



**Telecommunications Industry Association**

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Arlington, VA 22201 | [www.tiaonline.org](http://www.tiaonline.org)

**Approved by General Counsel**

TR-42 Closing Plenary

Meeting Date: 09 October 2020

Location: Teleconference

Approved: 29 October 2020



# Closing Plenary Meeting Report

## TR-42 Telecommunications Cabling Systems Engineering Committee

Date: October 09, 2020  
 Time: 9:30 AM-12:00 PM 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:

| Attendee        | Representing      | Attendee             | Representing      |
|-----------------|-------------------|----------------------|-------------------|
| Ahmed, Adnan    | R&M               | Jew, Jonathan        | J&M Consultants   |
| Bain, David     | TIA               | Jones, Cameron       | ODVA              |
| Barrera, Dan    | IDEAL Networks    | Keller Jr., Michael  | Univ of Wisconsin |
| Born, Steve     | Superior Essex    | Kozischek, David     | Corning           |
| Brillhart, Theo | Fluke Networks    | Kumar, Anand         | RiT Tech          |
| Buchter, Shelly | US Conec          | Kuniyoshi, Cristina  | Furukawa          |
| Cerella, Brian  | The Siemon Co     | Kurtzman, Andrew     | TIA               |
| Cornelison, Ken | Hitachi           | Lenz, Sean           | Panduit           |
| Dawson, Fred    | Chemours          | Montstream, Cindy    | Legrand           |
| Dearing, Mark   | Leviton           | Sandels, Greg        | OFS               |
| DiMinico, Chris | MC Communications | Schmalzigaug, Thomas | Huber+Suhner AG   |
| Ellis, Mark     | Stewart Connector | Shubochkin, Roman    | OFS               |

## Closing Plenary Meeting Report

|                    |                |                     |                   |
|--------------------|----------------|---------------------|-------------------|
| Emplit, Ray        | Harger         | Shuman, Brian       | Belden            |
| Fluet, Jacques     | TIA            | Tassone, Anthony    | UL                |
| Forbes, Diane      | NIS            | Tellas, Ron         | Belden            |
| Ford, Christin     | Superior Essex | Thibideau, Cheryl   | TIA               |
| Franc, Henry       | Belden         | Todd, Scott         | IDEAL Networks    |
| Fritsche, Matthias | Harting        | Vaden, Sterling     | Vaden Enterprises |
| Harpel, Todd       | Leviton        | Valentukonis, David | The Siemon Co     |
| He, Gang           | EXFO           | VanVickle, Patrick  | Sumitomo          |
| Hess, Dave         | CORD DATA      | Voss, Bob           | Panduit           |
| Huffman, Derek     | Corning        | Withey, James       | Fluke Networks    |
| Irwin, Phil        | Panduit        | Woodman, Brad       | Molex             |
| Ivans, Randy       | UL             | Zimmerman, George   | CME Consulting    |

### 1.3. Current Meeting Agenda Review and Approval

The meeting agenda (TR42-2020-10-122a) was unanimously approved with the addition of new items 3.1 and 3.2.

### 1.4. Previous Meeting Report Review and Approval

The meeting report from the June meeting (TR42-2020-06-102a) 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:

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 the TR-42 FTP site:

## Closing Plenary Meeting Report

| Document #   | Title   | Company  | Contributor |
|--------------|---|----------|-------------|
| 2020-06-102a | TR-42 Closing Plenary Meeting Report June Virtual | TR-42    | Jew         |
| 2020-10-122a | TR-42 Closing Plenary Agenda Virtual Oct 9 2020   | TR-42    | Sandels     |
| 2020-10-147  | TR-42.1 Closing Plenary Review                    | TR-42.1  | Forbes      |
| 2020-10-148  | TR-42.3 Closing Plenary Review                    | TR-42.3  | Montstream  |
| 2020-10-149  | TR-42.5 Closing Plenary Review                    | TR-42.5  | Tellas      |
| 2020-10-150  | TR-42.7 Closing Plenary Review                    | TR-42.7  | Larsen      |
| 2020-10-151  | TR-42.9 Closing Plenary Review                    | TR-42.9  | Woodman     |
| 2020-10-152  | TR-42.11 Closing Plenary Review                   | TR-42.11 | Irwin       |
| 2020-10-153  | TR-42.12 Closing Plenary Review                   | TR-42.12 | Van Vickle  |
| 2020-10-154  | TR-42.13 Closing Plenary Review                   | TR-42.13 | Sandels     |
| 2020-10-158a | TR-42 Liaison to Open Alliance on 1000BASE-T1     | TR-42.9  | Woodman     |
| 2020-10-159  | TIA Liaison Agreement with Open Alliance          | TIA      | Thibideau   |

