

IEEE LTSC Monthly Meeting

Tuesday, 18 June 2019, 9:00 am Eastern Daylight Time

Administrative Issues and New Business

1. Roll call, establish a quorum
 - a. Please sign in on the [IEEE LTSC Roster](#) here: <https://goo.gl/b7zQVL>
 - b. Please update your affiliation information there, if it has changed.
 - c. If you can't get to that file, just let us know you're here.
 - d. Regular attendance is required to be a voting member and to be counted towards quorum. Let us know if we've made an eligibility error.
 - e. Today: 16 voting members out of 25. Quorum achieved.
2. Review and approval of today's agenda. Please feel free to add to the notes during the meeting.
3. Review and approval of our last meeting's minutes. The notes from the recent meeting are posted on the LTSC website on the Meetings & Agenda tab, [here](#).
4. Antitrust and IP awareness
 - a. This is a TECHNICAL committee. Please familiarize yourself with [these antitrust and IP guidelines for IEEE meetings](#).
 - b. In order to prevent the situation where implementing a future patent requires an unreasonable or unfair charge by a patent holder, YOU are asked to report the existence of any patent claims that might be essential to implementers of any proposed standards (Potentially Essential Patents):
 - i. Speak up now, or
 - ii. Report any essential patents of which you are personally aware to the Chair, or
 - iii. Cause a Letter of Assurance to be submitted to the IEEE-SA, which will assure that either the patent won't be enforced or that it will be licensed on a reasonable and non-discriminatory basis.
 - c. Don't discuss
 - i. the interpretation, validity, or essentiality of patents/patent claims.
 - ii. specific license rates, terms, or conditions.
 - iii. the fixing of product prices, allocation of customers, or division of sales markets.
 - iv. the status or substance of ongoing or threatened litigation.
 - d. Don't be silent if inappropriate topics are discussed ... do formally object.
 - e. Updates from Robby Robson.
5. Temporary volunteers to take over LTSC Secretary activities (until Fall elections)
 - a. Shelly Black-Plock will help with MailChimp issues

- b. Andy Johnson will help with our WordPress websites.
- c. Avron is the first point of contact for all other issues.

6. Disbanding old projects

- a. Nescom approved our request to withdraw P1484.21, Task Model for Project-Based Learning at their 12 June meeting. We need to vote on disbanding the working group.
 - i. Motion to disband WG P1484.21, "Task Model for Project-Based Learning": Mitch Bonnett
 - ii. Second: Tia Benson-Bond
 - iii. Discussion
 - iv. Vote: passed by consensus

7. New Projects

- a. As the Chair of the IEEE Education Society's Standards Committee, Prof. Hamadou Saliah-Hassane has proposed a joint standards project between the LTSC, the Education Society, and the Industrial Electronics Society focused on security: "Security of Cyberphysical Education Laboratories."
 - i. A PAR is in preparation. Volunteers to help write PAR: Avron, Marsali, Mark Underwood
 - ii. A proposal has been submitted for IEEE discretionary funding
- b. Greg Nadeau of the Public Consulting Group and his colleagues from the Ed 3.0 community have proposed forming a new LTSC study group to look at ways to help the market understand the many learning technology standards. Outcomes might include publishing a conceptual framework and descriptions of all the standards as a technical report; maintaining an online resource; one or more PARs; and even a long-overdue look at updating the withdrawn IEEE 1484.1-2003 standard (Learning Technology Systems Architecture). Interested parties please contact Greg, gnadeau@pcgus.com.
 - i. Motion to form a new SG tentative called "Conceptual Model for Learning Technology Standards" to be chaired by Greg Nadeau: Mitch Bonnett
 - ii. Second: Jim Goodell
 - iii. Discussion. RAMLET is also a metamodel. Systems architecture and data models are different objectives. Include T3 and other training-specific models. 1484.1 needs updating. Will the scope include simulation and modeling?
 - iv. Vote: passed by consensus
 - v. A kickoff meeting will be scheduled soon.
- c. Spoken Language Interest Group call for volunteers: j.mp/sligcfv

