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## Approved by General Counsel

TR-51 Meeting Report

Date(s): 04/11/2012 - 04/12/2012

Location: Boston, MA

Approved: 04/13/2012



**MEETING REPORT  
TIA TR-51 Smart Utility Networks  
Tuesday and Wednesday, April 11-12, 2012**

**Hyatt Harborside  
Boston, MA**

**Presiding: Mike Lynch, MJ Lynch Associates**

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**1. Call to Order**

The meeting was called to order by Mike Lynch (MJ Lynch Associates) at 9:45 AM on April 11.

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

**2. Attendee Introductions and E-Sign-In**

The attendees in the room and on the call introduced themselves. They were directed to use the e-roster systems to sign-in to the meeting.

Remote 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 9 of 9 member companies present.

**3. Chairs remarks**

Mike Lynch 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, TR51-20120411-002\_agenda\_Draftv1.doc, was reviewed and approved without objection.

6. **Review and Approve February 2012 Meeting Report**

The draft meeting report, distributed as contribution TR51-20120221-003\_Meeting\_Report\_Feb\_2012\_r2.doc, was reviewed and approved by unanimous consent.

7. **TR-34 Presentation – Anthony Noerpel, TR-34**

Anthony presented document TR51-20120411-004\_Satcom\_in\_the\_Smart\_Grid\_Noerpel.pptx. There were several comments about the match between satellite systems and terrestrial smart grid systems, as well as a discussion of issues related to disaster relief support.

Anthony agreed to set up a liaison between TR-34 and TR-51.

8. **Technical Contributions – Layer 1**

Discussion opened on the status of the ballot for ANSI-TIA-PN-4957\_d2.100.pdf. George Ivanov pointed out that the balloting period had been extended, and there were only two votes received. George also pointed out that everyone has to vote again on a recirculation ballot, the vote for a previous ballot was not carried forward in the TIA process.

**The Chair recessed the meeting at 10:30 AM to allow voters to complete their balloting.**

**The Chair reconvened the meeting at 10:45 AM.**

The Chair opened the discussion of L1 status, turning the meeting over to Hiroshi Harada. There was considerable editing of L1 based on comments by Jeritt Kent and others.

**The Chair recessed the meeting at 1:10 PM for lunch.**

**The Chair reconvened the meeting at 2:30 PM.**

Further review of L1 continued. When editing was done, a straw poll was taken to determine whether the document needed to be recirculated for balloting. The poll result was unanimous support for going to publication.

The document tables of contents, figures, etc., were updated, all changes were accepted and the document was uploaded to the TR-51 working directory for the Boston meeting as ANSI-TIA-PN-4957 100 - d4.doc.

**The Chair recessed the meeting at 3:45 PM until Thursday at 9:30 AM.**

**The Chair reconvened the meeting on Thursday at 9:47 AM.**

Quorum was established with 9 of 9 member companies present.

The baseline L1 document is now ANSI-TIA-PN-4957 100 - d4c.doc, which includes some additional editing to remove comments embedded in the document and to make other minor editorial changes.

The consensus in the room is that the document ready for publication.

Motion: To approve ANSI-TIA-PN-4957 100 - d4c.doc for publication.

Moved: Hiroshi Harada (NICT)

Second: Phil Beecher (Beecher Communications Consultants Ltd.)

Discussion: None

Vote: 8 Yes 0 No 1 Abstain

Motion: Passed

**9. Technical Contributions – Layer 3**

Tom Herbst, Silver Spring Networks, presented TR51-20120411-006\_L3\_presentation.pptx, an introduction to the L3 approach. The title is “Routing, Forwarding, and Layer 3”.

There was discussion of the details and options in routing approach. The contribution included a brief discussion on power management.

A discussion of Layer 3 protocols, i.e., IPv6, IPv4, or other protocols was introduced.

**10. Liaisons**

Phil Beecher, Beecher Communications Consultants Ltd., provided an update to OpenSG and NIST SGIP activities.

Octavio Lima, Ericsson, provided an update regarding TR-50 activities. The new chair is restructuring TR-50. New project numbers have been opened and work has started.

Hiroshi Harada, NICT, provided an update regarding ARIB. Hiroshi reported that ARIB had published Std-T108 regarding recommendations for operation in the 928 MHz band. The document is available at no cost on the ARIB web site in English.

**11. Other Business**

The Chair reported briefly on the status of the liaison with IEEE 802 regarding publication of the L1 standard.

**12. 2012 Meeting Schedule**

The meeting schedule going forward was reviewed. Meetings are agreed as follows:

1. June 5, 2012, in Grapevine, TX, at the Gaylord Texan, co-located with TIA 2012.
2. September 14, 2012, at the Hyatt Grand Champion, Indian Wells, CA.

The L2 Ad Hoc Chair, Phil Beecher, will schedule L2 Ad Hoc teleconferences prior to the June 2012 meeting.

**The Chair recessed the meeting at 11:22 PM until 2 PM.**

**The Chair reconvened the meeting at 2:13 PM.**

The subject for discussion is submission of the L2 document to balloting. The L2 document is now ANSI\_TIA-PN4957\_200\_d1.docx.

The consensus in the room is that the document ready for submission to balloting.

Motion: To approve ANSI\_TIA-PN4957\_200\_d1.docx for submission to balloting per TIA rules.

Moved: Phil Beecher (Beecher Communications Consultants Ltd.)

Second: Jeritt Kent (ADI)

Discussion: None

Vote: 8 Yes 0 No 0 Abstain

Motion: Passed.

Motion: To approve TR51-20120411-003\_April\_2012\_meeting\_report.doc, authorizing the Secretary to make editorial changes prior to submission to TIA legal review.

Moved: John Notor (SUNA)

Second: Phil Beecher (Beecher Communications Consultants Ltd.)

Discussion: None

Vote: 8 Yes 0 No 0 Abstain

Motion: Passed.

**13. Adjournment**

There being no further business, the meeting was adjourned at 2:20 PM.

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 February 2012 Meeting:

<b>Attendee</b>	<b>Company / Representing</b>
Kent, Jeritt	C: Analog Devices, Inc.
Beecher, Phil	C: Beecher Communications Consultants Ltd
Rolfe, Benjamin	C: Blind Creek Associates
Taylor, Larry	C: DTC (UK)
Lima, Octavio	C: Ericsson Inc.
Herbst, Thomas	C: Silver Spring Networks
Harada, Hiroshi	C: NICT
Shah, Kunal	C: Silver Spring Networks
Notor, John	C: Smart Utility Network Alliance
Seibert, Cristina	C: Silver Spring Networks
Lynch, Michael	C: MJ Lynch Associates
Ivanov, George	C: TIA
Kojima, Fumihide	C: NICT
Sum, Chin Sean	C: NICT
Noerpel, Anthony	C: Hughes