



ESTA Standards Watch

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Two draft TSP standards in public review

Two draft TSP standards are posted for public review on ESTA's TSP website. Comments are due on the third are due no later than the dates noted. Check'em out at

https://tsp.esta.org/tsp/documents/public_review_docs.php! It costs you nothing but your time.

BSR E1.54, ESTA Standard for Color Communication in Entertainment Lighting. The draft standard is a revision of the existing ANSI E1.54. It specifies a standardized way of specifying color to facilitate the communications between lighting controllers and color-changing luminaires. The method is generic and is neither manufacturer-specific nor color technology-specific. The revisions are needed to make the standard more useful and to update the document's name. Comments are due July 13.

The draft E.54 standard and the notes on it are being distributed together in a ZIP file. The draft standard is intended to become an American National Standard. The notes are simply informative notes, and neither add to nor subtract from the requirements of the standard. Reviewers are asked to look at both documents. We don't want errors or confusing text in either of them.

BSR E1.69, Reporting the Low-End Dimming Performance of Entertainment Luminaires Using LED Sources. The standard shall describe a way of showing the end-user or equipment specifier the low-end dimming performance of LED luminaires, when the luminaire output level is set by a control signal varying over

the low-end range from 10% to 0%. Right now there is no way for an equipment specifier to assess the low-end dimming of a luminaire without actually looking at the unit, and then there is no way to tell another person what the specifier saw without using subjective terms. Marketing terms, such as "theatrical quality dimming" or "dims smoothly to black," seem to say something, but have no objective meaning. Comments are due August 3.

Another ESTA standard approved

On July 6, ANSI's Board of Standards Review approved **ES1.9-2020, Event Safety Requirements - Crowd Management**, as a new American National Standard. ESTA staff is working now to publish the document so it can be downloaded from <http://tsp.esta.org/freestandards> and purchased from ANSI and IHS.

ANSI ES1.9-2020, Event Safety Requirements - Crowd Management, provides an overview of crowd management theory and vocabulary, and applies these terms to certain reasonably foreseeable risks that arise during live events. The standard is intended both to identify minimum requirements and to provide questions and suggestions that help event organizers make reasonable choices under the circumstances of their event.

Support legislation for our Industry

ESTA has put out a call to action for ESTA members, colleagues, and friends, urging them to support legislation to support the entertainment industry. Our industry was the first to collapse from COVID-19, and will be the last to recover, so we need governmental help. Please write to your legislators to urge them to support proposed legislature that will greatly benefit our industry.

The following bills or provisions will be decided on very soon:

- Funding the Prioritized Paycheck Protection Program Act
- Reauthorizing the PPP until at least December 31, 2020
- Granting 501(c)(6) not-for-profit organizations access to the PPP
- The Pandemic Risk Insurance Act of 2020
- The Skills Renewal Act

Visit <http://esta.org/COVID-19Relief> for more information and to send letters to your Senators.

Behind the Scenes Holiday Cards now on sale

The 2020 Behind the Scenes Holiday Cards are on sale now at the [BTS Boutique](#). This year there are new file formats and customization options for the electronic cards and an expanded array of price points starting at just \$20. Orders for printed cards will be taken until 1 October to arrive by late November. Electronic card orders will be taken until December 18th. View and order cards at www.behindthescenescharity.org/holidaycards

Sales of Behind the Scenes Holiday Cards help support Behind the Scenes, the entertainment industry's charity to provide financial assistance to entertainment technology professionals and their families who are in need due to serious illness or injury. More information about Behind the Scenes is available at <https://wp.behindthescenescharity.org/>.

Considering offensive language

The National Institute of Standards and Technology, whose publications form the basis for federal activities on everything from cybersecurity to time measurement, [will stop using common computer terms](#) with racist connotations. This move is in line with what some entertainment controls manufacturers are doing with their products. Some of these common terms are "whitelist" and "blacklist" for content filtering or access rules, and "master" and "slave" to describe a control relationship. NIST's Information Security and Privacy Advisory Board is working on formally urging agencies to abandon these and other terms that evoke the legacy of oppression the Black community has experienced.

These offensive terms are well-understood through years of use; replacements need to be equally clear—or more clear. The [UK's National Cyber Security Centre](#) announced that “whitelist/blacklist” were being replaced with “allow list/deny list.” One ESTA member is using “sender/receiver” instead of “master/slave” for their video products and are considering similar changes to the language used with their lighting controls. [A draft proposal](#) on the IETF.org website offers a list of possible alternatives, some offering more nuance in describing the relationships between the software entities. Instead of “master/slave,” it suggests:

- Primary-secondary
- Leader-follower
- Active-standby
- Primary-replica
- Writer-reader
- Coordinator-worker
- Parent-helper

Instead of “whitelist/blacklist,” it suggests:

- Blocklist-allowlist
- Block-permit

Years ago, the Django and Drupal programming languages replaced master/slave with leader/follower and primary/replica respectively. More recently, changes have been made to Python to replace “master process” with “parent process” and “slave” with “workers” or “helpers.”