### 1.7. Conversion to TIA Connect

Please note that **TR-42 will be transitioning to TIA Connect on Tuesday, Oct 13** after which we will need to use TIA Connect for meeting administration and messaging. **After Oct 19, we will no longer be able to upload documents to the TIA FTP site.** You will be able to retrieve old documents, but new documents will be uploaded to TIA Connect - [connect.tiaonline.org/home](https://connect.tiaonline.org/home) please set up your TIA Connect user ID if you have not done so already.

The **new email distribution lists** will be

- o TR-42 - [TIA-TR42@ConnectedCommunity.org](mailto:TIA-TR42@ConnectedCommunity.org)
- o TR-42 Leadership – [TIA-TR42L@ConnectedCommunity.org](mailto:TIA-TR42L@ConnectedCommunity.org)
- o TR-42.1 – [TIA-TR421@ConnectedCommunity.org](mailto:TIA-TR421@ConnectedCommunity.org)
- o TR-42.3 - [TIA-TR423@ConnectedCommunity.org](mailto:TIA-TR423@ConnectedCommunity.org)
- o TR-42.5 - [TIA-TR425@ConnectedCommunity.org](mailto:TIA-TR425@ConnectedCommunity.org)
- o TR-42.7 - [TIA-TR427@ConnectedCommunity.org](mailto:TIA-TR427@ConnectedCommunity.org)
- o TR-42.9 - [TIA-TR429@ConnectedCommunity.org](mailto:TIA-TR429@ConnectedCommunity.org)
- o TR-42.11 - [TIA-TR4211@ConnectedCommunity.org](mailto:TIA-TR4211@ConnectedCommunity.org)
- o TR-42.12 - [TIA-TR4212@ConnectedCommunity.org](mailto:TIA-TR4212@ConnectedCommunity.org)
- o TR-42.13 - [TIA-TR4213@ConnectedCommunity.org](mailto:TIA-TR4213@ConnectedCommunity.org)

All new projects and ballots need to be submitted by sending the appropriate forms to:

[standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)

All forms for new projects requests and ballot requests can be found by logging on to TIA Connect and clicking on the Standards Procedures Toolbox tab.

## 2. Old Business

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

There were no liaison letters received since the opening plenary.



## Closing Plenary Meeting Report

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### 2.2. Subcommittee reports and plenary action

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

Diane Forbes presented TR42-2020-10-147.

TR-42.1 resolved committee ballot comments to TIA-568.0-E-1 (single balanced twisted-pair use cases and topology) and approved the 1<sup>st</sup> industry ballot.

TR-42.1 resolved industry ballot comments to ANSI/TIA-758-C (Customer-Owned Outside Plant) and approved the 3<sup>rd</sup> industry ballot.

TR-42.1 resolved committee ballot comments to TIA-862-C (Intelligent Buildings) and approved the 1<sup>st</sup> industry ballot.

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

TR-42.1 reviewed the disposition of ANSI/TIA-4994 and TIA TSB-5046 TR-60 agreed to take responsibility for ANSI/TIA-4994. The subcommittee will review material and relevance of TSB-5046 at the next meeting.

TR-42.1 desires to merge ANSI/TIA-568.0, ANSI/TIA-568.1, and TIA-862 with next revision cycle (568 F-series). This work will impact other areas within TR-42 and TR-42.1 wants to begin preparation for this effort as early as possible to mitigate negative effects of this change

#### 2.2.2. TR-42.3 – Telecommunications Administration, Pathways, Spaces, Bonding and Grounding

Cindy Montstream presented TR42-2020-10-148.

TR-42.3 reviewed and approved the project request for TIA-607-D amendment 1 to harmonize the work done by TR-14 (TIA-222) and TR-42.3 (TIA-607).

