



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: 18 June 2021

Location: Teleconference

Approved: 28 June 2021



Closing Plenary Meeting Report

TR-42 Telecommunications Cabling Systems Engineering Committee

Date: June 18, 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	Judson	Ward	nVent
Barrera	Dan	Trend Networks	Khan	Mohammad	STL
Born	Steve	Superior Essex	Kozischek	David	Corning
Broughton	Adam	Sumitomo	Kuniyoshi	Cristina	Furukawa
Buchter	Shelly	US Conec	Kurtzman	Andy	TIA
Ceella	Brian	The Siemon Co	Larsen	Wayne	CommScope

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Chiou	Dachen	DCT	Maguire	Valerie	The Siemon Co
Cornelison	Ken	Hitachi	Montstream	Cindy	Legrand
Dawson	Fred	Chemours	Morris	Dan	KITCO
Dearing	Mark	Leviton	Ninomiya	Tiger	Senko
DiMinico	Christopher	MC Comm	Pelletier	Antoine	Intertek
Ehredt	Al	Telegartner	Provost	Lionel	Prysmian
Ellis	Mark	Stewart Conn	Sandels	Greg	OFS
Emplit	Ray	Harger	Savi	Olindo	Hubbell
Forbes	Diane	NIS	Schmalzigaug	Thomas	Huber+Suhner
Ford	Christin	Superior Essex	Shubochkin	Roman	OFS
Franc	Henry	Belden	Shuman	Brian	Belden
Gastle	Ed	Viavi	Tassone	Anthony	UL
Goldstein	Seymour	Fluke	Tellas	Ronald	Belden
Hess	Dave	Cord Data	Valentukonis	Dave	The Siemon Co
Huffman	Derek	Corning	Voss	Bob	Panduit
Irwin	Phil	Panduit	Winston	William	Fluke
Jahani	Hamid	JGR Optics	Woodman	Brad	Molex
Jew	Jonathan	J&M	Xu	Sunny	Commscope
Jimenez	Andrew	Anixter	Young	James	Commscope
Jones	Richard	Datacom Stds	Zimmerman	George	CME Consulting
Jones	Cameron	ODVA/Rockwell			

1.3. Current Meeting Agenda Review and Approval

The meeting agenda (TR42-2021-06-062) was approved without objection

1.4. Previous Meeting Report Review and Approval

The meeting report for the previous meeting (TR42-2021-02-043) 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



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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/2021-06 Virtual folder:

Document #	Title	Company	Contributor
2021-02-043	TR-42 Closing Plenary Meeting Report Feb Virtual	TR-42	Jew
2021-06-062	TR-42 Closing Plenary Agenda Virtual June 18 2021	TR-42	Sandels
2021-06-084	TR-42.1 Closing Plenary Review	TR-42.1	Forbes
2021-06-085	TR-42.3 Closing Plenary Review	TR-42.3	Montstream
2021-06-086	TR-42.5 Closing Plenary Review	TR-42.5	Forbes
2021-06-087	TR-42.7 Closing Plenary Review	TR-42.7	Larsen
2021-06-088	TR-42.9 Closing Plenary Review	TR-42.9	Woodman
2021-06-089	TR-42.11 Closing Plenary Review	TR-42.11	Irwin
2021-06-090	TR-42.12 Closing Plenary Review	TR-42.12	Van Vickle
2021-06-091	TR-42.13 Closing Plenary Review	TR-42.13	Sandels
2021-06-095	TR-42 Response to ICEA re Collaboration	TR-42.12	Van Vickle
2021-06-096	TR-42 Liaison to ASHRAE TC 9.9	TR-42.3	Jew
2021-06-097	Free Exchange of Ideas	TIA	McGarry
2021-06-098	TR-42 Liaison to NFPA	TR-42.3	Montstream
2021-06-099	TR-42 Liaison to IEEE re FOTP-455-30	TR-42.12	Van Vickle
2021-06-100	TR-42 Liaison to IEEE re FOTP-455-54	TR-42.12	Van Vickle
2021-06-101	TR-42 Liaison to ICEA re FOTP-455-124	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.

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2.2. Subcommittee reports and plenary action

2.2.1. TR-42.1 – Premises Telecommunications Infrastructure

Diane Forbes presented TR42-2021-06-084.

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 3rd industry ballot to be issued for ANSI/TIA-758-C (Customer-Owned Outside Plant).

TR-42.1 resolved industry ballot comments to TIA-862-C (Intelligent Buildings) and approved a default ballot.

TR-42.1 resolved 2nd committee ballot comments to TIA-942-B-1 (Edge Data Centers) and approved the 1st industry ballot.

TR-42.1 is waiting for the 2nd industry ballot to be issued for TIA-4966 (Education).

TR-42.1 issued a new project request for TIA-942-C (Data Centers), with work to commence after TIA-942-B-1 is published. Jonathan Jew will be the editor.

TR-42.1 issued a new project request for ANSI/TIA-1179-A (Health Care). Dave Kozischek will be the editor.

TR-42.1 issued a new project request for ANSI/TIA-5017 (Security) and needs a volunteer for the editor.

