Cl 00   **SC 0**   *P*   *L*   # 627

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status* **X**

Clause 56 updates are missing

SuggestedRemedy

A document will be submitted

Proposed Response   *Response Status* **O**

Cl 00   **SC 0**   *P*   *L*   # 617

Du, Liang   Amazon

Comment Type   **T**   *Comment Status* **X**

Add Annex C to describe how to measure transient wavelength excursion.

SuggestedRemedy

A document will be submitted

Proposed Response   *Response Status* **O**

Cl 00   **SC 0**   *P*   *L*   # 626

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status* **X**

Clause 45 updates are missing

SuggestedRemedy

A document will be submitted

Proposed Response   *Response Status* **O**

Cl 00   **SC 0**   *P*   *L*   # 628

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status* **X**

Clause 67 updates are missing

SuggestedRemedy

A document will be submitted

Proposed Response   *Response Status* **O**

Cl 00   **SC 0**   *P*   *L*   # 625

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status* **X**

Clause 30 updates are missing

SuggestedRemedy

A document will be submitted

Proposed Response   *Response Status* **O**

Cl 00   **SC 0**   *P* **3**   *L*   # 619

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status* **X**

Missing Abstract

SuggestedRemedy

This amendment to IEEE Std 802.3-2018 extends the operation of Ethernet passive optical networks (EPONs) to Super-PON optical subscriber access networks. Super-PON supports an increased optical reach of up to 50 km and an expanded customer coverage of up to 1024 subscribers over a point-to-multipoint passive optical distribution network (ODN) through wavelength division multiplexing (WDM). The defining element of a Super-PON optical distribution network (ODN) is the presence of a passive wavelength router that determines the channels supported by the ODN. This standard specifies the Super-PON Reconciliation Sublayer (RS), Physical Coding Sublayer (PCS), Physical Media Attachment (PMA) sublayer, and Physical Medium Dependent (PMD) sublayer at a MAC data rate of 10 Gb/s in the downstream direction and of 10 Gb/s or 2.5 Gb/s in the upstream direction.

Proposed Response   *Response Status* **O**

Cl 00   **SC 0**   *P* **3**   *L*   # 620

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status* **X**

Missing Keywords

SuggestedRemedy

Super-PON, IEEE 802.3™, IEEE 802.3cs™, Optical Distribution Network (ODN), Multipoint MAC Control (MPMC), Reconciliation Sublayer (RS), Physical Coding Sublayer (PCS), Physical Media Attachment (PMA), Physical Medium Dependent (PMD), PON, Point-to-Multipoint (P2MP)

Proposed Response   *Response Status* **O**

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

Cl **00**
SC **0**

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1/13/2021 6:34:06 AM

Cl **00**   *SC* **0**   *P* **34**   *L*   # 583

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

     Move figure 200-5 to the same page of figure 200-4

SuggestedRemedy

     As suggested

Proposed Response   *Response Status*   **O**

Cl **1**   *SC* **1.5**   *P* **18**   *L* **33**   # 621

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

     <<TBD>>

SuggestedRemedy

     DCM: Dispersion Compensation Module
     FSR: Free Spectral Range

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.4.5.3**   *P* **25**   *L* **23**   # 632

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

     Table 23 needs updates

SuggestedRemedy

     See PICS document

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.4.5.3**   *P* **25**   *L* **28**   # 609

Du, Liang   Amazon

Comment Type   **T**   *Comment Status*   **X**

     Receiver sensitivity is not in referenced table

SuggestedRemedy

     Replace text "Receive sensitivity (max)" in row 2, column 2 (middle cell) with "minimum mean input power"

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.6.1**   *P* **27**   *L* **21**   # 637

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

     Remove paragraph below table 200-5 ("See ITU-T..")

SuggestedRemedy

     As suggested

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.6.1**   *P* **27**   *L* **21**   # 633

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

     Remove paragraph below table 200-5 ("See ITU-T..")

SuggestedRemedy

     As suggested

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.6.2**   *P* **28**   *L* **1**   # 634

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

     Remove paragraph below table 200-6 ("See ITU-T..")

