



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: 09 February 2024

Location: Charleston, SC

Approved: 26 February 2024



Closing Plenary Meeting Report

TR-42 Telecommunications Cabling Systems Engineering Committee

Date: February 9, 2024
 Time: 8:00AM-11:30AM EST
 Location: Charleston, SC & Hybrid Virtual GoToWebinar
 Chair: Henry Franc
 Vice Chair: Cindy Montstream
 Secretary & EDC: Jonathan Jew

1. Administrative/General Business

1.1. Call to Order

The chair, Henry Franc, called the meeting to order at 8:00 AM EST.

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
Aekins	Rob	Legrand	McGarry	Tom	TIA
Allen	Bill	OFS	Montstream	Cindy	Legrand
Babu	Suren	Panduit	Ochoa	Miguelangel	ITTERA
Broughton	Adam	Sumitomo	Pelletier	Antoine	Intertek
Buchter	Shelly	US Conec	Perkins	Leigh Ann	TIA
Calle	Olivier	Fluke	Pickles	Tim	Surtec

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Cassidy	Dan	UL LLC	Poulsen	Jeffrey	Leviton
Celella	Brian	Siemon	Pressey	Jacquelynn	US Navy
Connaughton	Mike	Leviton	Rice	Henry	Proterial
Drenovsky	Jeff	Stantec	Sandels	Greg	OFS
Dupuis	Marc	Winchester	Savi	Olindo	Hubbell
Ehredt	Al	Telegartner	Schmalzigaug	Thomas	Huber Suhner
Eischens	Scott	CommScope	Schmidt	Rainer	Harting
Eisele	Steve	DCS	Sechrist	Shad	Lynn
Ellis	Mark	Stewart	Shariff	Masood	CommScope
Fluet	Jacques	TIA	Shubochkin	Roman	OFS
Forbes	Diane	NIS	Shuman	Brian	Belden
Ford	Christin	Superior Essex	Silveira	Jeff	BICSI
Franc	Henry	Belden	Smith	Dan	Nest Technical
Gilbert	Jim	DXC	Stikeleather	Derrick	OCC
Girma	Solomon	Superior Essex	Su	Sheng-Kai	Dan-Chief
Gurreri	Mike	CommScope	Tassone	Anthony	UL LLC
Henriques	Fabianne	Furukawa	Taylor	Todd	AECOM
Hess	Dave	Cord Data	Tellas	Ronald	Belden
Irwin	Phil	Panduit	Thibideau	Cheryl	TIA
Jew	Jonathan	J&M Consultants	Thomlinson	Les	DND
Knychalski	Thomas	Legrand	Thwaites	Steve	Prysmian
Kozischek	David	Corning	Turner	Kevin	Marmon
Kumar	Anand	RiT Tech	Urbanic	William	US Navy
Lambert	Angela	Corning	Winston	William	Fluke
Mahoney	Patrick	AECOM	Woodman	Brad	Molex
Marino Cruz	Ana	Belden	Xu	Sunny	CommScope
Martis	Nash	Morrison Hershfield	Zimmerman	George	CME
McElroy	Andrew	Harger			

1.3. TR-42 Committee Leadership Elections (Chair and Vice-chair)

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

Cindy Montstream was re-elected as Vice-Chair of TR-42 by acclamation.

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1.4. Current Meeting Agenda Review and Approval

The meeting agenda (TR42-2024-02-009) was approved without objection.

1.5. Previous Meeting Report Review and Approval

The meeting report for the previous meeting (TR42-2023-09-120) was approved without objection.

1.6. 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.

1.7. 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/2024 Meetings/2024-02 Charleston Hybrid folder.