Probably in the near future “master/slave” only will be used freely within BDSM circles. Even there “dom/sub” might be more useful.

WTO Technical Barrier to Trade notifications

Notify US, the U.S. Department of Commerce's service to announce Technical Barrier to Trade filings, has announced TBTs that may be of interest to *Standards Watch* readers. If you have a problem with any TBT, you can protest through your representative to the World Trade Organization. See the guidance documents at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

Taiwan Economy Notification TPKM/422

Date issued: 30 June 2020

Agency responsible: Ministry of Health and Welfare, Health Promotion Administration

National inquiry point: Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs (BSMI)

Products covered: Medical masks; Medical equipment

Title: To conduct inspection and examination of imported medical masks (5 pages in English; 11 pages in Chinese)

Description of content: To respond to the new coronavirus pandemic, ensure the quality of medical masks and protect the safety and well-being of the public, the Ministry of Health and Welfare proposes to conduct inspection and examination of imported medical masks.

Objective and rationale: Protection of human health or safety; Quality requirements

Relevant documents: 1. Pharmaceutical Affairs Act; 2. Regulations for Inspection and Examination of Imported Medicaments; and 3. CNS 2779, CNS 14774 and CNS 14755.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: Not given by country

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/TPKM/full_text/pdf/TPKM422\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/TPKM/full_text/pdf/TPKM422(english).pdf)

Saudi Arabia Notification SAU/1138

Date issued: 2 July 2020

Agency responsible: Saudi Arabia Standards Organization (SASO)

National inquiry point: Saudi Arabia Standards Organization (SASO)

Products covered: HS 8544 This is the new HS codes that concern with the Cord Extension, Plugs, Socket outlets which must require the Saudi Quality Mark

Title: Board of Director Decision for Obligation of the Saudi Quality Mark on Cord Extension, Plugs, Socket outlets (1 page in Arabic)

Description of content: This decision states the following:

A- The conformity assessment procedure raised to type 5 Saudi Quality Mark (SQM) for the product (Cord Extension) will be into force, after six months from the date of publication in the official gazette.

B- The conformity assessment procedure raised to type 5 Saudi Quality Mark (SQM) for the products (Plugs, Socket outlets) will be into force one year from the date of publication in the official gazette.

Objective and rationale: Consumer information, labelling; Prevention of deceptive practices and consumer protection; Protection of human health or safety; Protection of animal or plant life or health; Protection of the environment; Quality requirements; Reducing trade barriers and facilitating trade

Relevant documents:

- GSO 2117
- SASO 2203
- SASO GSO IECCE 60227

Proposed date of adoption: 29 December 2019

Proposed date of entry into force: Not given by country

Final date for comments: 1 August 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/SAU/full_text/pdf/SAU1138\(arabic\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/SAU/full_text/pdf/SAU1138(arabic).pdf)

ANSI public review announcements

The following documents have been announced for public review by ANSI. Please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at psa@ansi.org.

Due 10 August 2020

BSR/ICC 500-202x, ICC/NSSA Standard for the Design and Construction of Storm Shelters (revision of ANSI/ICC 500-2014)

The objective of this standard is to provide technical design and performance criteria that will facilitate and promote the design, construction, and installation of safe, reliable, and economical storm shelters to protect the public. It is intended that this standard be used by design professionals; storm shelter designers, manufacturers, and constructors; building officials; and emergency management personnel and government officials to ensure that storm shelters provide a consistently high level of protection to the sheltered public.

Single copy price: Free

Obtain an electronic copy from: <https://www.iccsafe.org/products-and-services/standards-development/is-stm/>

Send comments to: kpaarlberg@iccsafe.org

BSR/RIA R15.08-1-202x, Industrial Mobile Robots - Safety Requirements - Part 1: Requirements for the Industrial Mobile Robot (new standard)

This document specifies safety requirements for industrial mobile robots (IMRs). It describes basic hazards associated with IMRs in an industrial environment, and provides requirements to eliminate, or adequately reduce, the risks associated with these hazards. IMRs incorporate mobile platforms that can be either autonomous mobile robots (AMRs), or, where an industrial robot manipulator is combined with the mobile platform, automated guided vehicles (AGVs). (NOTE: For safety requirements of industrial robot manipulators that are fixed in place, see ANSI/RIA R15.06-2012; for safety requirements of AGVs that do not incorporate an industrial robot manipulator, see ANSI/ITSDF B56.5-2019.) Passenger-carrying vehicles and non-industrial mobile robots are out of scope for this document. This document is intended to be submitted for consideration as an ISO standard via ISO Technical Committee 299, Robotics.

