

IEEE LTSC Monthly Meeting

Tuesday, 13 August 2019, 9:00 am Eastern Time

Administrative Issues and New Business

1. Roll call, establish quorum
 - a. Please sign in on the [IEEE LTSC Roster](https://goo.gl/b7zQVL) 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: 19 voting members out of 25. Quorum achieved!
2. Introduction: Vanessa Lalitte, our new IEEE-SA liaison.
3. Review and approval of today's agenda. Please feel free to add to the notes during the meeting.
4. 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](#).
5. 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 standard requires an unreasonable or unfair charge by a patent holder, YOU are asked to report the existence of any patent claims (held by you or by anyone else) 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.
6. Robby Robson
- a. IEEE Elections. Before 23 September. <https://eballot4.votenet.com/IEEE>
 - b. WG meetings in Macau this week: Federated Machine Learning
7. New Projects
- a. A PAR has been submitted to the September NesCom meeting by Prof Hamadou Saliah-Hassane as a joint standards project between the LTSC (IEEE Computer Society), the Education Society, and the Industrial Electronics Society focused on security called "Secured and Trusted Learning Systems."
 - i. IEEE-SA (through the TAB Committee on Standards) grant approved - \$10K mainly for meetings later this year.
 - ii. Contact Hamadou Saliah-Hassane hsaliah@ieee.org.
 - b. New Study Group "Conceptual Model for Learning Technology Standards," CM4LTS, chaired by Greg Nadeau.
 - i. **Goal:** Update the IEEE's 2003 Learning Technology Systems Architecture standard 1484.1 and publish a crowd-maintained, updated, conceptual/logical meta model with linked alignments to relevant data, technical, policy, and achievement standards
 - ii. Kickoff meeting in August. If you are interested in helping to launch the group, send an e-mail to gregnadeau7@gmail.com
 - c. Andy Johnson has submitted revision PARs for NesCom approval on two more expiring SCORM standards
 - i. P1484.11.2, ECMAScript Application Programming Interface for Content to Runtime Services Communication
 - ii. P1484.12.1, Standard for Learning Object Metadata (LOM)
 - d. The deadline for the November NesCom meeting is September 17.
8. Pankaj Agrawal has volunteered to fix some problems with the LTSC website <https://sagroups.ieee.org/ltsc/>.
- a. Please let us know if you see anything problematic.
 - b. Working Group chairs (and others) are encouraged to submit updates the content on the website. Some of it is quite out of date.
9. LTSC Officer Elections next fall

- a. We have submitted to AudCom a request to change the LTSC Policies and Procedures to have our officer elections in odd years. It is expected that this will be approved at next month's meeting.
- b. Elections for LTSC officers is scheduled for this fall. New officers will take over in December.
- c. If you are interested in helping run the LTSC, please contact chair@ieee-ltsc.org as soon as possible.

10. Upcoming meetings

- a. Competency standards P1484.20.1. Second Monday 11am Eastern
- b. xAPI standard WG. Second and Fourth Tuesday, 2:30 PM Eastern
- c. AIS WG meets monthly: Second Thursday, 10:00am Eastern. AIS Workshops at I/ITSEC (see below)
- d. eBooks for Learning (7919.1), Wednesdays @ 9:00 AM Eastern
- e. The guest speakers at this month's TLA Working Group meeting will focus on xAPI. Sign up here to get notification:
<https://forms.office.com/Pages/ResponsePage.aspx?id=roxUVxfZ1kOOeJG6hFd4e7TT9xyrRJBpt1XjHCxY64IUNEY5QTc1RjA1SVAwSkFRWUIxSkZOS0NFUiQIQCN0PWcu>
- f. ICICLE SIG meetings continue (check site <https://ieeecycle.org/sigs>)

11. LTSC face-to-face meetings in association with iFest.

- a. Register here: <https://events.vtools.ieee.org/m/200985>
- b. A fee of \$30 will be charged. If you can't pay via PayPal, register anyway and bring cash to the meeting.
- c. **Tentative Agenda**
 - i. **Sunday, August 25.** Hilton Mark Center. Juniper Room.

	Juniper Room	Breakout Room TBD
1:00	General Session Avron Barr - LTSC Business - Greg Nadeau's Study Group on the Conceptual Model of a Learning System - Hamadou's new Secure and Trusted Learning Systems proposal - ...	
2:30	Break	

2:45	Adaptive Instructional Systems WG Bob Sottolare Reports from all three subgroups: - Anne K. Conceptual framework, definitions - Richard Tong. Interoperability - Shelly B-P. Evaluation best practices	xAPI Editing group at the ADL Colab
3:45	Break	
4:00	xAPI WG Jono Poltrack	
5:00-7:00	Mobile Platform WG Elliott Robson, Lisa Marks	

ii. **Monday, August 26.**

8:30	General Session	
9:00	Competencies WG Jim Goodell	
10:00	Break	
10:30	ICICLE Editorial Committee Shelly Blake-Plock	
11:15	Mobile Platforms WG Elliot Robson	
12:00	Working lunch. Next steps. Avron	
1:00	Adjourn. First iFest session starts at 2:00	