Closing Plenary Meeting Report

Document #	Title	Company	Contributor
2023-09-120	TR-42 Closing Plenary Meeting Report Sept 2023	TR-42	Jew
2024-02-009	TR-42 Closing Plenary Agenda February 2024	TR-42	Franc
2024-02-031	TR-42.1 Closing Plenary Review	TR-42.1	Montstream
2024-02-032	TR-42.3 Closing Plenary Review	TR-42.3	Montstream
2024-02-033	TR-42.5 Closing Plenary Review	TR-42.5	Tellas
2024-02-034	TR-42.7 Closing Plenary Review	TR-42.7	Celella
2024-02-035	TR-42.9 Closing Plenary Review	TR-42.9	Shuman
2024-02-036	TR-42.11 Closing Plenary Review	TR-42.11	Irwin
2024-02-037	TR-42.12 Closing Plenary Review	TR-42.12	Kozischek
2024-02-038	TR-42.13 Closing Plenary Review	TR-42.13	Xu
2024-02-042	Outgoing Liaison Letter to IEEE	TR-42	Franc
2024-06-043	Speakers Bureau and Presenting at Industry Events for Outreach	TR-42	Franc
2024-06-044	TIA Data Center Certification Report 2023	TIA	Fluet

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

Cindy Montstream presented TR42-2024-02-031.

TR-42.1 resolved recirculation ballot comments to TIA-942-C (Data Center Telecommunications Infrastructure) and authorized publication.

TR-42.1 resolved 1st ballot comments for TSB-6000 (Application Tables) and authorized a recirculation ballot. TR-42.1 recommended to send TSB-6000 to USTAG JTC 1 SC 25 WG 3 to share and recommended a liaison letter to IEEE to request that they review it. The Chair of TR-42.1 will discuss with TIA the possibility of making the TSB a public document.

TR-42.1 authorized a recirculation ballot for the entire contents of the current draft of ANSI/TIA-758-C (*Customer-Owned Outside Plant*).

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TR-42.1 authorized publication of an Errata to TIA-568.1-E-1.

TR-42.1 plans to issue a recirculation ballot for ANSI/TIA-5017-A (Security) with Ron Tellas as editor for the next meeting.

TR-42.1 reviewed the status of the consolidation of TIA-568.0, TIA-568.1, and TIA-862 into the next revision of TIA-568.1-F, with Cindy Montstream as editor. She plans to have a draft in June for approval to ballot during the June 2024 meeting.

The Future Topics discussion led by Diane Forbes will continue work at the June TR-42 meeting.

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

Cindy Montstream presented TR42-2024-02-032.

TR-42.3 recognized Ray Emplit for his contributions to TR-42.3, particularly as editor for TIA-569 and TIA-607, for which he was the editor for multiple revisions.

TR-42.3 approved publication of TIA-607-E at the previous meeting.

TR-42.3 reviewed the draft to TIA-569-F and agreed to defer issuing a ballot until the revision to the revision of TIA-568.1 has been developed. Cindy Montstream was appointed as editor. She plans to have a draft in June for approval to ballot during the June 2024 meeting.

2.2.3. TR-42.5 – Telecommunications Infrastructure Terms and Symbols

Ron Tellas presented TR42-2024-02-033.

Scott Eischens of CommScope was elected as Vice-Chair of TR-42.5 by acclamation.

There were no changes or additions to definitions or acronyms.

2.2.4. TR-42.7 – Telecommunications Copper Cabling Systems

Brian Ceella presented TR42-2024-02-034.

Brad Woodman of Molex was elected as Vice-Chair of TR-42.7 by acclamation.

TR-42.7 resolved ballot comments to *ANSI/TIA-568.5 addendum 1 (corrections to TIA-568-5 single-pair cabling)*, appointed Caspar Arbeeny as the new editor, and agreed to publish.

TR-42.7 resolved ballot comments to TIA-TSB-184-A-2, *power delivery over single-pair cabling*, appointed George Zimmerman as the new editor, and authorized a recirculation ballot for the entire document.

TR-42.7 resolved ballot comments to TSB-190-A (shared pathways and shared sheathes) and authorized a limited recirculation ballot.

TR-42.7 authorized publication of ANSI/TIA-568.2-E (*Balanced Twisted-Pair Telecommunications Cabling and Components Standard*) at the previous meeting.



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TR-42.7 agreed to keep ANSI/TIA-568.6 (Single Pair Multi-Drop (SPMD)) on the agenda and expects to receive contributions for the next meeting.