- i. June UPDATE: We've amassed a couple dozen interested prospects, but it seems none of them were from existing LTSC groups, so we will proceed and re-approach the LTSC when we have a concrete proposal to advance here.
 - ii. Patent licensing statement: all participants are asked to agree to provide reasonable and customary licensing terms for patent rights, if any, as a firm condition of membership to which all members must adhere in perpetuity for their membership to be valid. Corporate sponsors will have the opportunity to pledge mutual cross-licensing in return for support of development efforts. Moral rights, including exclusion of anti-competitive, exclusionary, criminal, or defective individual, corporate, or state actors, are reserved.
 - iii. Charter updated with additional example effort references: j.mp/slig
 - iv. Invited/inviting associates, colleagues, CHILDES-L, CATESOL-ToP, CMUSPHINX-DEVEL, et al.
 - v. Looking for corporate data collection sponsors.
 - vi. —[Jim Salsman](mailto:jim@talknicer.com) email: jim@talknicer.com
- d. The next Nescom deadline is 26 July for their September meeting. The last Nescom meeting this year will be in November.

8. LTSC Officer Elections next fall

- a. Elections for LTSC officers is scheduled for this fall. New officers will take over in December.
- b. Please consider taking a leadership role in the LTSC. Candidates should understand the reasoning behind IEEE procedures. For the Chair and Vice Chair, membership in the IEEE-SA is required and support from an employer is increasingly important. As the LTSC is now being asked to sponsor entity working groups, it would be best if the Chair worked for an IEEE Corporate/Institutional member organization that could support his or her time and travel to international meetings.
- c. Consider presenting a slate (Chair, Vice Chair, Secretary, Treasurer) to split the load across several people.
- d. If you are interested in running for LTSC office, please contact chair@ieee-ltsc.org as soon as possible. If you are not interested in running, perhaps you would have time to help conduct the officer elections.

9. Upcoming meetings

- a. xAPI standard WG. Second and Fourth Tuesday, 2:30 PM Eastern
- b. AIS WG. monthly. Second Thursday, 10:00am Eastern
- c. Competency standards P1484.20.1. Second Monday 11am Eastern
- d. AIS workshops at AI in Education (AIED), HCI International, and IITSEC (see below)
- e. Face-to-face meetings in association with iFest, Alexandria VA, August 26-28.

- i. Informal social event on Sunday evening, August 25th. LTSC and WG meeting on Sunday afternoon and Monday morning: xAPI, AIS, ICICLE, Competencies, ...?
- ii. iFest starts after lunch on Monday through Wednesday Noon. LTSC members will get a discount:
 - 1. Members of NDIA/NTSA (\$100 off) – iFest19mtgmem (you are a member if you registered for iFest last year)
 - 2. Non-Member (\$50) - iFest19mtgnon
- iii. LTSC has a 1-hour session (Wed 28 Aug 0830-0939) on the iFest program about our standards. There are also ICICLE learning engineering sessions.
- iv. Volunteers needed for an iFest planning committee: agenda, social event, meeting rooms, recordings/webcasts, ...

Working Group Reports

10. xAPI WG (9274). Jono Poltrack.

- a. 9274.1.1 xAPI Base Standard
 - i. Website: <http://sites.ieee.org/sagroups-9274-1-1/>
 - ii. If you are interested in participating in xAPI base spec standardization, sign up at <http://sites.ieee.org/sagroups-9274-1-1/members/>
 - iii. Meeting 25th at 2:30 ET (2nd and 4th Tuesday every month)
 - 1. Current work (will result in update to Github managed spec first)
 - a. Should* Subgroup and Security Subgroup completed their work
 - b. New Editing Subgroup formed to finish the spec revision.
Contact Andy Johnson to be part of the grt oup - andy.johnson.ctr@adlnet.gov
 - c. Open source pilot
 - i. Contributor agreements in process. Hope to have this wrapped up by our next meeting
 - ii. Moving the spec to IEEE-owned gitlab after CLAs
 - iii. Robby - Standards board approved open source implementation plan (end of year target date)
 - iv. Contact Jono Poltrack. jono@veracity.it
- b. Several other standards projects are being planned:
 - i. Upcoming New PAR Draft - p9274.4.2 -- Recommended practice for xAPI Security
 - ii. P9274.4.1 -- Recommended practice for xAPI implementation
 - iii. P9274.2.1 (Profile Spec)
 - iv. P9274.3.n (Individual Profiles)
- c. Face to face before ADL iFest in August. Planning this event and getting a level of interest. Put your information at <https://docs.google.com/spreadsheets/d/14hGKCF3GLS-edZpj8TouFN957PhHmlRszJycY>

[R6x5jU/edit#gid=0](#) to express interest. This does not commit you as an attendee and is currently only for planning purposes

