

**Approved by General Counsel**

TR-42 Meeting Report

Date(s): 06/16/2017 - 06/16/2017

Location: Quebec, Canada

Approved: 07/18/2017

## **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, June 16, 2017, 8:00 AM – noon

**Location:** Four Points by Sheraton Quebec  
7900 Rue du Marigot  
Quebec City, Quebec, Canada G1G 6T8

### **1 Administration**

#### **1.1 Call to order**

The chair, Ray Emplit, called the meeting to order at 8:01 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>
Jimenez, Andrew	Anixter Inc	McMurray, Martin	JPMorgan Chase
Shuman, Brian	Belden	Montstream, Cindy	Legrand
Tellas, Ron	Belden	Dearing, Mark	Leviton
Vanderlaan, Paul	Berk-Tek	Forbes, Diane	NIS
Larsen, Wayne	CommScope	Sexton, Glenn	NIS
Shariff, Masood	CommScope	Lounsbury, Bob	ODVA
Hess, Dave	Cord Data	Sandels, Greg	OFS
Alley, Chad	Corning	Van Vickle, Patrick	Sumitomo
Withey, James	Fluke Networks	Neveux, Paul	Superior Essex
Kuniyoshi, Cristina	Furukawa	Vaden, Sterling	Surtec Industries

Emplit, Ray	Harger, Inc.	McGuire, Valerie	The Seimon Co
Cornelison, Ken	Hitachi	Mitcheltree, Tom	US Conec
Payerle, Dan	IDEAL Industries	Buchter, Shelly	US Conec
Jew, Jonathan	J&M Consultants		

### 1.3 Approval of agenda

The revised meeting agenda (TR42-2017-06-081a) with the addition of item 2.4 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
2017-02-053	TR-42 Closing Plenary Report Philadelphia Feb 2017	TR-42	Jew
2017-06-072b	1-Pair use cases & topologies for generic cabling 568zeroD PAR TR-42.1	CommScope	Shariff
2017-06-073a	1-Pair cabling & components PAR TR-42.7	CommScope	Shariff
2017-06-074b	1-Pair use cases & topologies for intelligent buildings PAR TR-42.1	CommScope	Shariff
2017-06-075b	1-Pair use cases & topologies for industrial premises PAR TR-42.9	CommScope	Shariff
2017-06-081a	TR-42 Closing Plenary Agenda Quebec	TR-42	Emplit
2017-06-105	TR-42.1 Closing Plenary Review	TR-42.1	Cody
2017-06-106	TR-42.3 Closing Plenary Review	TR-42.3	Montstream
2017-06-107	TR-42.5 Closing Plenary Review	TR-42.5	Forbes
2017-06-108	TR-42.6 Closing Plenary Review	TR-42.6	Jew
2017-06-106	TR-42.7 Closing Plenary Review	TR-42.7	Larsen
2017-06-110	TR-42.9 Closing Plenary Review	TR-42.9	Lounsbury
2017-06-111	TR-42.10 Closing Plenary Review	TR-42.10	Sexton
2017-06-112	TR-42.11 Closing Plenary Review	TR-42.11	Kolesar
2017-06-113	TR-42.12 Closing Plenary Review	TR-42.12	Kinard

2017-06-119	Outgoing Liaison to IEEE 802.3 re Single-Pair Cabling Standard	TR-42	Emplit
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## **1.6 Meeting report review and approval**

The meeting report from the February 2017 meeting (TR42-2017-02-053) was approved without objection.

## **2 Old business**

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

No liaison letters were received since the opening plenary.

### **2.2 Revision to TR-42 operating procedures for liaison officers and reports**

Ray Emplit is working a proposal for modifications to the TIA operating procedures regarding the liaison officers and reports.

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

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

Diane Forbes presented TR42-2017-06-105 on behalf of Joe Cody and Henry Franc.

Comments were resolved on TIA-568.0-D (Generic) addendum 1. It was approved for publication.

Comments were resolved on TIA-568.1-D (Commercial) addendum 1. The next ballot will be a default ballot with approval to publish if there are no technical or negative votes.

