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| | Hajduczenia, Marek <i>Comment Type</i> ER The relationshoo be intechangeably in th <i>SuggestedRemedy</i> Please clarify up fro activity <i>Response</i> ACCEPT IN PRINC Overview section in Based on the useful Ethernet Application September 2018. Si seeks to assess cur applications. <i>CI</i> 3 <i>SC</i> 3.1 Hajduczenia, Marek <i>Comment Type</i> E Any link to "2007 IE <i>SuggestedRemedy</i> Per comment | Hajduczenia, Marek Charter Comment Status A Comment Type ER Comment Status A The relationshoo between NEA and BWA is not explinitechangeably in the document - they are not SuggestedRemedy Please clarify up fron tin the document that BWA wa activity Response Response Status C ACCEPT IN PRINCIPLE. Overview section includes following description define Based on the usefulness of the first effort, the IEEE E Ethernet Applications Ad Hoc initiated the second Ethernet Applications. Cl 3 SC 3.1 P10 Hajduczenia, Marek Charter Comment Status A Any link to "2007 IEEE 802.3 Higher Speed Study Ge SuggestedRemedy Per comment | Hajduczenia, Marek Charter Communications Comment Type ER Comment Status A The relationshoo between NEA and BWA is not explained, yet they a intechangeably in the document - they are not SuggestedRemedy Please clarify up fron tin the document that BWA was an activity under activity Response Response Status C ACCEPT IN PRINCIPLE. Overview section includes following description defining the relations! Based on the usefulness of the first effort, the IEEE 802.3 Industry CO Ethernet Applications Ad Hoc initiated the second Ethernet Bandwidth september 2018. Similar in scope to the first bandwidth assessment, seeks to assess current industry bandwidth trends that will impact fut applications. C/ 3 SC 3.1 P10 L53 Hajduczenia, Marek Charter Communications Comment Type E Comment Status A Any link to "2007 IEEE 802.3 Higher Speed Study Group (HSSG) Tut SuggestedRemedy Per comment |

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| Response | ; EPT IN PRINCIPI | Response Status C | | | Hajduczenia | | | ommunications | | Destat |
| ACCI | | LL. | | | Comment Ty | , | Comment Status A ead "Individual Users" | | | Bucket |
| | d comment is on to comment #66 | | | | SuggestedR | emedy | | | | |
| C/ 3 | SC 3.2.1 | P 5 | L 45 | # 66 | Per com | iment | | | | |
| Bruckma | n, Leon | Huawei | | | Response | | Response Status C | | | |
| comment | Type E | Comment Status A | | Bucket | ACCEP | Τ. | | | | |
| | | ≈2 billion individuals in these | | | CI 3 | SC 3.2.1 | P 11 | L 49 | # 17 | |
| | , | I, not connected ? The 8 or the ot connected in the 20 count | | observation #3, I | Hajduczenia | . Marek | Charter C | ommunications | | |
| Suggeste | dRemedy | | | | Comment Ty | vpe E | Comment Status A | | | Bucket |
| | ge text to: "Giver ries," | n that there are ≈2 billion unco | onnected individu | Jais in these 20 | | | | | | |
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| ACCE | | | | | _ | | | | | |
| , (001 | | | | | Response ACCEP ⁻ | T IN PRINCIP | Response Status C LE. | | | |
| | | | | | | | | | | |
| | | | | | Modify t | he text so "Ta | ble 2" does not break acro | ss lines | | |

SORT ORDER: Clause, Subclause, page, line

| 3 | SC 3.2.1 | P11 | L 49 | # 16 | Ĺ | CI 3 | SC 3.2.1 | | P 12 | L 7 | # 21 | |
|---|--|---|--------------------|---------------------------------|----------|---|--|--|---|---|---|-------------|
| lajduczer | nia, Marek | Charter Comr | nunications | | | Hajduczenia | a, Marek | | Charter Com | munications | | |
| omment | Type ER | Comment Status A | | | Bucket C | Comment T | ype E | Comment | Status A | | | Bucket |
| | | epcify what these 20 countries Internet user density? Etc. | are top in - I ass | ume top in terms | of | For son | ne reason, font | t in Column # s | seems mych lar | ger than in othe | r columns | |
| | dRemedy | | | | S | SuggestedF | | To places | | | | |
| •• | - | a sentence explaining what the | ese countries are | top in | _ | | nsistent font siz | <i>7</i> 1 | _ | | | |
| esponse | - | Response Status C | | | F | Response | T IN PRINCIP | Response | Status C | | | |
| ACCE | PT IN PRINCIPI | , | | | | ACCEP | | LC. | | | | |
| Modif | / this sentence - | "This trend is also exhibited b | by the Top 20 cou | Intries noted." | = | Modify | he fonts to be | consistent thro | oughout the tab | le | | |
| to | | | | | - | CI 3 | SC 3.2.1 | | P 12 | L 42 | # 19 | |
| | rend is also exhit i 31, 2019." | bited by the Top 20 countries | per number of int | ternet users as of | H | Hajduczenia | a, Marek | | Charter Com | munications | | |
| / 3 | SC 3.2.1 | P 12 | L1 | # 40 | C | Comment T | | Comment | | | | Bucket |
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| - | nia, Marek <i>Type</i> ER | Comment Status A | nunications | | Bucket | That is | a cry shy of "b | | | | posed to be S-F | |
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| | | | | | | | | | | | ne internet" | |
| | - | nething more self-explanatory | or ad a footnoe to | o explain what the | e _ | 0 | | | dual users were | | | |
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| Please usage Response | e rename to som references to | Response Status C | or ad a footnoe to | o explain what the | e F | Response ACCEP Table 1 | T IN PRINCIP summarizes t | Response LE. | Status C | | t, as of 3/31/19, | as 3, |
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| CI 3 | SC 3.2.2 | P 14 | L 1 | # 23 | CI 3 | SC 3.3.1 | P 10 | L 4 | # 68 |
|---------------------------|---|--|------------------|-------------------------------------|-----------------|-----------------------------|---|-------------------|------------------------|
| Hajducze | enia, Marek | Charter Comn | nunications | | Bruckma | ın, Leon | Huawei | | |
| Comment | t Type TR | Comment Status R | | Bucket | Commen | t Type E | Comment Status A | | Bucke |
| (data | rate, volume of | sion on the number of connection data) of such connections. M2M expected to be data rate and b | / do not downlo | ad cat videos, do not | show | | internet traffic will only grow fror B Pb/s by 2022. | n ≈0.3 Pb/s to ≉ | ≈6.3 Pb/s." The figure |
| Suggeste | edRemedy | | | | 00 | , | ile average hour internet traffic w | ill only arow fro | m ≈0 3 Pb/s to ≈1 3 |
| rate a | and data volume | I2M impact on your activities, it needed for M2M communication honestly - meaningless. | | | Pb/s Respons | | Response Status C | | |
| Response | 9 | Response Status C | | | ACC | | IFLC. | | |
| REJE | ECT. | | | | See | response to co | mment #32 | | |
| No in | formation regard | ling data rate was presented to | the Bandwidth | Assessment activity. | CI 3 | SC 3.3.1 | P 15 | L16 | # 85 |
| CI 3 | SC 3.2.2 | P 14 | L 5 | # 22 | D'Ambro | sia, John | Futurewei, US | Subsidiary of I | Huawei |
| Hajducze Comment | enia, Marek <i>t Type</i> E | Charter Comn Comment Status A lote-"Connected Car" is discuss | nunications | Bucket | com | of "M2M" is inc | Comment Status A omplete and does not appear to e nowell contribution. Slides prio | | |
| 00 | edRemedy lige to Note that t | opics associated with a "Conne | ected Car" are d | iscussed in 3.4.1. | 00 | edRemedy nge "M2M" to Ic | DT / M2M | | |
| Response ACCI | | Response Status C | | | Respons ACC | e EPT IN PRINC | Response Status C | | |
| CI 3 | SC 3.3 | P 14 | L 50 | # 84 | Char | nge the text as | stated throughout the document | | |
| D'Ambros | sia, John | Futurewei, US | Subsidiary of H | luawei | | | | | |
| Comment Poorl devic | y worded senten | Comment Status A nce - Internet usage is not nece | ssarily done by | <i>Bucket</i> a user on a single | | | | | |
| sugge | edRemedy ested rewording iternet. | - A user may use more than just | st a single meth | od or device to access | | | | | |
| Response ACCI | | Response Status C | | | | | | | |