Single copy price: \$225.00 (non-members); \$190.00 (members of RIA and A3)

Order from and send comments to: cfranklin@robotics.org

Due 17 August 2020

BSR/ASSP Z459.1-202x, Safety Requirements for Rope Access Systems (new standard)

This standard sets forth accepted practices for rope access work. It is applicable for use in any environment where ropes are suspended from or connected to a structure or natural feature and used as the primary means of access, egress, or support and as the primary means of secondary protection against a fall. This standard is not intended to apply to recreational use of ropes or to methods used by professional emergency response

personnel, although persons engaged in such activities may benefit from the advice, principles, and practices in this standard.

Single copy price: \$100.00

Order from and send comments to: Ovidiu Munteanu, OMunteanu@ASSP.org

BSR/ASSP Z359.1-202x, The Fall Protection Code (revision and redesignation of ANSI/ASSE Z359.1-2016)

The Fall Protection Code is a set of standards that covers program management; system design; training; qualification and testing; and equipment, component, and system specifications for the processes used to protect workers at height in a managed fall protection program. This standard identifies those requirements and establishes their role in the Code and their interdependence.

Single copy price: \$100.00

Order from and send comments to: Ovidiu Munteanu, OMunteanu@ASSP.org

BSR/BHCOE 201-202x, Standards and Guidelines for Effective Applied Behavior Analysis Organizations (new standard)

To date, there are no standards for organizations that provide Applied Behavior Analysis therapy. These standards focus on areas needed to deliver and sustain high-quality services, manage treatment costs, and reduce risk and liability. The areas of the standards include areas such as ethics, integrity, and professionalism; clinical documentation; service delivery; health, safety, and emergency preparedness; diversity; and more.

Single copy price: Free!

Obtain an electronic copy from: <https://bhcoe.org/standard/bhcoe-standard-201-standards-guidelines-for-effective-appliedbehavior-analysis-organizations/>

Send comments to: standards@bhcoe.org

Due 25 August 2020

BSR/IEEE C95.1-202x, Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz (revision of ANSI/IEEE C95.1-2006)

Recommendations are made to protect against established adverse health effects in humans resulting from exposure to electric, magnetic and electromagnetic fields in the frequency range of 0 Hz to 300 GHz. The recommendations are expressed in terms of exposure reference levels (ERLs) and dosimetric reference levels (DRLs). The DRLs are limits on in situ electric field strength, specific absorption rate (SAR), and incident power density; the ERLs, which are derived from the DRLs, are limits on external fields and induced and contact current. This standard is intended to apply to all human exposures except for exposure of patients under medical supervision. The recommendations are not intended for the purpose of preventing interference with medical and other devices that may exhibit susceptibility to radio frequency (RF) fields. The recommendations at 300 GHz are consistent with existing recommendations for safe exposure in the infrared frequency range, which begins at 300 GHz, cf., ANSI Z136.1 and IEC 60825-1.

Single copy price: \$351.00 (print)

Order from: <https://www.techstreet.com/ieee/searches/27607189>

Send comments to: k.evangelista@ieee.org

INCITS 469-2015 [R202x], Information Technology - Open Virtualization Format (OVF) Specification (reaffirmation of INCITS 469-2015)

The Open Virtualization Format (OVF) Specification describes an open, secure, efficient, and extensible format for the packaging and distribution of software to be run in virtual systems.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 8378-1:1986 [R2015], Information Processing - Data Interchange on 130 mm (5.25 in) Flexible Disk Cartridges Using Modified Frequency Modulation Recording at 7 958 ftprad, 3,8 tpm (96 Tpi), on Both Sides - Part 1: Dimensional, Physical and Magnetic Characteristics (withdrawal of INCITS/ISO/IEC 8378-1:1986 [R2015])

Provides the dimensional, physical, and magnetic characteristics of 130 mm (5.25 in) flexible disk cartridges for data interchange between EDP systems with modified frequency modulation recording on 80 tracks on each side

and recorded at 7 958 ftprad, 3,8 tpm (96 tpi). Applicable in conjunction with ISO 8378 and ISO 8378/2 or 8378/3.

Single copy price: \$62.00

Order from: <http://webstore.ansi.org/>

Send comments to: comments@standards.incits.org

INCITS/ISO 8378-3-1986 [S2018], Information Processing - Data Interchange on 130 mm (5.25 in) Flexible Disk Cartridges Using Modified Frequency Modulation Recording at 7 958 ftprad, 3,8 tpm (96 tpi), on Both Sides - Part 3: Track Format B ([withdrawal](#) of INCITS/ISO 8378-3-1986 [S2018])

Specifies the quality of recorded signals, the track layout, and a track format to be used on 130-mm (5.25-in) flexible disk cartridges intended for data interchange between data processing systems.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>

Send comments to: comments@standards.incits.org

BSR/UL 2900-2-1-202X, Standard for Software Cybersecurity for Network-Connectable Products - Part 2-1: Particular Requirements for Network Connectable Components of Healthcare and Wellness Systems (revision of ANSI/UL 2900-2-1-2020)

Proposals to clarify and update to UL 2900-2-1 and the addition of an Informational Annex to provide rationale for the requirements in UL 2900-2-1.

