

**Approved by General Counsel**

TR-42 Meeting Report

Date(s): 02/02/2018 - 02/02/2018

Location: Orlando, Fl

Approved: 02/06/2018

## MEETING REPORT – CLOSING PLENARY

**Organization:** TIA TR-42 Engineering Committee on Telecommunications Cabling Systems

**Chair:** Ray Emplit, Harger Lightning and Grounding, (610) 273-2648

**Vice Chair:** Greg Sandels, OFS, (770) 798-2036

**Date/Time:** Friday, September 22, 2017, 8:00 AM – noon

**Location:** Wyndham Orlando International Drive  
8001 International Dr  
Orlando, FL 32819

### 1 Administration

#### 1.1 Call to order

The chair, Ray Emplit, called the meeting to order at 8:00 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.

#### 1.2 Attendance (introductions, electronic roster)

The attendees introduced themselves and registered attendance using the on-line system. Quorum was verified by roster call. Attendees:

<b>Attendee</b>	<b>Company</b>	<b>Attendee</b>	<b>Company</b>
Alley, Chad	Corning	Khan, Naved	Hubbell
Barrera, Dan	IDEAL	Kuniyoshi, Cristina	Furukawa
Borgman, Michael	Panduit	Kunplin, Salin	Belden
Buchter, Shelly	US Conec Ltd.	Kusuma, Roy	General Cable
Chambal, Melissa	CNet Training	Larsen, Wayne	CommScope
Cornelison, Ken	Consultant	Lenz, Sean	Panduit
Dearing, Mark	Leviton	Montstream, Cindy	Legrand
Diminico, Christopher	MC Communications	Morris, Dan	KITCO
Ehredt, Allen	Telegartner	Neveux, Paul	Superior Essex
Emplit, Ray	Harger, Inc.	Samamra, Raed	Prysmian Group
Forbes, Diane	NIS	Sandels, Greg	OFS

Franc, Henry	Belden	Shariff, Masood	CommScope
Frishkorn, Eric	Phoenix Contact	Soncodi, Marta	TIA
Gastle, Ed	Viavi Solutions	Tellas, Ron	Belden
Hess, Dave	Cord Data	Vaden, Sterling	Surtec Industries
Huedepohl, Konstantin	SOFTING	Valentukonis, David	The Siemon Cp
Ivans, Randy	UL LLC	Withey, James	Fluke Networks
Jallo, Tom	Softing	Woodman, Brad	Molex Inc.
Jew, Jonathan	J&M Consultants	Xu, Sunny	CommScope
Jones, Rich	Datacom Standards		

### 1.3 Approval of agenda

The revised meeting agenda (TR42-2018-01-017b) was approved without objection.

### 1.4 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.

### 1.5 Distribution of documents and contributions

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

Document #	Title	Company	Contributor
2017-09-174	TR-42 Closing Plenary Meeting Report Las Vegas	TR-42	Jew
2018-01-007	Incoming Liaison from IEEE 802.3 re MDI connectors for Single Pair	IEEE 802.3	Law
2018-01-008	Email from SOPD of DHS re Possible Relationship	DHS	Rasmussen
2018-01-010	Outgoing Liaison to IEEE 802.3 re Single Pair Connectors and Remote Powering	TR-42.7	Vaden
2018-01-017b	TR-42 Closing Plenary Agenda Orlando	TR-42	Emplit
2018-01-041	TR-42.1 Closing Plenary Review	TR-42.1	Cody
2018-01-042	TR-42.3 Closing Plenary Review	TR-42.3	Montstream
2018-01-043	TR-42.5 Closing Plenary Review	TR-42.5	Tellas
2018-06-044	TR-42.7 Closing Plenary Review	TR-42.7	Vaden
2018-01-045	TR-42.9 Closing Plenary Review	TR-42.9	Woodman
2018-01-046	TR-42.11 Closing Plenary Review	TR-42.11	Kolesar
2018-01-047	TR-42.12 Closing Plenary Review	TR-42.12	Kolesar

2018-01-048	TR-42.13 Closing Plenary Review	TR-42.13	Sandels
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## **1.6 Meeting report review and approval**

The meeting report from the September meeting (TR42-2017-09-174) was approved without objection.

## **1.7 Subcommittee election results**

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

## **1.8 TR-42 committee election results**

Greg Sandels of OFS was elected as the Chair and Henry Franc of Belden was elected as Vice-Chair of TR-42 by acclamation.

## **1.9 Recognition of Ray Emplit, Glenn Sexton, Mike Kinard, Herb Congdon**

TIA gratefully recognized Ray Emplit, Glenn Sexton, Mike Kinard, and Herb Congdon for their service to TR-42.

## **2 Old business**

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

#### **2.1.1 From IEEE 802.3 re 10 Mb/s over single twisted-pair**

The committee reviewed 2018-01-007 from IEEE 802.3 regarding MDI connectors. TR-42.7 was tasked this week to draft a response to IEEE 802.3 regarding both incoming liaisons.