C/ 3 SC 3.3.1

| 3 | SC 3.3.1 | P15 | L 21 | # 24 | C/ 3 | SC 3.3.1 | P15 | L 46 | # 26 | |
|----------------------------|---|---|---------------------|-----------------------------|----------------|--|---|-----------------------|------------------------|--------|
| ijduczeni | a, Marek | Charter Cor | nmunications | | Hajducze | nia, Marek | Charter Co | ommunications | | |
| mment T | | Comment Status A | | Bucket | | tType ER | Comment Status A | | Βι | ucket |
| There is figures | s a blue note in | Figure 5, referencing to sor t. Remove the note in blue? | ne "Figures {n}", b | ut there are no such | What | is "Ultras High I | Definition TV"? | | | |
| ggested | | | | | | dRemedy | | | | |
| Per con | - | | | | | | ו Definition TV" and also de er - definitions vary | efined in footnote wh | ether it is HD and | |
| The sar | me comment ap | plies to Figure 6 | | | Response | | Response Status C | | | |
| sponse | | Response Status C | | | ACCI | EPT IN PRINCIP | • | | | |
| ACCEP | PT IN PRINCIPL | E. | | | Refe | ence: | | | | |
| | ige of note is no | t clear - the note is highligh | ting the device sha | are for years 2017 and | http:// | /www.ieee802.or | rg/3/ad_hoc/bwa2/public/ca | lls/19_0624/nowell_ | _bwa_01_190624.pd | lf is |
| 2022. Modify | note in Fia 5 & 6 | 6 (and other Figures as app | ropriate) | | an up Cisco | date on Cisco V | /NI. a-High-Definition" as "4K" | | | |
| to | U U | · · · · | . , | | 1) In | Section 1, modif | fy definition of UHD to "ultra | | | |
| "Noted | percentages ref | er to 2017, 2022 device sha | are") | | | | beginning with Observation entry text "Ultras High Defir | | | |
| 3 | SC 3.3.1 | P15 | L 40 | # 25 | TV *" | | enny tora en ao mign penn | | ag.: 2 cc (| , |
| • | a, Marek | | nmunications | | C/ 3 | SC 3.3.1 | P15 | L 52 | # 27 | |
| mment T | <i>Type</i> ER s "M2M module" | Comment Status A | | Bucket | Hajducze | nia, Marek | Charter Co | ommunications | | |
| | | 1 | | | Commen | t Туре Т | Comment Status A | | Βι | ucket |
| <i>ggestedF</i> Explain | remedy or change to M | 2M | | | | e number of use itial sections in t | ers alone cannot be conside the document. | ered " - correct, y | et that is the focus o | of |
| sponse | | Response Status C | | | Suggeste | dRemedy | | | | |
| | T IN PRINCIPL | Ε. | | | | ge to read "the r s what you build | number of users alone does on later on | s not present a com | olete picture" - since | 3 |
| Review http://w | | /3/ad hoc/bwa2/public/calls | s/19 0624/nowell | bwa 01 190624.pdf | Response |) | Response Status C | | | |
| provide | | n of the term M2M Module, | | | ACCI | EPT. | | | | |
| | e "M2M Module" | | | | C/ 3 | SC 3.3.1 | P15 | L 53 | # 28 | |
| | | | | | Hajducze | nia, Marek | Charter Co | ommunications | | |
| | | | | | Commen | | Comment Status A | | | ucket |
| | | | | | "num | ber of devices p | er capital" - capital of what? | ? Likely "per capita" | ? | |
| | | | | | 00 | dRemedy | | | | |
| | | | | | | • | f devices per capita" | | | |
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| | | | | | | | | | | |
| | | | | T/technical E/editorial G/g | | | Cl | - | Page 9 of 24 | |
| | | patched A/accepted R/rej | ected RESPON | SE STATUS: O/open W/w | ritten C/close | d Z/withdrawn | SC | 3.3.1 | 1/21/2020 | 12:01: |

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

| CI 3 | SC 3.3.1 | P 16 | L10 | # 29 | CI 3 | SC 3.3.1 | | P 17 | L 3 | # 32 | | |
|----------|---------------------------------------|------------------------------------|-------------------|------------------------|--------------------------------------|---|--|----------------|---------------------|------------------------|--|--|
| Hajducze | enia, Marek | Charter Com | munications | | Hajducze | enia, Marek | | Charter Com | munications | | | |
| Commer | 51 | Comment Status A | | Bucket | Comment Type ER Comment Status A Buc | | | | | | | |
| | ere any reason fo m wrapping aroui | r Row 3 to wrap around? Expa nd | and the size som | e and avoid the column | | | ery affirmative state r from" - these are p | | | the future: "internet | | |
| Suggeste | edRemedy | | | | Suggeste | dRemedy | | | | | | |
| Pero | comment | | | | | | hould be rewritten | | | | | |
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| ACC | EPT. | | | | Response | e EPT IN PRINC | Response Si | tatus C | | | | |
| CI 3 | SC 3.3.1 | P16 | L17 | # 30 | ACCI | | IPLE. | | | | | |
| | enia, Marek | Charter Com | | | | ace this senter | | | | | | |
| | nent Type E Comment Status A Bucke | | | | | "From 2017 to 2022, busy hour traffic will grow from over 1 Pb/s to over 6 Pb/s, while average hour internet traffic will only grow from ~0.3 Pb/s to ~6.3 Pb/s." | | | | | | |
| | ing "." at the end | | | DUCKEL | with | | et traine will only g | 000 110111 0. | 010/310 0.010 | /3. | | |
| | 0 | of the sentence | | | | | , busy hour traffic is | s projected to | grow from over | 1 Pb/s to over 6 Pb/s, | | |
| 00 | edRemedy comment | | | | | average internet traffic | is expected to gro | w from ~0.3 l | Pb/s to ~6.3 Pb/s | | | |
| | | | | | C/ 3 | SC 3.3.2 | 1 3 | P17 | L23 | # 86 | | |
| Respons | e EPT. | Response Status C | | | | | | | | | | |
| ACC | EPI. | | | | D'Ambros | , | | , | IS Subsidiary of H | | | |
| C/ 3 | SC 3.3.1 | P 16 | L 38 | # <u>3</u> 1 | Comment | | Comment S | tatus A | | Buck | | |
| Hajducze | enia, Marek | Charter Com | munications | | | atting bullets in | ncorrect | | | | | |
| Commer | t Type TR | Comment Status A | | Bucket | 00 | dRemedy | | | | | | |
| Wha | t are the two num | bers shown in brackets in Fig | ure 6 (and Figure | e 5)? They are not | corre | ct formatting o | f bullets | | | | | |
| expla | ained or reference | ed anywhere | | | Response | e | Response Si | tatus C | | | | |
| Suggeste | edRemedy | | | | ACCI | EPT IN PRINC | IPLE. | | | | | |
| Add | a brief description | n (1/2 sentences tops) what th | ese numbers rea | lly mean | Modif | fv the formattin | ng of the bullets | | | | | |
| Respons | e | Response Status C | | | | ., | | | | | | |
| ACC | EPT IN PRINCIP | LE. | | | | | | | | | | |
| Refe | r to comment 24 | | | | | | | | | | | |
| T CIC | | | | | | | | | | | | |

