



**Telecommunications Industry Association**

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

**Approved by General Counsel**

TR-42.1 Subcommittee on Premises Telecommunications

Infrastructure

Meeting Dates: 07-08 June 2023

Location: Omaha, NE

Approved: 10 July 2023



## **Meeting Report**

### **TIA TR-42.1 Subcommittee on Premises Telecommunications Infrastructure**

**Date & Time:**     **Wednesday, June 7, 2023: 3:15 pm – 7:00 pm CDT**  
                             **Thursday, June 8, 2023: 8:00 am – 5:15 pm CDT**

**Location:**         **Hybrid: Omaha, NE / GoToWebinar**

**Chair:**             **Cindy Montstream – Legrand, 860-208-5261**

**Vice-Chair:**      **Diane Forbes – NIS, 503-246-8585**

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## **1. Administration/General Business**

### **1.1 Call to order**

The meeting was called to order at 3:15pm CDT.

### **TIA IMPORTANT NOTICE OF NOTICE OF PARTICIPATION**

Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of an agreement to be bound by all provisions of TIA Standards Development Procedures 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.

### **1.2 Attendance (Call Quorum, Introductions, Electronic Roster)**

Quorum was achieved and verified by roster call. There were 31 companies forming quorum with 24 companies needed.



Meeting attendees are listed in the table below.

| <b>Name</b>       | <b>Company</b>       |  | <b>Name</b>         | <b>Company</b>            |
|-------------------|----------------------|--|---------------------|---------------------------|
| Rob Aekins        | Legrand              |  | Cindy Montstream    | Legrand                   |
| Tara Ahmadi Tameh | Belden               |  | Joe Pace            | Delta Computer Consulting |
| Nik Angra         | AFL Hyperscale       |  | MV Patil            | Data Center Media         |
| Suren Babu        | Panduit              |  | Scott Payton        | GDCE                      |
| Dan Barrera       | Trend Networks       |  | Antoine Pelletier   | Intertek                  |
| Steve Born        | Superior Essex       |  | Tim Pickles         | Skybeam                   |
| Shelly Buchter    | US Conec             |  | Jeffrey Poulsen     | Leviton                   |
| Joseba Calvo      | EPI                  |  | Jacquelynn Pressey  | NAVAIR                    |
| Dachen Chiou      | DAN-CHIEF            |  | John Pyne           | EPI                       |
| Rick Dallmann     | Cable Xpress         |  | Ray Emplit          | Harger                    |
| Jeff Drenovsky    | ESD Global           |  | Tyler Royer         | Senko                     |
| Al Ehredt         | Telegartner          |  | Thomas Schmalzigaug | Huber + Suhner            |
| Steve Eisele      | Data Century Systems |  | Brian Shuman        | Belden                    |
| Nelson Farfan     | Siemon               |  | Virak Siev          | Belden                    |
| Jacques Fluet     | TIA                  |  | Sunil Tapashetti    | Data Center Media         |
| Diane Forbes      | NIS                  |  | Ron Tellas          | Belden                    |
| Jim Gilbert       | DXC                  |  | Steve Thwaites      | Prysmian Group            |



|                 |                     |  |                   |   |
|-----------------|---------------------|--|-------------------|---|
| Todd Harpel     | Leviton             |  | Kevin Turner      | Marmon Industrial Energy & Infrastructure Group |
| Dave Hess       | Cord Data           |  | Dave Valentukonis | Siemon  |
| Dave Jeskey     | Sentinel Connector  |  | Edward van Leent  | EPI   |
| Jonathan Jew    | J&M Consultants     |  | Paul Vanderlaan   | UL Solutions                                    |
| Andrew Jimenez  | Wesco               |  | Andrei Vankov     | Senko   |
| David Kozischek | Corning             |  | Bob Voss          | Panduit   |
| Anand Kumar     | R&M                 |  | William Winston   | Fluke Networks                                  |
| Angela Lambert  | Corning             |  | Brad Woodman      | Molex   |
| Wayne Larsen    | CommScope           |  | Sunny Xu          | CommScope                                       |
| Sean Lenz       | Panduit             |  | George Zimmerman  | CME Consulting                                  |
| Nash Martis     | Morrison Hershfield |  |                   |   |

### 1.3 Current Meeting Agenda Review and Approval (TR421-2023-06-015d)

The meeting agenda is approved without opposition.