SuggestedRemedy

     As suggested

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **200**   Page 2 of 8
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   *SC* **200.2.6.2**   1/13/2021 6:34:06 AM
SORT ORDER: Clause, Subclause, page, line

Cl **200**   *SC* **200.2.7**   *P* **28**   *L* **31**   # 606

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

In table 200-7, the values for the maximum transmitter (residual) dispersion OSNR pnalty are ambiguous

SuggestedRemedy

Move the words (in the parameter column) "-600 to +50 ps/nm residual CD" to be note b; add "b" to the value "2.0" in the 10GBASE-SP1-Ux column.
Move the words (in the parameter column) "-600 to +1020 ps/nm residual CD" to be note c; add "c" to the value "1.0" in the 10/2.5GBASE-SP1-Ux column.

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.7.1**   *P* **28**   *L* **21**   # 635

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

Remove paragraph below table 200-7 ("See ITU-T..")

SuggestedRemedy

As suggested

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.7.2**   *P* **29**   *L* **27**   # 636

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

Remove paragraph below table 200-8 ("See ITU-T..")

SuggestedRemedy

As suggested

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.8**   *P* **30**   *L* **2**   # 622

DeSanti, Claudio   Dell Technologies

Comment Type   **E**   *Comment Status*   **X**

Missing introduction

SuggestedRemedy

Add "A Super-PON optical path shall comply with the parameters shown in Table 200–9 and 200-10."

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.8**   *P* **30**   *L* **3**   # 623

DeSanti, Claudio   Dell Technologies

Comment Type   **E**   *Comment Status*   **X**

Remove "10 Gb/s" from the caption of table 200-9

SuggestedRemedy

As suggested

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.9.8**   *P*   *L*   # 616

Du, Liang   Amazon

Comment Type   **E**   *Comment Status*   **X**

Change "receive sensitivity" to "receiver sensitivity"

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.9.12**   *P* **32**   *L* **30**   # 629

DeSanti, Claudio   Dell Technologies

Comment Type   **E**   *Comment Status*   **X**

Remove "<="

SuggestedRemedy

As suggested

Proposed Response   *Response Status*   **O**

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

Cl **200**
SC **200.2.9.12**

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Cl **200**   *SC* **200.2.9.12.1**   *P* **32**   *L* **37**   # 581

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

    Add "(as in Figure 200-5) after "at TP2 of the ONU PMD"

SuggestedRemedy

    As suggested

Proposed Response   *Response Status* **O**

Cl **200**   *SC* **200.2.9.12.1**   *P* **32**   *L* **44**   # 582

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

    Add "(as in Figure 200-5) after "at TP2 of the ONU PMD"

SuggestedRemedy

    As suggested

Proposed Response   *Response Status* **O**

Cl **200**   *SC* **200.2.9.12.2**   *P* **32**   *L* **48**   # 584

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

    remove blank line

SuggestedRemedy

    As suggested

Proposed Response   *Response Status* **O**

Cl **200**   *SC* **200.2.9.12.2**   *P* **33**   *L* **29**   # 611

Du, Liang   Amazon

Comment Type **T**   *Comment Status* **X**

    Editor's note needs to be removed

SuggestedRemedy

    replace text with:
    Laser on/off time measurement must account for any impairment due to the black link. This
    can be approxiamted using 2 60-GHz Gaussian filters alligned to the nominal channel
    frequency.

Proposed Response   *Response Status* **O**

Cl **200**   *SC* **200.2.9.12.2**   *P* **33**   *L* **29**   # 607

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

    Editor's note. That should be the transient state measurement of the black link. It has
    nothing to do with the PMD.

SuggestedRemedy

    Remove the note.

Proposed Response   *Response Status* **O**

Cl **200**   *SC* **200.2.9.12.2**   *P* **33**   *L* **32**   # 585

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

    remove blank line after the editor's note

SuggestedRemedy

    As suggested

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **200**   Page 4 of 8
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   *SC* **200.2.9.12.2**   1/13/2021 6:34:06 AM
SORT ORDER: Clause, Subclause, page, line

Cl **200**　　　*SC* **200.2.9.13**　　　*P* **33**　　　*L* **37**　　　# 586

Lam, Cedric　　　　　　　　　　　Google

Comment Type **E**　　　*Comment Status* **X**

Incorrect reference

SuggestedRemedy

Replace "200.2.9.12.2" with "200.2.9.13.2"

Proposed Response　　　*Response Status* **O**

Cl **200**　　　*SC* **200.2.9.13**　　　*P* **33**　　　*L* **39**　　　# 608

Lam, Cedric　　　　　　　　　　　Google

Comment Type **E**　　　*Comment Status* **X**

Editor's note. Again, the impairment of the black link is a characteristics of the black link and should be decoupled from the PMD rx measurement.