C/ 3 SC 3.3.2

| CI 3 | SC 3.3.2 | P 17 | L 23 | # 33 | | C/ 3 | SC | 3.3.2 | P 18 | L15 | # 35 | |
|-----------------------|---|--|--|-------------------|----------|------------------------------------|------------------------|--|---|----------------|--------------------|---------|
| Hajducze | enia, Marek | Charter Comr | nunications | | | Hajducze | nia, Mar | ek | Charter Comn | nunications | | |
| Commen | t Type E | Comment Status A | | | Bucket | Comment | t Type | ER | Comment Status A | | | Bucket |
| | | o skimp on space by using "(A he associated Table on the ne | | and to say "(av | verage)" | | | three col en color? | ors in legend and gray seems | to imply 100M+ | · range, while the | e atual |
| Suggeste | edRemedy | | | | | Suggeste | dRemec | ly | | | | |
| Pero | comment | | | | | Align | color on | Figure | | | | |
| Respons | е | Response Status C | | | | Response | Э | | Response Status C | | | |
| ACC | EPT IN PRINCIP | LE. | | | | ACCE | EPT IN F | PRINCIPL | E. | | | |
| Use | "average" in place | e of "Avg" | | | | | | | Ided figure from | 11/7600 000 01 | 1110 pdf | |
| CI 3 | SC 3.3.2 | P 17 | L 33 | # 34 | | | | | /3/ad_hoc/ngrates/public/18_ n legend colors to colors in gr | | _1110.pul. | |
| Hajducze | enia, Marek | Charter Comr | nunications | | | 2. Ad | d Y-axis | title " Chi | inese Broadband Users" | - | | |
| Commen | t Type ER | Comment Status A | | | Bucket | CI 3 | SC | 3.3.2.1 | P 11 | L 33 | # 69 | |
| | | e in the past tense is a tad od | d: "For 2022 Nor | th America ha | d the | Bruckma | n, Leon | | Huawei | | | |
| 0 | est Wi-Fi" | | | | | Comment | t Type | Е | Comment Status A | | | Bucket |
| | edRemedy | North America is expected to h | ave the highest | \ <u>\</u> /; 	;" | | Figure | e 8 is no | ot clear: W | /hat are the axis representing | ? Where do you | ı see 378M ? | |
| | | ne statement made in the prev | | | very | Suggeste | dRemec | ly | | | | |
| same | e information | | | - | · | Make | the figu | re and te | xt consistent and define the re | levant axis | | |
| Respons | е | Response Status C | | | | Response | Э | | Response Status C | | | |
| ACC | EPT IN PRINCIP | LE. | | | | ACCE | EPT IN F | PRINCIPL | .E. | | | |
| addro rates | esses a different t for the three area | t of specific information in the rend. The bullet starting with as are noted. For the bullet st nerica's ranking in each of the | "For 2022 Asia F arting with "For 2 | Pacific" the l | | (http:/ graph | | ee802.org | g/3/ad_hoc/ngrates/public/18_ nts is inconsistent. The corre | | | |
| highe with "For | est date rate for b 2022 North Amer | rth America had the highest W oth Fixed Broadband and Cell ica is expected to have the hig oth Fixed Broadband and Cell | ular." ghest Wi-Fi data | | | "As ill millio to "As ill | n were fi lustrated | l in Figure iber broad l in Figure | 8, the number of fixed broad 8, the number of fixed broad 8, the number of fixed broad band users) in 2017." | | | |

C/ 3 SC 3.3.2.1

| CI 3 | SC 3.3.2.1 | P 18 | L 50 | # 90 | | C/ 3 | SC 3.3.2.3 | P 13 | L 42 | # 70 |
|-----------------------|-------------------|--|--------------------|----------------|--------|---------------------------|--------------------------------|--|-----------------------|------------------------|
| D'Ambrosia | a, John | Futurewei, U | S Subsidiary of ⊦ | luawei | | Bruckmar | n, Leon | Huawei | | |
| Comment T font siz | | Comment Status A gend at bottom of Figure 8 is | difficult to read | | Bucket | | 016 the connect | Comment Status A ion speed for the countries e this refers to figure 15, th | | |
| Suggested increas | - | ote and legend if possible | | | | "conn | ection speed" | e uns refers to figure 15, u | ien is peak connect | tion speed and not |
| Response ACCE | PT. | Response Status C | | | | | | 016 the peak connection s I.6 Mb/s." | peed for the countrie | es considered ranged |
| C/ 3 | SC 3.3.2.1 | P 19 | L1 | # 91 | | Response ACCE | | Response Status C | | |
| D'Ambrosia | - | | S Subsidiary of ⊦ | luawei | Ducket | C/ 3 | SC 3.3.2.3 | P 20 | L 26 | # 38 |
| Comment T | •• | Comment Status A ifficult to read due to small for | ont sizes | | Bucket | | nia, Marek | | communications | # 50 |
| Suggested | | | | | | Comment | - | Comment Status A | ommunications | Bucke |
| Reproc | duce figures with | larger fonts if possible. | | | | Nowe | here in the who | e section there is any india m, average for both, or sor | | ates referenced are |
| Response ACCE | | Response Status C | | | | Suggeste | dRemedy | | | |
| | SC 3.3.2.2 | D40 | L 42 | # 00 | | | te whether the i thing else | ates referenced are upstre | am, downstream, a | verage for both, or |
| C/ 3 | | P 19 Charter Com | | # 36 | | Response | U U | Response Status C | | |
| Hajduczen | - | Comment Status A | munications | | Bucket | ACCE | PT IN PRINCIP | • | | |
| | | You use both in the docume | ent right now with | no consistency | | Sourc | e material | | | |
| Suggested Likely, | | alized) should be used in the | document | | | pdf) re | | org/3/ad_hoc/bwa2/public/c e noted sentence is reflect p rate" | | |
| Response ACCEI | PT IN PRINCIPL | Response Status C E. | | | | add n | ote after 1st ser | itence of 2nd bullet describused with no reference to v | | |
| الا معا ا | nternet" when re | ferring to the Internet networl | (| | | C/ 3 | SC 3.3.2.3 | P 20 | L 35 | # 92 |
| 036 11 | internet when ie | lerning to the internet network | Υ. | | | D'Ambros | ia, John | Futurewe | i, US Subsidiary of I | Huawei |
| | | | | | | <i>Comment</i> It is u | | Comment Status A bullet is a major or subbul | let. | Bucke |
| | | | | | | Suggester Pleas | | o-bullet, and correct accord | lingly. | |
| | | | | | | Response ACCE | PT IN PRINCIF | Response Status C | | |
| | | | | | | Modif | v the formatting | of the bullets to clarify the | difference between | a bullet and subbullet |