Single copy price: Free

Obtain a copy and offer comments at: <https://csds.ul.com/Home/ProposalsDefault.aspx>

New ANS projects

ANSI has announced the following new projects that might materially affect *Standards Watch* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in the project, (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

BSR/ASME A17.4-202x, Guide for Emergency Personnel (revision of ANSI/ASME A17.4-2015)

The guide for emergency personnel (fire, police, etc.), building owners, lessees, and building operating managers explains the proper procedures to be used for the safe removal of passengers from stalled elevators, as well as providing information with regard to elevator firefighters' service procedures.

Contact: Terrell Henry, ansibox@asme.org

BSR/ASME A90.1-202x, Safety Standard for Belt Manlifts (revision of ANSI/ASME A90.1-2015)

This standard applies to the manufacture, installation, maintenance, inspection, and operation of belt manlifts. Belt manlifts covered by this scope consist of steps (platforms) and accompanying handholds mounted on, or attached to, an endless belt operating vertically in one direction only and being supported by, and driven through, pulleys at the top and bottom. These belt manlifts are intended for conveyance of persons only.

Contact: Terrell Henry, ansibox@asme.org

BSR/IEEE 802.1AB-202x, Standard for Local and Metropolitan Area Networks - Station and Media Access Control Connectivity Discovery (new standard)

There is one published corrigendum to the standard, and a second is under development; it is desirable to revise the standard to incorporate both corrigenda. This revision is being performed solely in order to merge the two corrigenda with the base document; the project will not include any new functionality in the revised standard. The scope of this standard is to define a protocol and management elements, suitable for advertising information to stations attached to the same IEEE 802 LAN, for the purpose of populating physical topology and device discovery management information databases.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 802f-202x, Standard for Local and Metropolitan Area Networks - Overview and Architecture - Amendment: YANG Data Model for EtherTypes (new standard)

YANG (Request for Comment (RFC) 7950) is a formalized data modeling language that is widely accepted and can be used to simplify network configuration. A YANG module with an authoritative list of EtherTypes enhances compatibility of modern networks and aids in the efficiency of managing them. This amendment specifies YANG modules that contain the EtherType information, including a compact humanreadable name and description. The name and description for an initial set of EtherTypes are defined for inclusion in the IEEE Registration Authority EtherType public listing. This amendment also addresses errors and omissions in IEEE Std 802 description of existing functionality.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 1003.1-202x, Standard for Information Technology - Portable Operating System Interface (POSIX(R)) Base Specifications, Issue 8 (new standard)

IEEE Std 1003.1-202x defines a standard operating system interface and environment, including a command interpreter (or "shell"), and common utility programs to support applications portability at the source code level. IEEE Std 1003.1-202x comprises four major components (each in an associated volume): (1) General terms, concepts, and interfaces common to all volumes of IEEE Std 1003.1-202x, including utility conventions and Clanguage header definitions, are included in the Base Definitions volume of IEEE Std 1003.1-202x; (2) Definitions for system service functions and subroutines, language-specific system services for the C programming language, function issues, including portability, error handling, and error recovery, are included in the System Interfaces volume of IEEE Std 1003.1-202x; (3) Definitions for a standard source code-level interface to command interpretation services (a "shell") and common utility programs for application programs are included in the Shell and Utilities volume of IEEE Std 1003.1-202x; and (4) Extended rationale that did not fit well into the rest of the document structure, containing historical information concerning the contents of IEEE Std 1003.1-202x and why features were included or discarded by the standard developers, is included in the Rationale (Informative) volume of IEEE Std 1003.1-202x.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 1609.13-202x, Wireless Access in Vehicular Environments - Reliable Data Transport Mechanisms for Multiple Receivers (new standard)

This standard provides mechanisms for distribution of data within the Wireless Access in Vehicular Environments (WAVE) system. These mechanisms are optimized for use in the vehicular environment, where connectivity may be intermittent; for large data transfers; and for data which is of interest to a large number of system participants. Considerations addressed by the standard include image identification and versioning, discovery, distribution, error correction, and security.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 1912-202x, Standard for Privacy and Security Framework for Consumer Wireless Devices (new standard)

