



Telecommunications Industry Association

1310 North Courthouse Road, Suite 890
Arlington, VA 22201 | www.tiaonline.org

Approved by General Counsel

TR-42 Closing Plenary Meeting

Date: 09 June 2023

Location: Omaha, NE

Approved: 10 July 2023



Closing Plenary Meeting Report

TR-42 Telecommunications Cabling Systems Engineering Committee

Date: June 9, 2023
 Time: 8:00AM-11:30AM CDT
 Location: Omaha, NE & Hybrid Virtual GoToWebinar
 Chair: Henry Franc
 Vice Chair: Cindy Montstream
 Secretary & EDC: Jonathan Jew

1. Administrative/General Business

1.1. Call to Order

The chair, Henry Franc, called the meeting to order at 8:00 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
Aekins	Robert	Legrand	Kumar	Anand	RiT Tech
Allen	William	OFS	Lambert	Angela	Corning
Angra	Nik	AFL	Larsen	Wayne	CommScope
Barrera	Dan	Trend Networks	Lenz	Sean	Panduit
Broughton	Adam	Sumitomo	Locker	Chris	Google

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Buchter	Shelly	US Conec	Martis	Nash	Morrison Hershfield
Celella	Brian	Siemon	McGarry	Tom	TIA
Chiou	Dachen	Dan-Chief	Mitchell	Victoria	TIA
Clampitt	Zach	CommScope	Montstream	\Cindy	Legrand
Connaughton	Mike	Leviton	Ninomiya	Tiger	SENKO
DiMinico	Christopher	MC Communications	Ochoa	Miguelangel	ITTERA
Drenovsky	Jeff	ESD	Pace	Joe	Delta Comp Cons
Dupuis	Marc	Winchester Interconnect	PATIL	M V	Data Ctr Media
Ehredt	Al	Telegartner	Payton	Scott	GDCE
Eischens	Scott	CommScope	Pelletier	Antoine	Intertek
Eisele	Steve	Data Ctr Systems	Pickles	Tim	Surtec
Emplit	Ray	Harger	Poulsen	Jeffrey	Leviton
Fluet	Jacques	TIA	Pressey	Jacquelynn	NAVAir
Forbes	Diane	NIS	Richard	Alex	Legrand
Ford	Christin	Superior Essex	Royer	Tyler	SENKO
Franc	Henry	Belden	Savi	Olindo	Hubbell
Garza	Eduardo	Proterial	Schmalzigaug	Thomas	Huber Suhner
Gilbert	Jim	DXC Technology	Shubochkin	Roman	OFS
Harpel	Todd	Leviton	Shuman	Brian	Belden
Hess	Dave	Cord Data	Smith	Dan	Nest Tech Svcs
Huffman	Derek	Corning	Stikeleather	Derrick	OCC
Irwin	Phil	Panduit	Tapashetti	Sunil	Data Ctr Media
Jahani	Hamid	Santec	Tassone	Anthony	UL
Jenkins	Teesha	TIA	Tellas	Ronald	Belden
Jew	Jonathan	J&M Consultants	Voss	Bob	Panduit
Jimenez	Andrew	Wesco	Winston	William	Fluke
Jones	Richard	Data Comm Stds	Woodman	Brad	Molex
Judson	Ward	nVent Electric	Xu	Sunny	CommScope
Kozischek	David	Corning			

1.3. Current Meeting Agenda Review and Approval

The meeting agenda (TR42-2023-06-049) was approved without objection.

1.4. Previous Meeting Report Review and Approval

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The meeting report for the previous meeting (TR42-2023-01-040a) 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 TIA Connect in the TR-42 Telecommunications Cabling Systems community, under Documents, in the TR-42 Telecommunications Cabling Systems/2023 Meetings/2023-06 Omaha Hybrid folder.

