



**Telecommunications Industry Association**

1310 North Courthouse Road, Suite 890  
Arlington, VA 22201 | [www.tiaonline.org](http://www.tiaonline.org)

**Approved by General Counsel**

TR-42 Closing Plenary Meeting

Date: 08 October 2021

Location: Teleconference

Approved: 27 October 2021



## Closing Plenary Meeting Report

### TR-42 Telecommunications Cabling Systems Engineering Committee

Date: October 08, 2021  
 Time: 9:30AM-12:00PM CDT  
 Location: Virtual GoToWebinar  
 Chair: Greg Sandels  
 Vice Chair: Henry Franc  
 Secretary: Jonathan Jew

#### 1. Administrative/General Business

##### 1.1. Call to Order

The chair, Greg Sandels, called the meeting to order at 9:31 AM CDT

Attendees were advised of the Important Notice of Participation

#### IMPORTANT NOTICE OF PARTICIPATION

Participation in, or attendance at, any activity of a TIA Formulating Group or any subelement thereof, constitutes acceptance of and agreement to be bound by all provisions of the current TIA Procedures for American National Standards (PANS) and the TIA Engineering Committee Operating Procedures (ECOP) and permission that all communications and statements, oral or written, or other information disclosed or presented, and any translation or derivative thereof, may without compensation, and to the extent such participant or attendee may legally and freely grant such copyright rights, be distributed, published, and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be granted or permitted in writing to the Chair of the Formulating Group by the head of the TIA Standards Department on a case-by-case basis.

**TIA is actively seeking participation in TR-42 standards projects from the user and general interest communities.**

##### 1.2. Attendance (Call Quorum, Introductions, Roster)

The attendees introduced themselves and registered attendance using the on-line system. Quorum was verified by roster call. Attendees:

Last Name	First Name	Organization	Last Name	First Name	Organization
Ahmed	Adnan	R&M	Lenz	Sean	Panduit
Arbeeney	Caspar	Belden	Maguire	Valerie	The Siemon Co
Baños	Jorge	Condumex	Montstream	Cindy	Legrand
Born	Steve	Superior Essex	Morris	Dan	KITCO Fiber Optics
Buchter	Shelly	US Conec	Ninomiya	Tiger	Senko
Ceella	Brian	The Siemon Co	Pace	Joe	Delta Computer Cons



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Chiou	Dachen	Dan-Chief	Payton	Scott	Global Data Center Eng
Dawson	Fred	Chemours	Poulsen	Jeffrey	Leviton
Dearing	Mark	Leviton	Provost	Lionel	Prysmian Group
DiMinico	Christopher	MC Communications	Royer	Tyler	Senko
Ehredt	Al	Telegartner	Sandels	Greg	OFS
Ellis	Mark	Stewart Connector	Savi	Olindo	Hubbell
Emplit	Ray	Harger	Schmalzigau	Thomas	Huber+Suhner
Fluet	Jacques	TIA	Shubochkin	Roman	OFS
Ford	Christin	Superior Essex	Shuman	Brian	Belden
Franc	Henry	Belden	Silveira	Jeff	BICSI
Fritsche	Matthias	Harting	Stikeleather	Derrick	OCC
Hamilton	Jayson	Midpoint Tech Grp	Tassone	Anthony	UL
Harpel	Todd	Leviton	Tellas	Ronald	Belden
Hess	Dave	Cord Data	Vaden	Sterling	Vaden Enterprises
Hüdepohl	Konstantin	Softing	Valentukonis	Dave	The Siemon Co
Huffman	Derek	Corning	Vanderlaan	Paul	UL
Irwin	Phil	Panduit	Voss	Bob	Panduit
Jenkins	Teesha	TIA	Widawsky	Tom	HDR
Jew	Jonathan	J&M Consultants	Winston	William	Fluke
Jones	Richard	Datacom Standards	Woodman	Brad	Molex
Kozischek	David	Corning	Xu	Sunny	CommScope
Kuniyoshi	Cristina	Furukawa	Young	James	CommScope
Kurtzman	Andrew	TIA	Zimmerman	George	CME Consulting
Larsen	Wayne	CommScope			