| TYPE: TR/technical required ER/editorial required GR/general required T/te | hnical E/editorial G/general | C/ 3 | Page 12 of 24 |
|--|--|-------------|-----------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE S | TATUS: O/open W/written C/closed Z/withdrawn | SC 3.3.2.3 | 1/21/2020 12:01:11 PM |
| SORT ORDER: Clause, Subclause, page, line | | | |

| C/ 3 | SC 3.3.2.3 | P 20 | L36 | # 37 | C/ 3 | SC 3.3.2.3 | P 22 | L 25 | # 94 | | |
|--|--|---|-------------------|--------|---|--|---|-----------------|----------------------|--|--|
| Hajducze | enia, Marek | Charter Comr | nunications | | D'Ambros | sia, John | Futurewei, U | Subsidiary of H | | | |
| Comment Extra | <i>t Type</i> E space ahead of " | Comment Status A Figure 14" | | Bucket | Comment Type E Comment Status A Buck Fig 15 is difficult to read due to colored background | | | | | | |
| 00 | edRemedy ove extra space | | | | 00 | <i>dRemedy</i> ove quality of figu | re if possible | | | | |
| Response ACCI | | Response Status C | | | Response ACCI | | Response Status C | | | | |
| CI 3 | SC 3.3.2.3 | P 21 | L1 | # 93 | CI 3 | SC 3.3.2.4 | P 22 | L 51 | # 40 | | |
| D'Ambros | sia, John | Futurewei, US | S Subsidiary of H | uawei | Hajduczenia, Marek Charter Communications | | | | | | |
| Commen | t Type E | Comment Status A | | Bucket | Commen | tType E | Comment Status A | | Bucket | | |
| Impro Response ACCI CI 3 | 9 | figures if possible Response Status C P21 Charter Comr | L21 | # 39 | Per c <i>Response</i> ACCI 1. De 2. Ad | EPT IN PRINCIPI lete endnote from d sentence at be | | | | | |
| Commen | | Comment Status A | | Bucket | C/ 3 | SC 3.4 | P 23 | L 5 | # 41 | | |
| It is n | ot clear which Y a | axis applies to which curve | | | Hajducze | nia, Marek | Charter Com | munications | | | |
| Suggeste | dRemedy | | | | Comment | tType ER | Comment Status A | | Bucket | | |
| | | be in text?) which Y axis appli | es to which data | | | | quote the titles in full in the d nich is much more readable a | | use references using | | |
| Response Response Status C ACCEPT IN PRINCIPLE. | | | | | SuggestedRemedy Avoid using full document titles in the main body of text, and use references instead. | | | | | | |
| Modif | fy axis / legend to | clarify which axis data belong | gs to. | | Response | • | Response Status C | | | | |
| | | | | | Upda | te text to use refe | erences in place of full titles | | | | |

| TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general | CI 3 | Page 13 of 24 |
|---|--------|-----------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn | SC 3.4 | 1/21/2020 12:01:11 PM |
| SORT ORDER: Clause, Subclause, page, line | | |

| C/ 3 | SC 3.4 | P 23 | L16 | # 95 | C/ 3 | SC 3.4.1 | P 26 | L 42 | # 43 |
|-------------------------|--|---|-------------------|--------------------------|-------------|---|--|------------------|---------------------|
| D'Ambro | sia, John | Futurewei, U | S Subsidiary of I | luawei | Hajdud | zenia, Marek | Charter Comr | munications | |
| Commen Fig 1 | | Comment Status A ad due to colored background | | Buck | | e <i>nt Type</i> ER nat "two previous e | Comment Status R fforts within the IEEE 802.3 Eth | hernet Working | Bucket Group" ? |
| | dRemedy ove quality of figu | re if possible | | | | s <i>tedRemedy</i> ell them out or pro | vide references to such | | |
| Response ACCI | | Response Status C | | | Respo RE | nse JECT. | Response Status C | | |
| C/ 3 | SC 3.4 | P 24 | L 1 | # 96 | | | e sentence notes the two prior | | |
| D'Ambro | sia, John | Futurewei, U | S Subsidiary of I | luawei | the | Ethernet data rate | e beyond 10 Gb/s in 2006 and | 100 Gb/s in 201 | 3." |
| Commen | t Type E | Comment Status A | | Buck | et Cl 3 | SC 3.4.1 | P 26 | L 42 | # 44 |
| and 4 | 9 | | | | Hajdud | zenia, Marek | Charter Comr | munications | |
| Suggeste | dRemedy | | | | Comm | ent Type T | Comment Status A | | Bucket |
| Impro | ove quality of figu | re if possible | | | | | TVs on the market, with 12/16 | | |
| Response | e | Response Status C | | | | her and higher pix d better (higher res | el density. It seems that the IH solution)? | D class should o | comprise 4K screens |
| ACCI | EPT. | | | | | stedRemedy | | | |
| C/ 3 | SC 3.4 | P 25 | L 4 | # 42 | | r comment | | | |
| Haiducze | nia, Marek | Charter Com | munications | | Respo | nse | Response Status C | | |
| Commen | | Comment Status A | | Buck | et AC | CEPT IN PRINCIP | | | |
| | of terms in the ta | ble are not expanded on or d | efined anywhere | What is QUIC for | | | e in this section represent the c rg/3/ad_hoc/bwa2/public/calls/ ² | | |
| Suggeste | dRemedy | | | | | | .g, o, auoo, oa_, p aoo, o ao, | <u>.</u> | |
| | a table with acron keep them in the | yms to the document and exp table | oand them, eithe | r on the first use or at | "It | | in the future support of video b serve to further exasperate sup | | |
| Response | e | Response Status C | | | OK | | serve to further exasperate sup | | indwidth growth. |
| ACCI | EPT IN PRINCIPI | _E. | | | | | | | |
| is not brow 1. Ad | an acronym, but ser to Google ser d "Application" to | ble 7 is the name or descriptiv is the name of an IETF protovers. top of first column Table 7 to "Latin America" | | | | | | | |