Document #	Title	Company	Contributor
2023-01-040a	TR-42 Closing Plenary Meeting Report February 2023	TR-42	Jew
2023-06-049	TR-42 Closing Plenary Agenda June 09 2023	TR-42	Franc
2023-06-059	NFPA Public Input Task Group Report	TR-42	Tellas
2023-06-071	TR-42.1 Closing Plenary Review	TR-42.1	Montstream
2023-06-072	TR-42.3 Closing Plenary Review	TR-42.3	Montstream
2023-06-073	TR-42.5 Closing Plenary Review	TR-42.5	Tellas
2023-06-074	TR-42.7 Closing Plenary Review	TR-42.7	Larsen
2023-06-075	TR-42.9 Closing Plenary Review	TR-42.9	Shuman
2023-06-076	TR-42.11 Closing Plenary Review	TR-42.11	Irwin
2023-06-077	TR-42.12 Closing Plenary Review	TR-42.12	Kozischek
2023-06-078	TR-42.13 Closing Plenary Review	TR-42.13	Xu

2. Old Business

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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

Cindy Montstream presented TR42-2023-06-071.

TR-42.1 approved a recirculation ballot for ANSI/TIA-758-C (*Customer-Owned Outside Plant*) limited to technical changes.

TR-42.1 will submit ANSI/TIA-5017-A (Security) for a committee ballot after the June meeting.

TR-42.1 resolved one editorial comment for ANSI/TIA-1179-A (*Health Care*) and approved publication.

TR-42.1 resolved ballot comments for TIA-570-E (Residential Revision) and approved a recirculation ballot.

TR-42.1 resolved recirculation ballot comments to TIA-942-C (*Data Center Telecommunications Infrastructure*) and approved another recirculation ballot limited to technical changes.

TR-42.1 approved a project authorization to create a TSB with the application tables from ANSI/TIA-568.0-E with Sunny Xu as the editor.

TR-42.1 approved the consolidation of 568.0, 568.1, and 862 with Ray Emplit as editor of the consolidated 568.1 document. A draft and PAR will be reviewed at the September meeting.

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

Cindy Montstream presented TR42-2023-06-072.

TR-42.3 resolved ballot comments to ANSI/TIA-607-E and agreed to a recirculation ballot limited to the modified text.

TR-42.3 reviewed the draft to TIA-569-F and agreed to defer the issuing a ballot until the September meeting to allow the editor to incorporate additional content from TIA-568.1 resulting from the merging of TIA-568.0 and TIA-568.1.

2.2.3. TR-42.5 – Telecommunications Infrastructure Terms and Symbols

Cindy Montstream presented TR42-2023-06-073 on behalf of Ron Tellas.

TR-42.5 rejected the definition for longitudinal balance, accepted the update to the definition for catcher, accepted the correction of the acronym DCIM, and added acronyms DHC, IBC, SDC and SLD.

2.2.4. TR-42.7 – Telecommunications Copper Cabling Systems

Wayne Larsen presented TR42-2023-06-074.



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TR-42.7 mostly resolved ballot comments to TIA-TSB-184-A-2, *power delivery over single-pair cabling*. Further work is on hold awaiting progress on ANSI/TIA-568.5-1

TR-42.7 resolved ballot comments to ANSI/TIA-568.5 addendum 1 (*corrections to TIA-568-5 single-pair cabling*) and authorized the 4th industry ballot.

TR-42.7 resolved ballot comments on industry ballot for ANSI/TIA-568.2-E, agreed to circulate 2nd ballot.

TR-42.7 approved project and PAR for revision of TSB-190 (shared sheath), to update references, and make any other needed changes.

2.2.5. TR-42.9 – Industrial Telecommunications Infrastructure

Brian Shuman presented TR42-2023-06-075.

TR-42.9 completed 1st industry ballot resolution to TIA-1005-B (*Industrial Premises*) and deferred implementing the changes pending clarification of the ANSI requirements.

TR-42.9 is waiting for the ballot to close on TIA-568.7 (*Industrial Single-Pair Ethernet*) . The scheduled date is June 19, 2023.

2.2.6. TR-42.11 – Optical Fiber Systems

Phil Irwin presented TR42-2023-06-076.

TR-42.11 reviewed contributions to addendum 1 to TIA-568.3-E. Work on the draft continues.

2.2.7. TR-42.12 – Optical Fibers and Cables

David Kozischek presented TR42-2023-06-077.

The ballot for TIA-455-3 (FOTP-3) *Temperature Ramps and Precision* ballot closes at the end of June. There are currently no changes from previous version of document.

TR-42.12 resolved ballot comments to ANSI/TIA-4920000-C adaption (adopt with modifications) of IEC 60793-2:2019 and approved publication with inclusion of accepted editorial comments.

