



Approved by General Counsel

TR-42 Meeting Report

Date(s): 01/31/2020 - 01/31/2020

Location: New Orleans, LA

Approved: 02/25/2020



Closing Plenary Meeting Report

TR-42 Telecommunications Cabling Systems Engineering Committee

Date: January 31, 2019
 Time: 9:00-12:00
 Location: Omni Riverfront Hotel
 701 Convention Center Blvd
 New Orleans, LA 70130
 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 8:30 AM
 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 | Company | Attendee | Company |
|-----------------|--------------------|---------------------|------------------------|
| Ahmed, Adnan | R&M | Kuniyoshi, Cristina | Furukawa |
| Ceella, Brian | The Siemon Company | Larsen, Wayne | CommScope |
| Cornelison, Ken | Hitachi | McNutt, Christopher | Superior Essex |
| Dearing, Mark | Leviton | Mikhol, Sergey | Surenet Technologies |
| Ehredt, Allen | Telegartner | Montstream, Cindy | Legrand |
| Emplit, Ray | Harger | Patel, Arvind | AEM |
| Fluet, Jacques | TIA | Payton, Scott | Global Data Center Eng |
| Forbes, Diane | NIS | Sandels, Greg | OFS |
| Franc, Henry | Belden | Shariff, Masood | CommScope |
| Harpel, Todd | Berk-Tek | Shuman, Brian | Belden |



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| | | | |
|-----------------|-----------------|--------------------|------------|
| Hess, Dave | CORD DATA | Stafford, Vicki | Intertek |
| Irwin, Phillip | Panduit | Tellas, Ron | Belden |
| Jenkins, Teesha | TIA | Todd, Scott | IDEAL |
| Jew, Jonathan | J&M Consultants | VanVickle, Patrick | Sumitomo |
| Jones, Cameron | ODVA/Rockwell | Woodman, Brad | Molex Inc. |
| Keller, David | Rosenberger | Xu, Sunny | CommScope |

1.3. Current Meeting Agenda Review and Approval

The revised meeting agenda (TR42-2020-01-009a) was approved without objection.

1.4. Previous Meeting Report Review and Approval

The meeting report from the September meeting (TR42-2019-09-135) 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. TR-42 committee election

Greg Sandels of OFS was re-elected as the Chair by acclamation

Henry Franc of Belden was re-elected as Vice-Chair of TR-42 by acclamation.

1.7. Subcommittee election results

Patrick Van Vickle of Sumitomo was re-elected as the Chair and Roman Shubochkin of OFS was re-elected as Vice-Chair of TR-42.12.

1.8. TR-42 recognition

TR-42 gratefully recognized Marianna Kramarikova her service to TR-42.

1.9. Distribution of documents and contributions

The following documents were distributed on the TR-42 FTP site:

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| Document # | Title | Company | Contributor |
|--------------|--|----------|-------------|
| 2019-09-135 | TR-42 Closing Plenary Meeting Report Albuquerque | TR-42 | Franc |
| 2020-01-009a | TR-42 Closing Plenary Agenda New Orleans Jan 31 2020 | TR-42 | Sandels |
| 2020-01-034a | TR-42.1 Closing Plenary Review | TR-42.1 | Cody |
| 2020-01-035 | TR-42.3 Closing Plenary Review | TR-42.3 | Montstream |
| 2020-01-036 | TR-42.5 Closing Plenary Review | TR-42.5 | Tellas |
| 2020-01-037 | TR-42.7 Closing Plenary Review | TR-42.7 | Larsen |
| 2020-01-038 | TR-42.9 Closing Plenary Review | TR-42.9 | Woodman |
| 2020-01-039 | TR-42.11 Closing Plenary Review | TR-42.11 | Irwin |
| 2020-01-040 | TR-42.12 Closing Plenary Review | TR-42.12 | Van Vickle |
| 2020-01-041 | TR-42.13 Closing Plenary Review | TR-42.13 | Sandels |
| 2020-01-045a | TR-42 liaison to IEEE 802.3 on BASE-T1 isolation | TR-42.9 | Jones |
| 2020-01-046 | TR-42.9 Project Request for Industrial SPE | TR-42.9 | Woodman |

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

Diane Forbes presented TR42-2020-01-034a on behalf of Joe Cody

TR-42.1 approved the publication of ANSI/TIA-568.0-E (Generic).

TR-42.1 resolved mock ballot comments to TIA-568.0-E-1 (single balanced twisted-pair use cases and topology) and approved a PAR to begin work on this addendum.