The project develops a standard to define a privacy scale for businesses or organizations seeking to avoid the pitfall of failing to provide adequate privacy protection for consumer data. On May 25, 2018, the EU General Data Protection Regulation went into effect, marking a dramatic shift in the regulatory obligations of digital technology manufacturers and data managers as it relates to the protection of consumer privacy. The cost to an entity for non-compliance can be €20 million or four percent of annual turnover, whichever is greater. Following the actions taken by the EU, the State of California, on June 28, 2018, passed the California Consumer Privacy Act, which went into effect on January 1, 2020. This law protects the privacy of California residents by giving them the right to know what personal data companies collect on them, their consumer devices, and their children, the right to opt-out of the sale of personal data, and the right to sue companies for data breaches. Californians can also request that a business delete their personal information. To manage the new privacy legal landscape, companies and organizations will need the standard developed by this project to help them to determine how to view consumer data practices and develop strategies to avoid costly privacy regulatory violations. This standard defines a privacy scale that shall be applied to data that is defined as personal identifiable information that is being collected, retained, processed, or shared by or among applications implemented on networked edge, fog, or cloud computing devices. This privacy scale data provides input to assessment tools that developers or users of these applications use to develop, discover, recognize, or

implement appropriate privacy settings for types or levels of personal data resident on these devices.
Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 2040.1-202x, Taxonomy and Definitions for Connected and Automated Vehicles (new standard)

Connected and automated vehicles have the potential to not only significantly decrease accidents and fatalities on roads, but also improve the time efficiency and energy efficiency of traffic flows due to higher synchronization of vehicle movements, which may help avoid extending the existing infrastructure. However, there are hypes, confusions, and misunderstandings about the state-of-the-art vehicle functionalities in the market as well as the laboratories. The lack of taxonomy and definitions for connected and automated vehicles is not only misleading consumers but also risking the safety of the public including passengers, pedestrians, and other traffic participants. This project is needed to set the grounds for discussions on connected and automated vehicles, clarify the necessary functionalities, and help consumers make choices and stay safe. "Autonomous" and "automated" are distinguished terms in the context of vehicle driving functions. This standard focuses on "automated vehicles" since "autonomous vehicles" involve more complex technologies and may delay the implementation on public roads. This standard specifies the taxonomy and definitions for connected and automated vehicles.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 2141.2-202x, Standard for Transforming Enterprise Information Systems from Centralized Architecture into Blockchain-Based Decentralized Architecture (new standard)

Enterprise information systems, such as ERP (Enterprise Resource Planning), MRP (Material Requirements Planning), CRM (Customer Relationship Management), and MIS (Management Information System), have been widely adopted by today's enterprises and become the essential infrastructure in their daily business. Many of these systems have a legacy-centralized architecture which is vulnerable to falsification, tampering, and other malicious damage from technically authorized users. Along with the emergence of blockchain technology, there is a rising need for replacing these systems with blockchain-based tamperproof systems. This project is needed to specify the requirements, systems, methods, testing, and verification for the transformation from a legacy-centralized architecture into a blockchain-based decentralized architecture while minimizing the transformation cost. This standard specifies the requirements, systems, methods, testing, and verification for transforming enterprise information systems from a legacy centralized architecture into a blockchain-based decentralized architecture in order to improve the trust among multiple parties and participants while minimizing the transformation cost.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 2141.3-202x, Standard for Transforming Enterprise Information Systems from Distributed Architecture into Blockchain-Based Decentralized Architecture (new standard)

This standard specifies the requirements, systems, methods, testing, and verification for transforming enterprise information systems from a legacy distributed architecture into a blockchain-based decentralized architecture in order to improve the trust among multiple parties and participants while minimizing the transformation cost.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 2866.1-202x, Standard for Device Trusted Extension: Software Architecture (new standard)

Smart devices are widely used in numerous applications including mobile payments, e-business, mobile medical care services. Although smart devices provide convenient and efficient lifestyles for customers, they also provide a path for security threats on customer assets. As more and more applications provided by various vendors are integrated into smart devices, the consistency and completeness in terms of security between different applications are often neglected, resulting in security risks. A mechanism is needed to provide consistency and completeness of security between different applications. This is critically important for continued consumer trust and industry growth. Device Trusted Extension (DTX) technology is an effective way to improve the security level of smart devices. DTX ensures the consistency and completeness of the whole system by decomposing the system requirements into a set of exclusive and atomic security functional requirements. Each functional requirement is equipped with one or more formal specifications and application programming interfaces (APIs) in accordance with the specifications, so that the basic security functions, such as data protection, key management, identity authentication, communication service, communication protection, data audit, memory management, system service, are formally defined. In addition, DTX technology also provides high level specifications and APIs in a hierarchical structure based on the basic security functions described above, so that

various security strategies are formally defined. Through the approaches listed above, DTX technology provides a secure, trusted and extended way to ensure the security of application services on smart devices. This standard describes the software architecture of a Device Trusted Extension system in a hierarchical way, maps the security components to different abstract layers, and defines the security components. This standard is applicable to the design, development, and testing of a Device Trusted Extension system.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 2872-202x, Standard for Interoperable and Secure Wireless Local Area Network (WLAN) Infrastructure and Architecture (new standard)