#### **2.2 Possible change of election timing**

The committee reviewed possible changes to the timing of subcommittee elections. The committee agreed to have elections in the first meeting of the year starting with 2019. Ray Emplit will determine if changes need to be made to the TR-42 Operating Procedures.

### **2.3 Subcommittee reports and plenary action**

#### **2.3.1 TR-42.1 – Generic Telecommunications Cabling and Premises Cabling**

Diane Forbes presented TR42-2018-01-041 on behalf of Joe Cody.

TIA-568.1-D (Commercial) addendum 1 default ballot closed without any negative votes or technical comments. It was approved by TR-42.1 for publication.

Comments were resolved on TIA-570-D (Residential). The next ballot will be a default ballot with conditional approval for publication.

Work continues with the Places of Assembly task group.

Work continues within the single-pair task group

TR-42.1 has approved a new name - Premises Telecommunications Infrastructure.

Upcoming work includes:

- An expected draft for ANSI/TIA-758-C Outside Plant
- Possible PAR for optical fiber polarity in a channel from a user perspective
- Possible PARs for to start work on revisions to ANSI/TIA-568.0-D and ANSI/TIA-568.1-D in September of 2018, same for 4966 early 2019

### **2.3.2 TR-42.3 – Telecommunications Administration, Pathways, Spaces, Bonding and Grounding**

Cindy Montstream presented TR42-2018-01-042.

TR-42 approved publication of an errata to ANSI/TIA-606-C

Comments were resolved on TIA-569-D (Pathways & Spaces) addendum 2 on pathways and spaces for remote powering. The next ballot will be an industry ballot.

### **2.3.3 TR-42.5 – Telecommunications Infrastructure Terms and Symbols**

Ron Tellas presented TR42-2018-01-043.

### **2.3.4 TR-42.7 – Telecommunications Copper Cabling Systems**

Sterling Vaden presented TR42-2018-01-044.

Comments were resolved on ANSI/TIA-568.2-D (revision to TIA-568.C-2). The next ballot will be a default ballot with conditional approval for publication.

A committee ballot was authorized for TSB-184-A-1, installation guideline for power delivery over 28 AWG cord cable.

Active task groups in TR-42.7 are:

- Single pair cabling
- Category 8 short channel alien crosstalk
- TSB-184-A-1 Installation guidelines for cords in vertical cable managers
- High temperature cable performance

TR-42.7 established an initial procedure and timeline for selecting a suitable single pair connector (or connectors) for inclusion in the TIA 568.5 draft. Five connector proposals were reviewed. The target date for publishing TIA-568.5 is October 2019, with the first complete draft and ballot in October 2018.

TR-42.7 drafted a liaison to IEEE 802.3 responding to their previous liaison letters on single pair cabling and connectors (2018-01-010, edited and reposted as 2018-01-010a).

### **2.3.5 TR-42.9 – Industrial Telecommunications Infrastructure**

Brad Woodman presented TR42-2018-01-045.

Comments were resolved on ANSI/TIA-PN1005-A-2 (Performance requirements for 1G four pair industrial cables and cabling supporting 1000BASE-T for MICE2 and MICE3 environments). The next ballot will be another committee ballot.

Comments were resolved on mock ballot for ANSI/TIA-PN-PN1005-A-3 (1G industrial cabling for one pair Link Segment Type B, 1000BASE-T1 for MICE2 and MICE3 environments). The next ballot will be another mock ballot. The committee agreed to add information for 1000 meter IEEE 802.3cg.

### **2.3.6 TR-42.11 – Optical Fiber Systems**

Paul Kolesar presented TR42-2018-01-046.

Comments were resolved on TIA-568.3-D addendum 1. The next ballot will be the first industry (ANSI) ballot.

### **2.3.7 TR-42.12 – Optical Fibers and Cables**

Paul Kolesar presented TR42-2018-01-047 on behalf of Mike Kinard.

Patrick Van Vickle was elected as Chair and Roman Shubochkin was elected as Vice-Chair.

TR-42.12 formed a task group to 'develop (technical) information on MMF for the purposes of WDM applications', primarily for OM3 and OM4 to determine their ability to support WDM. The task group will be lead by Bulent Kose ([bko@panduit.com](mailto:bko@panduit.com)). The task group anticipates monthly teleconferences and collaboration across other related SDOs (e.g. IEEE, IEC, Fibre Channel, etc).

Industry ballot comments for FOTP-95 (absolute power) were resolved and it was issued for a second industry ballot.

Industry ballot comments for TIA-598-D-1 (Additional Colors for Fibers 13-16) were resolved and it was issued for a second industry ballot.

Industry ballot comments for TIA-598-D-2 (addendum for OM5 lime green jacket color) were resolved and it was approved for publication.

