

## ADMINISTRATIVE COUNCIL FOR TERMINAL ATTACHMENTS (ACTA)

TITLE: Summary of TR-41 Meetings held since July 26, 2012.

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### ABSTRACT

This contribution provides a summary of the TR-41 virtual meetings held August, 2012, and the TR-41 face-to-face meeting held Nov. 5-9, 2012, in Las Vegas, NV. TIA Engineering Committee TR-41, *User Premises Telecommunications Requirements*, addresses voluntary standards for telecommunications terminal equipment and systems, specifically those used for voice service, integrated voice and data service and Internet protocol (IP) applications. **TR-41 develops telephone terminal equipment technical criteria for preventing harm to the telephone network. This TTE criteria becomes mandatory when adopted by the Administrative Council for Terminal Attachments (ACTA).** The work of TR-41 involves developing performance and interface criteria for equipment, systems and private networks, as well as the information necessary to ensure their proper interworking with each other, with public networks, with IP telephony infrastructures and with carrier-provided private-line services. TR-41 also provides input on product safety issues, identifying environmental considerations for user premises equipment, and addressing the administrative aspects of product approval processes.

**Topics that may be of interest to ACTA are highlighted with green font.**

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## **Summary of TIA TR-41 Meetings held since July 26, 2012.**

### **TR-41 User Premises Telecommunications Requirements**

#### **1. TR-41 Virtual Meetings Held Aug. 6-17, 2012**

In August, 2012, TR-41 held virtual meetings of the TR41.3, TR41.7, and TR41.9 subcommittees. A TR-41 Plenary meeting was held on Aug. 17. To simplify this summary, significant items from the virtual meetings of TR-41 have been included in the summaries of the November meeting of TR-41 for each subcommittee below.

#### **2. Future Meetings of TR-41:**

The next face-to-face meeting of TR-41 will be held Feb. 4-8, 2013, in Tampa Fl. Additional information is available on the TIA web site.<sup>1</sup>

The 2Q 2013 meeting of TR-41 will be held April 29-May 3, 2013, at TBD.

The 3Q 2013 virtual meetings of TR-41 and its subcommittees will be held Aug. 5-15, 2013.

The 4Q 2-13 meetings of TR-41 will be held October 7-11 in conjunction with the TIA2013 Conference.

#### **3. TIA2013 Conference**

The TIA2013 Conference will be held October 8-9, 2013, at the Gaylord National Resort and Conference Center located in National Harbor MD, just south of Washington, D.C., on the Potomac River. TR-41 will hold its 4<sup>th</sup> quarter 2013 face-to-face standards meeting in conjunction with this event. Additional information is available on the TIA web site.<sup>2</sup>

### **TR41.3 Analog and Digital Wirline Terminals**<sup>3</sup>

Jim Bress (AST) is the Chair of TR41.3. Allen Woo (Plantronics) is the Vice Chair.

**1. Handset Acoustic Performance Requirements for Analog Telephones:** The draft standard for TIA-470-110-D is expected to go out for ballot before the end of the year. The target completion date is now May 2013.

**2. Transmission Requirements for Wideband Digital Wireline Speakerphones:** The TIA-920.120-A standard has been completed and submitted to TIA for publication.

**3. Network Signaling Performance Requirements for Analog Telephones:** The reaffirmation of ANSI/TIA-470.230-C was completed in Oct. 2012.

**4. Cordless Telephone Operation and Feature Performance Requirements:** The reaffirmation of ANSI/TIA-470.320- C was completed in Oct. 2012.

**5. Transmission Requirements for Narrowband Digital Telephones:** The project to revise ANSI/TIA-810-B opened in July, 2012. Revisions proposed by Tin Lawler (Cisco) were incorporated into the draft standard in August. At the November meeting, it was agreed that TIA-810-B will be split into three separate standards (ANSI/TIA-810.110-C: Handset,

ANSI/TIA-810.120-C: Speakerphone, and ANSI/TIA-810.130-C: Headset). Steve Whitesell (Whitesell Consulting) is the editor. Expected completion date is May, 2013.