2.2.5. TR-42.9 – Industrial Telecommunications Infrastructure

Brian Shuman presented TR42-2024-02-035.

TR-42.9 deferred document resolution for TIA-1005-B (*Industrial Premises*) pending TIA-568.7 approval.

TR-42.9 resolved ballot comments to TIA-568.7 (*Industrial Single-Pair Ethernet*) and authorized a recirculation ballot.

2.2.6. TR-42.11 – Optical Fiber Systems

Phil Irwin presented TR42-2024-02-036.

Dan Morris was elected as Vice-Chair of TR-42.11 by acclamation.

TR-42.11 reviewed contributions to addendum 1 to TIA-568.3-E and authorized a call for comments.

TR-42.11 requests a new person to replace Pete Pondillo as Liaison for IEC SC86C.

2.2.7. TR-42.12 – Optical Fibers and Cables

David Kozischek presented TR42-2024-02-037.

David Kozischek was re-elected as Chair of TR-42.12 by acclamation.

Ron Tellas was elected as Vice-Chair of TR-42.12 by acclamation.

TIA-455-3C (FOTP-3) *Temperature Ramps and Precision* is out for ballot.

TR-42.12 authorized publication of ANSI/TIA 492AAAF *Multimode* (adopt with modifications of IEC 60793-2-10:2019) at the previous meeting.

TIA-455-133-A (05/2003) adoption of the IEC 60793-1-22:2001 *Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement has no action until IEC 60793-1-22* is published.

TR-42.12 authorized the 1st ballot for TIA-455-203-A (03/2009) FOTP-203 adoption of IEC 61280-1-4 *Fibre Optic Communication Subsystem Test Procedures – Part 1-4: General Communications Subsystems – Light Source Encircled Flux Measurement Method*

TIA-455-204-A (10/2013) adoption of the IEC 60793-1-41:2010 *Optical fibres Part 1-41: Measurement methods and test procedures – Bandwidth* has no action until IEC 60793-1-41 is published later this year.

ANSI/TIA-598-D (*Optical Fiber Cable Color Coding*) revision is under development with Daniel Smith as new editor and Sunny Xu assisting him.

TR-42.12 reviewed the status and next steps for withdrawn documents (FOTP-54 and FOTP-124).

TR-42.12 reviewed and voted on actions for maintenance projects.

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

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Sunny Xu presented TR42-2024-02-038.

TR-42.13 authorized a call for comments ballot for revision of ANSI/TIA-604-10 (FOCIS 10), *Fiber Optic Connector Intermateability Standards – Type LC*. The revision will add dual duplex LC belly-to-belly pitch and latch dimensions as informative annex for active device receptacle specifications.

TR-42.13 authorized a call for comments ballot for revision of ANSI/TIA-455-11 (FOTP 11), *Vibration Test Procedures for Fiber Optic Components and Cables*, including updating various MIL-STD and TIA references.

TR-42.13 authorized an approval ballot for ANSI/TIA-623.31, Adoption of IEC 61755-3-31:2015, *SM Angled Polyphenylene Sulphide Rectangular Ferrules* and approved publication if there are no technical comments.

TR-42.13 authorized an approval ballot for ANSI/TIA-455-225 (FOTP 225), Adoption of IEC 61745 *End-Face Image Analysis Procedure for the Calibration of Optical Fibre Geometry Test Sets* and approved publication if there are no technical comments.

TR-42.13 authorized an approval ballot for ANSI/TIA-455-231 (FOTP 231), Adoption of IEC 61315 – *Calibration of Fibre-Optic Power Meters* and approved publication if there are no technical comments.

TR-42.13 authorized an approval ballot for reaffirmation of ANSI/TIA-604-5 (FOCIS 5), *Fiber Optic Connector Intermateability Standard - Type MPO*.

TR-42.13 authorized an approval ballot for reaffirmation of ANSI/TIA-604-18 (FOCIS 18), *Fiber Optic Connector Intermateability Standard - Type MPO-16*.

TR-42.13 reviewed the status of maintenance projects.

2.3. NEC Public Input Task Group

There was no activity since the last TR-42 meeting. A meeting of this group will be called by Ron Tellas.