3. Change "APAC" in Table 7 to "Asia-Pacific"

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 3 SC **3.4.1** Page 14 of 24 1/21/2020 12:01:11 PM

| C/ 3 SC 3 | .4.2 | P 28 | L 20 | # 45 | C/ 3 | SC 3.4.3 | P 29 | L 33 | # 46 |
|---|---|--|-----------------|-------------------------|-----------------------------------|---|--|------------------------------------|---------------------------------------|
| Hajduczenia, Mare | k | Charter Comn | nunications | | Hajducze | enia, Marek | Charter Comr | nunications | |
| There is no def | finition of what ble streaming | Comment Status R at this "Virtual / Augment VR content across Intern ally. | | | Commen Incor Suggeste | Bucke | | | |
| SuggestedRemedy Per comment Response | | esponse Status C | | | Response | comment e EPT IN PRINCIF | Response Status C PLE. | | |
| REJECT. | | | | | Use | consistent fonts | and formats within the table. | | |
| to the Ad hoc Reference | | Augmented Reality" Infor | · | | Cl 3 D'Ambros Commen | , | P 29 Futurewei, US Comment Status A | L 33 S Subsidiary of H | # <u>98</u> uawei <i>Buck</i> e |
| C/ 3 SC 3 Bruckman, Leon | 0 | P 21 Huawei | £ 50 | # [<u>7</u> 1 | two b | ble 8 Formatting oullets on the line odRemedy | / line spacing is odd. In additi s. | on in 2012, subb | ullets appears to have |
| "As shown in F | igure 24, wh be consider | Comment Status A en considered connected ed:". Text not clear | cars, there are | Bucket three networks / | Response | appropriate form e EPT IN PRINCIF | Response Status C | | |
| , | s shown in Fi | gure 24, when considerin | g connected ca | rs, there are three | Modi | fy the formatting | of the table | | |
| Response ACCEPT IN PF Change first se "As shown in F connections to to | R RINCIPLE. entence of 3. igure 24, wh be considere | esponse Status C 4.3 from en considered connected | | | Commen All bu Suggeste | ulleted items in the ed <i>Remedy</i> ove the spurious e | P29 Nokia Comment Status A ne 2012 column have a spuriou "o"s Response Status C | L 38 us "o" at the front | # <mark>119</mark> Bucke |

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| CI 3 | SC 3.4.3 | P 30 | L 1 | # 47 | C/ 3 | SC 3. | .4.4 | P 23 | L 31 | # 112 |
|-----------------|--|--|------------------|------------------------|------------------|----------------------------|--------------------|--|--------------------------------------|---|
| Hajducze | enia, Marek | Charter Com | munications | | Wang, Xir | nyuan | | Huawei Techr | nologies | |
| | do not use contrac | Comment Status A ctions in published text: "does | n't" | Bucket | | | | <i>Comment Status</i> R Artificial Intelligence" introduc | tion section for | Bucke 3.4 Increased Services |
| 00 | edRemedy ove all contraction | ns from the document and ex | pand them | | Suggested | | | | | |
| Respons | e | Response Status C | | | Propo | sal for 3.4 | 4.4: | | | |
| | EPT IN PRINCIP | LE. from the document | | | natura levera | al intellige ige high p | nce dis erforma | is intelligence demonstrate played by humans as shown i ance Al silicon processors, wh ucture. For example, 100GbE | in Figure 26. Al nich would requi | computing platform will re high speed Ethernet |
| CI 3 | SC 3.4.3 | P 30 | L 29 | # 48 | | applicatio | | • • | | ady being shipped to |
| Hajducze | enia, Marek | Charter Com | munications | | Figure | e 26: refer | r to slide | e #4 of | | |
| | <i>t Type</i> E is "Generated by | Comment Status R Embedded Mobility by Applic | ation" important | Bucket at all? | 0 | | | /3/ad_hoc/ngrates/public/call | s/19_1217/wang | _nea_01a_191217.pdf |
| Suggeste | edRemedy | | | | | | | | | |
| Rem | ove this statemer | nt and if it is important - add it | to where the fig | ure is referenced from | | | | | | |
| Respons REJE | | Response Status C | | | | | | | | |
| | mation provided in rence | n Assessment represents ma | terial presented | to the Ad hoc | | | | | | |
| http:/ | //www.ieee802.or | g/3/ad_hoc/ngrates/public/18_ | _09/dambrosia_l | owa_01_0918.pdf | Response REJE | | | Response Status C | | |

The noted meeting was not a presentation to the Bandwidth Assessment activity, but was part of another NEA activity on looking at speeds beyond 400 GbE.

C/ 3 SC 3.4.4

| CI 3 | SC 3.5 | P 23 | L36 | # 72 | | C/ 3 | SC 3. | 5 | P 31 | L 22 | # 49 |
|--|--|---|--------------------|-------------------|----------|------------------------|----------------------------------|---------------------|--|--------------------|----------------------|
| Bruckman | | Huawei | 230 | # 12 | | Hajduczer | | | Charter Comr | | # 45 |
| Comment | | Comment Status A | | | Bucket | , | Comment Type TR Comment Status A | | | | |
| "From | devices to inter | connect to applications on a g | | | ata | "that b (not si | oandwidth ure what | i growth "upward | will continue upward" - do yo " means then) or that the gro noved and groth acceleration | th rate accerelat | es (in which case |
| Suggested | Remedy | | | | | Suggested | dRemedy | | | | |
| | | ices to interconnect to applica | | | | Per co | omment | | | | |
| the da | ta presented ha | s already demonstrated that the | nere is broad ma | arket diversity." | | Response | | | Response Status C | | |
| Response | | Response Status C | | | | | | RINCIPL | • | | |
| basis, | not address the material presented in this section. Delete sentence - "From devices to interconnect to applications on a global and regional basis, the data presented has already been demonstrated that there is broad market diversity." | | | | | | ns." | | igure 27 demonstrates the bies the broad variation in obse | | - |
| | • | | | | | CI 3 | SC 3. | .5 | P 31 | L 25 | # 50 |
| CI 3 | SC 3.5 | P 24 | L 21 | # 110 | | Hajduczer | nia, Marel | k | Charter Comr | nunications | |
| D'Ambrosi | | | Subsidiary of I | Huawei | | Comment | Туре | E | Comment Status A | | Buck |
| shows | Kozlov [LightCou a significant de | Comment Status A nting] has provided updated ir crease in growth rate of China | n mobile data fro | om 2018 to 201 | 9 - 200% | data" | since it is | a carrie | wth for China mobile data" to r name | o "the rate of gro | wth for China Mobile |
| to 100 Suggested | | o illustrate that significant grow | wth rates will eve | entually slow do | own. | Suggested Per co | omment | | | | |
| Update Replace | ed figure provide ce last sentence | ed to editor in email. - Conversely, the rate of grov | vth for China mo | obile data has | | Response ACCE | PT IN PF | RINCIPL | Response Status C E. | | |
| significantly increased from the 2011 to 2018 from 50 % to 200 %. With | | | | | | Refer to Comment #110. | | | | | |
| Conve | sed | ed by CINIC, the rate of growth | | ile data signific | antly | | | | | | |
| | | m 50 % to 200 %, but fell to 10 | Ju% for 2019. | | | | | | | | |
| Response | PT. | Response Status C | | | | | | | | | |