TR-42.1 approved the publication of ANSI/TIA-568.1-E (Commercial Buildings)

Comment resolution for ANSI/TIA-758-C (Customer Owned Outside Plant) was not completed. Deferred comments will be reviewed at the next TR-42.1 meeting in June.

TR-42.1 approved a mock ballot for TIA-862-C (Intelligent Buildings) with Ray Emplit as editor.

TR-42.1 resolved committee ballot comments for TSB-162-B (Wireless Access Points) and authorized a third committee ballot.

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

Cindy Montstream presented TR42-2020-01-035.



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TR-42.3 working with TR-14 to harmonize TIA-607-D (Bonding & Grounding) with TIA-222-H (Standard for Antennas and the Supporting Structures for Antennas and Small Wind Turbines).

2.2.3. TR-42.5 – Telecommunications Infrastructure Terms and Symbols

Ron Tellas presented TR42-2020-01-036. Two acronyms were added (SPE and IloT).

2.2.4. TR-42.7 – Telecommunications Copper Cabling Systems

Wayne Larsen presented TR42-2020-01-037.

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

TR-42.7 resolved ballot comments on ANSI/TIA-568.2-D.2 (normative version of TSB-184-A guidelines for remote powering), and authorized a second industry ballot.

TR-42.7 approved reaffirmation of TSB-5019 (High Performance Structured Cabling Use Cases for Data Centers and Other Premises).

TR-42.7 approved circulation of a committee ballot for ANSI/TIA-5071 (Field testing for single-pair cabling).

TR-42.7 approved to PAR and new project for a new TIA Standard for single pair multi-drop cabling, to be published as TIA-568.6; news to be sent to IEEE verbally via liaison; George Zimmerman to lead the single-pair multidrop task group

TR42.7 expects to consider at the next TR-42.7 meeting in June a new project for single-pair cable heating, to be based on ISO TS 29125 which was based on TIA TSB-184-A.

TR-42 expressed its gratitude to Rich Marowsky for many years of contributions and participation in TIA, as this was his last meeting.

2.2.5. TR-42.9 – Industrial Telecommunications Infrastructure

Brad Woodman presented TR42-2020-01-038.

TR-42.9 approved reaffirmation of TIA-1005-A (Industrial Premises).

TR-42.9 plans to initiate work on TIA-1005-B (revision to TIA-1005-A) with a mock ballot at the next meeting. TIA-1005-B will incorporate the information from the canceled addendums TIA-1005-A-2 and TIA-1005-A-3.

TR-42.9 approved a PAR for Balanced single twisted-pair communications cabling and components Standard for Industrial Premises (2020-01-046) that TR-42.9 proposed be assigned the standard number TIA-568.7. There was no objection from TR-42 plenary for the proposed document number. The standard will be named Balanced single twisted-pair communications cabling and components Standard for MICE 2 and MICE 3 Environments.

TR-42.9 presented a draft outgoing Liaison letter to IEEE 802.3 regarding BASE-T1 isolation (2020-01-045a) see 3.2.2.1.

2.2.6. TR-42.11 – Optical Fiber Systems

Phil Irwin presented TR42-2020-01-039.

TR-42.11 resolved ballot comments and approved publication of TSB-5069 (Optical Fiber Channel Polarity for single and double row fiber).

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TR-42.11 approved a project request for ANSI/TIA-568.3-E (Optical Fiber Cabling and Components). TR-42.11 further approved a committee ballot consisting of TIA-568.3-D with content from TIA-568.3-D-1 added.

TR-42.11 approved a project request for TIA-526-14-D (Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant). The ballot will be issued the next meeting after coordination with IEC.

2.2.7. TR-42.12 – Optical Fibers and Cables

Patrick Van Vickle presented TR42-2020-01-040.

IEC 60793-2:2019 (Optical fibres - Part 2: Product specifications – General) was published in November 2019 and is ready for TR-42.12 to issue a ballot to adapt it as ANSI/TIA-4920000-C

TR-42.12 resolved comments and approved publication of the adaption of IEC 60793-2-10:2019 (Sectional specification for category A1 multimode fibres) as ANSI/TIA-492AAAF

TR-42.12 resolved comments and approved publication of the adaption of IEC 60793-2-50:2018 (Sectional specification for class B single-mode fibres) as ANSI/TIA-492CAAC.

TR-42.12 resolved comments and approved publication of TIA-455-82B (FOTP 82) Fluid Penetration.

TR-42.12 resolved comments and approved publication of TIA-455-244 (FOTP-244), Temperature cycling of expressed tubes.