### 1.4 Previous Meeting Reports Review and Approval

- **January Meeting Report (TR421-2023-01-011)**

The meeting report is approved without opposition.

- **March Interim Meeting Report (TR421-2023-03-014)**

The meeting report is approved without opposition.

### 1.5 Intellectual property rights statement (early disclosure policy)



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

TIA has an Intellectual Property Rights (IPR) Policy. We call to the attention of participants and attendees that TIA's Policy is to encourage, but not require, the voluntary disclosure (preferably early) of Essential Patent(s) and published pending patent application(s) that may be essential to the practice of a TIA Publication. Such disclosures are to be made following the procedures of the TIA Intellectual Property Rights Policy. Additional information can be found in the TIA Intellectual Property Rights Guidelines.

## 1.6 Distribution of documents and contributions

The following documents were distributed on TIA Connect in the TR-42.1 Premises Telecommunications Cabling community, under Documents, in the TR-42.12 Premises Telecommunications Cabling/2023 Meetings/2023-06-Omaha folder

| Document           | Title  | Contributor | Company |
|--------------------|--|-------------|---------|
| TR421-2023-01-011  | January Meeting Report   | Montstream  | TR-42.1 |
| TR421-2023-03-014  | March Interim Meeting Report   | Forbes      | TR-42.1 |
| TR421-2023-06-015d | June Meeting Notice & Agenda   | Montstream  | TR-42.1 |
| TR421-2023-06-016a | TIA-PN-942-C Recirculation Ballot #1 Comments with Editor Recommendations  | Jew         | TR-42.1 |
| TR421-2023-06-017  | TIA-PN-570-E New Ballot Comments with Editor Recommendations               | Drenovsky   | TR-42.1 |
| TR421-2023-06-018  | TIA-PN-1179-B Recirculation Ballot #1 Comments with Editor Recommendations | Kozischek   | TR-42.1 |
| TR421-2023-06-019  | Non Genset Data Centers Contribution                                       | van Leent   | EPI     |
| TR421-2023-06-020  | TIA Data Center Working Group Update Contribution                          | Fluet       | TIA     |
| TR421-2023-06-021a | 568.0-E Application Support Annex  | Zimmerman   | TR-42.1 |
| TR421-2023-06-021b | Ethernet & Fibre Channel Links   | Kozischek   | TR-42.1 |
| TR421-2023-06-022  | ANSI/TIA-568.0 & 568.1 Combined Outline                                    | Emplit      | TR42.1  |
| TR421-2023-06-023  | ANSI/TIA-568.0, 568.1 & 862 Combined Outline                               | Emplit      | TR-42.1 |



|                  |  |        |         |
|------------------|--|--------|---------|
| TR421-2023-0-024 | TIA-758 Proposed Action for Document Disposition | Franco | TR-42.1 |
|------------------|--|--------|---------|

## 1.7 Chairs Report and General Items

No Chair's Report.