### 1.3. Current Meeting Agenda Review and Approval

The meeting agenda (TR42-2021-10-112) was approved without objection

### 1.4. Previous Meeting Report Review and Approval

The meeting report for the previous meeting (TR42-2021-06-093) was approved without objection

### 1.5. TIA Intellectual Property Rights (Early Disclosure Policy)

The Chair brought to the attention of the attendees the TIA policy regarding intellectual property rights:

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TIA's Intellectual Property Rights Policy can be found in Statements of Policy (ANNEX C) and other clauses and annexes of TIA Standards Development Procedures. Participants in the work of the TIA Formulating Groups are urged to review the appropriate sections. Individual participants are encouraged to notify TIA of any patent(s) or published pending patent application(s) of which they are aware that may be essential to the practice of a proposed TIA Publication, including requirements introduced through normative references, early on in the development to reduce the possibility for delays in the development process and increase the likelihood that the proposed TIA Publication will become a Standard. However, a Patent Holder who has provided TIA with a TIA Patent Holder Statement with respect to the applicable proposed TIA Publication need not (but may elect to) identify its specific patent(s) or published pending patent application(s) that may be essential to the practice of the proposed TIA Publication in question. Patent searches are not required to comply with the TIA Intellectual Property Rights Policy.

### 1.6. Distribution of documents and contributions

The following documents were distributed on TIA Connect in the TR-42 Telecommunications Cabling Systems community, under Documents, in the TR-42 Telecommunications Cabling Systems/2021 Meetings/2021-10 Virtual folder:

Document #	Title	Company	Contributor
2021-06-093	TR-42 Closing Plenary Meeting Report June Virtual	TR-42	Jew
2021-10-112	TR-42 Closing Plenary Agenda Virtual Oct 2021	TR-42	Sandels
2021-10-134	TR-42.1 Closing Plenary Review	TR-42.1	Forbes
2021-10-135	TR-42.3 Closing Plenary Review	TR-42.3	Montstream
2021-10-136	TR-42.5 Closing Plenary Review	TR-42.5	Forbes
2021-10-137	TR-42.7 Closing Plenary Review	TR-42.7	Larsen
2021-10-138	TR-42.9 Closing Plenary Review	TR-42.9	Woodman
2021-10-139	TR-42.11 Closing Plenary Review	TR-42.11	Irwin
2021-10-140	TR-42.12 Closing Plenary Review	TR-42.12	Van Vickle
2021-10-141	TR-42.13 Closing Plenary Review	TR-42.13	Sandels
2021-10-146	TR-42 Liaison to IEEE re FOTP-455-54	TR-42.12	Van Vickle

## 2. Old Business

### 2.1. Liaison Letters received since the opening plenary

There were no liaison letters received since the opening plenary.

### 2.2. Subcommittee reports and plenary action

#### 2.2.1. TR-42.1 – Premises Telecommunications Infrastructure

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## Closing Plenary Meeting Report

Cindy Montstream presented TR42-2021-10-134 on behalf of Diane Forbes.

TR-42.1 deferred action on TIA-568.0-E-1 (single balanced twisted-pair use cases and topology) until the next meeting due to dependency on TIA-568.5.

TR-42.1 is waiting for the 3<sup>rd</sup> industry ballot to be issued for ANSI/TIA-758-C (Customer-Owned Outside Plant). TR-42.1 will review the content of TIA-590-A, a standard that was last revised in 1997 and referenced in TIA-758.

The default ballot for TIA-862-C-1 closed with no negative votes or technical comments. TR-42.1 approved deferring publication due to dependency on TIA-568.5.

TR-42.1 resolved 1<sup>st</sup> industry ballot comments to TIA-942-B-1 (Edge Data Centers) and approved a default ballot.

TIA-942-C is on hold until TIA-942-B-1 is approved for publication.

TR-42.1 reviewed and approved the draft Errata for TIA-568.0-E (TR421-2021-10-026).

TR-42.1 resolved 2<sup>nd</sup> industry ballot for TIA-4966 (Education) and approved a default ballot.

Reviewed a contribution on ANSI/TIA-1179-A (Health Care) from Dave Kozischek, the editor and approved a committee ballot.

Reviewed the status of ANSI/TIA-5017 (Security) and approved a committee ballot. Thar Meepegama is the editor.