2.4. Other old business

There was no other old business.

3. New Business and output documents

3.1. TIA Agenda and report new templates

These and other documents will continue to be updated as the ANSI Audit proceeds. The latest forms are posted in TIA Connect.

3.2. Output documents

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

- TIA TSB-6000 draft after incorporation of comments
- ANSI/TIA-568.5-1 current draft.



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- TIA TSB-184-A-2 draft with cleaned up PDF.

3.2.2. IEEE 802.3

- TR-42 reviewed and approved the outgoing liaison to IEEE (2024-02-042a) informing them that Bob Voss is the TR-42 liaison to IEEE 802.3 and requesting their assistance to verify the information in TIA TSB-6000.
- TR-42 also unanimously agreed to empower the TR-42 chair to create and send outgoing liaisons for simple notifications such as informing other SDOs of a new outbound liaison.

3.2.3. US TAG to IEC TC 46

- None

3.2.4. Other SDOs

- None

3.3. New Business

3.3.1. TIA-942 Data Center Certification Update 2023

Jacques Fluet provided an update regarding TIA-942 data center certifications in 2023 and reviewed the contribution (2024-06-044) it in TR-42. TIA certifications and standards are used globally.

3.3.2. Speaking at industry Events

The chair reviewed 2024-06-043 Speakers Bureau and Presenting at Industry Events for Outreach. There was no objection to doing outreach and for the TR-42 Leadership to establish guidelines and use BICSI as a trial for outreach.

3.3.3. Liaison Report Formats

The chair requested that incoming liaisons use a tabular format showing the relevant standards from the other organization and include highlighting to indicate changes in status since the previous report.

3.3.4. Standards for conducting meetings

All TR-42 members and particularly leadership are encouraged to attend the TR-42 Opening Plenary as we will be discussing standards for conducting and participating in the meetings.

Please add organization name before first name when entering your name in the GotoWebinar registration.

Only one vote per organization and only members of quorum are permitted to vote unless otherwise specified by the chair (e.g., for straw polls).

Please do not speak unless recognized by the chair. Use the hands-raised function request to be recognized if remote or physically raise your hand if present in person.

3.3.5. Attendance

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TR-42 agreed that the June 2024 meeting will be hybrid with only best-effort provisions for remote users. Members are encouraged to attend the June 2024 meeting in person.

3.3.6. Other New Business

There was no other new business.

4. TR-42 Photography Contest

The winner of this meeting's photo contest is Sunny Xu - Church in the Greek Style.

5. Action items derived from this meeting & leadership meeting

TR-42 LEADERSHIP

- a) **Henry Franc** to send IEEE liaison letter (2024-02-042)
- b) **Henry Franc** to send an email to incoming liaison officers regarding expectations for incoming liaison reports. Liaison officers are required to send their reports to TR-42 but may defer their presentation to a subcommittee.
- c) **Henry Franc** to determine new liaison for IEC SC 86C.
- d) **Henry Franc** to come up with wording with TIA to explain that meeting is hybrid best effort only.
- e) **Cindy Montstream** to produce the meeting schedule for the next meeting.
- f) **Ron Tellas** to call a meeting of the NEC Input Task Group.
- g) **Jonathan Jew** to submit the copyright request for sharing current drafts of TIA TSB-6000, ANSI/TIA-568.5-1, and TIA TSB-184-A-2 with USTAG JTC 1 SC 25 WG 3.
- h) **TR-42 leadership** to specify what is needed for a repository for editors – Word files, drawings, templates. TIA will need to be created in a folder accessible by TR-42 Leadership and Editors only.
- i) **TR-42 Leadership** to initiate outreach efforts starting with establishing guidelines at the next TR-42 Leadership meeting and determining content for a BICSI masterclass.
- j) Need to ensure that TIA follows up on action items – TR-42 leadership to follow up with TIA on these after the TR-42 meetings and before the next one.
- k) TR-42 Leadership to consider modifying the meeting template to review the action items earlier in the meeting.