## 1.8 List of Standards & TSBs from Committee

The status listed for each document below has been updated to represent all new status approved during the subcommittee meeting.

| Document           | Title   | Date of Revision | Current Status                                 |
|--------------------|---|------------------|--|
| ANSI/TIA-568.0-E   | Generic Telecommunications Cabling for Customer Premises  | 2020             | Published                                      |
| ANSI/TIA-568.0-E-1 | Generic Telecommunications Cabling for Customer Premises  | 2022             | Published                                      |
| ANSI/TIA-568.1-E   | Commercial Building Telecommunications Infrastructure Standard  | 2020             | Published                                      |
| ANSI/TIA-568.1-E-1 | Commercial Building Telecommunications Infrastructure Standard Addendum 1                               | 2022             | Published                                      |
| ANSI/TIA-570-D     | Residential Telecommunications Infrastructure Standard  | 2018             | <a href="#">Recirculation Ballot (limited)</a> |
| ANSI/TIA-758-C     | Customer-Owned Outside Plant Telecommunications Infrastructure Standard                                 | 2021             | <a href="#">Recirculation Ballot (limited)</a> |
| ANSI/TIA-862-C     | Structured Cabling Infrastructure Standard for Intelligent Building Systems                             | 2022             | Published                                      |
| ANSI/TIA-942-C     | Telecommunications Infrastructure Standard for Data Centers   | 2017             | <a href="#">Recirculation Ballot (limited)</a> |
| ANSI/TIA-1179-B    | Healthcare Facility Telecommunications Infrastructure Standard  | 2017             | <a href="#">Approved to Publish</a>            |
| ANSI/TIA-4966-A    | Telecommunications Infrastructure Standard for Educational Facilities                                   | 2022             | Published                                      |
| ANSI/TIA-4966-A-1  | Telecommunications Infrastructure Standard for Educational Facilities Addendum 1                        | 2022             | Published                                      |
| ANSI/TIA-4994      | Standard for Sustainable Communications Technology  | 2015             | Inactive                                       |
| ANSI/TIA-5017      | Telecommunications Physical Network Security Standard   | 2016             | <a href="#">Committee Ballot</a>               |
| TIA-TSB-162-B      | Telecommunications Cabling Guidelines for Wireless Access Points  | 2020             | Published                                      |
| TIA-TSB-185        | Environmental Classification (MICE) Tutorial – Mechanical; Ingress; Climatic/Chemical; Electromagnetic) | 2021             | Reaffirmed                                     |



|              |   |      |            |
|--------------|---|------|------------|
| TIA-TSB-5018 | Structured Cabling Infrastructure Guidelines to Support Distributed Antenna Systems | 2021 | Reaffirmed |
| TIA-TSB-5046 | Process for Sustainable Information Communications Technology Manufacturers         | 2017 | Inactive   |

## 2 Old business

### 2.1 ANSI/TIA-758-C (OSP): (Editor: Henry Franc)

- Ballot did not go out after the January meeting
- After reviewing the comment resolution from the January meeting, it was decided to do a recirculation ballot.
- Motion to do a recirculation ballot, limited to technical changes approved in the comment resolution from the January meeting (TR421-2023-01-005a), passes without opposition.

### 2.2 ANSI/TIA-1179-B (Healthcare): (Editor: Dave Kozischek)

- All comments were resolved (TR421-2023-06-018a)
- Motion to publish passes without opposition.

### 2.3 ANSI/TIA-5017-A (Security): (Editor: Thar Meepegama)

- Wasn't submitted for committee ballot, as approved in January meeting. Will be submitted for committee ballot right after June meeting.
- Will do comment resolution and vote on disposition at September meeting.

### 2.4 ANSI/TIA-942-C rev 2.0 (Data Centers): (Editor: Jonathan Jew)

- All comments were resolved (TR421-2023-06-016b)
- Motion to do a recirculation ballot, limited to technical changes approved in this meeting, passes without opposition.

### 2.5 ANSI/TIA-570-E (Residential): (Editor: Jeff Drenovsky)

- All comments were resolved (TR421-2023-06-017a)
- Motion to do a recirculation ballot, limited to the technical changes approved in this meeting, passes without opposition.



