Approved by General Counsel

TR-42.9 Subcommittee on Industrial Telecommunications Infrastructure

Meeting Date: 05 February 2024

Location: Charleston, SC

Approved: 26 February 2024
TR-42.9 Meeting Report

Organization: Engineering Committee TIA TR-42.9
Industrial Telecommunications Infrastructure

Chair: Brian Shuman – Belden, (765) 983-5667
Vice Chair: Brad Woodman – Molex, (630) 718-5789
Date: Monday, February 5, 2024
Location: Charleston, SC/Hybrid Virtual Online

1. ADMINISTRATION

1.1. Call to order
The meeting was called to order by the chair 1:32 PM EST.

1.2. Notice of Participation
The important notice of participation was reviewed.

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-42.9 standards projects from the user and general interest communities.

1.3. Attendance (call quorum, introductions, electronic roster)
Total of 41 attendees were present. The attendees themselves and attendance was registered using the TIA electronic roster sign-in process. Quorum was achieved (verified by roster call).

Attendees:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mahoney, Patrick</td>
<td>AECOM</td>
<td>Woodman, Brad</td>
<td>Molex</td>
</tr>
<tr>
<td>Camp, David</td>
<td>Belden</td>
<td>Martis, Nash</td>
<td>Morrison Hershfield</td>
</tr>
<tr>
<td>Shuman, Brian</td>
<td>Belden</td>
<td>Smith, Daniel</td>
<td>Nest Technical Services</td>
</tr>
<tr>
<td>Arbeeny, Caspar</td>
<td>Belden</td>
<td>Voss, Bob</td>
<td>Panduit</td>
</tr>
<tr>
<td>Tellas, Ron</td>
<td>Belden</td>
<td>Savoie, Jacob</td>
<td>Proterial</td>
</tr>
<tr>
<td>Zimmerman, George</td>
<td>CME Consulting</td>
<td>Thwaites, Steve</td>
<td>Prysmian</td>
</tr>
<tr>
<td>Hess, Dave</td>
<td>Corddata</td>
<td>Jeskey, David</td>
<td>Sentinel</td>
</tr>
<tr>
<td>Kozischek, David</td>
<td>Corning</td>
<td>Celella, Brian</td>
<td>Siemon</td>
</tr>
<tr>
<td>Thomlinson, Les</td>
<td>DND</td>
<td>Hudepohl, Konstantin</td>
<td>Softing</td>
</tr>
<tr>
<td>Su, ShengKai</td>
<td>Dan-Chief</td>
<td>Girma, Solomon</td>
<td>Superior Essex</td>
</tr>
<tr>
<td>Calle, Olivier</td>
<td>Fluke Networks</td>
<td>Pickles, Tim</td>
<td>Surtec America</td>
</tr>
<tr>
<td>Winston, William</td>
<td>Fluke Networks</td>
<td>McGarry, Tom</td>
<td>TIA</td>
</tr>
<tr>
<td>Henriques, Fabianne</td>
<td>Furukawa</td>
<td>Thibideau, Cheryl</td>
<td>TIA</td>
</tr>
<tr>
<td>McElroy, Andy</td>
<td>Harger</td>
<td>Ehredt, Al</td>
<td>Telegartner</td>
</tr>
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</table>
1.4. Agenda review and approval (TR429-2024-02-001)

Motion: Approve agenda as presented in the meeting
MOTION PASSES by voice without any opposition

1.5. Previous meeting reports review and approval (TR429-2023-09-018, TR429-2023-10-020)

Motion: Approve meeting report as posted
MOTION PASSES by voice without any opposition

1.6. Intellectual property rights (early disclosure policy)

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.

1.7. Distribution of documents and contributions

<table>
<thead>
<tr>
<th>Document</th>
<th>Contributor</th>
<th>Company</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR429-2023-09-018</td>
<td>Brian Shuman</td>
<td>Belden</td>
<td>September 25th Meeting Report</td>
</tr>
<tr>
<td>TR429-2023-10-020</td>
<td>Brian Shuman</td>
<td>Belden</td>
<td>October 31st Meeting Report</td>
</tr>
<tr>
<td>TR429-2024-02-001</td>
<td>Brian Shuman</td>
<td>Belden</td>
<td>February 5th Meeting Agenda</td>
</tr>
<tr>
<td>TR429-2023-09-016c</td>
<td>Brian Shuman</td>
<td>Belden</td>
<td>568.7 Recirculation Ballot Comments</td>
</tr>
<tr>
<td>TR429-2024-02-002</td>
<td>Brian Shuman</td>
<td>Belden</td>
<td>Combined Interim Resolution Recommendations</td>
</tr>
<tr>
<td>TR429-2024-02-003</td>
<td>Chris DiMinico</td>
<td>MC Communications</td>
<td>IEEE Multi Drop Presentation</td>
</tr>
</tbody>
</table>

1.8. Chair’s Report and General Items

1.9. List of Standards & TSBs from Committee

<table>
<thead>
<tr>
<th>Document</th>
<th>Title</th>
<th>Date of Revision</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI/TIA-1005-A</td>
<td>Telecommunications Infrastructure Standard for Industrial Premises</td>
<td>3/17/2020</td>
<td>In progress</td>
</tr>
<tr>
<td>ANSI/TIA-1005-B</td>
<td>Telecommunications Infrastructure Standard for Industrial Premises</td>
<td>In progress</td>
<td>Recirculation Ballot</td>
</tr>
<tr>
<td>ANSI/TIA-568.7</td>
<td>Balanced single twisted-pair communications cabling and components Standard for Industrial Premises</td>
<td>In progress</td>
<td>Recirculation Ballot</td>
</tr>
</tbody>
</table>
2. Old Business

2.1. ANSI/TIA-1005-B
   2.1.1. Recirculation ballot of ANSI/TIA-1005-B
   Comment Resolution
   All comments resolved
   Document disposition tabled until next meeting

2.2. ANSI/TIA-568.7 Industrial SPE
   2.2.1. Recirculation ballot of ANSI/TIA-568.7
   Comment Resolution
   Completed ballot resolution
   Motion: To accept completed comment resolutions and agree to go out for recirculation ballot.
   MOTION PASSES by voice without any opposition

2.3. Other old business
   No other old business was reported.

3. New Business

3.1. Multidrop Mixing Segment Considerations
   Presentation given regarding current status of IEEE work.

3.2. Incoming liaison letters
   No incoming liaison letters were reported.

3.3. Other new business
   None

3.4. Outgoing liaison letters
   None

5.4. Output documents for US-TAG
   None

4. Upcoming meetings
   June 3-7, 2024 – Hybrid (date fixed, location TBD)
   October 7-11, 2024 – Hybrid (date fixed, location TBD)

5. Adjournment

   MOTION: To adjourn
   MOTION PASSES by voice without any opposition
   Adjourned at 2:51 PM EST

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

AVAILABILITY OF MEETING DOCUMENTS:
TR-42.9 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:
Go to connect.tiaonline.org
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-42.9 Industrial Telecommunications Infrastructure”
Click on “Documents” and then select the “2023-06 Virtual” 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 TR42 FTP site for download. All contributions shall be submitted to Brian Shuman@Belden.com. 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).

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.

LATE CONTRIBUTIONS:
Contributions not posted as described in the timing above shall be classified as “late contributions.” They may be considered at the discretion of Chair or V-Chair.

Questions and Comments concerning this agenda should be submitted to:
Chair: Brian Shuman Ph: (765) 983-5667 E: brian.shuman@belden.com
Vice-chair: Brad Woodman Ph: (630) 718-5789 E: bradley.woodman@molex.com