This standard specifies an architecture for an interoperable and secure public WLAN network infrastructure to provide seamless connectivity for users of IEEE 802.11 networks. The network infrastructure shall consist of IEEE 802.11 Wireless Access Points (WAPs) of different makes or models and from different vendors, backhaul connectivity provided by different service providers, authentication and policy infrastructures, and services (such as voice, data, and video) offered by different application service providers through subscription plans. The network infrastructure elements shall interwork with each other in a secure manner, and the infrastructure shall support discovery and inclusion of compliant WAPs to provide a seamless service for its subscribers.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 63184-202x, Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems - Models, instrumentation, measurement and numerical methods and procedures (Frequency range of 1 kHz to 30 MHz) (new standard)

This standard specifies the assessment methods to evaluate compliance of stationary and dynamic wireless power transfer systems with electromagnetic human exposure guidelines (external electric and magnetic fields, internal specific absorption rate (SAR), induced electric fields or current density including contact currents). The frequency range of this document is from 1 kHz to 30 MHz.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 41062-202x, Software Engineering - Life Cycle Processes - Software Acquisition (revision of ANSI/IEEE 1062 -2015)

This standard describes a set of useful activities, tasks, and methods that can be selected and applied during the acquisition of software or software services. The standard can be applied to software that runs on any computer system regardless of the size, complexity, or criticality of the software. The software supply chain may include integration of commercial-off-the-shelf (COTS), custom, or open source software. Software services can include software development and sustainment, software integration, and software verification and validation. Security is included as a quality attribute considered during the acquisition. However, specific requirements for acquisition of information assurance (security) services and cloud services are not included.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 802.1ABdh-202x, Standard for Local and Metropolitan Area Networks - Station and Media Access Control Connectivity Discovery - Amendment: Support for Multiframe Protocol Data Units (supplement to BSR/IEEE 802.1AB-202x)

This amendment specifies protocols, procedures, and managed objects that support the transmission and reception of a set of Link Layer Discovery Protocol (LLDP) Type Length Values (TLVs) that exceed the space available in a single frame. This amendment defines the transmission of multiple frames, additional TLVs, and the procedures needed to support the transmission of those TLVs across multiple frames. This amendment maintains existing functionality while communicating with a peer that supports updated functionality. This amendment defines a method to further restrict the size of the LLDP Data Unit (LLDPDU) and extensions in order to meet timing constraints in the network. This amendment also addresses errors and omissions in the description of existing functionality.

Contact: Lisa Weisser, l.weisser@ieee.org

Final actions on American National Standards

The documents listed below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted.

ANSI/API RP 100-1-2019, Hydraulic Fracturing: Well Integrity and Fracture Containment (new standard): 20 March 2019

ANSI/ASA S12.10-2010/Part 1 (R2020), Acoustics - Measurement of Airborne Noise Emitted by Information Technology and Telecommunications Equipment - Part 1: Determination of Sound Power Level and Emission Sound Pressure Level (reaffirmation of ANSI/ASA S12.10-2010/Part 1): 19 June 2020

ANSI/ASA S12.10-2011/Part 2 (R2020), Acoustics - Measurement of Airborne Noise Emitted by Information Technology and Telecommunications Equipment - Part 2: Declaration of Noise Emission Levels (reaffirmation of ANSI/ASA S12.10-2011/Part 2): 19 June 2020

ANSI/ASA S12.12-1992 (R2020), Engineering Method for the Determination of Sound Power Levels of Noise Sources Using Sound Intensity (reaffirmation of ANSI/ASA S12.12-1992 (R2017)): 19 June 2020

ANSI/ASA S12.14-1992 (R2020), Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors (reaffirmation of ANSI/ASA S12.14-1992 (R2012)): 19 June 2020

ANSI/ASA S12.19-1996 (R2020), Measurement of Occupational Noise Exposure (reaffirmation of ANSI/ASA S12.19-1996 (R2016)): 19 June 2020

ANSI/ASA S12.23-1989 (R2020), Method for the Designation of Sound Power Emitted by Machinery and Equipment (reaffirmation of ANSI/ASA S12.23-1989 (R2016)): 19 June 2020

ANSI/ASA S12.43-1997 (R2020), Methods for Measurement of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions (reaffirmation of ANSI/ASA S12.43-1997 (R2017)): 19 June 2020

ANSI/ASA S12.44-1997 (R2020), Standard Methods for Calculation of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions from Sound Power Level (reaffirmation of ANSI/ASA S12.44-1997 (R2017)): 19 June 2020