TR-42.12 is working on the restructuring of the TIA-492 series and is considering adaptations of IEC 60793-2, 60793-2-10, & 60793-2-50.

### **2.3.8 TR-42.13 – Passive Optical Devises and Fiber Optic Metrology**

Greg Sandels presented TR42-2018-01-048.

Comments were resolved on FOTP 171B. It will be issued for a 4<sup>th</sup> (industry) ballot.

604-5 (MPO) and 604-18 (MPO 16) ballots don't close until 2/2/2018. All received comments were reviewed and resolved. The subcommittee agreed to distribute it for an industry ballot if no more technical or negative comments are received.

Work on the CS Connector FOCIS proposal was deferred until the June meeting.

IEC Optical Interface Adoption Proposal was reviewed. Another series is required for the IEC modular approach.

An accurate and comprehensive list of documents is desperately needed from TIA.

## **2.4 NEC Public Input Task Group**

Masood Shariff informed the committee that the NEC Input Task Group did not meet since the last meeting so there is no report.

## **2.5 Other old business**

There was no other old business.

## **3 New business and output documents**

### **3.1 Output documents**

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

The following documents were approved to be sent to ISO/IEC JTC 1 SC 25 WG 3.

- TIA-569-D-2 (Pathways for Remote Powering)
- TIA-568.5 (single-pair copper)
- TSB-184-A-1 (installation of cords in vertical cable managers)

#### **3.1.2 IEEE 802.3 and other SDOs**

The following documents were approved to be sent to IEEE 802.3

- Five proposals for single-pair connectors with outgoing liaison 2018-01-010.

#### **3.1.3 Other output documents.**

Outgoing Liaisons approved:

- liaison to IEEE regarding single-pair (2018-01-010a)

### **3.2 Possible liaison relationship with Sector Outreach and Programs Division of Department of Homeland Security**

The subcommittee reviewed 2018-01-008 Email from SOPD of DHS re Possible Relationship. The subcommittee agreed to establish contact with SOPD of DHS and invite them to participate in our meetings.

### **3.3 Other new business**

There was no other new business.

### **3.4 Action items derived from this meeting**

Ray Emplit will determine if changes need to be made to the TR-42 Operating Procedures to change the elections to the 1<sup>st</sup> meeting of the year.

Ray Emplit – preparation of documents for USTAG.

Ray Emplit - submission of request to TIA to forward the five contributions on single-pair connectors to IEEE.

Greg Sandels – liaison to IEEE regarding single-pair (2018-01-010a)

Greg Sandels - establish contact with SOPD of DHS and invite them to participate in our meetings.

Marta Soncodi – correct names and scopes of TR-42.1 and TR-42.3 on TIA website (see the February TR-42.1 and September TR-42.3 meeting reports.

Marta Soncodi & Greg Sandels - accurate and comprehensive list of TR-42 documents.

Henry Franc & Greg Sandels – meeting schedule for June 2018 within one month.

#### **4 Upcoming meetings**

**4.1** June 11 – 15, 2018: Pittsburgh – Sheraton Pittsburgh Hotel at Station Square – TIA will publish the notice

**4.2** TR-42 members are strongly requested to use the TR-42 rate to ensure that TIA meets its contract obligations.

#### **4.3 Subsequent meetings**

- October 1 – 5, 2018: Phoenix or Seattle suggested

#### **4.4 2019 meeting dates (resolve fall date, suggest locations)**

- January 28 - Feb 1, 2019 – Naples, Ft Meyers, Sanibel Island (all in FL)
- June 10 – 14, 2019 – Calgary, Vancouver
- September 16-20, 2019 (date firm) – Boston, Savannah, Albuquerque

TIA is requested to review proposed hotel with TR-42 (Greg Sandels and Henri Franc) prior to selection of the venue.

#### **4.5 Meeting schedule for June 2018**

The meeting schedule for June will be developed via correspondence.

In the future, the Vice-Chair and subcommittee chairs will target completion of the meeting schedule within a month of the closing plenary.

#### **5 Adjournment**

The meeting was adjourned at 9:38 AM.

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

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#### **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. For information on how to access the FTP site, contact TIA (Stephanie Montgomery: [smontgomery@tiaonline.org](mailto:smontgomery@tiaonline.org)).



**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 not posted as described in the timing above shall be classified as "late contributions." They may be considered in the meeting to which they are addressed provided that an appropriate motion receives 50% or greater of a vote.

All late contributions shall be provided to the EDC and to the committee members on a memory stick or CD-ROM along with sufficient paper copies for those members without a PC. 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:**

Ray Emplit, Chair	remplit@harger.com	(610) 273-2648
Greg Sandels, Vice Chair	gsandels@ofsoptics.com	(770) 798-2036
Jonathan Jew, EDC & Secretary	jew@j-and-m.com	(415) 292-7734