TR-42.1 agreed to reaffirm TIA-TSB-185 (MICE).

TR-42.1 reviewed TIA-TSB-5018 (DAS) and agreed to reaffirm it.

TR-42.1 agreed to withdraw ANSI/TIA-4994 (Standard for Sustainable ICT) and TIA-TSB-5046 (Sustainability for Manufacturers) at the last meeting. TIA will inform HIS.

### **2.2.2. TR-42. 3 – Telecommunications Administration, Pathways, Bonding and Grounding**

Cindy Montstream presented TR42-2021-10-135.

TR-42.3 resolved the 2<sup>nd</sup> industry ballot of TIA-606-D (Administration) and approved a default ballot.

TR-42.3 waiting for a draft of the revision (5<sup>th</sup> edition) of ASHRAE Thermal Guidelines for Data Processing Environments, to determine further action on TIA-569-E. TR-42.3 will also make the document available to TR-42.1 for their work on TIA-942-C.

TR-42.3 is waiting for a reply from the NEC regarding the impact of NEC Article 250.121(b) on the validity of TIA-607.

### **2.2.3. TR-42.5 – Telecommunications Infrastructure Terms and Symbols**

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## Closing Plenary Meeting Report

Ron Tellas presented TR42-2021-10-136 on behalf of Diane Forbes. TR-42.5 deferred resolution of edge data center, micro edge data center, and the acronym for micro edge data center until the next ballot cycle for TIA-942-B-1 closes.

### 2.2.4. TR-42.7 – Telecommunications Copper Cabling Systems

Wayne Larsen presented TR42-2021-10-137.

TR-42.7 resolved ballot comments on ANSI/TIA-568.5 (single-pair cabling) and authorized a default ballot.

TR-42.7 approved a PAR for an addendum to 184-A for power delivery over single-pair cabling. Anthony Tassone is the editor, Todd Harpel is leading the task group studying temperature rise.

TR-42.7 resolved ballot comments on draft of proposed ANSI-TIA-5071, field testing for single pair cabling systems, and authorized an industry ballot.

### 2.2.5. TR-42.9 – Industrial Telecommunications Infrastructure

Brad Woodman presented TR42-2021-10-138.

TR-42.9 deferred single-pair Ethernet comments to TIA-1005-B (revision to TIA-1005-A) until TIA-568.7 has been developed further.

TR-42.9 resolved mock ballot comments to TIA-568.7 Industrial Single-Pair Ethernet (SPE) standard and approved a 1<sup>st</sup> committee ballot.

### 2.2.6. TR-42.11 – Optical Fiber Systems

Phil Irwin presented TR42-2021-10-139.

TR-42.11 resolved industry ballot comments to ANSI/TIA-568.3-E (Optical Fiber Cabling and Components) and approved issuing the 4<sup>th</sup> industry ballot.

TR-42.11 agreed to issue TIA-526-14-D (Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant) adoption of IEC 61280-4-1 ed.3 2019 for a default ballot.

TR-42.11 discussed ANSI/TIA-526.28 (Attenuation Measurement of MPO) adoption of IEC 61280-4-5:2020, which was published on 9/14/2021.

TR-42.11 discussed the reaffirmation ballot for ANSI/TIA-526-7-A (Measurement of Single-Mode Fiber Cable Plant). The ballot is still open and will close on Oct 31.

TR-42.11 discussed ANSI/TIA-590-A [Standard for Physical Location and Protection of Below Ground Fiber Optic Cable Plant]. The standard is still available but was not revised since 1997 and ANSI approval was withdrawn 2003. It will likely be rescinded with its useful content moved to TIA-758-C.

TR-42.11 formed a task group for polarity of VSFF connectivity.

### 2.2.7. TR-42.12 – Optical Fibers and Cables

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Roman Shubochkin presented TR42-2021-10-140 on behalf of Patrick Van Vickie.

There will be elections for leadership of TR-42.12 at the next meeting.

TR-42.12 resolved 3 editorial ballot comments for TIA-455-3 (FOTP-3) Temperature Ramps and Precision and approved publication.

TR-42.12 approved a PAR for TIA-455-111 (FOTP-111), Fiber Curl (adoption of IEC 60793-1-34).