**6. Analog Telephone Port Requirements for Packet-based User Premises Terminal Equipment:** The decision on whether to open a project to revise ANSI/TIA-1063-2007 has been put off until the next meeting of TR41.3.

**7. Receive Volume Control Requirements for Digital and Analog Wireline Terminals (ANSI/TIA-4965):** The ANSI review period for this standard ended with no comments and the standard was published in October, 2012.

**8. Project to Revise TSB-177 to add logos for TIA-4965:** TR41.3 opened a project in August to revise TSB-177 to add logos for telephones compliant with the TIA-4965 volume control standard. An interim meeting in September, 2012, finalized the draft proposed revision of TSB-177. The revised document (TSB-177-A) was approved in October. TR41.3 agreed to send the document to TIA for publication.

**9. Wideband Performance of Analog Interface Telephones.** TR-41.3 has approved four new projects to develop standards related to wideband analog interface telephones. The work will be done in the TR41.3.5 working group. Steve Whitesell (Whitesell Consulting) will chair the working group and be the editor of the standards. TR41.3 agreed to change the scope of the TR41.3.5 working group to include this work. A liaison will be sent to ITU SG-12 informing them of these new standards projects.

#### **TR41.7 Environmental and Safety Considerations**<sup>4</sup>

Randy Ivans (UL) is the TR41.7 Chair. The TR41.7 Vice Chair position is currently vacant.

**1. Electrical, Thermal, Mechanical Environmental Performance Requirements:** ANSI/TIA-571-B is due for a five year review in 2012. The subcommittee reviewed several proposed changes. The target completion date for TIA-571-C is Nov. 2013. The subcommittee reviewed a contribution from Al Martin (TE Connectivity) on the subject of surges. The subcommittee made several revisions to the text on surge testing and agreed to eliminate the conditional “should comply” set of surges and make them mandatory. Work on TIA-571-C continues. TR41.7 is seeking additional comments and contributions regarding this standard.

#### **2. Audio/Video, Information, and Comm. Technology Equipment–Safety Requirements:**

The proposed 2<sup>nd</sup> edition of UL62368-1, *Audio/Video, Information and Communication Technology Equipment – Safety Requirements*, was rejected due to the inclusion of controversial requirements such as the candle flame test. Work on the proposed IEC 62368-1 2<sup>nd</sup> edition continues and the objection is to have the 2<sup>nd</sup> edition of the standard completed by mid-year 2013. The subcommittee has requested additional information regarding the future activities of the UL62368 technical harmonization committee in order to determine TIA’s role in the process.

### TR41.9 Technical and Administrative Regulatory Considerations<sup>5</sup>

Currently, the TR41.9 Chair and Vice Chair positions are vacant. Steve Whitesell (Whitesell Consulting) was the acting Chair for the August virtual meeting and Randy Ivans was the acting Chair for the November face-to-face meeting.

**1. TIA-968-B-1:** This addendum to TIA-968-B was adopted by the ACTA on August 7, 2012. The addendum became effective for all ACTA filings on that date. TIA-968-B-1 updates several informative references and corrects several errors in the tables and figures related to VDSL2.

**2. Addendum 1 to TSB-31-D, Rationale and Measurement Guidelines for U.S. Network Protection:** This addendum (TSB-31-D-1) has been published. The addendum corrects errors in the HAC/VC test procedures and clarifies the applicability of the ROLR to RLR conversion equation.

**3. Project to develop conversational gain test methods.** The TIA-4965 standard, *Receive Volume Control Requirements for Digital and Analog Wireline Handset Terminals*, was published in September, 2012. The standard is based on the concept of conversational gain. A project for a second addendum to TSB-31-D to include conversational gain volume control test methods was approved in Nov. 2011. Tim Lawler (Cisco) presented a contribution proposing new text for the second addendum to TSB-31-D to cover conversational gain volume control test methods. The text was revised by the subcommittee and approved for inclusion in draft proposed TSB-31-D-2. Randy Ivans (UL) agreed to put the text into the format of a TIA standards addendum and submit a contribution for the next meeting. TR41.9 is expected to approve the TSB-31-D-2 draft proposed addendum to TSB-31-D for a ballot at the next meeting of TR41.9.