11. Competencies, Jim Goodell.

- a. 1484.20.1 (revision) - Competency Data Standards
- b. The revision of the old Reusable Competency Definitions standards will refer to the common elements identified by the Credential Ecosystem Mapping Project.
- c. Meets on 2nd Monday of the month at 11am EDT. www.join.me/IEEE-LTSC
- d. **Please join us!** If you plan to participate in the workgroup, please register to be on the mailing list for meeting notices here:
<http://sites.ieee.org/sagroups-1484-20-1/members/>
- e. **Next Meeting:** Monday, July 8, 2019 - 11:00 am EDT (15:00 UTC)
www.join.me/IEEE-LTSC
- f. Contact: Jim Goodell, jimgoodell@qi-partners.com

12. Child and Student Data Governance (CSDG WG), P7004. Marsali Hancock.

- a. Working on a baseline reference guide on the various regulatory frameworks. "Our working group is waiting on the technical group's draft from use cases. The technical subcommittee is working with vendors and policy leaders on the requirements needed to govern data at the attribute level rather than "information." We are working through some tough scenarios to protect privacy and improve data liquidity with education, mental health, substance use, employment, housing, health care, and public health use case."
- b. Interest in submitting a PAR for data interoperability with health, human services, education, public safety, justice, housing, mental health, substance use, and workforce readiness.
- c. Meetings: Monthly meetings on the last Wednesday at 3:00 pm Eastern. See notes in previous month's minutes.
- d. Contact: marsalih@gmail.com



13. SCORM maintenance (SCORM Renew). Andy Johnson

- a. 1484.12.3 (metadata) will proceed to balloting soon. We will circulate the old standard with a cover letter explaining why no changes have been made to this broadly adopted standard.
- b. We are looking for IEEE members who can participate in the ballot. Please contact Andy, andy.johnson.ctr@adlnet.gov.
- c. Website: <http://sites.ieee.org/scormrenew/>
- d. 1484.11.3 (runtime environment) has been allowed to expire
- e. Additional SCORM-related standard expirations this year
- f. Next meeting: TBD

14. Standards for Adaptive Instructional Systems (AISs). Bob Sottolare, Soar Technology.

- a. P2247.1, Classification of Adaptive Instructional Systems.
“Standard for the Classification of Adaptive Instructional Systems. This standard defines and classifies the components and functionality of adaptive instructional systems (AISs). This standard defines parameters used to describe AIS and establishes requirements and guidance for the use and measurement of these parameters.”
- b. Monthly teleconference every 2nd Thursday at 10:00am eastern. Next meeting 9 May. All interested parties should sign up here to get meeting reminders and posts:
<http://sites.ieee.org/sagroups-2247-1/members>
- c. P2247.1 resulted in the formation of a subgroup focused on Conceptual Modeling led by Anne Knowles, L3 Technologies (aknowles2nd@gmail.com).
 - i. To view current draft of the AIS subgroup’s approach to the conceptual model standard, request access to IEEE Collabratec’s “AIS 2247.1” workgroup
<https://ieee-collabratec.ieee.org/app/workspaces/5860/AIS-P2247-1/activities>.
 - ii. From the PAR: This standard enables producers of AIS to describe the overall operation of an AIS; to specify its approach, method, and level of adaptation; and to identify the methods used to implement specific components and interfaces. This standard enables consumers of AIS to make comparisons to inform purchasing and deployment decisions and serves a reference for technical standards that support the exchange of data among AIS and between AIS and other education and training systems. This standard incorporates and promotes the principles of ethically aligned design for the use of artificial intelligence (AI) in AIS.
- d. Two additional PARs have been approved which focus on interoperability of AIS components and evaluation of AIS products. Work will be done in the AIS WG.
 - i. The interoperability standards subgroup will be led by Richard Tong, Yixue Squirrel AI learning
 - ii. The recommended practices for AIS evaluation subgroup will be led by Shelly Blake-Plock.
- e. A new Adaptive Instructional Systems (AIS) conference under the auspices of Human-Computer Interaction International (HCII) was approved. The conference will serve as a venue for one of the two annual face-to-face meetings for the AIS working group and provide broader international exposure for IEEE standards.
 - i. The approved AIS conference will be held in Orlando, Florida at the Walt Disney World Swan and Dolphin Resort, Orlando (26-31 July 2019). First AIS International Conference on Adaptive Instructional Systems:
<http://2019.hci.international/ais>; 52 papers (10 sessions) were approved for presentation at the HCII AIS conference. Thank you to all the the LTSC contributors to this conference. We encourage you all to participate.
- f. We received approval for an IEEE Learning Technology Track at IITSEC in Orlando, FL in early December. The is composed of three AIS-associated special events on Conceptual Modeling, Interoperability Standards, and Recommended Evaluation Practices for AISs. The fourth special event in this proposed track is on learning engineering.