A project request was approved for TIA-570-D (Residential). The next ballot will be an industry ballot.

TIA-758-C (Outside Plant) PAR is approved and is awaiting its first ballot.

Comments were resolved on TIA-862-B (Intelligent Buildings) addendum 1 – new media types. The next ballot is a default ballot.

Comments were resolved on TIA-942-B (Data Center). It was approved for publication.

Comments were resolved on TIA-1179-A (Healthcare). It was approved for publication.

Comments were resolved on TIA-4966-1 (Education) addendum 1 – new media types. The next ballot is a default ballot with approval to publish if there are no technical or negative votes.

Those interest in participating in the Places of Assembly Task Group are requested to contact Cindy Montstream - [Cindy.Montstream@legrand.us](mailto:Cindy.Montstream@legrand.us)

TR-42.1 will submit a reaffirmation ballot for TSB-185 (MICE)

TR-42.1 approved two PARS.

- ANSI/TIA-568.0-D-2 – document TR42-2017-06-072b 1-Pair use cases & topologies for generic cabling 568zeroD PAR TR-42.1.
- ANSI/TIA-862-B-2 – document TR42-2017-06-074b 1-Pair use cases & topologies for intelligent buildings PAR TR-42.1

### **2.3.2 TR-42.3 – Telecommunications Pathways and Spaces**

Cindy Montstream presented TR42-2017-06-106.

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

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

Diane Forbes presented TR42-2017-06-107.

Comments were resolved on TIA-440-C (Fiber Terms Dictionary). It has been approved for publication.

### **2.3.4 TR-42.6 – Telecommunications Infrastructure and Equipment Administration**

Jonathan Jew presented TR42-2017-06-108.

TIA-606-C and TIA-5048 were approved for publication in April after the default ballots closed.

TR-42.6 approved the merger with TR-42.3.

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

Wayne Larsen presented TR42-2017-06-109.

TSB-184-A (support for 4-pair remote power) was approved for publication.

TIA-1183-A, (Consolidation of 1183 and 1183-1, balun-less testing of balanced twisted pair cabling) was approved for publication.

Comments to ANSI/TIA-568.4-D (coaxial cabling) were resolved. It was approved for publication.

Comments to TIA-568.2-D (balanced twisted pair components) were resolved. The next ballot will be an industry ballot.

TR-42.7 launched a project to develop ANSI/TIA-568.5, single-pair balanced cabling and started a task group. See TR42-2017-06-073a 1-Pair cabling & components PAR TR-42.7.

TR-42.7 launched a project to develop an addendum to TIA TSB-184-A to cover guidelines for power distribution using 28 AWG and started a task group.

TR-42.7 started a task group to study making TIA TSB-184-A normative by converting it to an addendum to ANSI/TIA/568.2-D.

TR-42.7 drafted a liaison to IEEE 802.3 regarding the new single pair projects in TR-42.1, TR-42.7 and TR-42.9 (2017-06-119). The plenary reviewed and approved the liaison.

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

Bob Lounsbury presented TR42-2017-06-110.

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 a committee ballot.

Comments were resolved on 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.

TR-42.9 approved the PAR TR42-2017-06-075b 1-Pair use cases & topologies for industrial premises PAR TR-42.9 to be published as ANSI/TIA-1005-A-4.

### **2.3.7 TR-42.10 – Sustainable Information Communications Technology**

Glenn Sexton presented TR42-2017-06-111.

Default ballot comments on TSB-5046 (Sustainability for manufacturers) were resolved. It was approved for publication.

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

Greg Sandels presented TR42-2017-06-112 on behalf of Paul Kolesar.

The subcommittee agreed on a new project – ANSI/TIA-568.3-D addendum 1 with scope to include:

- Use of OM5 name
- Use of OS1a name
- Color for OM5 connecting hardware
- Connecting hardware color definitions
- Reference-grade to standard-grade loss allocation
- MPO testing

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

Greg Sandels presented TR42-2017-06-113 on behalf of Mike Kinard

The committee ballot for FOTP-95 (absolute power) will proceed based on comments received from the reaffirmation ballot.

TIA-598-D-1 comments were discussed but not resolved as the ballot is still open.