TIA ACTION ITEMS

- l) TIA Legal to review the TR-42 Editor's Guide and provide a changed tracked version with any proposed revisions with currently available information so that it can be made available to new editors. A further update can be made after the ANSI audit.
- m) TIA to provide sales data for TR-42 standards.



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- n) TR-42 requests a database of TR-42 standards including name, number, date of publication, subcommittee, ANSI or TIA. If possible, add automated performance metrics to TR-42 standards database so that TR-42 leadership can be notified of deadlines, etc. (Update from TIA: In process. Have provided to subcommittees upon request)
- o) TIA to continue discussions with ICEA regarding updating of FOTP documents and provide status to TR-42 leadership. (Update from TIA: a signed MOU was sent to ICEA).
- p) TIA to develop a list of relevant TIA standards and how to reference them for NFPA and other SDOs. Update from TIA: more information requested).
- q) TIA to determine how we can modify the voting pool for determining participation for closing ballots to only count organizations that are submitting votes (e.g., not counting voters that have not voted in the last 3 subcommittee's ballots). ECOP modifications to modify the voting pool must be approved by TSSC and cannot be performed until the ANSI audit is completed.
- r) TIA to provide training regarding the balloting process after the ANSI audit.
- s) TIA to provide a web page on the TIA website for Lifetime Awards.
- t) TIA should consider marketing and promotion of standards would help engage more people, including within the sponsoring organization, to explain the value of participation in standards.
- u) IEC has a young professional program to engage younger people that TIA may want to emulate.

TR-42 SUBCOMMITTEE LEADERSHIP

- v) TR-42 and subcommittees are requested to post their quorum spreadsheets in the meeting folders to allow members to confirm their voting status.,
- w) TR-42 subcommittee chairs shall note their intent to send a document to another SCO in their reports.
- x) TR-42 subcommittee leaders are encouraged to set up and test audio 15 minutes before their meetings.
- y) Subcommittees are encouraged to have EDC & Secretary to provide leadership training for new participants.
- z) Engagement is a problem – we aren't getting accurate responses from attendance polls and enough people voting in ballots. TR-42 and TR-42 subcommittee leadership needs to find ways for people to get more engaged

ALL TR-42 MEMBERS

- aa) TR-42 members are requested to respond to attendance polls to ensure that TIA has accurate information to book locations. Members are encouraged to attend meetings in person.
- bb) Anyone that wants to volunteer for participating in outreach efforts to contact Henry Franc.
- cc) Participants are requested to enter meetings early to ensure that audio is working properly.



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6. Upcoming Meetings

6.1. Next meeting

- June 3-7, 2024, hybrid (date fixed, location TBD)

6.2. Subsequent meetings

- October 7-11, 2024, hybrid (date fixed, location TBD)
- Jan 27-31, 2025, (date fixed, hybrid, location in proximity to Kissimmee FL)
- June 2-6, 2025, (date fixed, hybrid, location TBD)
- October 6-10, 2025, (date fixed, hybrid, location TBD)

TR-42 resolved without objection to hold hybrid meetings through 2025.

Hybrid is best effort only. Members are encouraged to participate in person and to participate in polls regarding plans to attend. TIA incurs penalties if it does not meet the room commitment or if too many people beyond the expected number book rooms.

7. Meeting schedule for June 2024 Meeting

The meeting schedule for the next meeting will be developed by correspondence with 1 ½ hour breaks for lunch.

TR-42 will NOT implement flex scheduling at the next meeting, as notifications from the platform of the revised meeting times was not working.

TAG meetings will not be included in the meeting schedule during the week of the TR-42 meetings to reduce meeting costs.

8. Adjournment

The meeting was adjourned at 11:04 AM EST.

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

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*"

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- Scroll down the page and select “*TR-42 Telecommunications Cabling Systems*”
- Click on “*Documents*” and then select the subfolder for the meeting

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:

Henry Franc, Chair	henry.franc@belden.com	+1 416-476-1336
Cindy Montstream, Vice-Chair	Cindy.montstream@legrand.com	+1 860-208-5261
Jonathan Jew, EDC & Secretary	jew@j-and-m.com	+1 415-515-4304