TR-42.1 deferred decision on revision or reaffirmation of TIA-TSB-185 (MICE) until the next meeting.

TR-42.1 agreed to review TIA-TSB-5018 (DAS) and decide in the next meeting if it should be elevated to a standard.

TR-42.1 agreed to withdraw ANSI/TIA-4994 (Standard for Sustainable ICT) and TIA-TSB-5046 (Sustainability for Manufacturers).

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

Cindy Montstream presented TR42-2021-06-085.

The default ballot for ANSI/TIA-5048 (AIM for Remote Powering), adoption of ISO/IEC 18598-1 closed prior to the meeting and ANSI/TIA-5048 was published.

TR-42.3 resolved the 1st industry ballot of TIA-606-D (Administration) and approved a 2nd industry ballot.

TR-42.3 resolved the 1st industry ballot and approved publication of TIA-607-D-1 to harmonize the work done by TR-14 (TIA-222 – Antenna Support Structures) and TR-42.3 (TIA-607 – Bonding & Grounding).

TR-42.3 approved a liaison to ASHRAE TC 9.9 requesting a copy of the revision (5th edition) of ASHRAE Thermal Guidelines for Data Processing Environments, which is referenced by TIA-569.



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Cindy Montstream reviewed her contribution regarding the impact of interpretation on a new NEC article 250.121(b) on the validity of ANSI/TIA-607. Some fire marshals have interpreted the article to conflict with ANSI/TIA-607. Because ANSI/TIA-607 does not cover equipment grounding conductors, there is no conflict. However, TR-42.3 agreed to send liaison letter to NFPA to request an official clarification of the article.

TR-42 reviewed and approved the following outgoing liaisons originating from TR-42.3

- TR42-2021-06-096 TR-42 Liaison to ASHRAE TC 9.9
- TR42-2021-06-098 TR-42 Liaison to NFPA.

2.2.3. TR-42.5 – Telecommunications Infrastructure Terms and Symbols

Diane Forbes presented TR42-2021-06-086.

The definition for 'cage' was added. One definition was revised (telecommunications bonding conductor replaces bonding conductor for telecommunications). The definition for 'edge data center' was deferred.

Eleven new acronyms were added.

2.2.4. TR-42.7 – Telecommunications Copper Cabling Systems

Wayne Larsen presented TR42-2021-06-087.

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

TR-42.7 decided to produce an amendment to 184-A instead of a new TSB. The project request will be reviewed in October. Anthony Tassone is the editor, Todd Harpel is leading the task group studying temperature rise.

TR-42.7 is waiting for the close of the reaffirmation ballot of ANSI/TIA-1152A, Requirements for field test instruments and measurements for balanced twisted-pair cabling.

2.2.5. TR-42.9 – Industrial Telecommunications Infrastructure

Brad Woodman presented TR42-2021-06-088.

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 reviewed the draft and contributions for TIA-568.7 Industrial Single-Pair Ethernet (SPE) standard.

2.2.6. TR-42.11 – Optical Fiber Systems

Phil Irwin presented TR42-2021-06-089.

TR-42.11 resolved industry ballot comments to ANSI/TIA-568.3-E (Optical Fiber Cabling and Components) and approved issuing the 3rd industry ballot.



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TR-42.11 is waiting for July 12, the closing date of the ballot for TIA-526-14-D (Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant) adoption of IEC 61280-4-1 ed.3 2019.

TR-42.11 completed comment resolution and agreed to publish ANSI/TIA-526.28 (Attenuation Measurement of MPO) adoption of IEC 61280-4-5:2020.

TR-42.11 approved a reaffirmation ballot for ANSI/TIA-526-7-A (Measurement of Single-Mode Fiber Cable Plant).

2.2.7. TR-42.12 – Optical Fibers and Cables

Roman Shubochkin presented TR42-2021-06-090 on behalf of Patrick Van Vickle.

TR-42.12 is waiting for July when the ballot closes for TIA-455-3 (FOTP-3) Temperature Ramps and Precision.

TR-42.12 deferred progress on TIA-455-111 (FOTP-111), Fiber Curl (adoption of IEC 60793-1-34).

TR-42.12 is checking on the status of any revision to IEC 60793-2:2019 ed.9 before making a decision on adapting it as ANSI/TIA-4920000-C.

TR-42.12 decided to publish and errata instead of revising TIA-492AAAF (adaption of 60793-2-10:2019).

TR-42.12 decided to publish and errata instead of revising ANSI/TIA-492CAAC (adaption of 60793-2-50:2018)

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

TR-42.12 confirmed publication of

- TIA-455-80 adoption of IEC 60793 Part 1-44 (Cut-off Wavelength):
- TIA-455-178 adoption from IEC 60793 Part 1-32 (Coating Stripability).

TR-42.12 plans to issue ballots for:

- 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 a adoption of IEC-61280-1-4 Fibre Optic Communication Subsystem Test Procedures - Part 1-4: General Communication Subsystems (Light Source Encircled Flux Measurement Method):

TR-42.12 would like the withdraw the following standards and approved liaisons to organizations that have standards that reference them before approving their withdrawal:

- FOTP 30 - Frequency Domain Measurement of Multimode Optical Fiber Information Transmission Capacity – referenced by IEEE documents.
- FOTP 54 - Mode Scrambler Requirements for OFL Conditions to Multimode Fibers – referenced by IEEE documents.