- g. We are still searching for subgroup region leaders (Conceptual Modeling, Interoperability Standards, and Recommended Practices for AISs) in Asia-Pacific, Americas, and Europe-Africa to stimulate face-to-face meetings in each region. International conferences like HCII and AIED are being used to facilitate interaction between regions.
 - h. Due to the interest in AIS technology in China, the working group is exploring ways to create an affiliated group in Asia. Contact Xiangen Hu, Asia-Pacific Regional Leader for AIS Conceptual Modeling, if you are interested: xhu@memphis.edu
 - i. Potential issue with L3 patent. Status?
15. The IEEE Industry Connections Industry Consortium on Learning Engineering (ICICLE). Shelly Blake-Plock
- a. ICICLE 2019 -- the first Learning Engineering Conference was held in Arlington, Virginia in May.
 - b. The next 6 months will produce a “proceedings” and proposals for post-ICICLE activities for the community of learning engineers. Deadlines? (from Mitch): digital proceedings in December.
16. Federated Machine Learning, P3652.1. Angelica. Robby.
- a. This is an entity-based working group. A face-to-face meeting was held last week in Los Angeles. Met on 15 June in Long Beach CA.
 - b. Guide for Architectural Framework and Application of Federated Machine Learning. A standard/guide for how to federate data models across multiple databases for machine learning without exposing information about individuals in the respective DBs.
 - c. Participants include: WeBank, Sinovation Ventures, China Telecom, Xiaomi, Squirrel AI, JD, Clustar, 4Paradigm, Intel, LogicOcean, IBM, Zoke. 8 entities - WeBank, Sinovation Ventures, China Telecom Squirrel AI, JD, Clustar, 4Paradigm LogicOcean - presented their outline draft. Meeting minutes is under preparation.
 - d. Next meeting ... 11 August in Macau in conjunction with IJCAI.
 - e. Website: <https://sagroups.ieee.org/3652-1/>
 - f. Interested representatives of IEEE corporate members should contact: Ya-Ching (Angelica) Lu, angelica.lv@clustar.ai
17. P3527.1 Digital Literacy, Skills, and Readiness
- a. First meeting was held on March 8th.
 - b. This is an entity-based working group.
 - c. A PAR, has been approved at the May NesCom meeting
 - d. Interested representatives of IEEE corporate members should contact the Chair, Dr. Yuhyan Park, park@dqinstitute.org.
18. INACTIVE: xAPI TAG. Shelly Blake-Plock
- a. On hiatus awaiting completion of WG9274 work on 9274.1.
 - b. Master draft of xAPI 1.0.3 report for technical implementers is available [here](#).

- c. Tech report -- Recommended practice for xAPI implementation -- submitted as a recommended practice standard.
 - i. PAR accepted and this will be 9274.4.1. Work will begin after the completion of work on 9274.1.
- d. xAPI Archive work will commence post-ICICLE.
- e. Considering another tech report on xAPI profiles best practices P9274.4.2, along with work on the next PAR, P9274.2, about profiles. We'll likely follow the model of .1 followed by .4.
- f. Contact Shelly Blake-Plock shelly@yetanalytics.com. See www.tagxapi.org for meeting details and connection information

19. INACTIVE: Standards for Mobile Learning Technology WG - John Costa

[\(http://sites.ieee.org/sagroups-7919-1/\)](http://sites.ieee.org/sagroups-7919-1/)

- a. P7919.1 -- defining levels of functionality of mobile eReaders.
- b. Member Sign Up: <http://sites.ieee.org/sagroups-7919-1/members/>
- c. Bi weekly meetings of 7919 will be placed on hold until first week of April.
 - i. Participant procurement discussions will continue offline. Please reach out with suggestions and introductions.
- d. [John Costa](#), Chair; [Andy Johnson](#), Secretary.

20. Next LTSC monthly meeting date:

- a. The LTSC usually meets on the second Tuesday of the month to discuss progress and problems across all the projects. Our next LTSC meeting will be Tuesday, **July 9th** at 9:00am Eastern Daylight Time.