ANSI/ASA S12.50-2002/ISO 3740-2000 (R2020), Acoustics - Determination of sound power levels of noise sources - Guidelines for the use of basic standards (reaffirm a national adoption ANSI/ASA S12.50-2002/ISO 3740-2000 (R2017)): 19 June 2020

ANSI/ASA S12.53-1999/Part 2/ISO 3743-2-1994 (R2020), Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields - Part 2: Methods for special reverberation test rooms. (reaffirm a national adoption ANSI/ASA S12.53-1999/Part 2/ISO 3743-2-1994 (R2015)): 19 June 2020

ANSI/ASA S12.53-2011/Part 1/ISO 3743-1:2010 (R2020), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for small movable sources in reverberant fields - Part 1: Comparison method for a hardwalled test room (reaffirm a national adoption ANSI/ASA S12.53-2011/Part 1/ISO 3743-1:2010 (R2016)): 19 June 2020

ANSI/ASA S12.54-2011/ISO 3744-2010 (R2020), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane (reaffirm a national adoption ANSI/ASA S12.54-2011/ISO 3744-2010 (R2016)): 19 June 2020

ANSI/ASA S12.56-2011/ISO 3746:2010 (R2020), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane (reaffirm a national adoption ANSI/ASA S12.56-2011/ISO 3746:2010 (R2016)): 19 June 2020

ANSI/ASA S12.57-2011/ISO 3747-2010 (R2020), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a

reverberant environment (reaffirm a national adoption ANSI/ASA S12.57-2011/ISO 3747-2010 (R2016)): 19 June 2020

ANSI/ASA S12.60/Part 1-2010 (R2020), Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools - Part 1: Permanent Schools (reaffirmation of ANSI/ASA S12.60/Part 1-2010 (R2015)): 19 June 2020

ANSI/ASA S12.62-2012/ISO 9613-2:1996 (MOD) (R2020), Acoustics - Attenuation of sound during propagation outdoors - Part 2: General method of calculation (a modified nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S12.62-2012/ISO 9613-2:1996 (MOD) (R2017)): 22 June 2020

ANSI/ASA S12.65-2006 (R2020), Rating Noise with Respect to Speech Interference (reaffirmation of ANSI/ASA S12.65-2006 (R2011)): 18 June 2020

ANSI/ASA S12.67-2008 (R2020), Pre-Installation Airborne Sound Measurements and Acceptance Criteria of Shipboard Equipment (reaffirmation of ANSI/ASA S12.67-2008 (R2013)): 19 June 2020

ANSI/ASA S12.68-2007 (R2020), Methods of Estimating Effective A-Weighted Sound Pressure Levels When Hearing Protectors Are Worn (reaffirmation of ANSI/ASA S12.68-2007 (R2017)): 22 June 2020

ANSI/ASA S12.72-2015 (R2020), Procedure for Measuring the Ambient Noise Level in a Room (reaffirmation of ANSI/ASA S12.72-2015): 19 June 2020

ANSI/ASA S12.8-1998 (R2020), Standard Methods for Determining the Insertion Loss of Outdoor Noise Barriers (reaffirmation of ANSI/ASA S12.8 -1998 (R2013)): 19 June 2020

ANSI/ASA S12.9-2005/Part 4 (R2020), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 4: Noise Assessment and Prediction of Long-Term Community Response (reaffirmation of ANSI/ASA S12.9-2005/Part 4 (R2015)): 19 June 2020

ANSI/ASA S12.9-2007/Part 5 (R2020), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 5: Sound Level Descriptors for Determination of Compatible Land Use (reaffirmation of ANSI/ASA S12.9-2007/Part 5 (R2017)): 19 June 2020

ANSI/ASME A18.1-2020, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1 2017): 18 June 2020

ANSI/CPLSO 60335-2-76-2020, Particular requirements for electric fence energizers (national adoption with modifications of IEC 60335-2-76 (2018)): 15 June 2020

ANSI/CTA 709.3-1999 (R2020), Free-Topology Twisted-Pair Channel Specification (reaffirmation of ANSI/CTA 709.3-1999 (R2015)): 18 June 2020

ANSI/CTA 709.5-2015 (R2020), Control Networking Protocol Specification - Part 5: Implementation Application Layer Guidelines (reaffirmation of ANSI/CTA 709.5-2015): 18 June 2020

ANSI/E1.47-2020, Recommended Guidelines for Entertainment Rigging System Inspections (revision of ANSI E1.47-2017): 18 June 2020

ANSI/IES LM-90-2020, IES Approved Method: Measuring and Quantifying Temporal Light Artifacts (TLA) (new standard): 18 June 2020

ANSI/NFPA 1194-2021, Standard for Recreational Vehicle Parks and Campgrounds (revision of ANSI/NFPA 1194-2017): 21 June 2020

