandwidth requests from unauthorized SS's. This deny's service to authorized users. If management of an SS is required, it should be authorized and then managed. The sequence of actions that must occur is as follows:

- The BS is informed that the SS is authorized.
- An SNMP message is sent to the SS indicating that it should attempt authorization again. Note that this may be done over some broadcast channel that the SS listens to while in the silent state.
- The SS sends an Auth Request to the BS and enters authorized state
- Management of SS can proceed at this time.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: The whole paragraph has to be verified. Referred to the Management Task Group.

Item Number: 428

Page Number: 218

Line Number: 55

Commentor Name: Stanwood

Ken

Description of Edi

Complete reference.

This occurs again on page 219, line 2; page 224, line 59; page 224, line 65, and page 225, line 4.

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 429

Commentor Name: Stanwood

Page Number: 225

Ken

Line Number: 10

Description of Edi

resolve reference.

Reason for Edit:

unresolved reference

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 430

Commentor Name: Stanwood

Page Number: 228

Ken

Line Number: 60

Description of Edi

Change "one" to "one byte".

Reason for Edit:

typo

Same on page 229, line 42.

On page 230, line 22 change "two s" to "two bytes"

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 431

Commentor Name: Eklund,

Page Number: 230

Carl

Line Number: 22

Description of Edi

s should be bytes

Reason for Edit:

word processor features...

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 432

Commentor Name: Stanwood

Page Number: 231

Ken

Line Number: 53

Description of Edi

Should say "Attributes are shown in Table 41."

Reason for Edit:

Floating tables make text refer to nothing.

This happens in the next section, too.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 433

Page Number: 231

Line Number: 56

Commentor Name: Hameed

Farooq

Description of Edi

Change format of 'Authorization Reject' message. Remove 'Error Code' field.

Reason for Edit:

Security requires providing as little information as possible about authorization failures. An example is remote logging in to a workstation; if the login fails the response simply states that it failed and not whether the password or the login name was improper. We should follow a similar model; state whether authorization was successful or it failed and whether the failure was of a permanent nature. Additional information about the failure may be logged by BS and can be used for debugging during installation. However, this information should not be provided to the SS.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 434

Page Number: 237

Line Number: 33

Commentor Name: Stanwood

Ken

Description of Edi

Change "one" to "one byte"
On line 49, change "two s" to "two bytes".
On line 59, change "more s" to "more bytes"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 435

Page Number: 237

Line Number: 51

Commentor Name: Stanwood

Ken

Description of Edi

resolve TBD

Reason for Edit:

TBD

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 436

Commentor Name: Stanwood

Page Number: 239

Ken

Line Number: 12

Description of Edi

What appears to be a header row in the table is really an entry and should not be in bold type. A header row with "data type" in the first column and "structure" in the second column would be appropriate.

Also "0-n s" in the first row should be "0-n bytes"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 437

Commentor Name: Stanwood

Page Number: 240

Ken

Line Number: 9

Description of Edi

Change "3 s" to "3 bytes".
Later in the same line, change "3-" to "3-byte".
In line 12, change "3-" to "3-byte".
In line 37, change "three s" to "three bytes"
On page 241, line 6, change "6-" to "6-byte".

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 438

Commentor Name: Stanwood

Page Number: 243

Ken

Line Number: 10

Description of Edi

Change "128-" to either "128-byte" which conflicts with line 6, or "128-bit".
Whichever is correct should also be done on page 244, line 21.

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: Problem on lines 10 and 14. Glen will confirm the correct form.

Item Number: 439

Commentor Name: Hameed

Page Number: 243

Farooq

Line Number: 10

Description of Edi

Change
"This attribute contains either a 96 or a 128 bit quantity containing the authorization Key RSA-encrypted with the SS's 1024-bit RSA public key" to
"This attribute contains either a 96 or a 128 bit quantity containing the authorization Key RSA-encrypted with the SS's RSA public key"

Reason for Edit:

A single length for the SS's RSA key should not be specified. A minimum length should be specified elsewhere in the document. The minimum length may be placed under administrative control.

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Fixed previously

Item Number: 440

Commentor Name: Stanwood

Page Number 244

Ken

Line Number: 28

Description of Edi

Change "8-" to "8-byte".
On page 245, lines 53 and 58, the formatting is messed up.
On page 246, line 33, change "20-s" to "20 bytes"
On page 246, line 38, change "20" to "20-byte"
On page 248, line 38, change "8 s" to "8 bytes"
On page 248, line 51, change "one-" to "one-byte"
On page 249, line 11, change "1-" to "1-byte"
On page 250, line 10, change "as-signed" to "assigned"
On page 254, line 20, change "1-" to "1-byte"
On page 255, line 45, change "1-" to "1-byte"
On page 257, line 9, change "1-" to "1-byte"

Reason for Edit:

typos

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 441

Commentor Name: Hunter

Page Number 252

Wayne

Line Number: 45

Description of Edi

change the word from "Uint16" to "uint16"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
consistency with previous usage

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 442

Commentor Name: Hunter

Page Number 253

Wayne

Line Number: 51

Description of Edi

change the word "Uint8" to read "uint8"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
consistency with previous usage

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 443

Commentor Name: Hunter

Page Number 254

Wayne

Line Number: 17

Description of Edi

change "Uint8" to "uint8"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
consistency with previous usage

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 444

Page Number 255

Line Number: 42

Commentor Name: Hunter

Wayne

Description of Edi

change "Uint8" to read "uint8"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments consistency with previous usage

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 445

Page Number 257

Line Number: 6

Commentor Name: Hunter

Wayne

Description of Edi

change "Uint8" to read "uint8"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments consistency with previous usage

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 446

Page Number 257

Line Number: 38

Commentor Name: Hameed

Farooq

Description of Edi

Change
"a SS (Customer Premise Equipment) device attached to one of the
BS's client SS"
to
"Customer Premise Equipment device attached to one of the
BS's client SS"

Reason for Edit:

Typo.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 447

Page Number 257

Line Number: 49

Commentor Name: Stanwood

Ken

Description of Edi

resolve TBD

Reason for Edit:

TBD

Date Received: 29/10/00

Date Resolved:

Comment Type: TBD

Resolution Status: unresolved

Notes:

Item Number: 448

Page Number: 258

Line Number: 20

Commentor Name: Hunter

Wayne

Description of Edit:

Figure 6-1 is referenced, but it appears that no table of that number, or with the suspect subject matter is available

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
Figure 6-1 is missing, suspect that it may reference a figure that would be a companion to Table 64

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: References will be provided.

Item Number: 449

Page Number: 258

Line Number: 50

Commentor Name: Hunter

Wayne

Description of Edit:

Figure 6-1 is referenced, but it appears that no table of that number, or with the suspect subject matter is available

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
Figure 6-1 is missing, suspect that it may reference a figure that would be a companion to Table 64

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: References will be provided.