CI 3 SC 3.5

| C/ 3 SC 3.5.1 | P 31 | L 50 | # 99 | C/ 3 | SC 3 | 3.5.1 | P 32 | L 2 | # 100 |
|---|---|--------------------|-------|---------------------|--|--|---|-----------------------------------|-------------------------|
|)'Ambrosia, John | Futurewei, U | S Subsidiary of H | uawei | D'Ambro | sia, John | | Futurewei, US | Subsidiary of | Huawei |
| standardization ef | Comment Status A a be approved to better show the i forts - d from data centers has fueled th | · | | Serv | ence can er shipme | ents for = | | of all servers s | Buck |
| | to read - ndwidth demand for data centers nd industry multi-source agreemer | | | Char Ship 25% | of all serv | servers | | er are forecaste | ed by 2023 to represent |
| Response ACCEPT. | Response Status C | | | Respons ACC | e EPT. | | Response Status C | | |
| | | | | C/ 3 | SC 3 | 3.5.1 | P 32 | L33 | # <u>1</u> 01 |
| C/ 3 SC 3.5.1 | | L 52 | # 51 | D'Ambro | sia, John | | Futurewei, US | Subsidiary of | Huawei |
| | Charter Com Comment Status A re marketed this way - remove an Iready have reference pointingto | ly references to w | | Suggeste | oility of no | У | Comment Status A ttom of Fig 28 is limited. ote if possible | | Buck |
| Per comment Response | Response Status C | | | Respons ACC | e EPT. | | Response Status C | | |
| ACCEPT IN PRIN | , CIPLE. | | | CI 3 | SC 3 | 3.5.1 | P 33 | L38 | # 52 |
| Replace sentence - Figure 28 and Figure 29 are market forecasts provided by Dell'Oro. With Figure 28 is a forecast of enterprise and cloud server unit shipments. Figure 29 is a forecast of data center ethernet switch capacity shipments. | | | | | nectivity a al connec edRemedy figure req | TR ery confu nd yet gi ctions y juires mu | Charter Comr Comment Status A using - it claims Data Center D rowth seems to decrease alor uch more comtext to apprecia | ata Traffic and g years, and s | o does the bandwidth in |
| | | | | Respons | ently show e | n on þa | ge sz. Response Status C | | |
| | | | | | | | | | |

ACCEPT IN PRINCIPLE.

Add Y-axis title - "Growth Rate"

| TYPE: TR/technical required ER/editorial required GR/gener | C/ 3 | Page 18 of 24 | |
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| COMMENT STATUS: D/dispatched A/accepted R/rejected | RESPONSE STATUS: O/open W/written C/closed Z/withdrawn | SC 3.5.1 | 1/21/2020 12:01:12 PM |
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| CI 3 | SC 3.5.1 | P 34 | L 7 | # 102 | C/ 3 | SC 3.5 | 3 | | P 34 | L 29 | | # 103 | |
|---|--|---|---|---|------------------|--|---------|-----------------------------------|-------------|--------------|-----------|-------|-------|
| D'Ambros | sia, John | Futurewei, U | S Subsidiary of H | uawei | D'Ambro | sia, John | | | Futurewei, | US Subsidiar | ry of Hua | wei | |
| Comment Fig 3 ⁻ | ••• | <i>Comment Status</i> A due to small font size | | Bucket | | <i>t Type</i> E 4 is not legit | | <i>Comment</i> e to small font | | hout figure | | | Bucke |
| 00 | <i>dRemedy</i> ase font size of no | ote if possible | | | | dRemedy ase font size | e of no | te if possible | | | | | |
| Response ACCE | | Response Status C | | | Response ACCI | | | Response S | Status C | | | | |
| CI 3 | SC 3.5.1 | P34 | L 25 | # 53 | | | | | | | | | |
| Hajducze | nia, Marek | Charter Com | munications | | | | | | | | | | |
| Comment | t Type TR | Comment Status A | | Bucket | | | | | | | | | |
| no wo S <i>uggeste</i> It is al | ord of explanation d <i>Remedy</i> Iso not clear what | P flows? Number of peers it a borders on confusing at bes | it. is, and whether i | t is representative of | | | | | | | | | |
| no wo S <i>uggeste</i> It is al the ag | ord of explanation d <i>Remedy</i> Iso not clear what | borders on confusing at bes | it. is, and whether i | t is representative of | | | | | | | | | |
| no wo Suggestee It is al the ag interp Response | ord of explanation d <i>Remedy</i> Ilso not clear what ggregate capacity oret this. | borders on confusing at bes the "bandwidth connection" , actual tarffic flow, etc. Agai <i>Response Status</i> C | it. is, and whether i | t is representative of | | | | | | | | | |
| no wo Suggester It is al the ag interp Response ACCE | ord of explanation dRemedy Ilso not clear what ggregate capacity oret this. e EPT IN PRINCIPL | borders on confusing at bes the "bandwidth connection" , actual tarffic flow, etc. Agai <i>Response Status</i> C | it. is, and whether i | t is representative of | | | | | | | | | |
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| 1 3 SC 3.5.3 P35 L4 # 54 | Cl 3 SC 3.5.4 P36 L28 # 104 | |
|---|---|-------|
| lajduczenia, Marek Charter Communications | D'Ambrosia, John Futurewei, US Subsidiary of Huawei | |
| omment Type TR Comment Status A Bucket "5.3 GB and is forecasted to grow to 257.1 GB" - that is completely unrealistic, considering | Comment Type E Comment Status A I Fig 36 is not legible, due to small font sizes throughout figure I I I | Bucke |
| that most people are sitting on monthly caps of a few GB per line and such a dramatic increase in monthly usage would trigger major costs for mobile operators and in turns - increase mobile connection costs | SuggestedRemedy Increase font sizes where possible | |
| uggestedRemedy | Response Response Status C | |
| While I understand conclusions are drawn fro the figure, this conclusion is disjoint from reality of things. | ACCEPT. | |
| esponse Response Status C | Cl 3 SC 3.5.4 P36 L45 # 55 | |
| ACCEPT IN PRINCIPLE. | Hajduczenia, Marek Charter Communications | |
| The original presentation of material (http://www.ieee802.org/3/B10K/public/18_05/dambrosia_b10k_09_0518.pdf) and the cited | Comment Type ER Comment Status A I That is a long time into the future: 20220 - should be 2022? Right | Bucke |
| source for the information was reviewed. In the original cited source, the graph is embedded twice, Fig 10 and A2.6. In Figure 10 it is labeled as "Estimations of global | SuggestedRemedy Per comment | |
| mobile traffic per subscriptions per month from 2020 to 2030" and in Fig A2.6, it is labeled as "Estimation of mobile traffic consumed per subscriptions per month in China in 2020-2030". Review of the supporting text for Fig A2.6, however, indicates different (higher) numbers than what is shown in the figure. Due to the wrong quoted numbers it is believed | Response Response Status C ACCEPT IN PRINCIPLE. | |
| that Fig 33 in the BWA is actually Fig 10 (global) in the cited source. The source defines the estimation as "using a method based on the estimated results of global mobile traffic | Replace 2012 with 2022 | |
| divided by global mobile subscriptions (M2M traffic was not included)." | CI 3 SC 3.5.4 P37 L6 # 56 | |
| 1. Change title of Fig 33 to | Hajduczenia, Marek Charter Communications | |
| Estimations of global mobile traffic per subscriptions per month from 2020 to 2030 | Comment Type TR Comment Status A | Bucke |
| (M2M not included) 2. replace first sentence of 3.5.3 with | Table 9 shows "negative" capacity change - does it mean networks will be retired? This confusing | is is |
| Figure 33 is an estimate of mobile traffic consumed per subscription per month globally. | SuggestedRemedy | |
| The estimate uses a method based on the estimated results of global mobile traffic divided | Add a statement or two explaining what a negative capaity growth means | |
| by global mobile subscriptions (M2M traffic was not included). In 2020 the amount of traffic per month is 5.3 GB and is forecasted to grow to 257.1 GB by 2030 for a CAGR of | Response Response Status C | |
| 47 %. | ACCEPT IN PRINCIPLE. | |
| | As noted in text prior to table 9 - It was noted that metro-capacity of service provider networks is growing faster than core- capacity and will account for a third of total service provider network capacity by 20220 See Table 9. The negative number shown merely shows that Core-regional and core-cross-country accounts for less of the service provider network capacity in 2022 as compared to 201 Change font color for negative numbers from red to black. | , |