ANSI/NFPA 220-2021, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2018): 21 June 2020

INCITS/ISO/IEC 15444-1:2019 [2020], Information technology - JPEG 2000 image coding system - Part 1: Core coding system (identical national adoption of ISO/IEC 15444-1:2019 and revision of INCITS/ISO/IEC 15444-1:2016 [2019]): 22 June 2020

Draft IEC & ISO documents

This section lists proposed documents that the IEC or ISO, or both, are considering for approval and that may be of interest to *Standards Watch* readers. Anyone interested in reviewing and commenting on a document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC documents should be sent to Charles T. Zegers at czegers@ansi.org. Comments from US citizens on ISO documents should be sent to Karen Hughes at isot@ansi.org. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

77A/1081/CD, IEC 61000-2-4 ED3: Electromagnetic compatibility (EMC) - Part 2-4: Environment - Compatibility levels in industrial plants for low-frequency conducted disturbances, 14 August 2020

ISO 14021/DAMd1, Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) - Amendment 1: Carbon footprint, carbon neutral, 4 September 2020, \$33.00

JTC1-SC25/2959/DTS, ISO/IEC TS 11801-9903 ED1: Information technology - Generic cabling for customer premises - Part 9903: Matrix modelling of channels and links, 11 September 2020

JTC1-SC41/158/CDV, ISO/IEC 20924 ED2: Internet of Things (IoT) - Vocabulary, 11 September 2020

ISO/DIS 23592, Service excellence - Principles and model, 12 September 2020, \$82.00

34D/1559/CD, IEC 60598-1/FRAG6 ED10: Fragment 6 - Luminaires - Part 1: General requirements and tests, 18 September 2020

Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO that may be of use or interest to *Standards Watch* readers. Prices shown are from the [ANSI Webstore](#).

IEC 60947-4-2 Ed. 4.0 b:2020, Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - Semiconductor motor controllers, starters and soft-starters, \$375.00

IEC 61643-331 Ed. 3.0 b:2020, Components for low-voltage surge protection - Part 331: Performance requirements and test methods for metal oxide varistors (MOV), \$281.00

IEC 63034 Ed. 1.0 b:2020, Microspeakers, \$281.00

ISO/IEC TR 11801-9909:2020, Information technology – Generic cabling systems for customer premises - Part 9909: Evaluation of balanced cabling in support of 25 Gbit/s for reach greater than 30 metres, \$138.00

ISO/IEC TR 23951:2020, Information technology - Cloud computing - Guidance for using the cloud SLA metric model, \$162.00

ISO 18167:2020, Textile floor coverings - Installation practices - General, \$185.00

ISO 12232/Amd1:2020, Photography - Digital still cameras - Determination of exposure index, ISO speed ratings, standard output sensitivity, and recommended exposure index – Amendment 1: Determination of encoding-relative sensitivity (ERS), \$19.00

TSP meeting schedule

All times are EDT, and all meetings will be via WebEx, not face-to-face. NOTE THAT THE EVENT SAFETY WORKING GROUP IS NOW MEETING ON SATURDAY, NOT FRIDAY.

Controls BSR E1.37-5 Task Group	14:00 – 16:00 EDT	Saturday 18 July 2020
Controls BSR E1.68 Task Group	10:00 – 14:00 EDT	Tuesday 14 July 2020
	10:00 – 14:00 EDT	Friday 17 July 2020
Controls Next Gen Overall Task Group	13:00 – 14:00 EDT	Wednesday 15 July 2020
Control Protocols Working Group	10:00 – 13:00 EDT	Thursday 16 July 2020
Electrical Power Working Group	14:00 – 17:00 EDT	Friday 17 July 2020
Event Safety Working Group	10:00 – 13:00 EDT	Saturday 11 July 2020
Floors Working Group	14:00 – 16:00 EDT	Wednesday 15 July 2020
Fog & Smoke Working Group	17:00 – 20:00 EDT	Wednesday 15 July 2020
Photometrics Working Group	14:00 – 16:00 EDT	Thursday 16 July 2020
Rigging Working Group	17:00 – 20:00 EDT	Thursday 16 July 2020
Stage Machinery Working Group	10:00 – 13:00 EDT	Wednesday 15 July 2020
Stage Machinery E1.6-4 Task Group	14:00 – 16:00 EDT	Tuesday 14 July 2020
Stage Machinery E1.64 Task Group	11:00 – 13:00 EDT	Tuesday 14 July 2020
Technical Standards Council	11:00 – 14:00 EDT	Monday 20 July 2020

The meetings the second week of October also will be via WebEx, not face-to-face. The meeting schedule is posted at <https://www.esta.org/ESTA/meetings.php>. Note that it is subject to change. Everything is subject to change.

ESTA Standards Watch

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