Item Number: 450

Page Number: 259

Line Number: 15

Commentor Name: Hunter

Wayne

Description of Edit:

Figure 6-2 is referenced, but it appears that no table of that number, or with the suspect subject matter is available

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
Figure 6-2 is missing, suspect that it may reference a figure that would be a companion to Table 64

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: References will be provided.

Item Number: 451

Page Number: 259

Line Number: 58

Commentor Name: Hunter

Wayne

Description of Edit:

Figure 6-1 is referenced, but it appears that no table of that number, or with the suspect subject matter is available

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
Figure 6-1 is missing, suspect that it may reference a figure that would be a companion to Table 64

Date Received: 29/10/00

Date Resolved:

Comment Type: General

Resolution Status: referred to group

Notes: References will be provided.

Item Number: 452

Commentor Name: Stanwood

Page Number: 260

Ken

Line Number: 25

Description of Edit:

Change first 2 occurrences of "frame" in this sentence to "MAC PDU or fragment".
Change the third occurrence (on line 26) to "PDU".
Change the occurrence in line 39 to "MAC PDU or fragment's"

Reason for Edit:

reflect current definition of frame vs. PDU.

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 453

Commentor Name: Stanwood

Page Number: 260

Ken

Line Number: 43

Description of Edit:

Change this paragraph to read "In the special case when the MAC PDU or fragment's to-be-encrypted plaintext is less than 64 bits the data will not be encrypted."

Reason for Edit:

As note 12 indicates, CBC has the side effect that this case is actually worse from a security point of view than not encrypting, so why implement special logic?

Date Received: 29/10/00

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 454

Commentor Name: Stanwood

Page Number: 261

Ken

Line Number: 24

Description of Edit:

Change "8-" to "8-byte"
On line 25, change "of each are" to "of each byte are"
On line 26, change "that the has" to "that the byte has"
On line 30, change "8-" to "8-byte"

Reason for Edit:

typo

Date Received: 29/10/00

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 455

Commentor Name: Hunter

Page Number: 269

Wayne

Line Number: 26

Description of Edit:

change the text from "can vary in time" to "can vary over time"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
Clarity of meaning

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 456

Commentor Name: Hunter

Page Number: 269

Wayne

Line Number: 27

Description of Edit:

change the wording from "either based upon" to "based either upon"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 457

Commentor Name: Guillemette

Page Number: 269

Phil

Line Number: 38

Description of Edit:

following "...adaptive modulation" insert ",Frequency Switched Division Duplexing (FSDD),"

Reason for Edit:

To give introduction to FSDD prior to section 3.2.1.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Resolved by comment 459.

Item Number: 458

Commentor Name: Klein

Page Number: 269

Jay

Line Number: 38

Description of Edit:

Remove the sentence starting with "The primary difference..." and ending with "... are supported."

Reason for Edit:

Subjective statment

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 459

Commentor Name: Klein

Page Number: 269

Jay

Line Number: 46

Description of Edit:

Add the following after the last sentence of 3.1.2:
"Furthermore, the burst mode of operation in the FDD case can handle subscribers restricted of transmitting and receiving at the same instant due to their specific transceiver implementation."

Reason for Edit:

Through the document this feature is never discussed yet it is one of the main issues of PHY Mode B and some MAC related support.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Add the following sentence after the 2nd sentence in section 3.1.2 (line 38): "Furthermore, the burst mode of operation in the FDD case can handle subscribers incapable of transmitting and receiving at the same instant due to their specific transceiver implementation."

Item Number: 460

Commentor Name: Guillemette

Page Number: 269

Phil

Line Number: 59

Description of Edit:

remove the words "the ability"

Reason for Edit:

The sentence did not seem continuous with these words.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 461

Commentor Name: Condie

Page Number: 269

Mary

Line Number: 61

Description of Edit:

Insert "A base station is considered compliant to this standard if it supports at least one of Mode A or Mode B".

Reason for Edit:

Make explicit what is required for BS to be compliant.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: This statement may be better to be located near the beginning of the document. Editor to insert this in the proper place in the document.

Item Number: 462

Commentor Name: Guillemette

Page Number: 270

Phil

Line Number: 10

Description of Edit:

Delete the two sentences that begin at "Elements that are identified..."

Reason for Edit:

This information is already at the beginning of the document. If we were to repeat the information, then it would make more sense to repeat it at the beginning of section 3 as opposed to only within the Mode A overview where some people may miss it while reading the document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 463

Commentor Name: Hunter

Page Number: 270

Wayne

Line Number: 28

Description of Edit:

change "in section Figure 2.6.4" to "in section 2.6.4, Figures 51 and 52"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments insertion of proper figure numbers from referenced section

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 464

Commentor Name: Guillemette

Page Number: 270

Phil

Line Number: 28

Description of Edit:

remove the word "Figure" in reference to section 2.6.4

Reason for Edit:

the word should not be there.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 465

Commentor Name: Lindh

Page Number: 270

Lars

Line Number: 49

Description of Edit:

insert or TFM constellations

Reason for Edit:

TFM uses its own preamble and constellation

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Due to 555 rejection

Item Number: 466

Commentor Name: Stanwood

Page Number: 271

Ken

Line Number: 4

Description of Edit:

Delete "FSDD or"

Reason for Edit:

That mode doesn't exist anymore.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 467

Commentor Name: Klein

Page Number: 271

Jay

Line Number: 4

Description of Edit:

Remove the remark stated in parenthesis "(it is not applicable...)"

Reason for Edit:

2 problems here:
(1) Due to the dynamics a temporary situation where a single modulation scheme is being used could occur (i.e., heavy rain)
(2) FSDD is not defined in the document (see next comment)

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 468

Commentor Name: Lewis

Page Number: 271

Niclas

Line Number: 10

Description of Edit:

The pointer byte refers to the beginning of a MAC frame or the beginning of stuff bytes within a TC layer packet. A problem will arise in the case when a MAC frame is less than 186 bytes and is followed by stuff bytes since a single pointer is required to identify two situations within the same TC layer packet.

Reason for Edit:

To clarify usage of pointer byte in convergence layer packet

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Add the following sentence on line 18: "This pointer byte indicates to the receiver where it should begin looking for the next MAC packet, which be preceded by stuff bytes."

Item Number: 469

Commentor Name: Stanwood

Page Number: 271

Ken

Line Number: 17

Description of Edit:

Change "frame" to "PDU" here, in line 18, and in line 22.

Reason for Edit:

Reflect current definition of frame in document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 470

Commentor Name: Marin

Page Number: 271

Scott

Line Number: 44

Description of Edit:

Insert new sentence, "Modems compliant to European Telecommunication Standards Institute specification 'Digital Video Broadcast (DVB) Frame Structure, Channel Coding and Modulation for 11/12 GHz Satellite Services,' EN 300-421 are may be compatible with Mode A transmissions." If change is accepted, add EN 300-421 to the bibliography (page 321, line TBD).