TIA-598-D-2 (addendum for OM5 lime green jacket color) will be released for an industry ballot.

TR-42.12 decided to revise (future) temperature precision and temperature ramp in FOTP-3 to harmonize with IEC.

TR-42.12 decided to put FOTP-48 (cladding diameter) on the agenda for the next meeting for reaffirmation as TIA-only.

### **2.3.10 TR-42.13 – Passive Optical Devices and Fiber Optic Metrology**

Greg Sandels presented TR42-2017-06-114.

Comments were resolved on FOTP 171B. The next ballot will be an industry ballot.

FOCIS 18 and FOICS 5 drafts were reviewed by the subcommittee. Revised drafts will be presented at the next meeting.

TR-42.13 will ballot the adoption of IEC 61755-1 Optical Interface G&G.

There was no objection by TR-42.13 to send TIA-568.3-D to COBA.

## **2.4 Use of IEC Comment Form**

TR-42 discussed switching from the TIA to IEC comment form. There was a motion to adopt the IEC comment form but there was no second.

## **2.5 NEC Public Input Task Group**

Masood Shariff reported on the progress of the NEC Public Input Task Group. The plenary approved submission of the four

## **2.6 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 will be sent to USTAG to ISO/IEC JTC 1 SC 25 WG 3:

- Final TIA-606-C Telecommunications Administration
- Draft TIA-569-D-2 after resolution of comments from June 12 meeting
- Draft TIA-1005-A-3 next draft after comment resolution from June meeting - Industrial cabling for single pair Link Segment Type B, 1000BASE-T1 including MICE 2 and MICE 3

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

The following documents were approved to be sent to IEEE 802.3

- None other than outgoing liaison 2017-06-119.

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

Outgoing Liaisons approved:

- (2017-06-119) Outgoing Liaison to IEEE 802.3 re Single-Pair Cabling Standards.
- ANSI/TIA-568.3-D to COBA with transmittal letter by Ray Emplit

### **3.2 Possible reorganization of TR-42 subcommittees TR-42.6, TR-42.10 & TR-42.16**

TR-42 agreed to consolidate TR-42.6 and TR-42.16 into TR-42.3.

TR-42 agreed to consolidate TR-42.10 into TR-42.1.

### **3.3 Other new business**

There was no other new business.

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

Ray Emplit – liaisons to IEEE:(2017-06-119).

Ray Emplit – liaisons to COBA for transmittal of ANSI/TIA-568.3-D

Ray Emplit - proposal for modifications to the TIA operating procedures regarding the liaison officers and reports.

Cindy Montstream - TR-42.3 to review creation of new name and scope at the next meeting.

Henry Franc & Joe Cody – TR-42.1 to review creation of a new name and scope at the next meeting.

Masood Shariff – submit TR-42 public input for NEC NFPA 70-2020

Ray Emplit – add discussion of meeting costs in the next plenary meeting

TIA – starting with 2018, review proposed locations with TR-42 prior to selection of the venue

Odd numbered subcommittees will have elections at the next meeting

## **4 Upcoming meetings**

### **4.1 September 18 - 22, 2017: Las Vegas**

### **4.2 Subsequent meetings**

- January 29 – February 2, 2018: Florida
- June 11 – 15, 2018: Chicago, Pittsburgh or Jackson Hole suggested
- October 1 – 5, 2018: Phoenix or Seattle suggested

Starting with the 2018 meetings TIA is requested to review proposed locations with TR-42 prior to selection of the venue.

### **4.3 Meeting schedule for September 2017**

To be done by correspondence by the TR-42 Vice Chair and subcommittee chairs.

## **5 Adjournment**

The meeting was adjourned at 8:57 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	<a href="mailto:remplit@harger.com">remplit@harger.com</a>	(610) 273-2648
Greg Sandels, Vice Chair	<a href="mailto:gsandels@ofsoptics.com">gsandels@ofsoptics.com</a>	(770) 798-2036
Jonathan Jew, EDC & Secretary	<a href="mailto:jew@j-and-m.com">jew@j-and-m.com</a>	(415) 292-7734