## **2.6 Application Tables in ANSI/TIA-568.0-E (Generic Telecommunications Cabling for Customer Premises)**

- Discussed moving Applications Tables out of TIA-568.0 and into a TSB
  - Reference 568.0-E Application Support Annex (TR421-2023-06-021a) & Ethernet & Fibre Channel Links (TR42102023-06-021b)
- Motion to begin project to put this information into a TSB passes without opposition.
- PAR is reviewed and motion to move forward passes without opposition.
- Cindy Montstream will submit PAR to TIA for the project
- Sunny Xu agreed to be the editor and will bring a draft to the September 2023 meeting.

## **2.7 Discuss consolidation of 568.0, 568.1 and 862 standards**

- Review two outlines created by Ray Emplit
  - First outline combines ANSI/TIA-568.0 and ANSI/TIA-568.1 content into one standard (TR421-2023-06-022)
  - Second outline combines ANSI/TIA-568.0, ANSI/TIA-568.1 and ANSI/TIA-862 content into one standard. (TR421-2023-06-023)
  - Determine next steps
- Motion to combine 568.0, 568.1, and 862 standards into a draft to review in September passes without opposition.
- Ray Emplit agreed to be the editor of this effort and will bring a draft to the September meeting.
- Cindy Montstream to bring a PAR to the September meeting for project approval.

## **3 New Business**

### **3.1 How can we better organize subcommittee work?**

Discussed the idea of flex schedule with 42.3. It will be important to register for meetings in order to get the updates for time. Participants have mixed feedback, some willing to try this as a small step to try and others express challenges with trying to arrange their day around meetings, especially for remote participants.

Suggestion to allow 30 minutes between sessions when using flex time.

## **4 Impact of Work from Other Subcommittees**

- **Incoming liaison letters:**





None.

- **Outgoing liaison letters:**

None.

- **Output documents for US-TAG:**

5 None.

## 5 Action Items

- Henry Franc will submit ANSI/TIA-758-C for a limited recirculation ballot
- Dave Kozischek will submit ANSI/TIA-1179-B for publication
- Thar Meepegama will submit ANSI/TIA-5017-A for a committee ballot
- Jonathan Jew will submit ANSI/TIA-942-C for a limited recirculation ballot
- Jeff Drenovsky will submit ANSI/TIA-570-E for a limited recirculation ballot
- Sunny Xu will bring a draft of the Application Table TSB to the September meeting for review
  - Cindy Montstream will submit the PAR that was approved for the Application Table TSB project
- Ray Emplit will provide a draft of the consolidated standards (TIA-568.0, TIA-568.1 and TIA-862) to review at September meeting
  - Cindy Montstream to bring a PAR to the September meeting for project approval.

## 6 Meetings

### 6.1 Future Meeting Dates

- September 25-29, 2023 -- Hybrid (date fixed, location Tulsa, OK)
- February 5-9, 2024 -- Hybrid (date fixed, location TBD)
- June 3-7, 2024 – Hybrid (date fixed, location TBD)
- October 7-11, 2024 – Hybrid (date fixed, location TBD)

## 7 Adjournment

The meeting was adjourned at 10:43am CDT on June 8, 2023.

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

**AVAILABILITY OF MEETING DOCUMENTS:**

TR-42.1 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:**

- Go to [TIAOnline](#)
- Enter your *Username* (your email address in the TIA database)
- Enter your *Password*
- Click "*LOGIN*"
- Click the "*Communities*" tab and then select "*All My Communities*"
- Scroll down the page and select "*TR-42.1 Premise Telecommunications Infrastructure*"
- Click on "*Documents*" and then select the meeting folder

**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 TIA Connect under the Standards Procedure 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:**

|                          |  |              |
|--------------------------|--|--------------|
| Cindy Montstream, Chair  | <a href="mailto:cindy.montstream@legrand.com">cindy.montstream@legrand.com</a> | 860-208-5261 |
| Diane Forbes, Vice-Chair | <a href="mailto:diane.forbes@nis.consulting">diane.forbes@nis.consulting</a>   | 502-246-8585 |