Reason for Edit:

Alert reader of possible implementation, but use the words "may be compatible" so as to not require compatibility with future revisions of the 802.16 or ETSI specs.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Modify change to "Downstream components compliant to European Telecommunication Standards Institute specification 'Digital Video Broadcast (DVB) Frame Structure, Channel Coding and Modulation for 11/12 GHz Satellite Services,' EN 300-421 may be compatible with Mode A downstream transmissions."

Item Number: 471

Commentor Name: Stambaugh

Page Number: 272

Karl

Line Number: 39

Description of Edit:

Delete all of section 3.2.1.2.1 Baseband Interfacing

Reason for Edit:

This section doesn't add anything new.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 472

Commentor Name: Hunter

Page Number: 274

Wayne

Line Number: 52

Description of Edit:

change "(i.e .47hex)" to "(i.e. 47hex)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments fix typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 473

Commentor Name: Lewis

Page Number: 275

Niclas

Line Number: 1

Description of Edit:

The depth of the interleaver is fixed across all of the different baud rates suggested for the standard. As the baud rate increases the span over which the interleaver operates is reduced which decreases its effectiveness. Is the depth adequate for the maximum symbol rate specified of 43.4 Mbaud?

Reason for Edit:

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 474

Commentor Name: Stambaugh

Page Number: 275

Karl

Line Number: 8

Description of Edit:

Change "depth (M) cells" to "depth (M*j) cells"

Reason for Edit:

Number of cells in each branch is a function of the branch number.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 475

Commentor Name: Stambaugh

Page Number: 276

Karl

Line Number: 38

Description of Edit:

copy the table from page 306 line 35-45.

Reason for Edit:

A detailed table should accompany this diagram to define which bits are first in the stream. This is done elsewhere in the standard.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Table to be added to clarify constellation mapping, but editor needs to ensure that the mapping reflects the current constellation.

Item Number: 476

Commentor Name: Guillemette

Page Number: 276

Phil

Line Number: 47

Description of Edit:

Replace "xxx" with "EN 301 210".

Reason for Edit:

was missing the reference

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Editor to verify this is the proper reference.

Item Number: 477

Commentor Name: Hunter

Page Number: 276

Wayne

Line Number: 47

Description of Edit:

change "as described in xxxx." to "as described in Table 66 and Figure 123."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments provides references to the proper table and figure

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 478

Commentor Name: Hunter

Page Number: 277

Wayne

Line Number: 1

Description of Edit:

correct formatting of text line length problems

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments current formatting causes unreadability

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 479

Commentor Name: Hunter

Page Number: 277

Wayne

Line Number: 6

Description of Edit:

revise figure 122, or add a figure for QPSK and one for 64 QAM to show a sample implementation for each scheme

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments the implementation shown in figure 122 does not clearly demonstrate the way the interleaver should work with $q = 0$ or $q = 2$, two other figures can be provided to expand figure 122 to include these cases

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: referred to editor

Notes: Correct drawing to reflect proper description. Note that when $q=0$, there is no meaning for $q-1$ in the top line of the drawing. Karl S. to provide contribution.

Item Number: 480

Commentor Name: Hunter

Page Number: 278

Wayne

Line Number: 1

Description of Edit:

Is it reasonable to utilize 2 different constellations for the same modulation scheme used in Mode A and Mode B, the 16 QAM scheme here differs from that of the 16 QAM constellation shown in Figure 132 on page 292

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments Questions why two implementations must be implemented for the same constellation

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 481

Commentor Name: Stambaugh

Page Number: 278

Karl

Line Number: 24

Description of Edit:

copy the table from page 307 line 30-62.

Reason for Edit:

A detailed table should accompany this diagram to define which bits are first in the stream. This is done elsewhere in the standard.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Table to be added to clarify constellation mapping, but the table on page 307 is not the right mapping.

Item Number: 482

Commentor Name: Stambaugh

Page Number: 279

Karl

Line Number: 2

Description of Edit:

copy the table from page 308 line 45+.

Reason for Edit:

A detailed table should accompany this diagram to define which bits are first in the stream. This is done elsewhere in the standard.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Table to be added to clarify constellation mapping, but editor needs to ensure that the mapping reflects the current constellation.

Item Number: 483

Commentor Name: Klein

Page Number: 279

Jay

Line Number: 51

Description of Edit:

3.2.2 should start on a new page

Reason for Edit:

Clarity

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 484

Commentor Name: Klein

Page Number: 279

Jay

Line Number: 57

Description of Edit:

Remove the sentence starting with "Operating with a burst..." and ending with "...of operation".

Reason for Edit:

Not informative. Issues are addressed clearly in the next sentences

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 485

Commentor Name: Klein

Page Number: 279

Jay

Line Number: 61

Description of Edit:

Change "phase recover" to "phase recovery"

Reason for Edit:

language error

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 486

Commentor Name: Hunter

Page Number: 279

Wayne

Line Number: 61

Description of Edit:

change "recover" to "recovery"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 487

Commentor Name: Klein

Page Number: 279

Jay

Line Number: 63

Description of Edit:

Delete the word "Section"

Reason for Edit:

appears twice

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 488

Commentor Name: Stambaugh

Page Number: 280

Karl

Line Number: 5

Description of Edit:

Change "layer bytes are added" to "layer pointer byte is added"

Reason for Edit:

the TC layer adds only one byte now - saying "bytes" is confusing.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 489

Commentor Name: Stanwood

Page Number: 280

Ken

Line Number: 25

Description of Edit:

Change "frame" to "PDU"
In line 30, change "frames" to "PDUs"
In line 31, change "frame" to "PDU"

Reason for Edit:

Reflect current definition of frame in document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 490

Commentor Name: Klein

Page Number: 281

Jay

Line Number: 1

Description of Edit:

Change "Subscriber Station" to "Base station"
Change "Base station" to "Subscriber Station"
Change "Matched filter" to "Matched filter/Equalizer"

Reason for Edit:

There is a mistake in the figure as Downlink is the one being addressed.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 491

Commentor Name: Condie

Page Number: 281

Mary

Line Number: 13

Description of Edit:

Change "Subscriber Station" to "Base Station" and vice versa

Reason for Edit:

Block names in figure 126 are incorrect.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 492

Commentor Name: Stanwood

Page Number: 281

Ken

Line Number: 37

Description of Edit:

delete "the following"

Reason for Edit:

The parameters do not follow.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 493

Commentor Name: Condie

Page Number: 281

Mary

Line Number: 37

Description of Edit:

Change 16 to 12. After groups insert "(see section 2.5.2.2)"

Reason for Edit:

Correct discrepancy.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 494

Commentor Name: Klein

Page Number: 281

Jay

Line Number: 40

Description of Edit:

insert before "FEC scheme..." the words "a fixed"

Reason for Edit:

Clarity

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 495

Commentor Name: Stambaugh

Page Number: 281

Karl

Line Number: 44

Description of Edit:

change "CPEs" to "SSs"

Reason for Edit:

We use SS instead of CPE.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 496

Commentor Name: Stanwood

Page Number: 281

Ken

Line Number: 54

Description of Edit:

There should be a capability negotiation long before the registration request and response.