SuggestedRemedy

Remove the note.

Proposed Response　　　*Response Status* **O**

Cl **200**　　　*SC* **200.2.9.13**　　　*P* **33**　　　*L* **43**　　　# 612

Du, Liang　　　　　　　　　　　Amazon

Comment Type **T**　　　*Comment Status* **X**

Editor's note needs to be removed

SuggestedRemedy

replace text with:
Receiver settling time measurement must account for any impairment due to the black link. This can be approxiamted using 2 60-GHz Gaussian filters alligned to the nominal channel frequency.

Proposed Response　　　*Response Status* **O**

Cl **200**　　　*SC* **200.2.9.13.1**　　　*P* **33**　　　*L* **44**　　　# 587

Lam, Cedric　　　　　　　　　　　Google

Comment Type **E**　　　*Comment Status* **X**

Add "(as in Figure 200-6)" after "at TP7"

SuggestedRemedy

As suggested

Proposed Response　　　*Response Status* **O**

Cl **200**　　　*SC* **200.2.9.13.1**　　　*P* **33**　　　*L* **45**　　　# 590

Lam, Cedric　　　　　　　　　　　Google

Comment Type **E**　　　*Comment Status* **X**

Add "for Ton" after "at 200.29.12.1"

SuggestedRemedy

As suggested

Proposed Response　　　*Response Status* **O**

Cl **200**　　　*SC* **200.2.9.13.1**　　　*P* **33**　　　*L* **46**　　　# 589

Lam, Cedric　　　　　　　　　　　Google

Comment Type **E**　　　*Comment Status* **X**

Add "(as in Figure 200-6)" after "at TP8"

SuggestedRemedy

As suggested

Proposed Response　　　*Response Status* **O**

Cl **200**　　　*SC* **200.2.9.13.1**　　　*P* **33**　　　*L* **48**　　　# 588

Lam, Cedric　　　　　　　　　　　Google

Comment Type **E**　　　*Comment Status* **X**

Add "(as in Figure 200-6)" after "at TP7"

SuggestedRemedy

As suggested

Proposed Response　　　*Response Status* **O**

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

Cl **200**
SC **200.2.9.13.1**

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Cl **200**   *SC* **200.2.9.13.2**   *P* **35**   *L* **4**   # 613

Du, Liang   Amazon

Comment Type   **T**   *Comment Status*   **X**

Update figure. Figure needs to have optical filters in the path between the MDI to present Super-PON ODN

SuggestedRemedy

An updated figure will be provided

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.9.13.2**   *P* **35**   *L* **37**   # 614

Du, Liang   Amazon

Comment Type   **T**   *Comment Status*   **X**

Remove TBD

SuggestedRemedy

Replace TBD with "Table 200-7 Turn-on time (max)"

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.9.13.2**   *P* **35**   *L* **37**   # 591

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

<<TBD>>

SuggestedRemedy

Replace with "Table 200-7"

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.9.21**   *P* **36**   *L* **31**   # 610

Du, Liang   Amazon

Comment Type   **T**   *Comment Status*   **X**

Add text from document in submission

SuggestedRemedy

Update draft

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.9.23**   *P* **36**   *L* **40**   # 618

Du, Liang   Amazon

Comment Type   **T**   *Comment Status*   **X**

Add new def for Clear link passband. Consider placing it after Ripple definition.

SuggestedRemedy

Insert:
Clear Link Passband
The frequency/wavelength range that the signal is expected to stay within. The maximum ripple parameter is measured only for frequencies/wavelengths within the clear link passband.

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.11.1**   *P* **37**   *L* **33**   # 631

DeSanti, Claudio   Dell Technologies

Comment Type   **E**   *Comment Status*   **X**

Rewrite sentence "The fiber optic cabling can be assembled as the operator desires"

SuggestedRemedy

The way to assemble the fiber optical cabling is not defined by this standard.