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- FOTP 124 - PMD Measurement for Single-Mode Optical Fibers by Interferometry – referenced by ICEA documents.

TR-42.12 drafted a response to the ICEA liaison regarding collaboration for cable test methods.

TR-42 reviewed and approved four outgoing liaison letters originating from TR-42.12:

- TR42-2021-06-095 TR-42 Response to ICEA re Collaboration
- TR42-2021-06-099 TR-42 Liaison to IEEE re FOTP-455-30
- TR42-2021-06-100 TR-42 Liaison to IEEE re FOTP-455-54
- TR42-2021-06-101 TR-42 Liaison to ICEA re FOTP-455-124

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

Greg Sandels presented TR42-2021-06-091.

TR-42.13 approved publication of FOCIS 10C (LC Connector) as there were no comments or negative votes to the default ballot.

TR-42.13 resolved industry ballot comments and approved publication of FOCIS 19 (CS connector).

2.3. NEC Public Input Task Group

There was no NEC Public Input Task Group Report.

2.4. Replacement for TIA Representative for NFPA Panel 16

TR-42 would like to appoint Jeff Poulsen of Leviton is appointed as its primary representative to NFPA Code Making Panel 16. Greg Sandels to sent a letter to NFPA.

2.5. Document Sharing Agreement between TIA and IEEE

There are no more issues regarding document sharing between TIA and IEEE.

2.6. Other old business

There was no other old business.

3. New Business and output documents

3.1. TIA Agenda and report new templates

TR-42 reviewed 2021-06-097 Free Exchange of Ideas.

3.2. Output documents

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

- ANSI/TIA-568.5 (single-pair cabling) from TR-42.7 after resolution of the last ballot.

3.2.2. IEEE 802.3

- None



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3.2.3. US TAG to IEC TC 46

- ANSI/TIA-5071 (field testing of single-pair cabling) from TR-42.7. Wayne Larsen has sent the document to Dave Hess. Dave Hess will confirm if he received the document after the meeting.

3.2.4. Other SDOs

The following documents were approved to be sent to other SDOs

- None

3.3. New Business

3.3.1. Other New Business

There was no other new business.

4. TR-42 Photography Contest

The winner this meeting's photo contest was Ruger & TR42.1 Agenda by Cindy Montstream.

5. Action items derived from this meeting

- TR-42 to review methods to improve vote counting during meetings using the meeting tools. We should permit a request for a verbal count to be taken or request that the chairs specify the names of the people that are vote at each stage (for, against, abstain).
- Greg Sandels to submit a letter of support from TIA to NFPA for Jeff Poulsen the primary representative for TR-42 on NFPA CMP 16.
- Henry Franc to distribute draft schedule for the October meeting to TR-42 & subcommittee leadership.
- Greg Sandels to send the following outgoing liaison letters:
 - TR42-2021-06-096 TR-42 Liaison to ASHRAE TC 9.9
 - TR42-2021-06-098 TR-42 Liaison to NFPA.
 - TR42-2021-06-095 TR-42 Response to ICEA re Collaboration
 - TR42-2021-06-099 TR-42 Liaison to IEEE re FOTP-455-30
 - TR42-2021-06-100 TR-42 Liaison to IEEE re FOTP-455-54
 - TR42-2021-06-101 TR-42 Liaison to ICEA re FOTP-455-124
- Cheryl Thibideau to confirm requested Oct 4-8 meeting dates & TR-42 leadership to determine potential conflicts.
- Cheryl Thibideau to send a poll regarding preference regarding the week of either Jan 24 or Feb 7, 2022, and their preference regarding hybrid meetings.
- Greg Sandels to call a leadership meeting in July regarding the October schedule.

6. Upcoming Meetings

6.1. Next meeting

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- Preferred dates October 4-8 instead of Oct 18-22, 2021- Virtual, TIA to confirm shortly (minor conflict with IEC meetings but better than original dates)

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

- Results of the poll regarding face-to-face meetings in Feb 2020: 45 yes (71%), 11 no (18%), 7 no response (11%). This may change depending on travel restrictions (company, origin and destination governments)
- Jan 24-28 or Feb 7-11, 2022 - date to be determined by poll to be sent to TR-42 by Cheryl Thibideau. Meeting to be virtual (18 in favor, 7 opposed).
- TIA requests at least 6 months for meeting planning for face-to-face meetings.

7. Meeting schedule for October 18-22, 2021

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 11:39 AM CDT.

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

AVAILABILITY OF MEETING DOCUMENTS TO NON-MEMBERS:

All TIA non-members can download contributions and other meeting documents before the meeting by accessing the following TR-42 Standalone Library: <https://connect.tiaonline.org/communities/community-home/librarydocuments?LibraryKey=3EAA9087-C7B2-4503-9DFB-C3787088B28D>

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 "2021-06 Virtual" folder

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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 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

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