Reason for Edit:

They're actually very far into the access process and this needs to be resolved between the CPE and BS earlier.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Recommended Changes: 1) Remove; " using the Registration Request and Response MAC messages described in Sections 2.5.7 and 2.5.8." 2) 1 to MAC group detailed resolution.

Item Number: 497

Commentor Name: Guillemette

Page Number: 282

Phil

Line Number: 5

Description of Edit:

Insert the actual polynomial into or following figure 127.

Reason for Edit:

To be consistent with 3.2.1.2.2.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Polynomial should be copied from page 273 line 28.

Item Number: 498

Commentor Name: Guillemette

Page Number 282

Phil

Line Number: 27

Description of Edit:

insert "The preambles are not randomized." before "The seed value..."

Reason for Edit:

Just to be clear that the preamble is not randomized.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 499

Commentor Name: Stambaugh

Page Number 282

Karl

Line Number: 29

Description of Edit:

Insert a new sentence at the end of the paragraph:
The randomizer sequence is applied only to information bits. The sequence generator pauses while parity bites are being transmitted.

Reason for Edit:

adds explicit definition.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Change to read as follows; "The randomizer sequence is advanced only as new information bits arrive. "

Item Number: 500

Commentor Name: Aboukarr

Page Number 282

Bakri

Line Number: 40

Description of Edit:

Add three (3) additional optional code types to table 68 as follows:
Code Type: 5 (optional) associated with QPSK modulation, Outer code: Reed Solomon over GF(256), Inner Code: Convolutional code rate 2/3
Code Type: 6 (optional) associated with 16 QAM modulation, Outer code: Reed Solomon over GF(256), Inner Code: Convolutional code rate 3/4
Code Type: 7 (optional) associated with 64 QAM modulation, Outer code: Reed Solomon over GF(256), Inner Code: Convolutional code rate 5/6

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 501

Commentor Name: Aboukarr

Page Number 282

Bakri

Line Number: 51

Description of Edit:

Change "types 3 and 4" to "types 3 to 7"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 502

Commentor Name: Klein

Page Number: 282

Jay

Line Number: 54

Description of Edit:

Change "coding options" to "coding alternatives"

Reason for Edit:

Accuracy. Some of the codes are mandatory while some are optional yet all are valid alternatives

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 503

Commentor Name: Aboukarr

Page Number: 282

Bakri

Line Number: 55

Description of Edit:

Change "four" to "seven"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 504

Commentor Name: Leiba

Page Number: 282

Yigal

Line Number: 57

Description of Edit:

Change the value for the protection required to for the RS code to t=0 to t=16

Reason for Edit:

Compatibility with table 9 (page 71), table 12 (page 76), table 90 (page 311), table 80 (page 297) that define RS correction capability T=0-16

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 505

Commentor Name: Klein

Page Number: 282

Jay

Line Number: 60

Description of Edit:

Change "The coding rate is 2/3" to "The inner coding rate is 2/3"

Reason for Edit:

The overall coding rate depends on the Reed Solomon parameters. The inner coding rate is fixed to 2/3.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 506

Commentor Name: Klein

Page Number: 282

Jay

Line Number: 62

Description of Edit:

Change "his" to "is"
Change "The code itself" to "The inner code"

Reason for Edit:

typo and accuracy

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 507

Commentor Name: Stambaugh

Page Number: 282

Karl

Line Number: 62

Description of Edit:

Change "code his useful" to "code is useful"

Reason for Edit:

spelling.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 508

Commentor Name: Hunter

Page Number: 282

Wayne

Line Number: 62

Description of Edit:

change "code his useful" to "code is useful"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct type

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 509

Commentor Name: Aboukarr

Page Number: 283

Bakri

Line Number: 5

Description of Edit:

Insert:
(5), (6), and (7) Reed Solomon + Convolutional code (soft decodable):
These optional codes rates 2/3, 3/4 and 5/6 provide good C/N
enhancement.

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1
with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 510

Commentor Name: Aboukarr

Page Number: 283

Bakri

Line Number: 6

Description of Edit:

Change "1-3" to "1-7"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 511

Commentor Name: Klein

Page Number: 283

Jay

Line Number: 8

Description of Edit:

Change section starting with "The outer block..." and ending with "...byte errors." To the following:

"The outer block code in code types 1-3 shall be a shortened, systematic Reed-Solomon code generated from GF(256) with variable information block lengths (K) and error correction capability able to correct up to 16 byte errors."

Reason for Edit:

Technical accuracy and ordering. There are some limitations on K which are understood by reading the next few sentences.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted-modified

Notes: Change to: "The outer block code in code types 1-3 shall be a shortened, systematic Reed-Solomon code generated from GF(256) with variable information block lengths (K) and error correction capability able to correct up to 16 errored bytes."

Also apply to 3.3.3.2.1

Item Number: 512

Commentor Name: Hunter

Page Number: 283

Wayne

Line Number: 11

Description of Edit:

change "up to 16 byte errors." To "up to 16 errored bytes."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct grammar and clarity of meaning

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 513

Commentor Name: Lindh

Page Number: 283

Lars

Line Number: 18

Description of Edit:

Line 18 and points (3) and (4) on lines 27 and 30 should be corrected:
In case of code type 2, R should be chosen ...

(3) If inner code is either of type 1 or 3 or if the code type is 2 with (M+R) even, then
All of the

(4) If inner code type is 2 with (M+R) odd, then
The first

Reason for Edit:

Code type 2 (block convolutional code) needs zero prepending, when (M+R) odd.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes: Change as stated above and also in section 3.3.3.2.1

Item Number: 514

Commentor Name: Aboukarr

Page Number: 283

Bakri

Line Number: 27

Description of Edit:

Change "1 or 2" to "1, 2, 5, 6, or 7"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 515

Commentor Name: Condie

Page Number: 283

Mary

Line Number: 48

Description of Edit:

Add reference to section 2.5.3 (DL-MAP definition).

Reason for Edit:

Clarity

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 516

Commentor Name: Stambaugh

Page Number: 283

Karl

Line Number: 54

Description of Edit:

remove footnote #8 symbol after (7,5)

Reason for Edit:

no footnote to reference.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 517

Commentor Name: Klein

Page Number: 283

Jay

Line Number: 54

Description of Edit:

Change "the last 2 bits of the block" to "the last 2 bits of the message block"

Reason for Edit:

Accuracy

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 518

Commentor Name: Klein

Page Number: 283

Jay

Line Number: 56

Description of Edit:

Add the following: "Thus the encoder as well as the trellis decoder will have the same initial and ending state for a message block".