TR-42.12 approved the following activities related to TIA-492 Series Restructuring:

- Generic specifications: Opened a project to withdraw the current ANSI/TIA-4920000-C document for better alignment with TIA fiber types
- Generic specifications: Approved a new project to adapt the IEC 60793-2:2019 with Pete Pondillo as editor and issue a committee ballot.
- Multimode: Reviewed progress of an errata of updated 492 cross references for ANSI/TIA-492AAAF:2020, adaption of 60793-2-10:2019.
- Single-mode: Reviewed progress of an errata of updated 492 cross references for ANSI/TIA-492CAAC:2020, adaption of 60793-2-50:2018

TR-42.12 reviewed status for the following standards relating to measurement methods and test procedures and agreed to wait until stable IEC documents are available for adoption:

- TIA-455-133 adoption of IEC-60793 Part 1-22 (Length Measurement).
- TIA-455-204 adoption of IEC-60793 Part 1-41 (Bandwidth)
- TIA-455-203 adoption of IEC-61280-1-4 Fibre Optic Communication Subsystem Test Procedures - Part 1-4: General Communication Subsystems (Light Source Encircled Flux Measurement Method):

Work continues on the revision of ANSI/TIA-598-D (Optical Fiber Cable Color Coding).

TR-42.12 took the following action regarding rescission of obsolete documents:

- Approved to obsolete FOTP 30 - Frequency Domain Measurement of Multimode Optical Fiber Information Transmission Capacity
- FOTP 54 - Mode Scrambler Requirements for OFL Conditions to Multimode Fibers. FOTP 54 can be replaced with a reference to the Annex D of the TIA-455-204. TR-42 issued a draft liaison to IEEE 802.3 to communicate this.
- FOTP 124 - PMD Measurement for Single-Mode Optical Fibers by Interferometry (Merge with FOTP 122?). TR-42.12 will resend a liaison letter to ICEA before deciding further action.

TR-42 discussed collaboration with ICEA on cable document maintenance. TR42 leadership will be discussing a possibility of an official liaison and possible cooperation with ICEA further

The draft liaison to IEEE 802.3 regarding FOTP 54 is TR42-2021-10-146, which was reviewed and approved by TR-42.



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### **2.2.8. TR-42.13 – Passive Optical Devices and Fiber Optic Metrology**

Greg Sandels presented TR42-2021-10-141.

TR-42.13 reviewed the liaison from CENELEC TC86BXA WG1.

IEC Adoption Strategy was presented and discussed.

TR-42.13 will be meeting jointly with TR-42.11 regarding polarity of multi-ferrule connectors.

### **2.3. NEC Public Input Task Group**

There was no NEC Public Input Task Group Report.

### **2.4. Alternate TIA Representative for NFPA Panel 16**

Greg Sandels provided an update regarding the status of NFPA accepting Jeff Poulsen as the primary representative for TR-42 on NFPA CMP 16. Eric Lawrence will remain as the alternate.

### **2.5. Other old business**

There was no other old business.

## **3. New Business and output documents**

### **3.1. TIA Agenda and report new templates**

The portion of the agendas and reports dealing with access to meeting documents for non-members should be removed from the agendas and reports. Cheryl Thibideau will be posting them in public folders separately. These public folders will only contain the agendas and reports, and no other meeting documents.

### **3.2. Output documents**

#### **3.2.1. US TAG to ISO/IEC JTC 1 SC 25 WG 3**

- None.

#### **3.2.2. IEEE 802.3**

- None.

#### **3.2.3. US TAG to IEC TC 46**

- None.

#### **3.2.4. Other SDOs**

The following documents were approved to be sent to other SDOs

- None

### **3.3. New Business**

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### 3.3.1. TIA Editor's Guide Task Group

TR-42 approved the creation of a new Task Group to update the TIA Editor's Guide, with Ray Emplit as the lead.

### 3.3.2. Liaison with CSA

TR-42 approved a liaison with CSA to permit sharing of TR-42 standards with them.

### 3.3.3. Other New Business

There was no other new business.

## 4. TR-42 Photography Contest

The winner this meeting's photo contest was Dragonfly by Val Maguire.

The winner of the photo of the year was Dragonfly by Val Maguire.