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.2.11.2**   *P* **37**   *L* **37**   # 630

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

Remove subclause 200.2.11.2, it does not apply

SuggestedRemedy

As suggested

Proposed Response   *Response Status*   **O**

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

Cl **200**
SC **200.2.11.2**

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Cl **200**   *SC* **200.2.12**   *P* **38**   *L*   # 624

DeSanti, Claudio   Dell Technologies

Comment Type   **T**   *Comment Status*   **X**

The PICS for 200.2 is missing

SuggestedRemedy

A document will be submitted

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.3.1**   *P* **39**   *L* **22**   # 592

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

missing space

SuggestedRemedy

"The Nx25G-EPON"

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.3.4.4.2**   *P* **44**   *L* **10**   # 593

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

incorrect reference

SuggestedRemedy

Replace "200.7.13" with "200.2.9.12"

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.3.4.4.2**   *P* **44**   *L* **11**   # 594

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

incorrect reference

SuggestedRemedy

Replace "200.7.14" with "200.2.9.13"

Proposed Response   *Response Status*   **O**

Cl **200**   *SC* **200.4.4.3**   *P* **50**   *L* **1**   # 595

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

title: "Symmetric and Data Rates"

SuggestedRemedy

replace with "Symmetric and asymmetric data rates"

Proposed Response   *Response Status*   **O**

Cl **200A**   *SC* **200A.1**   *P* **69**   *L* **13**   # 596

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

DCM is missing from the list of components

SuggestedRemedy

replace "amplifiers, and band MUX" with "amplifiers, DCM, and band MUX"

Proposed Response   *Response Status*   **O**

Cl **200A**   *SC* **200A.2.1**   *P* **71**   *L* **5**   # 597

Lam, Cedric   Google

Comment Type   **E**   *Comment Status*   **X**

In table 200A-2, spell out the meaning of CBP as its first occurrence

SuggestedRemedy

Replace "CBP" with "Channel passband (CBP)"

Proposed Response   *Response Status*   **O**

Cl **200A**   *SC* **200A.2.3**   *P* **72**   *L* **1**   # 599

Lam, Cedric   Google

Comment Type   **T**   *Comment Status*   **X**

a thin-film filter (TFF) with three stages

SuggestedRemedy

Should be three filters in two stages

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **200A**   Page 7 of 8
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   *SC* **200A.2.3**   1/13/2021 6:34:06 AM
SORT ORDER: Clause, Subclause, page, line

Cl **200A**	*SC* **200A.2.3**	*P* **72**	*L* **24**	# 598

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

Remove blank line

SuggestedRemedy

as suggested

Proposed Response   *Response Status* **O**

Cl **200A**	*SC* **200A.3**	*P* **73**	*L* **34**	# 600

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

Remove "(CAWG)" from the title

SuggestedRemedy

As suggested

Proposed Response   *Response Status* **O**

Cl **200A**	*SC* **200A.3**	*P* **73**	*L* **36**	# 601

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

Expand AWG

SuggestedRemedy

Replace "cyclical AWG" with "Cyclical Arrayed Waveguide Grating (CAWG)"

Proposed Response   *Response Status* **O**

Cl **200A**	*SC* **200A.5.1**	*P* **74**	*L* **50**	# 602

Lam, Cedric   Google

Comment Type **T**   *Comment Status* **X**

Add a sentence to clarify negatively chirped OLT lasers are assumed.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **200A**	*SC* **200A.5.2**	*P* **75**	*L* **18**	# 603

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

Update the captions of figures 200A-2 and 200A-3

SuggestedRemedy

Replace "budge" with "budget"

Proposed Response   *Response Status* **O**

Cl **200A**	*SC* **200A.5.4**	*P* **77**	*L* **50**	# 604

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

"-600 ps/nm" should be on a single line

SuggestedRemedy

As suggested

Proposed Response   *Response Status* **O**

Cl **200B**	*SC* **200B.2**	*P* **79**	*L* **45**	# 605

Lam, Cedric   Google

Comment Type **E**   *Comment Status* **X**

"Ageing"

SuggestedRemedy

replace with "aging"

Proposed Response   *Response Status* **O**

Cl **Figure**	*SC* **Fig. 200-1**	*P* **19**	*L*	# 615

Du, Liang   Amazon

Comment Type **T**   *Comment Status* **X**

Do we really need to specify a range for A and B? (currently A<40km, and B<20km). Where does this come from?

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **Figure**
SC **Fig. 200-1**

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