Reason for Edit:

Technical accuracy.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Change to; "Thus the encoder will have the same initial and ending state for a message block".

Item Number: 519

Commentor Name: Klein

Page Number: 284

Jay

Line Number: 17

Description of Edit:

Change "inserted as the MSB" to "inserted as the LSB"
Remove "the result is a 9(K+R) block of bits, LSB first."

Reason for Edit:

To be consistent with p.59 1.1 which calls for a MSB oriented transport. In most cases it would be easier to add the parity at the end (LSB) of a byte after all bits are collected.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Change should also be reflect in section 3.3.3.2.3

Item Number: 520

Commentor Name: Klein

Page Number: 284

Jay

Line Number: 34

Description of Edit:

Remove sentence "Because extended..."

Reason for Edit:

Not useful in a standard document

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 521

Commentor Name: Stambaugh

Page Number: 285

Karl

Line Number: 19

Description of Edit:

delete all text and figures from page 285 line 27 to page 286 line 12

Reason for Edit:

this doesn't belong in a standard - it is an implementation tutorial.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 522

Commentor Name: Hunter

Page Number 286

Wayne

Line Number: 15

Description of Edit:

change "Product code" to "product code"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 523

Commentor Name: Hunter

Page Number 287

Wayne

Line Number: 5

Description of Edit:

change "D22,E88" to "D22,....., E88"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 524

Commentor Name: Stambaugh

Page Number 287

Karl

Line Number: 17

Description of Edit:

no suggestion here

Reason for Edit:

The description of how to shorten a BTC is insufficient to actually implement it. For instance, this line says "Either rows or columns can be removed until....". This does not define anything that an implementer can actually use. For the shortening of codewords to work, the hardware only knows how many bytes are allocated for the whole shortened codeword, which includes both information and parity bytes. From that number, the hardware must be able to calculate exactly how many rows and columns eliminate. The upstream description (section 3.3.3.2.4) must likewise be changed.

Date Received: 10/29/20

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Dave Williams to submit changes as reviewed by the task group as a contribution. Contribution will be published by 8:00 am CST 11/08/2000. Submitted and reviewed by PHY group on 11/09/00 and accepted.

Item Number: 525

Commentor Name: Hunter

Page Number 287

Wayne

Line Number: 63

Description of Edit:

change "purposes of encoding" to "purpose of encoding"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 526

Commentor Name: Klein

Page Number: 288

Jay

Line Number: 37

Description of Edit:

Type 2 interleaver does not have a clear description (i.e., k2 parameter)

Reason for Edit:

Clarification

Date Received: 10/29/20

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: For clarification, refer to Figure 128.

Item Number: 527

Commentor Name: Aboukarr

Page Number: 289

Bakri

Line Number: 16

Description of Edit:

Add a new section with the title "Codes 5, 6 and 7: Convolutional Codes (Optional)" and the following text:

"The inner mother code in these concatenated coding schemes is based on a convolutional code with memory 6 (64 states), rate 1/2. The inner mother code is punctured to derive higher inner code rates, e.g. 2/3, 3/4 and 5/6. An example of a puncturing pattern is given in the following table."

Insert a table with the title "Example of puncturing patterns for the inner convolutional codes 5,6, and 7"

The content of the table is as follows:

Inner code rate	Puncture pattern
2/3	1 0, 1 1
3/4	1 0 1, 1 1 0
5/6	1 0 1 0 1, 1 1 0 1 0

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 528

Commentor Name: Leiba

Page Number: 289

Yigal

Line Number: 19

Description of Edit:

Change the first sentence of the paragraph to read, 'The PHY/MAC control portion of the downstream frame shall be encoded with a well known modulation and coding combination designated as TDM Burst Type 1 with DIUC = 0. TDM Burst type 1 uses a fixed set of parameters in order to ensure that all subscriber stations can read the information.'

Reason for Edit:

Define explicitly the MAC DIUC code 0

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Add at the end of 3.2.2.2.9 the following: "This operation mode will be designated as TDM Burst Type 1 (DIUC=0)"

Item Number: 529

Commentor Name: Stambaugh

Page Number: 289

Karl

Line Number: 24

Description of Edit:

Insert a new paragraph:
The Reed-Solomon codewords shall not be shortened. Stuff-bytes (FFhex) shall be appended as necessary to the end of the control messages to fill an integral number of codewords.

Reason for Edit:

Defines how to handle the case when there are fewer information bytes than what is carried by a number of codewords.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Add on page 289 line 23 the following: "Stuff-bytes (FFhex) shall be appended as necessary to the end of the control messages to fill up the minimum number of codewords. "

Item Number: 530

Commentor Name: Hunter

Page Number: 289

Wayne

Line Number: 29

Description of Edit:

add a definition or explanation of CAZAC sequences

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments CAZAC sequences are used presumably because of special properties they have, but these properties are not mentioned

Date Received: 10/29/20

Date Resolved:

Comment Type: General

Resolution Status: accepted-modified

Notes: Add a reference to a document: A. Milewski, "Periodic Sequences with Optimal Properties for Channel Estimation and Fast Start-Up Equalization" IBM RES. Develop., Vol. 37, No. 5, Sept. 1983 ,pp. 426-431.

Item Number: 531

Commentor Name: Guillemette

Page Number: 289

Phil

Line Number: 29

Description of Edit:

insert "(constant amplitude zero auto-correlation)" following the word "CAZAC".

Reason for Edit:

This is the first time the abbreviation is used so it should be expanded.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 532

Commentor Name: Hunter

Page Number: 291

Wayne

Line Number: 53

Description of Edit:

change "QPSK, 16-QAM, (both mandatory) and 64-QAM." To "QPSK, 16-QAM, and 64-QAM (optional)."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments to co-ordinate these requirements with those of page 270, line 9.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: rejected

Notes:

Item Number: 533

Commentor Name: Stambaugh

Page Number: 291

Karl

Line Number: 61

Description of Edit:

Insert another paragraph:
At the end of each burst, the final FEC encoded message may not end exactly on a PS boundary. If this is the case, the randomizer shall generate random bits as needed to fill the gap between the end of the encoded message and the start of the next burst, which must start on a PS boundary.

Reason for Edit:

QPSK, 16QAM and 64QAM carries either 1, 2 or 3 bytes of data in each Physical Slot (PS). This addition defines what to do between the end of the encoded message and the start of the next burst.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Modify insertion as follows; At the end of each burst, the final FEC encoded message may not end exactly on a PS boundary. If this is the case, between the end of the encoded message and the start of the next burst will be filled with zero bits.