TR-42.3 reviewed and approved the project request for TIA-606-D revision of TIA-606.

TR-42.3 reviewed and approved the project request for TIA-5048-1 (AIM) adoption of ISO/IEC 18598-1 Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications

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

Ron Tellas presented TR42-2020-10-149. Definitions were added or updated for

- Internet of things
- equal level transverse conversion transfer loss
- hybrid cable
- composite cable

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

Wayne Larsen presented TR42-2020-10-150.

TR-42.7 published ANSI/TIA-568.2-D.2 (normative version of TSB-184-A guidelines for remote powering) prior to the meeting as authorized by the default ballot during the June TR-42.7 meeting.



## Closing Plenary Meeting Report

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

TR-42.7 resolved ballot comments on ANSI/TIA-5071 (Field testing for single-pair cabling) and authorized a committee ballot.

TR-42.7 agreed to start a project on support for power delivery over single-pair cabling. The PAR will be reviewed in January.

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

Brad Woodman presented TR42-2020-06-097.

TR-42.9 resolved committee ballot comments to TIA-1005-B (revision to TIA-1005-A) and authorized the 2<sup>nd</sup> committee ballot.

TR-42.9 reviewed the scope of the TIA-568.7 Industrial Single-Pair Ethernet (SPE) project and two contributions. The Industrial SPE task group will meet Nov 17 at 10 AM - noon EST.

TR-42 reviewed and approved TR42-2020-10-158 TR-42 Liaison to Open Alliance on 1000BASE-T1 developed by TR-42.9. The purpose of the letter is to transmit the draft liaison agreement to the Open Alliance (TR42-2020-10-159).

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

Phil Irwin presented TR42-2020-10-151.

TR-42.11 resolved committee ballot comments to ANSI/TIA-568.3-E (Optical Fiber Cabling and Components) and approved issuing the 2<sup>nd</sup> committee ballot.

TR-42.11 approved a foreword for a ballot for TIA-526-14-D (Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant) as an adoption of IEC 61280-4-1 ed.3 2019).

TR-42.11 approved a PAR to adopt IEC 61280-4-5 (Test Procedure of MPO Cabling Plant) as a new ANSI/TIA-526 series document.

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

Roman Shubochkin presented TR42-2020-10-153 on behalf of Patrick Van Vickle.

TR-42.12 will submit TIA-455-3 (FOTP-3) Temperature Ramps and Precision for another ballot.

TR-42.12 resolved comments on ballots for the adoption of the following IEC documents:

- TIA-455-78 adoption from IEC 60793 Part 1-40: Attenuation – approved publication
- TIA-455-62 adoption from IEC 60793 Part 1-47: Macrobending Loss – approved publication
- TIA-455-80 adoption from IEC 60793 Part 1-44: Cut-off Wavelength – approved publication
- TIA-455-175 adoption from IEC 60793 Part 1-42: Chromatic Dispersion – approved publication
- TIA-455-176 adoption from IEC 60793 Part 1-20: Fibre Geometry – approved publication
- TIA-455-177 adoption from IEC 60793 Part 1-43: Numerical Aperture – approved publication
- TIA-455-178 adoption from IEC 60793 Part 1-32: Coating Stripability – will be rebaloted



## Closing Plenary Meeting Report

- TIA-455-67 adoption from IEC 60793 Part 1-51: Dry Heat – approved publication
- TIA-455-74 adoption from IEC 60793 Part 1-53: Water Immersion – approved publication
- TIA-455-160 adoption from IEC 60793 Part 1-50: Damp Heat (Steady State) – approved publication
- TIA-455-122 adoption from IEC 60793 Part 1-48: Polarization Mode Dispersion – approved publication

TR-42.12 issued a ballot to adapt IEC 60793-2:2019 edition 9 (Optical fibres - Part 2: Product specifications – General) as ANSI/TIA-4920000-C. The ballot will close Dec 7, 2020.

TIA-455-244 (FOTP-244), Temperature cycling of expressed tubes was published on Sept 18, 2020.

TIA-455-111 (FOTP-111), fiber curl, adoption of IEC 60793-1-34 is still in discussion and has not yet been balloted. Publication is at least a year out.

The previously planned 'Munsell sheet' round robin to understand the sources of color variability for the revision of ANSI/TIA-598-D (Optical Fiber Color Coding) has been delayed. Until the next in person meeting.