C/ 3 SC 3.5.4 Page 20 of 24 1/21/2020 12:01:12 PM

| | SC 3.5.4 | P 37 | L 8 | # 105 | C/ 3 | SC 3.5.5 | P 38 | L 26 | # 58 |
|---|--|--|-------------------------------|--------|--|---|---|---|--|
| D'Ambros | sia, John | Futurewei, U | S Subsidiary of H | luawei | Hajduczer | nia, Marek | Charter Com | munications | |
| | 51 | Comment Status A nould be minimized per IEEE | Style Guideline | Bucket | | tinues | Comment Status A | d be at ~50 Tb/s | Bucke in 2012." - likely 2022 |
| chang Response | ge red fonts in Tal e | ble 9 to black <i>Response Status</i> C | | | Suggested | | | | |
| ACCE | EPT IN PRINCIPL | .E. | | | Response | | Response Status C | | |
| Chan | ge the red fonts to | o black | | | | PT IN PRINCIPI | • | | |
| CI 3 | SC 3.5.5 | P 37 | L 22 | # 57 | Repla | ce 2012 with 202 | 22 | | |
| Hajducze | enia, Marek | Charter Com | munications | | C/ 3 | SC 3.5.5.2 | P 41 | L 26 | # 59 |
| | t Type ER | <i>Comment Status</i> A assume these are TB? Is th | | Bucket | Hajduczer | nia, Marek | Charter Com | munications | - |
| | edRemedy comment e | Response Status C | | | provid It is al | ed are specified so not clear that | sociated traffic. It should also by PeeringDB.) "AS" is - Autonomous Syster | | e traffic categories |
| | EPT IN PRINCIPL | | | | Suggested Remo | - | , expand on what "AS" is | | |
| The ta | able shows the nu | umber of IX's in each region. | 5" | | | ve () around text | , expand on what "AS" is <i>Response Status</i> C | | |
| The ta Chan C/ 3 D'Ambros | able shows the nu ge "the growth of SC 3.5.5 sia, John | umber of IX's in each region. IPXs" to "the number of IXPs P38 Futurewei, U | 5" L1 S Subsidiary of H | | Remo <i>Response</i> ACCE 1. rem | ve () around text | Response Status C LE. | | |
| The ta Chan C/ 3 D'Ambros | able shows the nuige "the growth of SC 3.5.5 sia, John <i>t Type</i> E | umber of IX's in each region. IPXs" to "the number of IXPs P38 Futurewei, Ut <i>Comment Status</i> A | L 1 | | Remo <i>Response</i> ACCE 1. rem | ve () around text | Response Status C LE. | L 36 | # 107 |
| The ta Chan C/ 3 D'Ambros Comment Fig 3 | able shows the nuige "the growth of SC 3.5.5 sia, John <i>t Type</i> E 7 is difficult to read | umber of IX's in each region. IPXs" to "the number of IXPs P38 Futurewei, U | L 1 | luawei | Remo Response ACCE 1. rem 2. repl | ve () around text PT IN PRINCIPL nove brackets fro ace "AS's" with ' SC 3.5.5.2 | Response Status C LE. "ASNs" P41 | L 36 S Subsidiary of F | |
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| The ta Chan C/ 3 D'Ambros Comment Fig 3 Suggeste increa | able shows the nu- ige "the growth of SC 3.5.5 sia, John t Type E 7 is difficult to read edRemedy ase size of figure a | umber of IX's in each region. IPXs" to "the number of IXPs P38 Futurewei, U <i>Comment Status</i> A d due to small size and fonts if possible. | L 1 | luawei | Remo Response ACCE 1. rem 2. repl C/ 3 D'Ambros Comment | ve () around text PT IN PRINCIPL hove brackets fro lace "AS's" with " SC 3.5.5.2 ia, John Type ER | Response Status C LE. "ASNs" P 41 Futurewei, U | S Subsidiary of H | łuawei Bucke |
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| The ta Chan C/ 3 D'Ambros Comment Fig 3 Suggeste | able shows the nu- ige "the growth of SC 3.5.5 sia, John t Type E 7 is difficult to read edRemedy ase size of figure a e | umber of IX's in each region. IPXs" to "the number of IXPs P38 Futurewei, U <i>Comment Status</i> A d due to small size and fonts if possible. | L 1 | luawei | Remo Response ACCE 1. rem 2. repl C/ 3 D'Ambros Comment Figs 4 Suggested break | ve () around text PT IN PRINCIPL tove brackets fro ace "AS's" with ' SC 3.5.5.2 ia, John <i>Type</i> ER 4, 45, and 46 ea <i>IRemedy</i> the two plots per | Response Status C LE. "ASNs" P41 Futurewei, US Comment Status A | S Subsidiary of H ure, making it ver to make more leg | luawei Bucke y difficult to read. gible. Make appropriate |