IEC implemented corrections to IEC-60793-1-45 (Mode Field Diameter), which TR-42.12 approved to adopt and publish as TIA-455-191 (FOTP-191).

TR-42.12 approved projects and authorized ballots for the adoption of IEC documents:

- TIA-455-78 adoption from IEC 60793 Part 1-40: Attenuation
- TIA-455-62 adoption from IEC 60793 Part 1-47: Macrobending Loss
- TIA-455-80 adoption from IEC 60793 Part 1-44: Cut-off Wavelength
- TIA-455-175 adoption from IEC 60793 Part 1-42: Chromatic Dispersion
- TIA-455-176 adoption from IEC 60793 Part 1-20: Fibre Geometry
- TIA-455-177 adoption from IEC 60793 Part 1-43: Numerical Aperture
- TIA-455-178 adoption from IEC 60793 Part 1-32: Coating Stripability
- TIA-455-67 adoption from IEC 60793 Part 1-51: Dry Heat
- TIA-455-74 adoption from IEC 60793 Part 1-53: Water Immersion
- TIA-455-160 adoption from IEC 60793 Part 1-50: Damp Heat (Steady State)
- TIA-455-122 adoption from IEC 60793 Part 1-48: Polarization Mode Dispersion

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

Greg Sandels presented TR42-2020-01-041.

TR-42.13 resolved ballot comments on FOCIS 19 (CS Connector) and approved a default ballot.



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TR-42.13 initiated projects to adopt IEC 61753 standards (Ferrule to Ferrule, Fiber to Fiber Optical Interfaces) with two new TIA document number series.

TR-42.13 approved a committee ballot to update ANSI/TIA-604-10-B (LC adapter, plug, and receptacle interfaces)

2.3. NEC Public Input Task Group

Masood Shariff informed the committee that the NEC Input Task Group is dormant but will be meeting twice before the June TR-42 meeting to discuss the 2023 revision of NFPA 70, which will be open input on September 10, 2020 and closing in August 19, 2021. The first draft meeting of the NEC will be January 10 – 23, 2021.

No contributions were received regarding a liaison between TIA and NFPA.

2.4. Other old business

There was no other old business.

3. New Business and output documents

3.1. TIA Agenda and Report Templates

TR-42 and its subcommittees should be using the new TIA agenda and report templates. Please note that agendas must be named 'Agenda and Meeting Notice' to meet ANSI requirements.

All subcommittees should list the status of its standards and TSBs.

Meeting agenda/notice and report templates revised during the plenary were distributed to the chairs and posted in the FTP folder: /TR-42/TR-42_MAIN/Public/Meeting Agenda & Report Template

3.2. Output documents

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

- ANSI/TIA-568.5 draft including resolution of ballot comments from this week's meeting (if ready)

3.2.2. IEEE 802.3 and other SDOs

3.2.2.1. IEEE 802.3

TR-42 reviewed and approved the outgoing liaison letter to IEEE 802.3 regarding BASE-T1 isolation. The approved liaison letter was posted as 2020-01-045a.

3.2.2.2. Other SDOs

The following documents were approved to be sent to other SDOs

3.3. Other new business

There was no other new business.

4. TR-42 Photography Contest

The winner of this week's photo contest is Sunny Xu with her photo of Jackson Square.

For future meetings, contributors will be limited to three photos each week.



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5. Action items derived from this meeting

- Greg Sandels to send liaison response to IEEE 802.3 (2020-01-045a)
- Henry Franc to finalize the June meeting schedule within two weeks

6. Upcoming Meetings

6.1. Next meeting

- June 8-12, 2020 – Denver. The meeting notice with hotel information was published prior to the meeting - http://standards.tiaonline.org/standards/_committees/admin/rosters/documents/TR-42_Meeting_2020_06_08_Meeting_Notice.pdf

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

- October 5-9, 2020 – Date fixed. Location TBD (Philadelphia, New England, Charleston, Savanna, San Diego, St Louis, Phoenix, Sacramento) - TR-42 requested that we not be collocated with other standards organizations
- Meeting dates for 2021
 - o Feb 1-5, 2021 – Date fixed – Location preferably Orlando (before the BICSI conference in Orlando the following week)
 - o June 7-11, 2021 – Date fixed – Location TBD, preferably in Canada (e.g., Quebec City, Toronto)
 - o October 4-8, 2021 – Tentative date and location TBD, pending date of IEC meeting

6.3. Meeting schedule for June 2020

The meeting schedule for the June meeting will be developed by correspondence.

7. Adjournment

The meeting was adjourned at 10:26 am

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”



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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 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 |