TR-42.12 plans to open ANSI/TIA-492AAAF and ANSI/TIA-492CAAC documents per modified contribution ("TR42.12-2020-10-005 TIA-492 Fiber Designation Cross Reference Revision\_psv\_2020\_10\_07.pptx").

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

Greg Sandels presented TR42-2020-10-154.

TR-42.13 resolved ballot comments on FOCIS 10C (LC Connector) and approved a 1<sup>st</sup> Industry ballot. Comment resolution on the CS connector has been deferred to the February TR-42.13 meeting.

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

There was no NEC Public Input Task Group Report.

### **2.4. Other old business**

There was no other old business.

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

### **3.1. Replacement for TIA Representative for NFPA Panel 16**

Masood Shariff will continue to represent TIA until after the January meeting of NFPA Panel 16. George Zimmerman to confirm deadlines for submitting candidates for submission to NFPA. TR-42 tentatively plans to approve the new primary liaison at the February TR-42 plenary.

### **3.2. Document Sharing Agreement between TIA and IEEE**

Andy Kurtzman provided an update regarding the discussions between TIA and IEEE.

### **3.3. TIA Agenda and Report Templates**

No updates

### **3.4. Output documents**

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



## Closing Plenary Meeting Report

### 3.4.2. IEEE 802.3 and other SDOs

#### 3.4.2.1. IEEE 802.3

- None

#### 3.4.2.2. Other SDOs

The following documents were approved to be sent to other SDOs

- None

### 3.5. New Business

#### 3.5.1. Other New Business

There was no other new business.

### 4. TR-42 Photography Contest

The winner of this week's photo contest is Brian Schuman (brian.jpg) with his photos of sunflowers. The photo also won the photo of the year.

### 5. Action items derived from this meeting

- Greg Sandels to send TR42-2020-10-158a to Open Alliance with draft liaison agreement provided by Cheryl Thibideau (TR42-2020-10-159).
- George Zimmerman to confirm the deadlines for submitting candidates for submission to NFPA Panel 16 and inform TR-42 leadership.
- Henry Franc to distribute draft schedule for the February meeting to TR-42 & subcommittee leadership within two weeks.
- Odd numbered subcommittees (TR-42.1, TR-42.3, TR-42.5, TR-42.7, TR-42.9, TR-42.11 and TR-42.13) will have elections at Feb 2021 meeting. This will need to appear in their agendas for these meetings.
- All TR-42 members to create TIA Connect user IDs and familiarize themselves with functions, particularly with downloading documentation.

### 6. Upcoming Meetings

#### 6.1. Next meeting

6.2. Feb 1-5, 2021 – Date fixed – Virtual

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

- June 7-11, 2021 – Date fixed – Location TBD, preferably in Canada (e.g., Quebec City, Toronto)
- October 4-8, 2021 – tentative date, location TBD

#### 6.4. Meeting schedule for next meeting





## Closing Plenary Meeting Report

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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.

### 7. Adjournment

The meeting was adjourned at 11:22 AM CDT

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

### AVAILABILITY OF MEETING DOCUMENTS:

All meeting attendees are instructed to download contributions and other meeting documents from the TIA TR42 FTP site (<http://ftp.tiaonline.org/TR-42/>) before the meeting.

To access the User Name and Password, please follow the directions below:

- o Go to <https://www.tiaonline.org/all-standards/committees/admin>
- o Enter your *User Name* (your email address in the TIA database)
- o Enter your *Password*
- o Click "Go"
- o Click "*Committee Member Tools*" (if you do not automatically land on this page)
- o On right navigation bar, under "*General*", click "*Your Committee Tools Dashboard*"
- o You will see "*Committee Tools Dashboard*" on top, under "**Your Committees**" you will see FTP User Name and Password in **red text** next to "FTP UN" and "PW"

### 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 the TR42 FTP site 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 FTP folders by the EDC as soon after receipt as possible, preferably within one business day. Notification of the posting shall be made to the group's email reflector list by the EDC within one working day of the posting. All contributions shall be posted to the appropriate location on the TIA FTP site 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).

### LATE CONTRIBUTIONS:

Contributions 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 the TR-42 FTP site 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 |