Item Number: 534

Commentor Name: Klein

Page Number: 297

Jay

Line Number: 23

Description of Edit:

the "Randomization" item in table 80 should be re-located to be the first element in the table

Reason for Edit:

Match signal flow

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Modify to: the "Randomization" item in table 80 should be re-located to be the second element in the table

Item Number: 535

Commentor Name: Stanwood

Page Number: 297

Ken

Line Number: 51

Description of Edit:

Delete the first sentence. Change the start of the next sentence from "When the transmission convergence layer is enabled," to "At the transmission convergence layer"

Reason for Edit:

The TC layer should not be able to be disabled in the uplink. It provides a valuable resynchronization capability. For GPT terminals it is necessary since multiple PDUs from a multitude of connections are concatenated into single burst. Even in GPC mode, the PDU concatenation is defined such that if a CPE is granted back to back allocations for more than one connection, they are concatenated into a single burst which opens the possibility that the PDU from a subsequent connection starts in the middle of an FEC block.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: To be resolved with the MAC group

Item Number: 536

Commentor Name: Stambaugh

Page Number: 297

Karl

Line Number: 55

Description of Edit:

Change "layer bytes are added" to "layer pointer byte is added"

Reason for Edit:

the TC layer adds only one byte now - saying "bytes" is confusing.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 537

Commentor Name: Hunter

Page Number: 297

Wayne

Line Number: 57

Description of Edit:

change "first MACPDU" to read "first MAC PDU"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 538

Commentor Name: Stanwood

Page Number: 297

Ken

Line Number: 60

Description of Edit:

Change "frame" to "PDU".
On line 63, change "frames" to "PDUs".
On page 298, line 1, change "frame" to " PDU"

Reason for Edit:

Reflect current definition of frame in document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 539

Commentor Name: Aboukarr

Page Number: 299

Bakri

Line Number: 10

Description of Edit:

Add three (3) additional optional code types to table 81 as follows:
Code Type: 5 (optional) associated with QPSK modulation, Outer code: Reed Solomon over GF(256), Inner Code: Convolutional code rate 2/3
Code Type: 6 (optional) associated with 16 QAM modulation, Outer code: Reed Solomon over GF(256), Inner Code: Convolutional code rate 3/4
Code Type: 7 (optional) associated with 64 QAM modulation, Outer code: Reed Solomon over GF(256), Inner Code: Convolutional code rate 5/6

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 540

Commentor Name: Aboukarr

Page Number: 299

Bakri

Line Number: 22

Description of Edit:

Change "types 3 and 4" to "types 3 to 7"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 541

Commentor Name: Aboukarr

Page Number: 299

Bakri

Line Number: 25

Description of Edit:

Change "four" to "seven"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 542

Commentor Name: Leiba

Page Number: 299

Yigal

Line Number: 27

Description of Edit:

Change the value for the protection required to for the RS code to t=0 to t=16

Reason for Edit:

Compatibility with table 9 (page 71), table 12 (page 76), table 90 (page 311), table 80 (page 297) that define RS correction capability T=0-16

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Changed to technical.

Item Number: 543

Commentor Name: Aboukarr

Page Number: 299

Bakri

Line Number: 40

Description of Edit:

Insert:
(5), (6), and (7) Reed Solomon + Convolutional code (soft decodable):
These optional codes rates 2/3, 3/4 and 5/6 provide good C/N enhancement.

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 544

Commentor Name: Aboukarr

Page Number: 299

Bakri

Line Number: 41

Description of Edit:

Change "1-3" to "1-7"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 545

Commentor Name: Aboukarr

Page Number: 299

Bakri

Line Number: 62

Description of Edit:

Change "1 or 2" to "1, 2, 5, 6, or 7"

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: See comment 550.

Item Number: 546

Commentor Name: Hunter

Page Number: 302

Wayne

Line Number: 47

Description of Edit:

change "Product code" to read "product code"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 547

Commentor Name: Hunter

Page Number: 303

Wayne

Line Number: 41

Description of Edit:

change "D22,E88" to read "D22,, E88"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correct typo

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 548

Commentor Name: Hunter

Page Number: 304

Wayne

Line Number: 34

Description of Edit:

change "for the purposes of encoding." to "for the purpose of encoding."

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments correction of grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 549

Commentor Name: Hunter

Page Number: 304

Wayne

Line Number: 46

Description of Edit:

change the table heading "(32,24)" to read "(30,24)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments to be consistent with the aggregate code rate value of 0.608

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 550

Commentor Name: Aboukarr

Page Number: 305

Bakri

Line Number: 48

Description of Edit:

Add a new section with the title "Codes 5, 6 and 7: Convolutional Codes (Optional)" and the following text:

"The inner mother code in these concatenated coding schemes is based on a convolutional code with memory 6 (64 states), rate 1/2. The inner mother code is punctured to derive higher inner code rates, e.g. 2/3, 3/4 and 5/6. An example of a puncturing pattern is given in the following table."

Insert a table with the title "Example of puncturing patterns for the inner convolutional codes 5,6, and 7"

The content of the table is as follows:

Inner code rate	Puncture pattern
2/3	1 0, 1 1
3/4	1 0 1, 1 1 0
5/6	1 0 1 0 1, 1 1 0 1 0

Reason for Edit:

These code types are introduced in an effort to harmonize IEEE 802.16.1 with ETSI BRAN-HiperAccess.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: For: 2, Against: 7. Rejected.

Item Number: 551

Commentor Name: Hunter

Page Number: 305

Wayne

Line Number: 56

Description of Edit:

change "QPSK must be supported, while 16-QAM and 64-QAM are optional to read "QPSK must be supported, along with 16-QAM while 64-QAM is optional,"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments to be consistent with section 3.1.3.3

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 552

Commentor Name: Lindh

Page Number: 305

Lars

Line Number: 57

Description of Edit:

insert TFM

Reason for Edit:

TFM should also be an optional modulation type

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Due to 555 rejection

Item Number: 553

Commentor Name: Stanwood

Page Number: 311

Ken

Line Number: 11

Description of Edit:

delete the Transmission convergence layer row from the table.