- d. We will try to arrange remote participation at join.me/IEEE-LTSC
- e. iFest starts after lunch on Monday and ends at after lunch on Wednesday. LTSC members will get a discount:
 - i. Members of NDIA/NTSA (\$100 off) – iFest19mtgmem (you are a member if you registered for iFest last year)
 - ii. Non-Member (\$50) - iFest19mtgnon
- f. iFest sessions of interest

- i. Robby is organizing a 1-hour iFest panel (Wed 28 Aug 0830-0930) about LTSC standards.
- ii. Shelly has scheduled an ICICLE learning engineering session.
- iii. Volunteers needed: check in desk, power strips, wifi, recording, meeting minutes, virtual participation. Contact chair@ieee-ltsc.org.

Working Group Reports

12. Standards for Mobile Learning Technology WG - Elliot Robson

- a. (<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. Next meeting: ?
- d. [Elliot Robson](#), Chair; [Andy Johnson](#), Secretary.

13. 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 August 13th (today) at 2:30 ET (and 2nd and 4th Tuesday every month)
 - 1. Current work (will result in update to Github managed spec first)
 - a. Editing Subgroup formed to finish the spec revision.
Contact Andy Johnson to be part of the group - andy.johnson.ctr@adlnet.gov
 - b. Open source pilot
 - i. Contributor agreements in process. Many received. Please submit if you have not.
 - ii. Moving the spec to IEEE-owned gitlab after CLAs
 - 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.

14. 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, September 9, 2019 - 11:00 am EDT (15:00 UTC)
www.join.me/IEEE-LTSC
- f. Contact: Jim Goodell, jimgoodell@qi-partners.com

15. 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. Design philosophy to improve data interoperability and privacy controls for consumers including children and students. From Stanford, Prof Monica Lam, *Almond, The Open, Privacy-Preserving Virtual Assistant. Almond translates commands. Goal: Open Virtual Assistants for the Open Web. Democratize AI for linguistic user interfaces. An open non-proprietary linguistic web. Sharing with individual data ownership.* <https://almond.stanford.edu/>
- c. Meetings: On hiatus awaiting completion of technology working group and will convene in Berlin for face to face meeting in October. Contact: marsalih@gmail.com



16. 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
 - i. P1484.11.2, ECMAScript Application Programming Interface for Content to Runtime Services Communication
 - ii. P1484.12.1, Standard for Learning Object Metadata (LOM)
 - 1. Will this work happen in SCORMRenew or in the LOM WG?
- f. Next meeting: TBD

17. The IEEE Industry Connections Industry Consortium on Learning Engineering (ICICLE).

Shelly Blake-Plock

- a. The next 4 months will produce a “proceedings” and proposals for post-ICICLE activities for the community of learning engineers. Digital proceedings in December.
- b. The Editorial Committee will meet during the Alexandria face-to-face meetings.
- c. Submit materials for the proceedings to the Editorial Committee by August 1st. All ICICLE 2019 attendees can submit materials for the proceedings.

18. 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 11 July. 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, L3Harris 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.
- iii. Anne is seeking access to official IEEE-SA Dictionary to compare against P2247.1 multi-page ontology definitions before sharing with other AIS subgroups; apparently dictionary has limited access.
 - 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. It 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

19. Federated Machine Learning, P3652.1. Angelica. Robby.
- a. This is an entity-based working group. A face-to-face meeting was held in Los Angeles 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.
 - d. 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.
 - e. Report on Macau meeting, 11 August
 - f. Website: <https://sagroups.ieee.org/3652-1/>
 - g. Interested representatives of IEEE corporate members should contact: Ya-Ching (Angelica) Lu, angelica.lv@clustar.ai

14. P3527.1 Digital Literacy, Skills, and Readiness

- a. This is an entity-based working group.
- b. Event in NY. “Building Global Standards for Digital Intelligence” session, Hosted by DQ Institute, IEEE SA and World Economic Forum, 10 October 2019, 8:30am to 4:00pm EDT, World Economic Forum, 350 Madison Avenue, New York, NY. This session will cover how IEEE is raising the standard for Digital Intelligence through its open, collaborative standards development process and global standards projects. Standards work that will be covered includes: a project that is establishing a global standard, based on the DQ Institute’s Digital Intelligence Framework, to ensure that digital literacy and competency efforts are coordinated globally; a project for an Age Appropriate Digital Services Framework, based on the 5Rights Principles for Children, that is establishing a framework for developing age appropriate digital services where users are children; and a project for Child and Student Data Governance, that is defining specific methodologies to help users certify how they approach accessing, collecting, storing, utilizing, sharing and destroying child and student data.
- c. Interested representatives of IEEE corporate members should contact the Chair, Dr. Yuhyan Park, park@dqinstitute.org.

15. 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. Next LTSC monthly meeting date:

- a. The LTSC meets on the second Tuesday of the month to discuss progress and problems across all the projects. Our next LTSC meeting will be Tuesday, **September 10th** at 9:00am Eastern Daylight Time.