The ballot for ANSI/TIA 492AAAF *Multimode* (adopt with modifications of IEC 60793-2-10:2019) closes in July and will be resolved at the next meeting.

TIA-455-133-A (05/2003) adoption of the IEC 60793-1-22:2001 Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement has no action until IEC 60793-1-22 is published.

TIA-455-203-A (03/2009) FOTP-203 adoption of IEC 61280-1-4 *Fibre Optic Communication Subsystem Test Procedures – Part 1-4: General Communications Subsystems – Light Source Encircled Flux Measurement Method* – TR-42.12 will create a PAR as IEC 61280-1-4 is published.

TIA-455-204-A (10/2013) adoption of the IEC 60793-1-41:2010 *Optical fibres Part 1-41: Measurement methods and test procedures – Bandwidth* has no action until IEC 60793-1-41 is published in 2024.

ANSI/TIA-598-D (Optical Fiber Cable Color Coding) revision is under development.



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TR-42.12 reviewed and voted on actions for:

- FOTPs that are over 10 years old
- FOTPs that will be over 10 years old in 2024.
- FOTPs that will be 5-9 years old in 2024

TR-42.12 reviewed the ICEA report.

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

Sunny Xu presented TR42-2023-06-078.

Ballots closed for three standards without comment. TR-42.13 approved publication for all three:

- ANSI/TIA-621.1 (Adoption of IEC 61755-1:2022) SM - General and Guidance
- ANSI/TIA-622.1 (Adoption of IEC 61755-2-1:2022) SM - Non-angled
- ANSI/TIA-622.2 (Adoption of IEC 61755-2-2:2022) SM - Angled

TR-42.13. approved publication of ANSI/TIA 622.4 (Adoption of IEC 61755-2-4 - *Fibre optic interconnecting devices*) at the previous meeting

TR-42.13. approved publication of ANSI/TIA 622.5 (Adoption of IEC 61755-2-5 - *Fibre Optic Interconnecting Devices And Passive Components – Connector Optical Interfaces – Part 2-5: Connection Parameters Of Non-Dispersion Shifted Single-Mode Physically Contacting Fibres – Angled For Reference Connection Applications*) at the previous meeting

TR-42.13 reviewed two presentations:

- Modeled Connector Loss in Bend Optimized Multimode Fiber Links - OFS
- Development of Best Practices and Guidelines for the Use of Expanded Beam Connectors in Data Center Applications – Senko/iNEMI/IWCS

TR-42.13 continued IEC adoption projects:

- IEC 61753-1 (Performance Standard) – To be reviewed at the September meeting.
- IEC 61755-3 (SM Connector Interface Series) – Motion passed to initiate two adoption projects.
- IEC 63267 (MM Connector Optical Interface Series) – Motion passed to initiate two adoption projects.

TR-42.13 reviewed all published TR42.13 document list, which includes many standards older than 10 years. TR-42.13 formed a task group to review the document list in detail and provide recommended courses of action.

TR-42.13 requests an accurate and up-to-date TIA document database

2.3. NEC Public Input Task Group

TR-42 approved 2023-06-059, the recommendations of the NEC Public Input Task Group.

2.4. Other old business

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There was no other old business.

3. New Business and output documents

3.1. TIA Agenda and report new templates

There are new templates for ballot comments (TR42-2023-06-045) and ballot authorizations (TR42-2023-06-044). These and other documents will continue to be updated as the ANSI Audit proceeds. The latest forms are posted in TIA Connect.

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

3.3.1. Merging of Standards and Subcommittees

This was discussed in the Opening Plenary and subcommittees.

3.3.2. IEEE 802.24 Vertical Applications

Chris DiMinico suggested that TR-42 develop a relationship with IEEE 802.24 and will send a liaison from them to TR-42.

3.3.3. Other New Business

There was no other new business.

4. TR-42 Photography Contest

The winner this meeting's photo contest is Jellyfish by Phil Irwin.

5. Action items derived from this meeting & leadership meeting

ANSI AUDIT

- a) TIA to specify if we can exclude from limited recirculation ballots any comments that are marked technical but make no substantial changes to a requirement.