Reason for Edit:

The TC layer should not be able to be disabled in the uplink. It provides a valuable resynchronization capability. For GPT terminals it is necessary since multiple PDUs from a multitude of connections are concatenated into single burst. Even in GPC mode, the PDU concatenation is defined such that if a CPE is granted back to back allocations for more than one connection, they are concatenated into a single burst which opens the possibility that the PDU from a subsequent connection starts in the middle of an FEC block.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: To be resolved with MAC group

Item Number: 554

Commentor Name: Lindh

Page Number: 311

Lars

Line Number: 36

Description of Edit:

insert or TFM (optional)

Reason for Edit:

Include TFM in Table 90, summary of the Upstream Physical Layer Param

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Due to 555 rejection

Item Number: 555

Commentor Name: Lindh

Page Number: 311

Lars

Line Number: 42

Description of Edit:

Insert the contents of the document IEEE 802.16.1c-00/08
"TFM Modulation for the 802.16.1 Uplink"

Reason for Edit:

IEEE 802.16.1 is an international standard with a potential for world wide adoption. In order to address the residential and SOHO market sector TFM is proposed as an optional modulation scheme for the uplink.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 556

Commentor Name: Lewis

Page Number: 311

Niclas

Line Number: 44

Description of Edit:

Suggest only having one roll-off factor defined in order to reduce the number of system parameters. ETSI BRAN has a roll off of 0.3. With this roll off factor the channel size tables would be:

Channel Size	Baud Rate(Mbaud)	Recommended Frame Size	PS/frame
12.5	9.6	2	4800
14	10.75	2	5375
20	15.3	1	3825
25	19.2	1	4800
28	21.5	1	5375
36	27.6	1	6900
40	30.6	0.5	3825
50	38.4	0.5	4800

Reason for Edit:

Reduce number of system configuration parameters

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 557

Commentor Name: Klein

Page Number: 311

Jay

Line Number: 47

Description of Edit:

Change "the baud rates and RF channel bandwidths have been left somewhat flexible in order to allow service providers..." to "several baud rate options and RF channel bandwidth options are required in order to allow service providers..."

Reason for Edit:

This is more accurate than "somewhat flexible"

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 558

Commentor Name: Klein

Page Number: 311

Jay

Line Number: 52

Description of Edit:

Replace the section starting with "The following tables..." and ending with "...0.25, and 0.35." with the following:
"It is recommended that the system will generally support baud rates in the range of 10 to 32 MBaud. Nyquist Root-Raised Cosine pulse shaping with a roll-off factor of 0.15, 0.25 and 0.35 will be used.

The system shall operate on one or more of the recommended channel arrangements presented in the following tables. Although other vendor specific channel sizes and baud rates may also be implemented it is expected that the listed channel arrangements will address the majority of deployment scenarios worldwide.

Note that baud rates are chosen to provide an integer number of PSs per frame. The frame size choice compromises between transport efficiency (i.e. frame overhead) and latency."

Reason for Edit:

Provides a better and clearer guidelines and explanations of choosing channel arrangements

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 559

Commentor Name: Leiba

Page Number: 313

Yigal

Line Number: 32

Description of Edit:

Delete the paragraph starting with 'In order to satisfy timing requirements for telephony or other CBR applications (T1/E1)...' and ending with '... or an internal oscillator with time stamps coming from the MAC layer at the base station.'
Another option is to make the requirements in this paragraph non mandatory (i.e. replace 'should' by 'may')

Reason for Edit:

Supplying the clock for entities outside the scope of the standard need not be a mandatory part of the standard.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Remove only the following sentence (from line 36) starting with "A time stamp" and ending with "at the base station"

Item Number: 560

Commentor Name: McGregor

Page Number: 314

Andy

Line Number: 1

Description of Edit:

Insert after "... algorithm should ..." the following "support at least 15dB dynamic range and"

Reason for Edit:

Clarifies what the minimum requirement on the system is and is compliant with the Coexistence Practice.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: Document currently specifies 40 dB range

Item Number: 561

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 16

Description of Edit:

change "Max. Tx phase noise" to read "Max. Rx phase noise"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
The specification explanation defines the required receiver phase noise performance (note the reference to receiver tracking loop bandwidth), not that of a transmitter.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes:

Item Number: 562

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 16

Description of Edit:

insert section to read as follows: "Max. Tx phase noise 10 kHz away (-68 dBc), 100 kHz away (-78 dBc), 1 MHz away (-98 dBc)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
provide reasonable requirement on transmitter phase noise performance for the base station

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 563

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 22

Description of Edit:

change "Tx symbol Timing accuracy" to read "Tx symbol timing accuracy"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 564

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 31

Description of Edit:

change the text from "10-66 GHz / +- 5 ppm (including aging and temperature variations)" to read "recommend not less than 5ppm, 10 ppm, or 30 ppm as noted in the following frequency bands: 10 - 19.7 GHz / +- 5 ppm (including aging and temperature variations), 19.7 - 31.3 GHz / +- 10 ppm (including aging and temperature variations), 31.3 - 66 GHz / +- 30 ppm (including aging and temperature variations)"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments provides a workable specification modeled after the US - FCC "part 101" specification for these frequency bands

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 565

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 33

Description of Edit:

change "Spectral Mask" to "Spectral mask"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 566

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 33

Description of Edit:

change "Composite Group delay" to read "Composite group delay"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 567

Commentor Name: Klein

Page Number: 314

Jay

Line Number: 37

Description of Edit:

Change "<20% of symbol period for 16-QAM" to "<40% of symbol period 16-QAM"
Change "<10% of symbol period for 64-QAM" to "<20% of symbol period 64-QAM"

Reason for Edit:

Current spec too tight (highly depends on the exact curvature of phase distortion).

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes:

Item Number: 568

Commentor Name: Klein

Page Number: 314

Jay

Line Number: 42

Description of Edit:

Must increase the "1.0 dB" ptp value

Reason for Edit:

Current spec too tight (highly depends on the exact curvature of amplitude distortion). May force unnecessary pre-equalization as channel distortion will can be greater

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Defer to Tx/Rx parameter discussion.

Item Number: 569

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 42

Description of Edit:

change "Composite Amplitude" to "Composite amplitude"

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments grammar

Date Received: 10/29/20

Date Resolved:

Comment Type: Editorial

Resolution Status: accepted

Notes:

Item Number: 570

Commentor Name: Klein

Page Number: 314

Jay

Line Number: 47

Description of Edit:

Either remove "dynamic range" item or relax (30 dB???)

Reason for Edit:

The standard is more focused on cost reducing the subscriber device. Base station performance declarations should be made only on issues relevant to the subscriber operation. It is assumed that a base station vendor will design it to deal with issues like receiving more than one carrier at once etc.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Modify comment to remove dynamic range requirement

Item Number: 571

Commentor Name: Klein

Page Number: 314

Jay

Line Number: 49

Description of Edit:

Insert item "BER performance threshold"
Values:
For 1×10^{-3} : QPSK $-89 + 10 \cdot \log_{10}(R)$, 16QAM $-81 + 10 \cdot \log_{10}(R)$, 64QAM $-74 + 10 \cdot \log_{10}(R)$
For 1×10^{-6} : QPSK $-85 + 10 \cdot \log_{10}(R)$, 16QAM $-77 + 10 \cdot \log_{10}(R)$, 64QAM $-71 + 10 \cdot \log_{10}(R)$
Where R is the RF channel bandwidth in MHz
Values are Receiver input signal level (RSL) in dBm

Reason for Edit:

Missing information in current draft

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Without FEC. Add TBR notation. Add reference diagram for measurement points.