**4. TIA-168-B Labeling Standard 5-year review:** The TIA-168-B Labeling Standard is due for a five year review. Since no proposed changes have been identified, TR41.9 approved the reaffirmation of TIA-168-B.

**5. TIA-1096-A Connector Standard 5-year ANSI review:** TR41.9 agreed to open a project to revise TIA-1096-A. The new standard will be TIA-1096-B. A three-part contribution from Sentinel Connectors described intermittent contact failures when a plug meeting the minimum dimension requirements of TIA-1096-A was inserted into a jack meeting the maximum dimension requirements of TIA-1096-A. TR41.9 requests that specific text be provided for all proposed changes at the next meeting of TR41.9.

### **6. ANSI/TIA-4965 and TIA Petition for Rulemaking.**

The ANSI/TIA-4965 standard, *Receive Volume Control Requirements for Digital and Analog Wireline Handset Terminals*, was published on Oct. 24, 2012. Members of UPED and the Public Policy Committee's Accessibility Working Group (AWG) worked with Brian Scarpelli of the TIA Staff to develop a Petition for Rulemaking requesting the FCC to adopt the new TIA volume control standard (TIA-4965) for Part 68. The petition was filed with the FCC on Oct. 25, 2012. The petition requests a 2-year transition period and asks that existing products approved using the existing ROLR method be grandfathered for life. The FCC issued a Public Notice regarding the proposed rulemaking on Nov. 1, 2012.

## 7. Inquiry about Part 68 and Optical Network Terminals.

TR41.9 reviewed and discussed a contribution summarizing questions regarding the applicability of Part 68 and ACTA database listing for Optical Network Terminals (ONTs). The subcommittee prepared a draft response that the acting chair will use to respond to the inquiry.

When determining whether or not a device deployed on customer premises needs to meet Part 68 and TIA-968-B requirements, there is one key question: Can the device be connected to a wireline carrier network through one of the interfaces covered by TIA-968-B? If so, then the device needs to meet the applicable requirements of Part 68, TIA-968-B, and TIA-1096-A.

ONTs typically have an optical input and assorted electrical outputs. Is the ONT designed with the network interface on the optical side of the ONT or the electrical side of the ONT? If the network interface is on the optical side of the ONT, then the ONT would be considered as CPE if it was installed by the customer and ordinarily it would be subject to the requirements of Part 68 and TIA-968-B. In this particular case however, there are no requirements in TIA-968-B for optical interfaces and therefore ONTs with an optical network interface do not need TIA-968-B testing.

If the network interface is on the electrical side of the ONT, then the ONT could either be classified as wireline carrier network equipment or customer terminal equipment depending on who deploys the ONT. If the wireline carrier deploys the ONT as network equipment, then the ONT would not need Part 68 or TIA-968-B testing or listing in the ACTA database of approved equipment but would however be subject to the requirements specified by the wireline carrier. Such requirements will vary depending upon the specific wireline carrier and may or may not include Part 68, TIA-968-B, TIA-1096-A, GR-63, GR-1089, etc.

If the customer deploys the ONT and the input side of the ONT connects to customer owned fiber and the DS1 and OPS electrical interfaces on the output side of the ONT can be directly connected to a wire line carrier network, then the ONT would need to meet the applicable requirements of Part 68, TIA-968-B, and TIA-1096-A and be listed in the ACTA database of approved terminal equipment.

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<sup>1</sup> <http://www.tiaonline.org/all-standards/committees/tr-41>

<sup>2</sup> <http://www.tiaonline.org/all-standards/committees/tr-41>

<sup>3</sup> TR41-12-08-005-MR1-TR41.3 Chairs Report.doc (Bress)

<sup>4</sup> TR41-12-08-006-MR1-TR41.7 Chairs Report.doc (Ivans)

<sup>5</sup> TR41-12-08-007-MR1-TR41.9 Chairs Report.doc (Ivans)