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- b) TIA to determine if they can modify the voting pool for determining participation for closing ballots to only count organizations that are submitting votes (e.g., not counting voters that have not voted in the last 3 subcommittee's ballots).
- c) TR-42 editors and leadership to develop methods to implement ANSI requirements for determining changes to documents.
- d) TIA to work with TR-42 leadership to correct the balloting process, particularly for recirculation ballots, and to clarify the results of the ANSI audit.
- e) TIA Legal to review the TR-42 Editor's Guide and provide a changed tracked version with any proposed revisions.
- f) Will TIA require that we follow the same process for ballots for TIA-only ballots as ANSI ballots.
- g) Can we only publish sections of the document with technical comments or do we need to publish the entire document when publishing a recirculation ballot.
- h) Do we need to another recirculation lot if we have a limited ballot and receive either technical comments or no votes.
- i) We request a written description of rules for recirculation ballots, particularly around documentation required, recommended, and allowed.
- j) What does documentation for what used to be a default ballot look like, including the documentation of the changes and the document to which voters will comment.
- k) Balloting comments – how to resolve comments that are open ended (e.g., without proposed changes to the text).
- l) Who decides what standards should be ANSI or TIA only? Do adaption and adoptions of IEC standards need to be ANSI standards?
- m) What are the rules title documents that are being adapted and adopted?

GENERAL

- n) Perform GoToWebinar, projector, and audio checks at least 15 minutes before each meeting. The first group that starts in the room in the morning should do their checks 30 minutes prior to the meeting.
- o) Make Opening Plenary more efficient.
- p) TR-42 requests a database of TR-42 standards including name, number, date of publication, subcommittee, ANSI or TIA. if possible add automated performance metrics to TR-42 standards database so that TR-42 leadership can be notified of deadlines, etc.
- q) TIA to continue discussions with ICEA regarding updating of FOTP documents and provide status to TR-42 leadership.



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- r) TIA to develop a method for access to the TIA Working Dictionary.
- s) TIA to develop a list of relevant TIA standards and how to reference them for NFPA and other SDOs.
- t) Henry Franc to send a notification to ICEA regarding the appointment of Dave Kozischek as the liaison from TIA TR-42.
- u) -Chris DiMinico to send a liaison letter from IEEE 802.24 to TIA TR-42

NOTES

- v) Late Sept target date to obtain results from ANSI. If we have a special audit, there will be a 6-month period during which we can't submit forms to publish standards as ANSI standards, though they can be published initially as TIA standards.
- w) Main ANSI issue is the provide documentation regarding substantive changes from the previous version, which was described in the presentation from TIA.
- x) Teesha Jenkins noted that we are not required to follow the ANSI schedule for ballots, we can issue 30, 45, or 60-day ballots.

6. Upcoming Meetings

6.1. Next meeting

- September 25-29 2023, Tulsa, OK hybrid (date and location fixed)

6.2. Subsequent meetings

- February 5-9 2024, hybrid (date fixed, location TBD) *note will select 2025 dates at this meeting.
- June 3-7 2024 hybrid (date fixed, location TBD)
- October 7-11 2024 hybrid (date fixed, location TBD)
- TR-42 resolved to hold hybrid meetings through 2024.
- TR-42 requests no hotels with 'Airport' in the name.
- TIA requests at least 6 months for meeting planning for face-to-face meetings.
- Attendees are requested to use the TIA meeting codes when making reservations to ensure that TIA avoid penalties incurred by not meeting its room commitment.

7. Meeting schedule for September 2023

The meeting schedule for the next meeting will be developed by correspondence with 1 ½ hour breaks for lunch.

TR-42 will implement flex scheduling at the next meeting. Attendees must register for the meeting with GoToWebinar to receive notifications if the start time changes and to be registered as an attendee for quorum.

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The Chair of the following meeting will determine the time between meetings (e.g., 15 or 30 minutes) and request TIA to change the meeting on GoToWebinar so that the notification will be sent out.

An email notification of the new start time should also be sent by the chair to all TR-42 members via TIA Connect at TIA-TR42@ConnectedCommunity.org

8. Adjournment

The meeting was adjourned at 9:30 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) before the meeting.

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

- o Go to 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).

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

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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:

Henry Franc, Chair	henry.franc@belden.com	+1 416-476-1336
Cindy Montstream, Vice-Chair	Cindy.montstream@legrand.com	+1 860-208-5261
Jonathan Jew, EDC & Secretary	jew@j-and-m.com	+1 415-515-4304

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