Item Number: 572

Commentor Name: Klein

Page Number: 314

Jay

Line Number: 50

Description of Edit:

Delete Item (Receiver equivalent noise floor)

Reason for Edit:

To be replaced by BER performance

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 573

Commentor Name: Hunter

Page Number: 314

Wayne

Line Number: 58

Description of Edit:

insert a value of "-25 dB" for the requirement on Adjacent channel interference

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments provide a reasonable value for ACI

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 574

Commentor Name: Hunter

Page Number: 315

Wayne

Line Number: 11

Description of Edit:

replace "TBD at a later date" with "10 kHz away (-68 dBc), 100 kHz away (-78 dBc), 1 MHz away (-98 dBc)

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments provide reasonable requirement on transmitter phase noise performance for the subscriber station

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes:

Item Number: 575

Commentor Name: Klein

Page Number: 315

Jay

Line Number: 35

Description of Edit:

Insert item "BER performance threshold"
Values:
For 1×10^{-3} : QPSK $-89 + 10 \cdot \log_{10}(R)$, 16QAM $-81 + 10 \cdot \log_{10}(R)$, 64QAM $-74 + 10 \cdot \log_{10}(R)$
For 1×10^{-6} : QPSK $-85 + 10 \cdot \log_{10}(R)$, 16QAM $-77 + 10 \cdot \log_{10}(R)$, 64QAM $-71 + 10 \cdot \log_{10}(R)$
Where R is the RF channel bandwidth in MHz
Values are Receiver input signal level (RSL) in dBm

Reason for Edit:

Missing information in current draft

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Without FEC. Add TBR notation. Add reference diagram for measurement points.

Item Number: 576

Commentor Name: Hunter

Page Number: 315

Wayne

Line Number: 34

Description of Edit:

Are the last 3 or 4 table entries really minimum performance specifications on the receiver?

Reason for Edit:

Hunter(M), Meyer(O), Robinson(M), Smith(N), Wang(N) team comments
It appears that the last 3 or 4 entries relate to receiver performance characteristics rather than transmitter characteristics

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: referred to group

Notes: Leave for further discussion on Tx/Rx characteristics.

Item Number: 577

Commentor Name: Klein

Page Number: 315

Jay

Line Number: 42

Description of Edit:

Change "Adjacent channel interference" to "Adjacent channel interference threshold degradation at $BER = 1 \times 10^{-6}$ "
Add value: $S/I = 0$ dB for 1 dB degradation, $S/I = -4$ dB for 3 dB degradation (assuming similar modulations on adjacent channels) where S/I represents the signal to interferer ratio

Reason for Edit:

Missing information in current draft

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Add TBR notation.

Item Number: 578

Commentor Name: Klein

Page Number: 315

Jay

Line Number: 44

Description of Edit:

Change "Co-channel interference" to "Co-channel interference threshold degradation at $BER=1 \times 10^{-6}$ "
Add value: $S/I=23$ (QPSK), 30 (16QAM) and 36 (64QAM) dB for 1 dB degradation,
 $S/I=19$ (QPSK), 26.5 (16QAM) and 32.5 (64QAM) dB for 3 dB degradation where
 S/I represents the signal to interferer ratio

Reason for Edit:

Missing information in current draft

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Add TBR notation.

Item Number: 579

Commentor Name: Klein

Page Number: 317

Jay

Line Number: 47

Description of Edit:

Change "Propagation model" types from "Static" and "Dynamic" to "Type 1", "Type 2". Models should be imported from http://www.ieee802.org/16/phy/contrib/802161pc-00_21.pdf (Falconer & Zhang).
Add the following explanation after table:
Type 0 represents a clear Line of Sight scenario. Type 1 and Type 2 represent typical deployment scenarios with weak multi-path components, 1 being with better conditions.

Reason for Edit:

Missing information in current draft. Pay attention that Type 3 is not imported, as it does not represent a typical scenario.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 580

Commentor Name: Marin

Page Number: 317

Scott

Line Number: 59

Description of Edit:

Replace "to the antenna output port" with "to the antenna input port."

Reason for Edit:

The "output port" of a transmitter is the radiated signal. Normally transmitter characteristics are measured in watts in the output of the transmitter and input to the transmitter antenna.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes:

Item Number: 581

Commentor Name: Marin

Page Number: 318

Scott

Line Number: 4

Description of Edit:

Replace the phrase "as the average power, measured" with the phrase "as the time-averaged power when emitting a signal (excluding off-time between bursts), measured"

Reason for Edit:

More precise and clearly indicates that the average is over time and not frequency. Also indicates that transmitter off time is not included in the time average.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted

Notes: Technical.

Item Number: 582

Commentor Name: McGregor

Page Number: 318

Andy

Line Number: 6

Description of Edit:

Use the EIRP limits given in IEEE 802.16.2-00/01r9 section 6.1.1 for both base station, CPE and repeater (if specified). We note that you do not identify values in respect of repeater functionality and recommend that you consider adding such functionality.

Reason for Edit:

Completes TBD text in document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: Modify to "Use the EIRP limits given in IEEE 802.16.2-00/01r9 section 6.1.1 for both base station and subscriber station"

Item Number: 583

Commentor Name: McGregor

Page Number: 318

Andy

Line Number: 13

Description of Edit:

Add text to sections 3.6.3.2 and 3.6.4.4 "Unwanted Conducted Emissions". Suggest taking source material from IEEE 802.16.2-00/01r9 section 6.1.4 and Annex A. Note that "Unwanted Radiated Emissions" are typically dictated by regulators and your text should reference such documents generically.

Consider modifying OOB, Adjacent channel interference, Co-channel interference and Spurious entries in Performance Table on pages 314/315 to point to your sections 3.6.3.2 and 3.6.4.4. Note that the proposed text for these sections cannot be reduced to a simple number for a table.

Reason for Edit:

Completes TBD text in document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: accepted-modified

Notes: On Table on page 314 modify lines 30 to 34 to read "Follow 6.1.4.1 'Unwanted Emissions Limit of IEEE802.16RP or relevent local regulatory requirements if more stringent'"

Item Number: 584

Commentor Name: McGregor

Page Number: 320

Andy

Line Number: 7

Description of Edit:

Add new sub-section 3.6.6 Antenna Performance. Suggest taking source material from IEEE 802.16.2-00/01r9 section 6.2. Consider adding new entries in Performance Table on pages 314/315 and Requirements Table on pages 316/317. Note that the Coexistence Practice document states that antenna performance requirements for intra-system usage is likely to be more critical than for inter-system coexistence.

Reason for Edit:

This provides baseline text for current document.

Date Received: 10/29/20

Date Resolved:

Comment Type: Technical

Resolution Status: rejected

Notes: