<u>Approved by General Counsel</u>

TR-51 Meeting Report

Date(s): 09/14/2012 - 09/14/2012

Location: Indian Wells, CA

Approved: 09/18/2012

MEETING REPORT
TIA TR-51 Smart Utility Networks
Friday September 14, 2012
9 AM to 5 PM PDT, at the Hyatt Regency, Indian Wells, CA
Chair: Michael Lynch, MJ Lynch & Associates LLC

Presiding: Michael Lynch, MJ Lynch & Associates

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1. Call to Order

The meeting was called to order by the Chair, Michael Lynch, at 9:16 AM PDT on September 14, 2012.

John Notor, Smart Utility Network Alliance, is the Secretary for TR-51.

2. Attendee Introductions and E-Sign-In

The attendees on the call were directed to use the e-roster systems to sign-in to the meeting.

Participants used the GoToMeeting service made available for this purpose**.**

See Annex A for the list of attendees to this meeting.

Quorum was established with 10 of 10 member companies present.

3. Chairs remarks

The Chair offered brief opening remarks.

4. Intellectual Property Rights

The attendees were directed to note the IPR statement on the agenda and requested to make it known if there are any patents related to the work of the committee.

5. Review and Approve Agenda

The agenda, TR51-20120914-002_r6, was reviewed, amended, and approved without objection.

6.   Review and Approve July 12, 2012, Meeting Report

The July 12, 2012 teleconference meeting report was reviewed, revised, and approved by unanimous consent.

7.   Technical Contributions – Layer 2 Comment Resolution and Decision on Publication

Phil Beecher, Chair of the L2 Ad Hoc, reported the ballot results for the L2 draft, 6 approve, 1 approve with editorial comments, 1 abstain. Phil further reported that the L2 Ad Hoc group had resolved the editorial comments satisfactorily at their teleconference meeting on September 10, 2012 and that the document was ready for publication. The following motion was made:

Motion: To approve for publication ANSI_TIA-PN4957_200_d3 0v11.pdf.

Moved: SUNA
Second: Beecher Communication Consultants, LTD
Discussion: None
Vote: 9 **Yes** 0 **No** 1 **Abstain**
Motion Passed

8.   Technical Contributions – Layer 2 Multi-hop Draft Review and Go to Ballot

Phil Beecher, Larry Taylor and Tom Herbst commented that the original draft document for Layer 2 Multi-hop Distribution Service (MHDS) had been improved and updated, and was ready to go to ballot. The following motion was made:

Motion: To approve for balloting ANSI_TIA_PN4957_210_Multi-Hop Layer 2_Sub-Layer_Draft_Specificiation_1v6.pdf.

Moved: Beecher Communications Consultants, LTD
Second: Blind Creek Associates
Discussion: None
Vote: 10 **Yes** 0 **No** 0 **Abstain**
Motion Passed

9.   Technical Contributions – Layer 3 Draft Review

Tom Herbst opened the discussion of the newly created Layer 3 Draft. Larry Taylor reviewed the document with the committee and explained the details. There were questions and some discussion of technical details.

The following motion was made:

Motion: To approve for balloting ANSI_TIA_PN4957.300_Network-Layer_Draft_Specificiation_0v13 Final.pdf.

Moved: Proto6 LLC
Second: Silver Spring Networks
Discussion: None
Vote: 9 **Yes** 0 **No** 0 **Abstain**
Motion Passed

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The meeting was recessed at 10:45 AM

The meeting was reconvened at 11:01 AM

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10.   Technical Contributions – Layer 4 Draft Review

Tom Herbst opened the discussion of the newly created Layer 4 Draft. There was discussion about whether to specifically address security in Layer 4 by including a standard transport layer protocol, for example the Transport Layer Security (TLS) protocol in the document. The consensus was to avoid including security in Layer 4. Larry Taylor introduced the document details to the committee.

The following motion was made:

Motion: To approve for balloting ANSI_TIA_PN4957.400_Transport-Layer_Draft_Specificiation_0v11 Clean.pdf.

Moved: Analog Devices, Inc.
Second: MJ Lynch & Associates, LLC
Discussion: None
Vote: 9 **Yes** 0 **No** 0 **Abstain**
Motion Passed

11.   Technical Contributions – Overview Document Draft Review

Phil Beecher opened the discussion of the newly created Overview and Architecture Document. Phil explained the purpose of the document. After some discussion, the group agreed that a new project authorization was necessary before the document could go to ballot. Phil further clarified that the current draft needed more work before being sent out to ballot.

The following motion was made:

Motion: To approve creating new a project to draft an additional chapter to ANSI_TIA_PN4957 titled ANSI_TIA_PN4957.000_Overview_and _Architecture.

Moved: SUNA
Second: Analog Devices, Inc.
Discussion: None
Vote: 9 **Yes** 0 **No** 0 **Abstain**
Motion Passed

12. Technical Contributions – Layer 1 Publication Status

The Chair opened the discussion of Layer 1 status, especially with respect to agreements between the IEEE SA and TIA on the details of the copyright agreement for sections of the Layer 1 chapter that were derived from the amendment to the IEEE 802.15.4 base standard published as IEEE 802.15.4g. The Chair explained that the IEEE SA was taking the position that material from IEEE 802.15.4g must be included by reference only, not by repeating the text of IEEE 802.15.4g in the TR-51 Layer 1 specification.

This caused some consternation among the committee members, especially in terms related to the readability of the resulting document. The Chair and other available committee members were planning to follow up with the IEEE SA and IEEE 802 leadership to see if another arrangement could be made.

13. Any Other Business – Meeting Schedule

The Chair opened the discussion of future meetings. The Chair proposed a face-to-face meeting on Friday November 16, 2012 at the Grand Hyatt San Antonio coincident with the closing of the IEEE 802 Plenary being held that week. The Chair's proposal was agreed to and, after some discussion, the group agreed that the meeting would be scheduled to start at 8 AM CST and end at 12:30 PM CST.

Larry Taylor opened the issue of a request by ETSI to receive an updated copy of the Layer 2 specification. Jeff Hannah agreed to follow up on the request.

14. Adjournment

The meeting was adjourned at 12:09 PDT.

This meeting was conducted in accordance with the TIA Engineering Manual and Legal Guide.

Submitted by

John Notor, Smart Utility Network Alliance
TR-51 Secretary

ANNEX A

Attendees to the TR-51 September 14, 2012 Meeting at the Hyatt Regency, Indian Wells, CA

Attendee	Company / Representing
Beecher, Phil	C: Beecher Communications Consultants Ltd
Rolfe, Benjamin	C: Blind Creek Associates
Taylor, Larry	C: DTC (UK)
Lima, Octavio	C: Ericsson Inc.
Kent, Jerritt	C: ADI
Harada, Hiroshi	C: NICT
Lynch, Michael	C: MJ Lynch & Associates
Herbst, Tom	C: Silver Spring Networks
Shah, Kunal	C: Silver Spring Networks
Notor, John	C: Smart Utility Network Alliance
Hannah, Jeff	C: TIA
Kojima, Fumihide	C: NICT
Mulligan, Geoff	C: Proto6 LLC
Sum, Chin Sean	C: NICT