## 5. Action items derived from this meeting

- Greg Sandels to send TR42-2021-10-146 TR-42 Liaison to IEEE re FOTP-455-54
- Greg Sandels to resend the letter to ICEA (2021-06-101 TR-42 Liaison to ICEA re FOTP-455-124)
- Greg Sandels to reply to CSA to inform them of the approval of liaison with them to share standards and coordinate with Cheryl Thibideau to provide them with access to the standards that they request.
- TIA to contact NFPA staff to validate Jeff Poulsen as the appointed primary representative to TR-42 on NFPA CMP 16.
- Volunteers for the TR-42 Editors' Guide should contact Ray Emplit. Ray Emplit to initiate the task group.
- Henry Franc to develop draft schedule for the next meeting and distribute to TR-42 leadership for review.
- TR-42 and TR-42.12 elections are at the next meeting. Candidates to submit required paperwork prior to the meeting.

## 6. Upcoming Meetings

### 6.1. Next meeting

- January 24-28, 2022 Virtual

### 6.2. Subsequent meetings – locations to be finalized at closing plenary

- June 6-10, 2022, Date firm and location TBD, potentially hybrid or face-to-face; Central US – possibly Cleveland or Denver.
- TIA requests at least 6 months for meeting planning for face-to-face meetings.



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- TIA to follow up with

### 7. Meeting schedule for January 24-28, 2022

The meeting schedule for the next meeting will be developed by correspondence. TR-42 agreed on holding the meetings during Central Time and to only leave a ½ hour break between meetings for lunch breaks that appear in the schedule.

### 8. Adjournment

The meeting was adjourned at 10:46 AM CDT.

This meeting was conducted in accordance with the TIA Legal Guidelines and the engineering procedures.

### AVAILABILITY OF MEETING DOCUMENTS:

TR-42 members/participants are instructed to download contributions and other meeting documents from TIA Connect ([connect.tiaonline.org](http://connect.tiaonline.org)) before the meeting.

**To access the meeting's contributions, please follow the directions below:**

- o Go to [connect.tiaonline.org](http://connect.tiaonline.org)
- o Enter your *Username* (your email address in the TIA database)
- o Enter your *Password*
- o Click "*LOGIN*"
- o Click the "*Communities*" tab and then select "*All My Communities*"
- o Scroll down the page and select "*TR-42 Telecommunications Cabling Systems*"
- o Click on "*Documents*" and then select the subfolder for the meeting

### NEW CONTRIBUTIONS:

Contributions shall use the approved templates and specific wording provided by TIA. Contributions affecting a document are to include a TIA cover sheet, proposed text to be included in the document, and the rationale/substantiation for the contribution. File templates are available on TIA Connect under the Standards Procedures Toolbox tab in the Form folder for download. All contributions shall be submitted to the electronic document coordinator (EDC). All electronic files shall be provided in either Adobe Acrobat (\*.PDF); Microsoft Word (\*.DOC); Microsoft PowerPoint (\*.PPT); or in Microsoft Excel (\*.XLS). Compressed files shall be accessible using PKUNZIP or WINZIP (\*.ZIP).

Early submittal and posting of contributions for consideration in meetings is highly encouraged. Contributions shall be submitted to the EDC as soon as possible and then posted to the appropriate TIA Connect folders by the EDC as soon after receipt as possible, preferably within one business day. All contributions shall be posted to the appropriate location on TIA Connect no later than 12:00 noon EST on the Monday preceding the week of the meeting in which the contribution is to be considered (example: if the meeting will be held on Thursday the 20th, the contributions shall be posted by noon on Monday the 10th).



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### LATE CONTRIBUTIONS:

Contributions not provided to the EDC within 24-hours of the meeting shall be classified as "late contributions." They may be considered in the meeting to which they are addressed at the discretion of the chair. All late contributions shall be provided to the EDC and to the committee members on a memory stick or other electronic media. All late contributions shall be posted to TIA Connect within one week of meeting adjournment.

### Questions and comments on this agenda should be submitted to:

Greg Sandels, Vice Chair	gsandels@ofsoptics.com	(770) 798-2036
Henry Franc, Vice-Chair	Henry.Franc@belden.com	(416) 476-1336
Jonathan Jew, EDC & Secretary	jew@j-and-m.com	(415) 515-4304