C/ 3 SC 3.5.5.2 Page 21 of 24 1/21/2020 12:01:12 PM

| C/ 4 SC 4.2 | P 37 | L13 | # 89 | CI 4 | SC 4. | .2 | P 44 | L 22 | # 62 |
|--|--|------------------|------------------------|--------------------|------------------------|----------------|--|-------------------|------------------------|
| D'Ambrosia, John | Futurewei, US | Subsidiary of Hu | lawei | Hajduczei | nia, Marel | k | Charter Comm | nunications | |
| correct # should be 5 | Comment Status A Forecast for BWA 1 noted in Tal 0 * 3.75 Tb/s (peak) or 187.5 Tb , and is not discussed. | | | have | any ways defintions | up fron | Comment Status A ence GE speeds: 40 GigE, 10 t and yet do not follow them. <i>A</i> | | |
| SuggestedRemedy | , and is not discussed. | | | Suggestee | | , | | | |
| ••• | to "~187.5 Tb/s". Updated sup <i>v</i> ided. | porting text com | paring the forecast to | Response | | | Response Status C | | |
| Response ACCEPT IN PRINCIF | Response Status C PLE. | | | | EPT IN PF | | E. | to the definition | าร |
| Commenter needs to | provide contribution | | | CI 4 | SC 4. | .2 | P 44 | L 30 | # 108 |
| C/ 4 SC 4.2 | P 43 | L51 | # 60 | D'Ambros | sia, John | | Futurewei, US | Subsidiary of H | luawei |
| Hajduczenia, Marek | Charter Comm | | | Comment | Туре | E | Comment Status A | | Bucke |
| Comment Type E Figure 47 is bleached SuggestedRemedy | Comment Status A d out - any way it could be ember | dded with better | Bucket resolution? | allow Suggestee | easy read dRemedy | ling | ither graph has a title for the Y e size of fonts | ′axis. Also font | sizes are too small to |
| Per comment | | | | Response | | Increase | Response Status C | | |
| Response ACCEPT IN PRINCIF | Response Status C PLE. | | | ACCE | EPT. | | | | |
| Improved figure to be | added | | | CI 4 | SC 4. | .3 | P 38 | L 44 | # 73 |
| C/ 4 SC 4.2 | P 44 | L8 | # 61 | Bruckmar | , | _ | Huawei | | D / |
| | Charter Comm | | # 01 | Comment | | E ring inte | Comment Status A ernet users around the world, i | t is important to | Bucke |
| Hajduczenia, Marek Comment Type ER | Comment Status A | unications | Bucket | | | | sage rate vary greatly from co | | |
| Title of Table 11 is co | onfusing - it says "2012 Ethernet 2 and 2020, titled also BWA1 ar | | cast Comparison", yet | | ge to: "Wł | hen con | sidering internet users around mber of users and usage rate | | |
| | | | | _ | | t the nu | Response Status C | vary greatly ito | in country to country. |
| SuggestedRemedy | | | | Response | | | Response Status | | |
| SuggestedRemedy Per comment | | | | ACCE | PT | | | | |

Change the 1st row of the 3rd column from "2020 Data (BWA2) to "Actual"

| TYPE: TR/technical required ER/editorial required GR/generation | al required T/technical E/editorial G/general | C/ 4 |
|---|--|-------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected | RESPONSE STATUS: O/open W/written C/closed Z/withdrawn | SC 4.3 |
| SORT ORDER: Clause, Subclause, page, line | | |

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| C/4 SC 4 | .4 | P 46 | L 34 | # 63 | CI 4 | SC 4.5 | | P 46 | L 53 | # 64 |
|------------------------------------|--|---|--------------------------------------|-------------------------------------|------------------------|-----------------------------|-------------|---|-------------|---|
| Hajduczenia, Mare | k | Charter Com | munications | | Hajducze | enia, Marek | | Charter Com | munications | |
| <i>,</i> | ER Comment be "Gb/s", multiple le | nt Status A ocations | | Bucket | <i>Commen</i> "exat | 51 | - | comment Status A most of the document | | Bucke |
| SuggestedRemedy Per comment | / | | | | 00 | edRemedy ate for consist | ency | | | |
| Response ACCEPT IN PI | | e Status C | | | Respons ACC | e EPT IN PRIN | | esponse Status C | | |
| Standardize or | n Gb/s throughout th | e document | | | Stan | dardized on E | B through | nout the document | | |
| C/4 SC 4 | .5 | P 39 | L 51 | # 113 | C/ 4 | SC 4.6 | | P 41 | L 31 | # 74 |
| Vang, Xinyuan | | Huawei Tech | nologies | | Bruckma | n, Leon | | Huawei | | |
| Comment Type | E Comme | nt Status A | | Bucket | Commen | t Type E | С | comment Status A | | Bucke |
| uggestedRemedy | | is section | | | realiz | | depend, a | among other things, on | | ot these projections are tinually drive the cost |
| Suggest to cha | ange to: ons, such as virtual/ | augmented realit | ty connected car | and artificial | Suggeste | edRemedy | | | | |
| intelligence rep virtual/augmen | present potential bar | ndwidth drivers. F traffic growth to a | or the 2017 to 20 a 65 % CAGR, so | 22 period that by 2022, there is | proje | 0 | alized or n | first Ethernet Bandwidt ot will depend, among o with time." | , | |
| 0 | e a great unknown a ace with no new ban | | | d regarding the | Respons ACC | | Re | esponse Status C | | |
| Response | Respons | e Status C | | | ACC | EFI. | | | | |
| ACCEPT IN PI | RINCIPLE. | | | | | | | | | |
| Add the followi | ng sentence to end | of last paragraph | n in 4.5 | | | | | | | |

Add the following sentence to end of last paragraph in 4.5 "It is noted that this assessment is based solely on the contributions noted in 2.1. It is recognized that there are other areas, such as high performance computing and artificial intelligence, that could have significant bandwidth demand in the future."

C/ 4 SC **4.6**

| | SC 4.6 | P 47 | L 5 | # 65 | CI 6 | SC 6 | | P 43 | L 21 | # 114 |
|--|---|--|---|--|-------------|--------------|--------------------|-------------------|------------------|------------------------|
| lajducze | enia, Marek | Charter Comr | nunications | | Wang, X | Kinyuan | | Huawei Tech | nnologies | |
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| | | or me is that it is not possible to | | | Add | contribution | presented at Ad I | Hoc on Dec 17th | | |
| | | have been doing business to d as, stabilize for example a single | | | Suggest | edRemedy | | | | |
| | | uild from there to build higher ca | | | [23] | Xinyuan Wa | ng, "Observation | on the Rate of Be | eyond 400GbE" | |
| | | crucial for operators outside of | | | http: | //www.ieee8 |)2.org/3/ad_hoc/r | ngrates/public/ca | lls/19_1217/wang | g_nea_01a_191217.pdf |
| | | d short to medium reach PHYs gle fiber pair, crucial especially | | | Respons | se | Respons | se Status C | | |
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| Cons | sider adding an o | optional development path for fu | uture Ethernet wh | ere DWDM systems | | | EA activity on loo | | | show dourny, but had |
| | | proven and mature 100GE ser | | | | | | | | |
| | | l/or parallel fiber strands. These ar telco enviroment outside of th | | focused on data | | | | | | |
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| spons REJI | | Response Status C | | | | | | | | |
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| , REJE The s | ECT. scope of this effo e Ethernet wirelir | ort is to assess current industry ne applications. As noted in the | overview - "How | vever, like the first | | | | | | |
| The s future Ethe | ECT. scope of this effo e Ethernet wirelir rnet Bandwidth <i>A</i> | ort is to assess current industry ne applications. As noted in the Assessment effort, the second a | e Overview - "Hov assessment is fo | vever, like the first cused on gathering | | | | | | |
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